EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

U.S. Patent No. RE50,307

Title: Socket Structure with Duplex Electrical Connection

Inventor: Chou Hsien Tsai

The following chart provides evidence showing that the T7 Portable SSD ("T7" or the "Accused Instrumentalities") being made, used, sold, imported, and/or offered for sale in the United States by Samsung Electronics Co., Ltd., Samsung Electronics America, Inc, and/or their affiliates and subsidiaries ("Samsung") infringe claims of the '307 Patent. The below chart is based on publicly available information currently known to KIWI. KIWI reserves the right to supplement or otherwise modify this preliminary claim chart as additional information becomes available.

Samsung, EX1004, p. 1

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
[**34A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

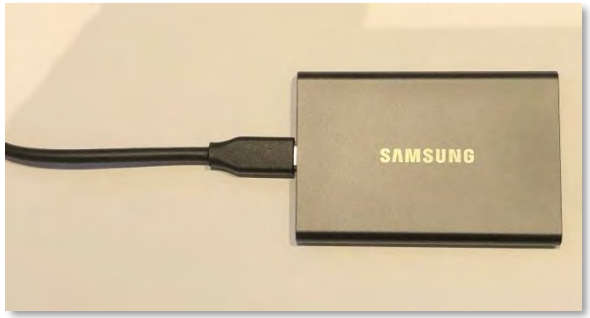
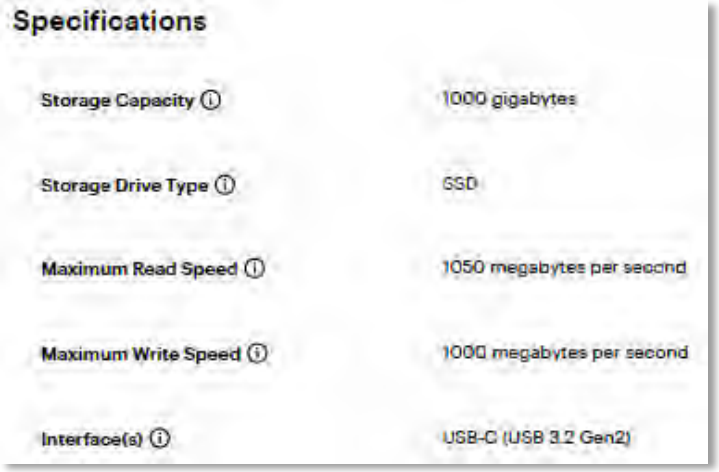
Claim 34 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**34B**] through [**34N**].
[**34B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

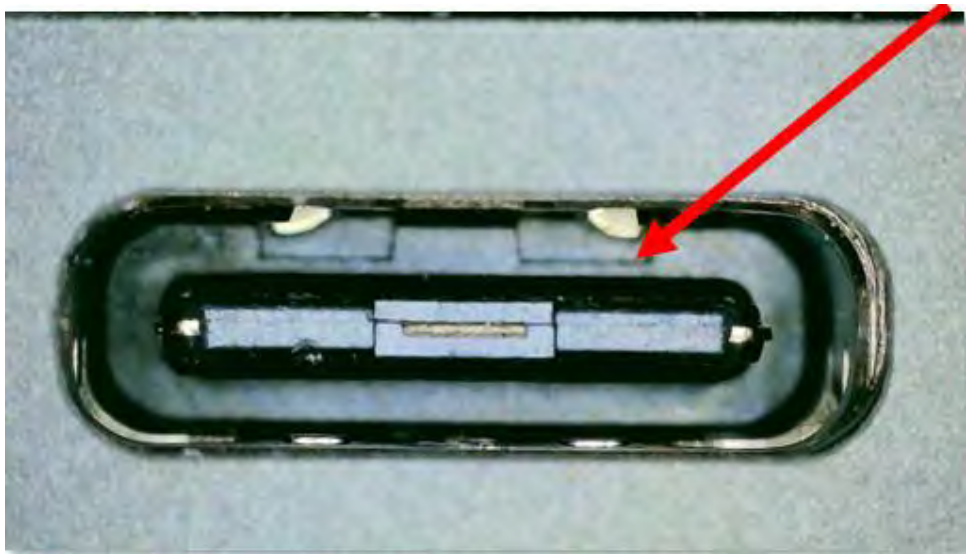
Claim 34 of the '307 Patent	Evidence of Infringement
	
[**34C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

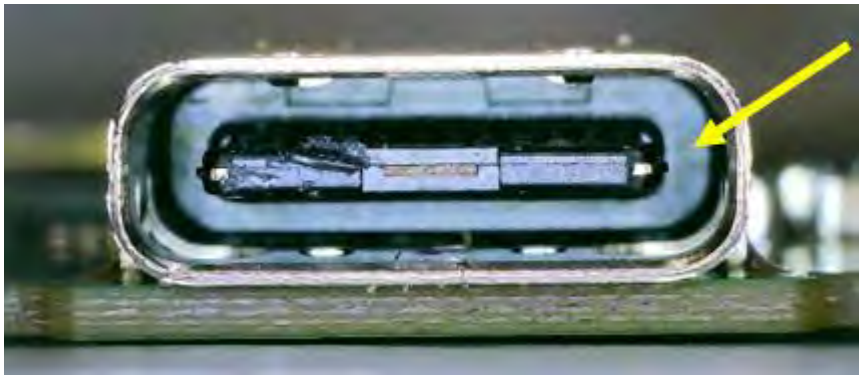
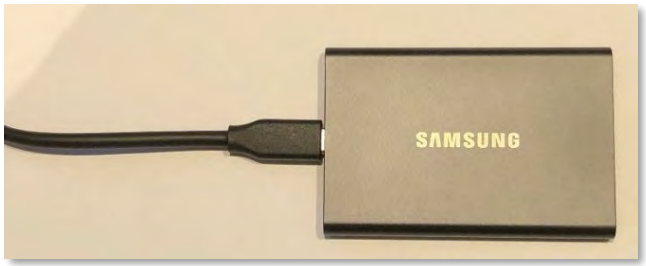
Claim 34 of the '307 Patent	Evidence of Infringement
	The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow.  The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.)
[**34D**] a tongue, which has a first surface with grooves, and a second surface with grooves, the second surface disposed opposite the first surface,	The Samsung T7 includes a tongue. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

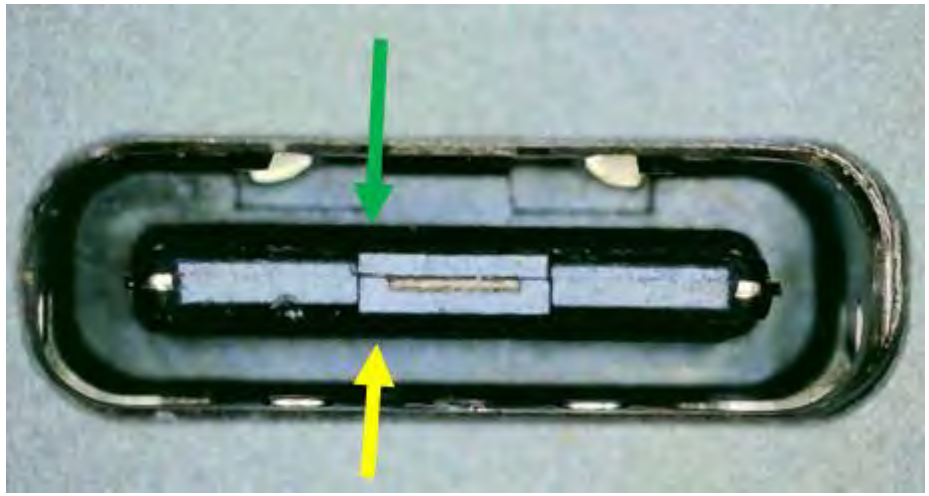
Claim 34 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.  Each of the first and second surfaces has grooves.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

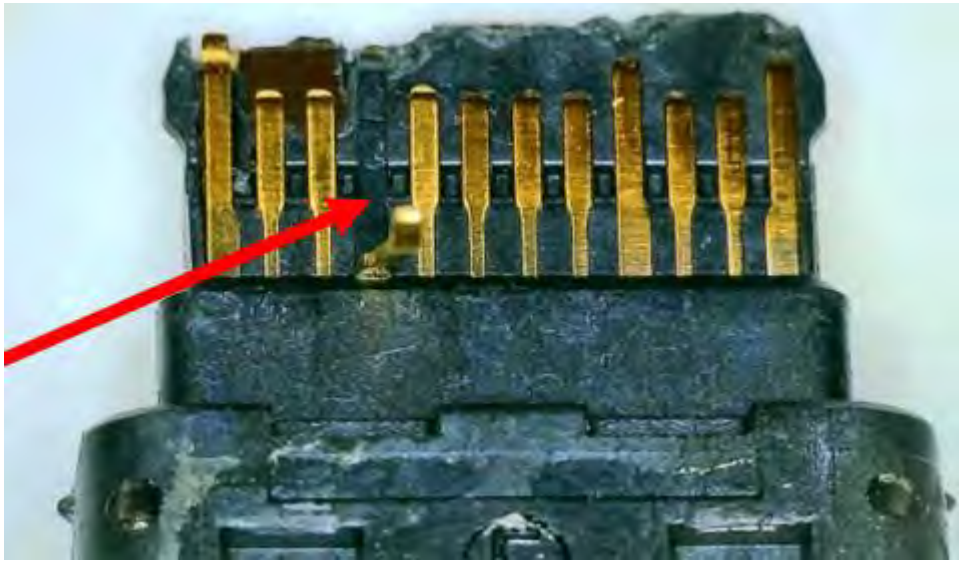
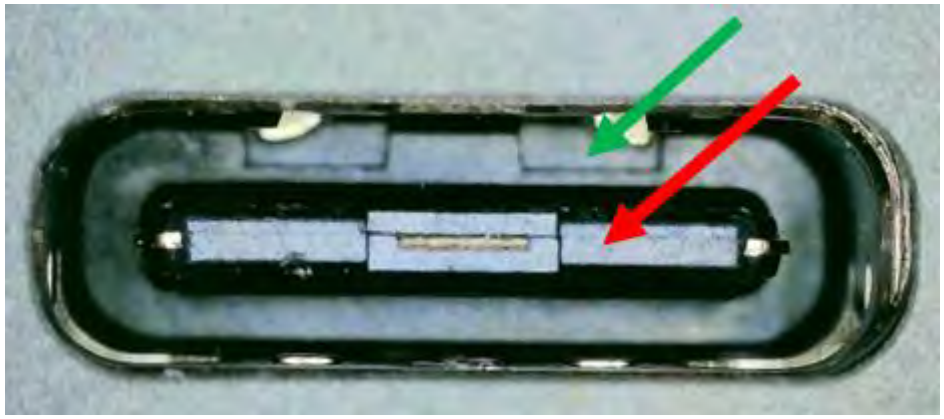
Claim 34 of the '307 Patent	Evidence of Infringement
	
[**34E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

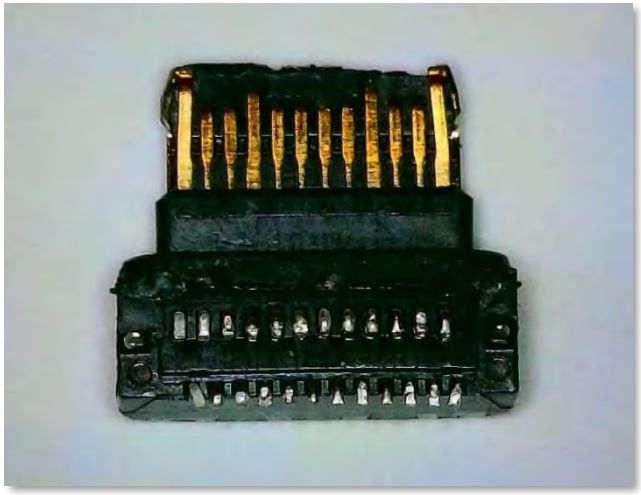
Claim 34 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

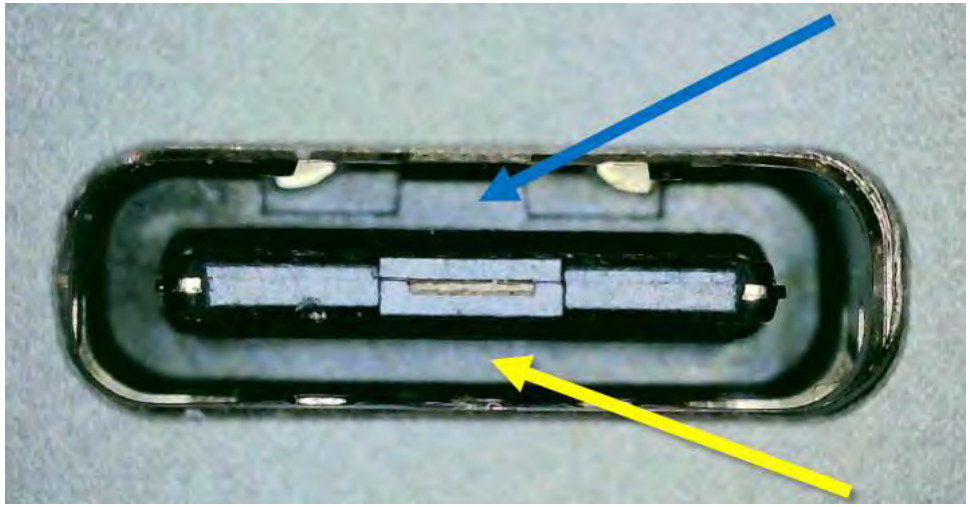
Claim 34 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

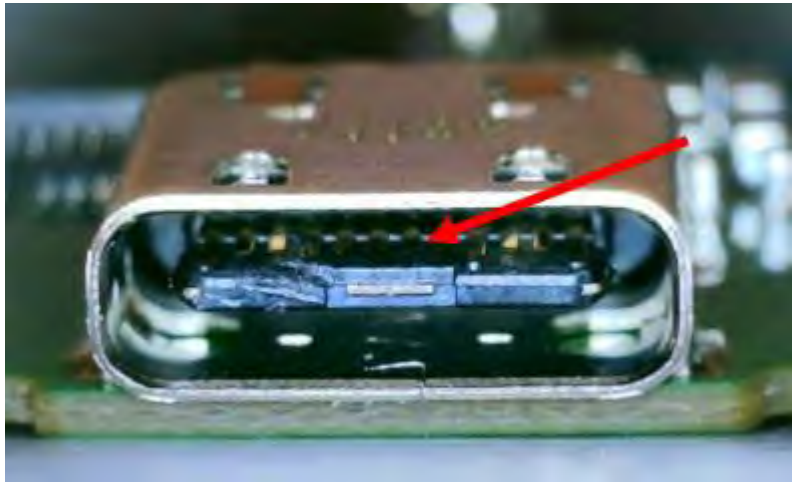
Claim 34 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image).
[**34F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

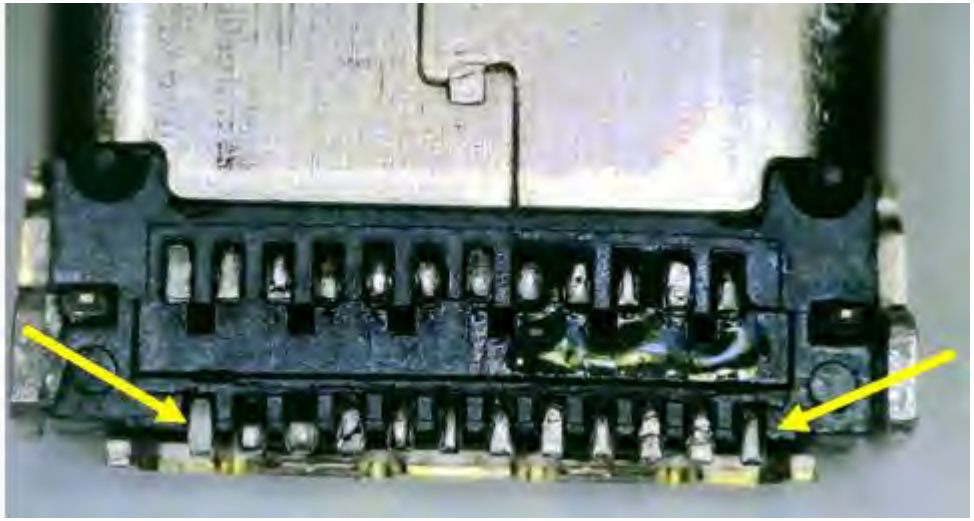
Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base.
[**34G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

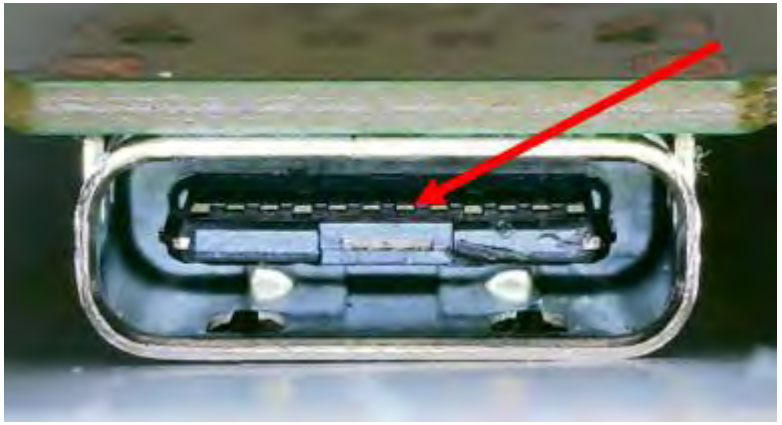
Claim 34 of the '307 Patent	Evidence of Infringement
	 
[**34H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**34G**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

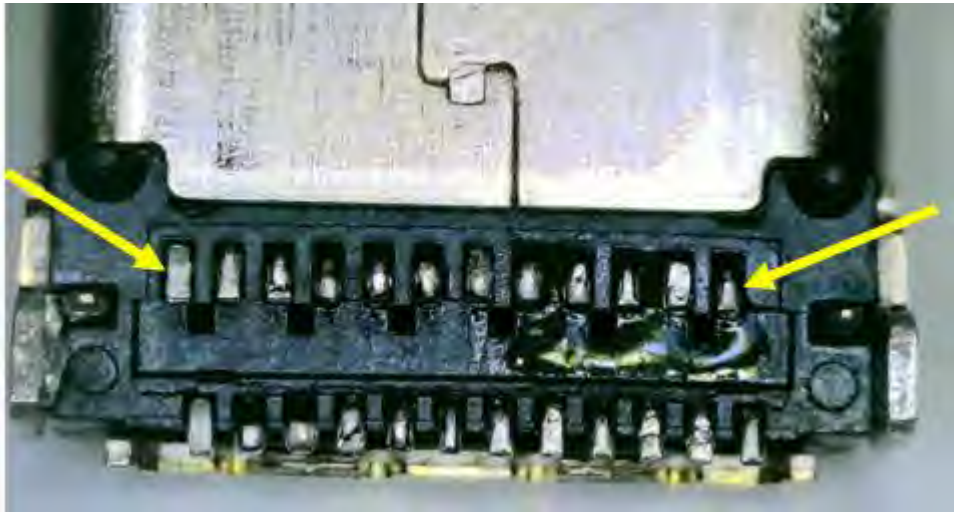
Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base.
[**34I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

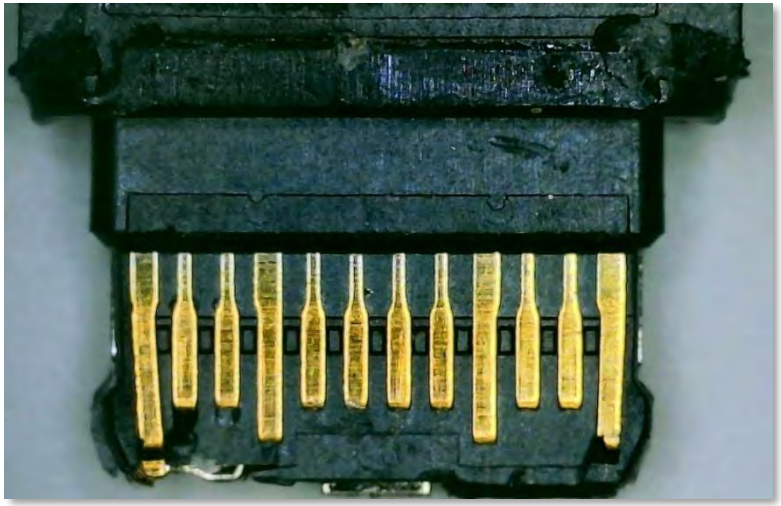
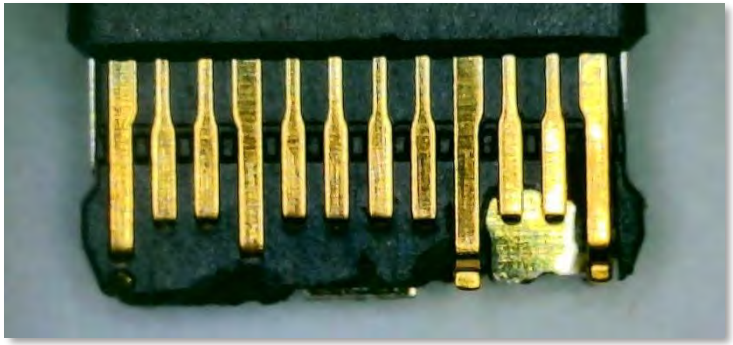
Claim 34 of the '307 Patent	Evidence of Infringement
	  The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15.
[**34J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

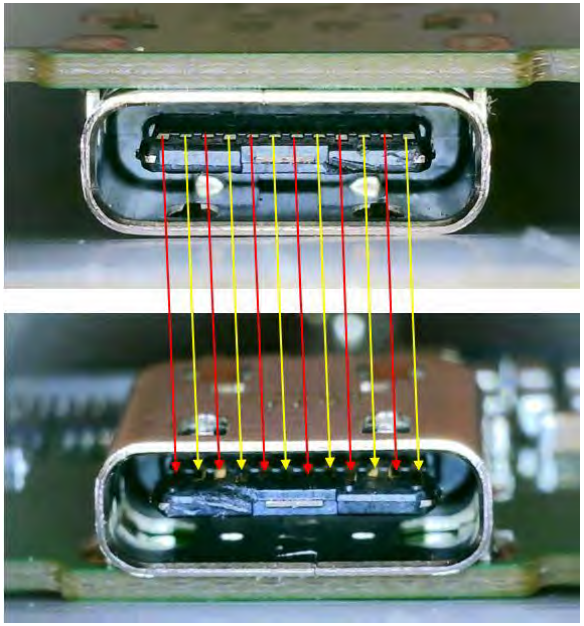
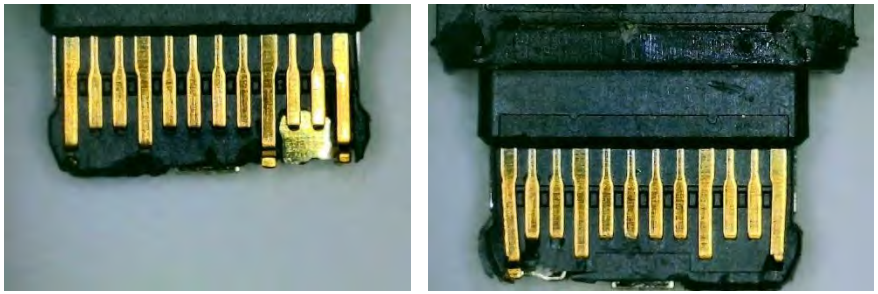
Claim 34 of the '307 Patent	Evidence of Infringement
	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.  In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement

Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

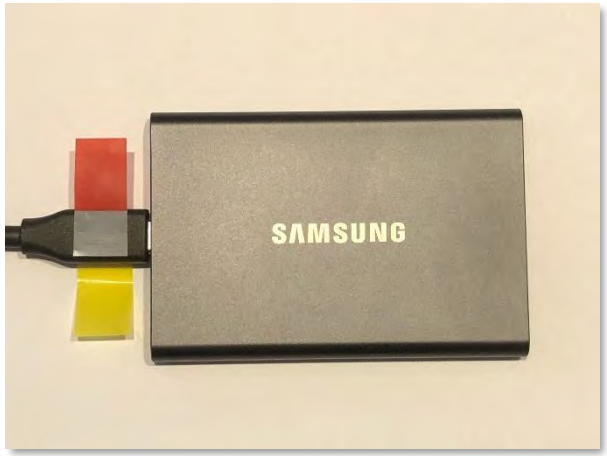
Claim 34 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**34K**] through [**34N**].
[**34K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed within the connection slot,	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

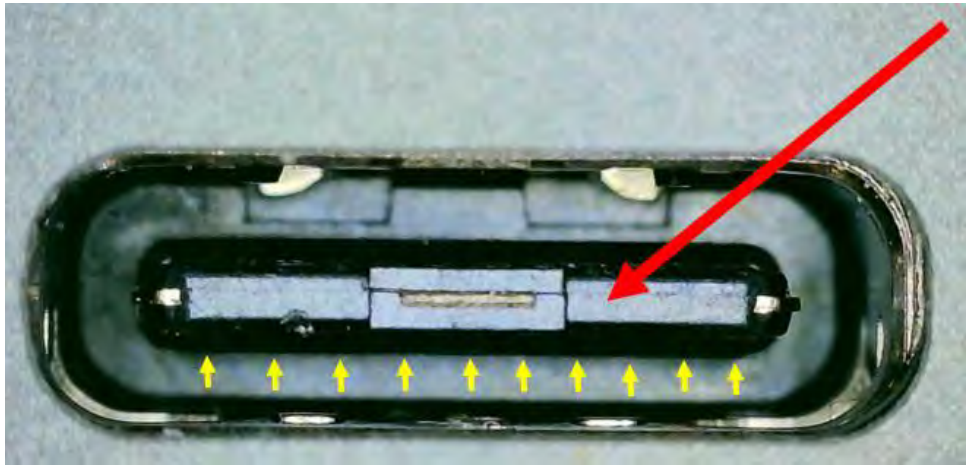
Claim 34 of the '307 Patent	Evidence of Infringement
	  (Image of USB-C cable plug showing top and bottom rows of connection terminals.)
[**34L**] wherein the connection slot is symmetric with symmetric up and	The Samsung T7 is configured for a first operational state as described above in connection with element [**34K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

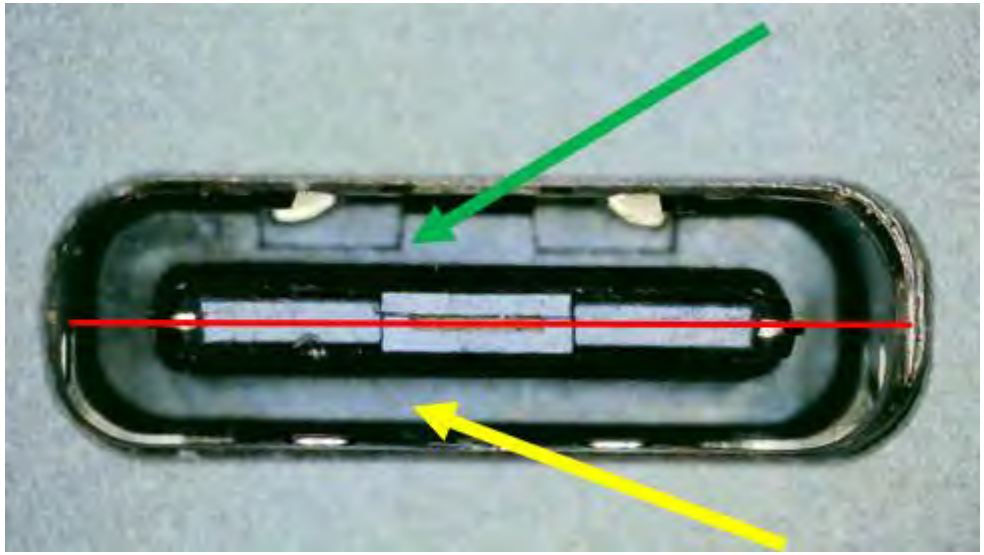
Claim 34 of the '307 Patent	Evidence of Infringement
down chambers, and symmetric left and right chambers around the tongue; and	The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.  The left and right chambers are separated by red lines, and are indicated by blue and orange arrows respectively, in the image below.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

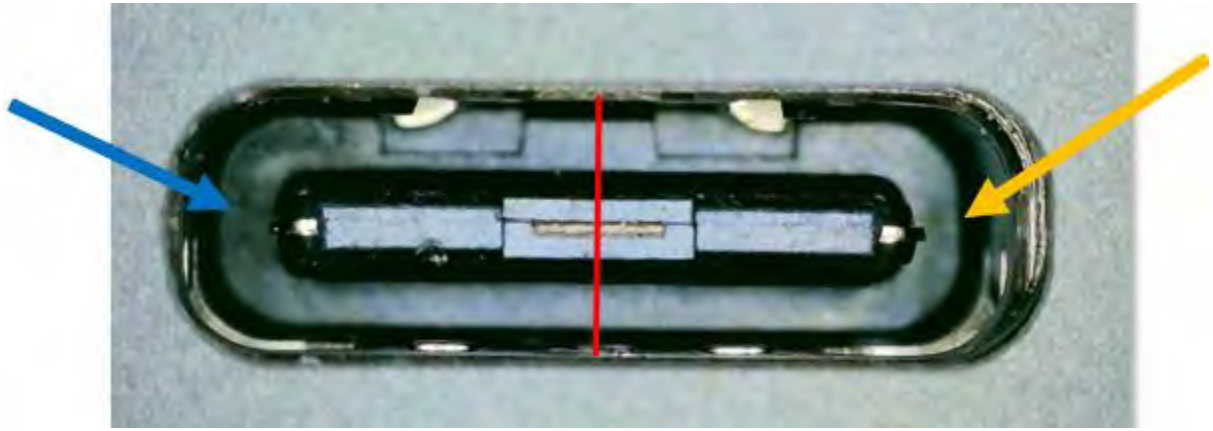
Claim 34 of the '307 Patent	Evidence of Infringement
	
[**34M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as

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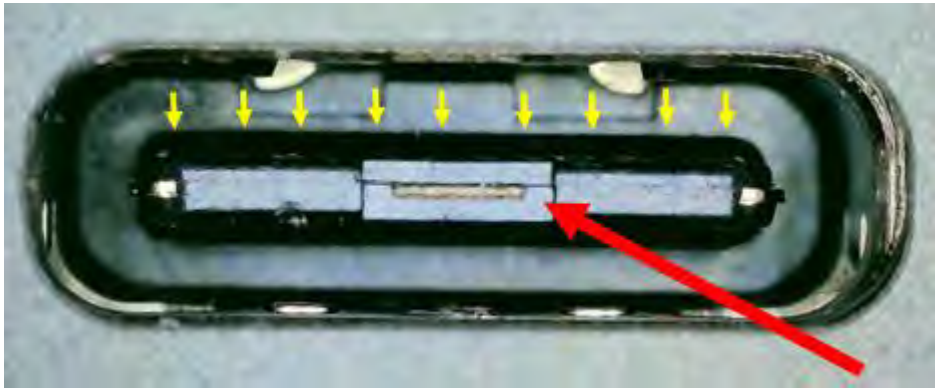
Claim 34 of the '307 Patent	Evidence of Infringement
tongue is disposed within the connection slot,	yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot. 
[**34N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**34L**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

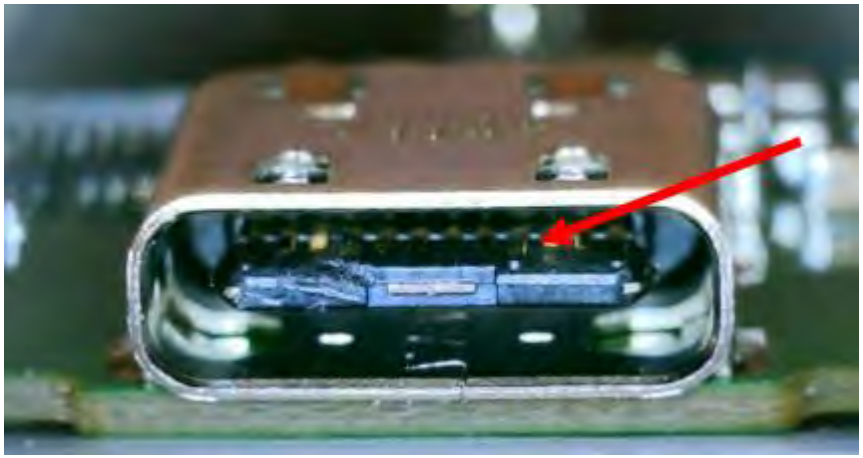
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
[**35A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**35B**] wherein the tongue only contacts an interior portion of the plug when the plug is inserted.	The tongue of the Samsung T7 only contacts an interior portion of the plug when the plug is inserted. In particular, the tongue of the Samsung T7 is designed to fit inside the USB plug such that the electrical contacts on the top and bottom of the tongue come into contact with the electrical contacts on the interior top and bottom of the USB plug. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

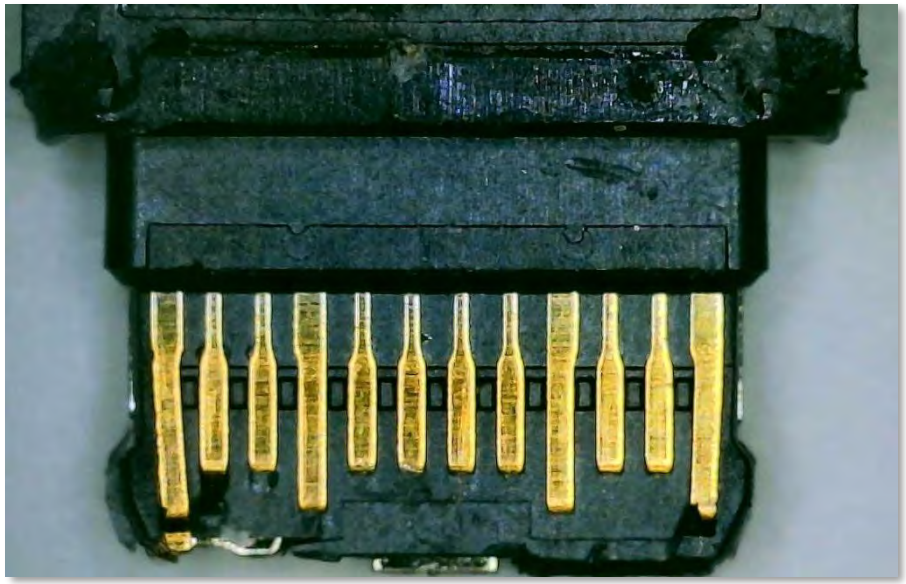
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Images showing contacts on surface of tongue.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.)
[**36A**] The socket structure of claim 35,	This product includes a socket structure as described in claim 35, as described above in connection with elements [**35A**] through [**35B**].
[**36B**] wherein a thickness of the tongue is less than a third of a height of the connection slot.	The included USB-C cable is advertised as compliant with the USB-C standard and, on information and belief, the socket structure of the Samsung T7 is compliant with the USB-C standard so as to be able to connect with the USB-C cable plug. *See also* Element [**34A**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

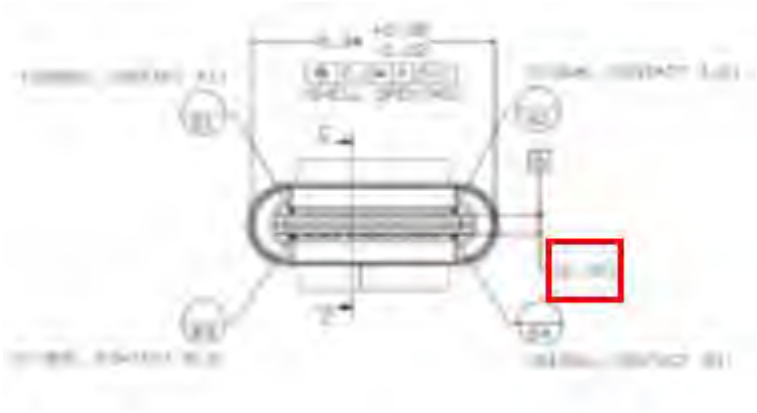
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	The USB-C standard specifies that the width of the tongue is 0.7 mm and that the width of the receptacle is at least 2.5 mm, meaning that the thickness of the tongue is less than a third of the thickness of the connection slot (0.7/2.5=0.28<0.33).  Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

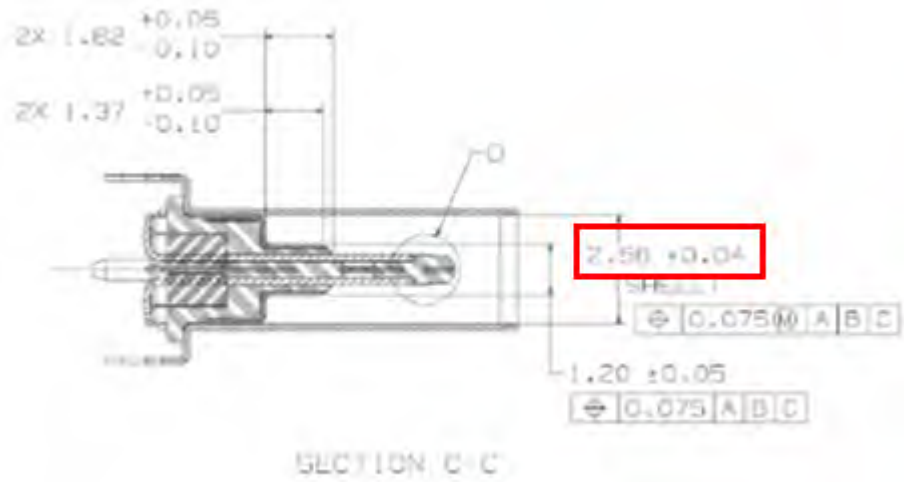
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 *Id.*  *Id.*

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

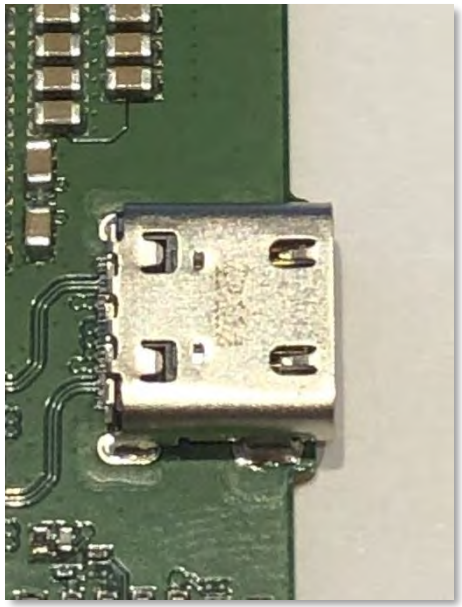
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	Furthermore, testing confirms that the thickness of the tongue is less than a third of a height of the connection slot.
[**39A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**39B**] further comprising a metal housing at least partially covering the plastic base.	The Samsung T7 includes a metal housing that covers the plastic base at least in part.  (Image of exterior of the USB port on printed circuit board in Samsung T7.)
[**40A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
[**40B**] wherein the socket structure is a universal serial bus socket structure.	The Samsung Portable SSD T7 includes a socket structure that is a universal serial bus, or USB, socket structure.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

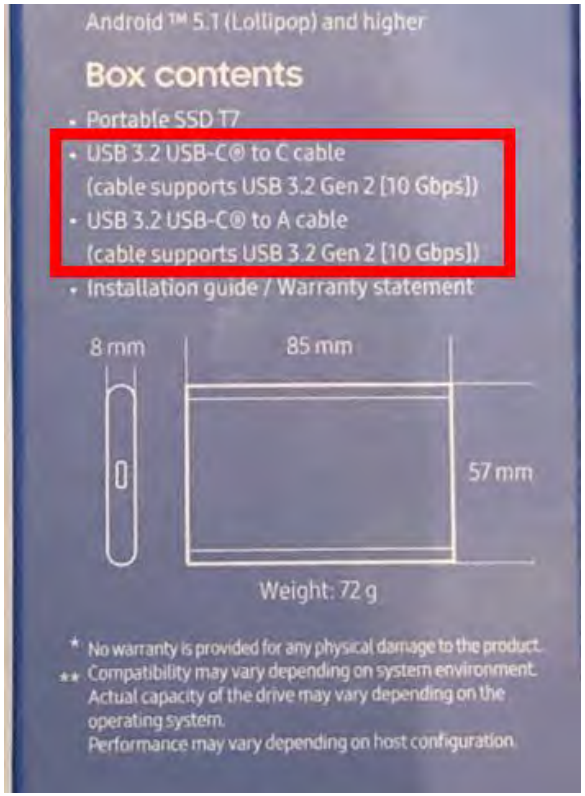
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung Portable SSD T7.) *See also* Element [**34A**].
[**41A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

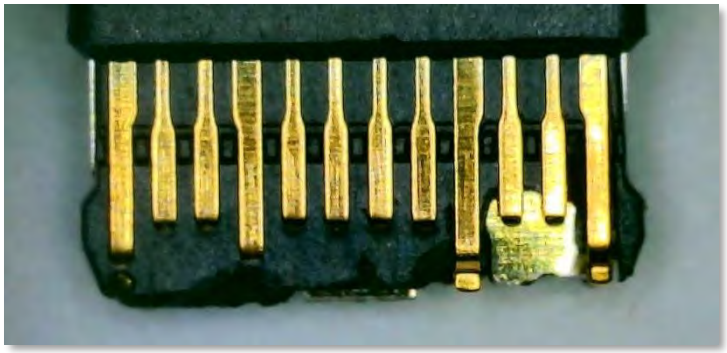
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
[**41B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base of the Samsung T7 are integrally formed. 
[**42A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**42B**] wherein each contact of the first and second contacts is a portion of a respective terminal.	Each contact of the first and second contacts is a portion of a respective terminal. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

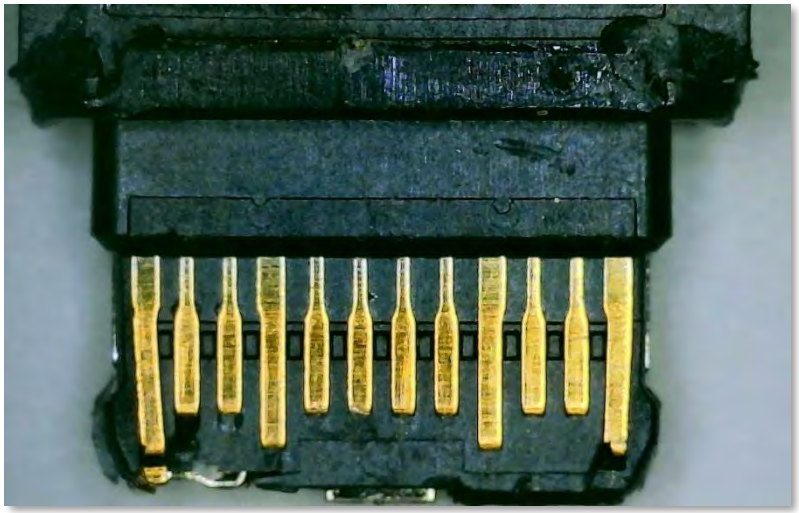
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	
[**43A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**43B**] wherein each of the first contacts is electrically connected to the respective first pin extending out of the plastic base through a rear cover and each of the second contacts is electrically connected to the respective second pin	Each of the first contacts in the Samsung T7 is electrically connected to the respective first pins extending out of the plastic base, as described above in connection with element [**34G**]. The first pins extend out of the plastic base through a rear cover.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

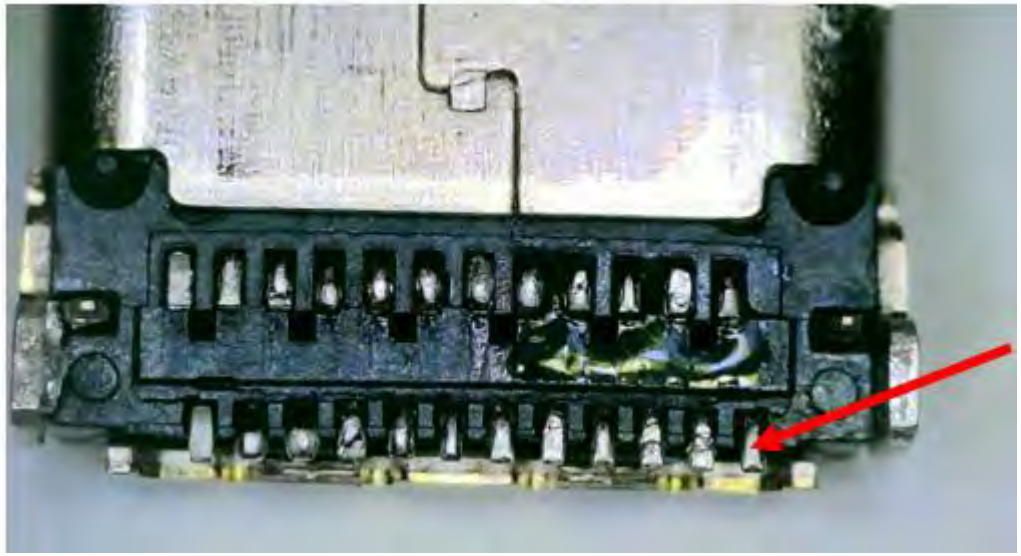
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
extending out of the plastic base through the rear cover.	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Each of the second contacts is also connected to the respective second pin extending out of the plastic base, as described above in connection with element [**34H**]. The second pins extend out of the plastic base through the rear cover.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

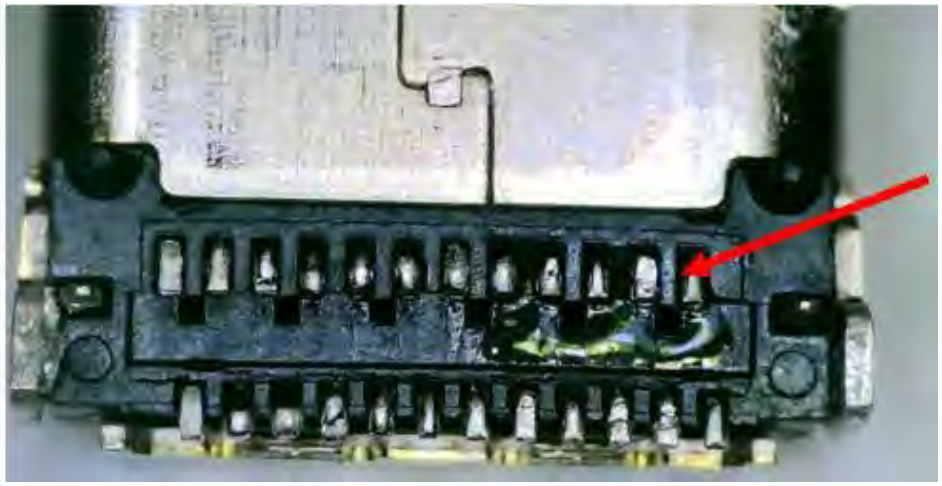
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

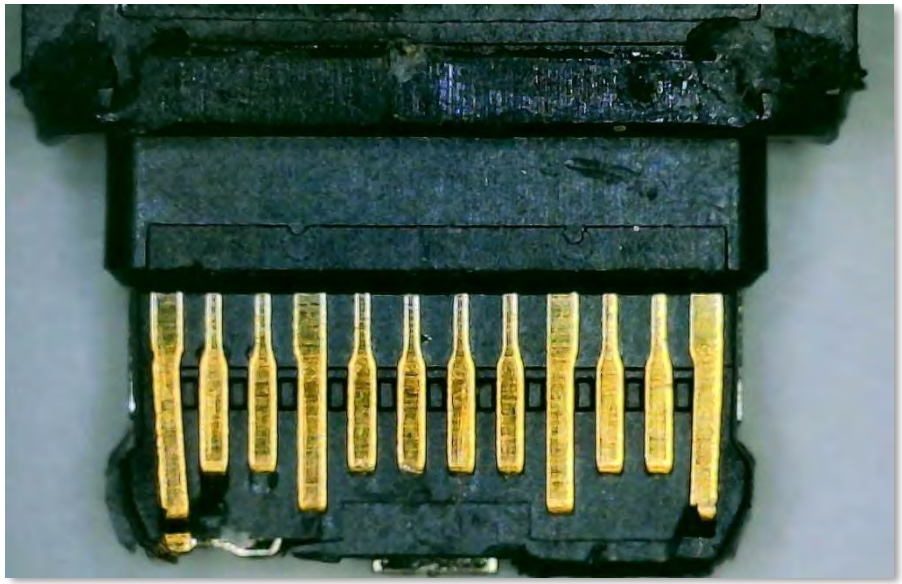
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
[**44A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**44B**] wherein at least two of the first contacts are not in electrical communication with one another, and at least two of the second contacts are not in electrical communication with one another.	The first and second contacts of the Samsung T7 are not in electrical communication with the others of the first and second contacts. For example, each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) *See generally* elements [**34F**] through [**34H**]. Moreover, the Samsung T7 socket structure is compatible with the included USB 3.2 USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) In accordance with the USB-C standard, each contact and corresponding output pin is associated with a separate electrical signal. The Samsung T7 would not function in accordance with the USB-C standard if, for example,

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

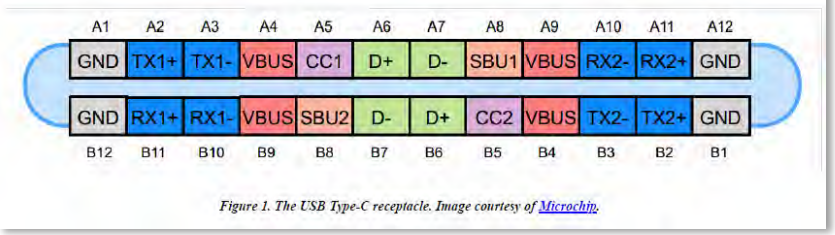
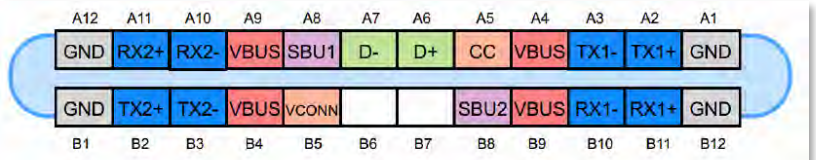
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	the TX pins (A2, A3, B2, and B3) were in electrical communication with, for example, the VBUS connections (A4, A9, B4, B9), or if the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12). **The USB Type-C Receptacle/Plug Pins** The USB Type-C connector has 24 pins. Figures 1 and 2, respectively, show the pins for the USB Type-C receptacle and plug.  *Figure 1. The USB Type-C receptacle. Image courtesy of Microchip.*  *Figure 2. The USB Type-C plug. Image courtesy of Microchip.* *See* https://www.allaboutcircuits.com/technical-articles/introduction-to-usb-type-c-which-pins-power-delivery-data-transfer/ (accessed April 10, 2025).
[**45A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
[**45B**] further comprising a rear cover attached to the plastic base.	The Samsung T7 includes a rear cover attached to the plastic base. 
[**46A**] The socket structure of claim 45,	This product includes a socket structure as described in claim 45, as described above in connection with elements [**45A**] through [**45B**].
[**46B**] wherein each of the first contacts is electrically connected to the respective first pin extending out of the plastic base through the rear cover.	Each of the first contacts in the Samsung T7 is electrically connected to the respective first pins extending out of the plastic base, as described above in connection with element [**34G**]. The first pins extend out of the plastic base through a rear cover.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

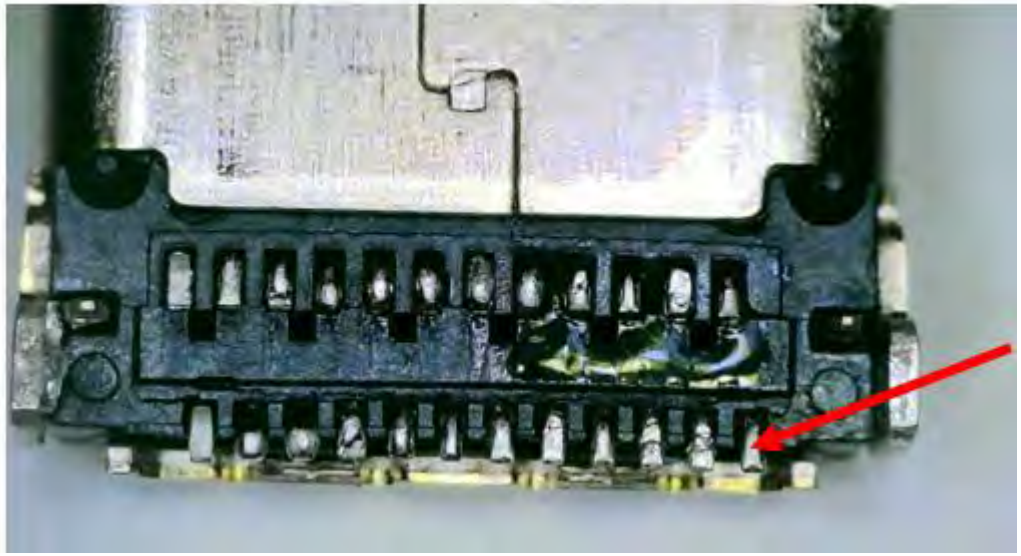
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Each of the second contacts is also connected to the respective second pin extending out of the plastic base, as described above in connection with element [**34H**]. The second pins extend out of the plastic base through the rear cover.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.)  *See also* Element [**43B**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

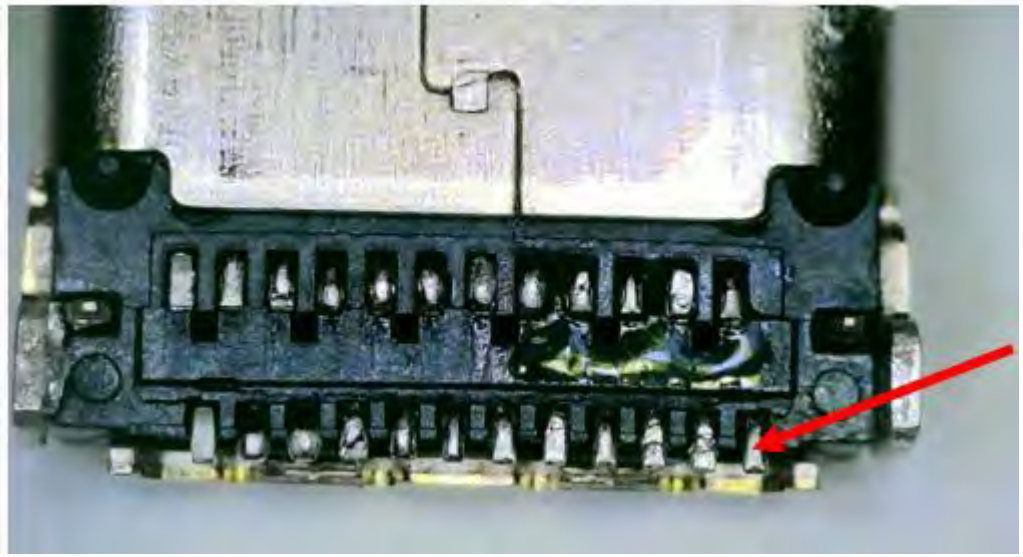
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
[**47A**] The socket structure of claim 45,	This product includes a socket structure as described in claim 45, as described above in connection with elements [**45A**] through [**45B**].
[**47B**] wherein each of the second contacts is electrically connected to the respective second pin extending out of the plastic base through the rear cover.	Each of the first contacts in the Samsung T7 is electrically connected to the respective first pins extending out of the plastic base, as described above in connection with element [**34G**]. The first pins extend out of the plastic base through a rear cover.  (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Each of the second contacts is also connected to the respective second pin extending out of the plastic base, as described above in connection with element [**34H**]. The second pins extend out of the plastic base through the rear cover.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

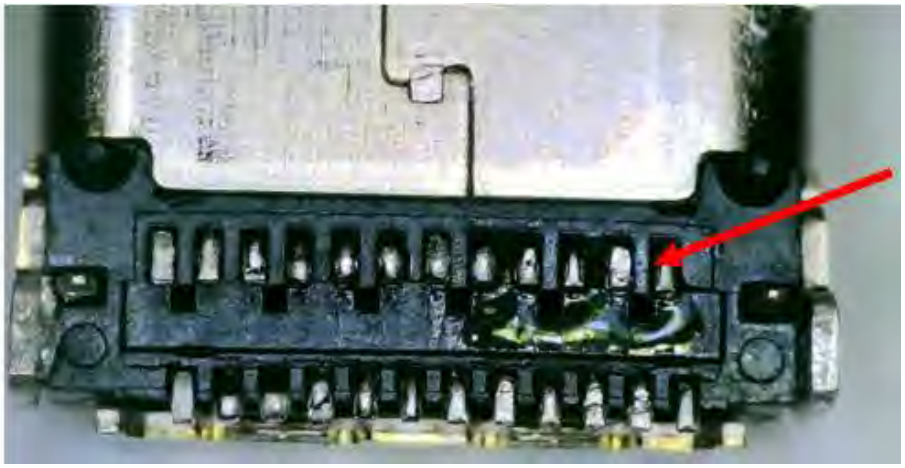
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.)  *See also* Element [**43B**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

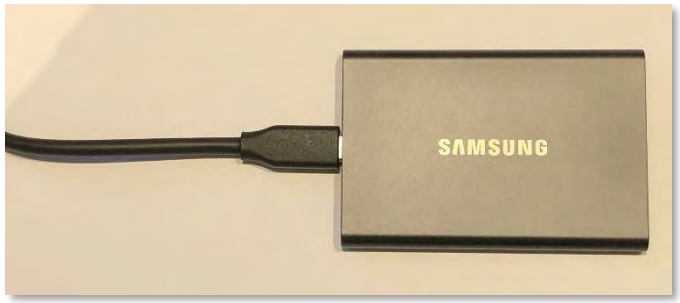
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
[**48A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**48B**] wherein the socket structure is operatively connected to the plug, and wherein the socket structure is operative to simultaneously electrically connect with the first and second contacts.	When a plug is inserted into the socket structure, the socket structure is operatively connected to the plug.  Samsung provides an installation guide showing how to connect the Samsung Portable SSD T7 to a USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

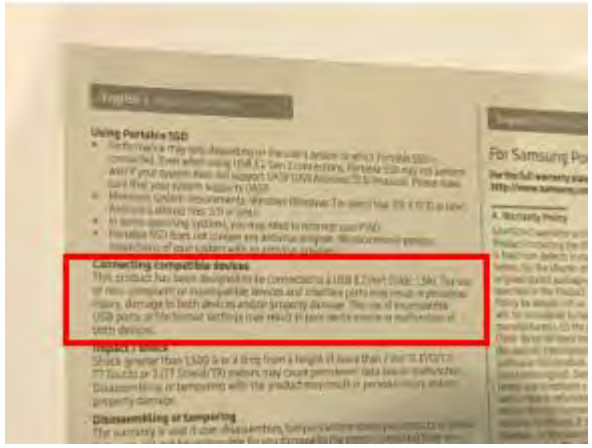
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	  Indeed, the entire purpose of the Samsung Portable SSD T7 is to connect to a USB-C cable via the socket structure to allow information to be transferred to and from the Samsung T7 via the socket.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

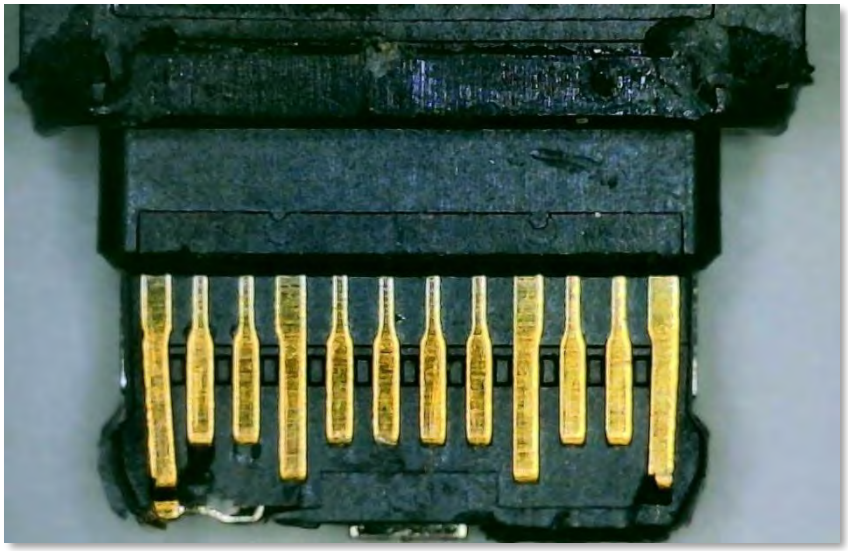
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	In this configuration, the socket structure is operative to simultaneously electrically connect with the first and second contacts, as described above with reference to element [**34I**].
[**49A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**49B**] wherein at least two of the first contacts are not in electrical communication with one another.	The first and second contacts of the Samsung T7 are not in electrical communication with the others of the first and second contacts. For example, each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) *See generally* elements [**34F**] through [**34H**]. Moreover, the Samsung T7 socket structure is compatible with the included USB 3.2 USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) In accordance with the USB-C standard, each contact and corresponding output pin is associated with a separate electrical signal. The Samsung T7 would not function in accordance with the USB-C standard if, for example,

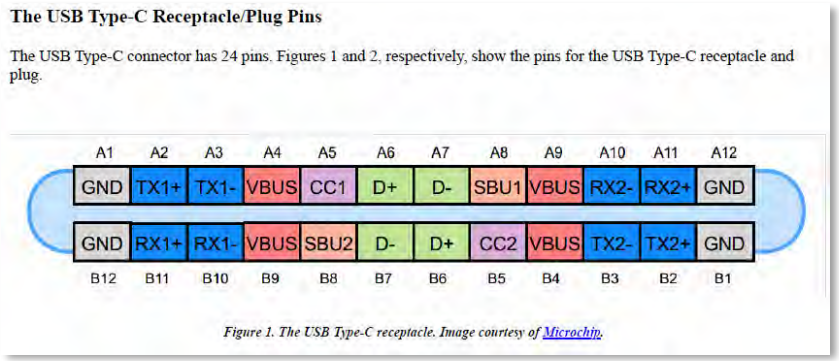
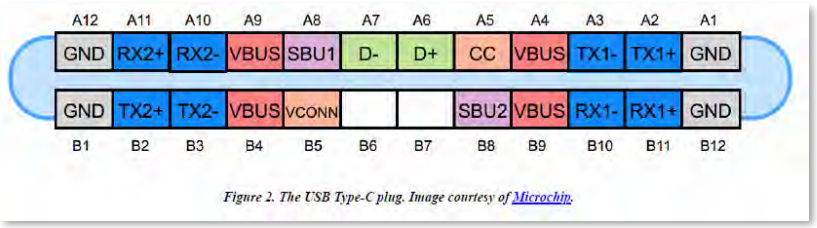
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	the TX pins (A2, A3, B2, and B3) were in electrical communication with, for example, the VBUS connections (A4, A9, B4, B9), or if the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).   *See* https://www.allaboutcircuits.com/technical-articles/introduction-to-usb-type-c-which-pins-power-delivery-data-transfer/ (accessed April 10, 2025). *See also* Element [**44B**].
[**50A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**50B**] wherein at least two of the	The first and second contacts of the Samsung T7 are not in electrical communication with the others of the first and second contacts.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

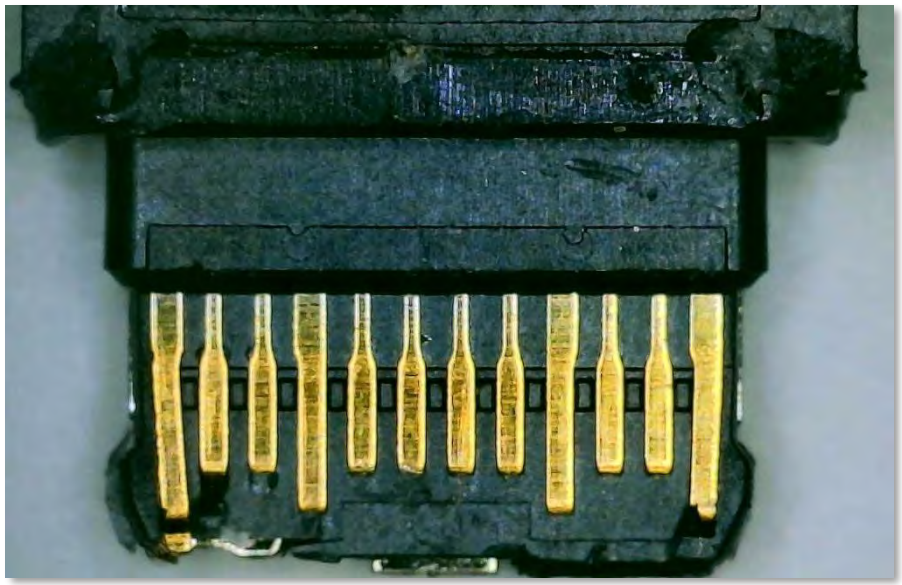
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
second contacts are not in electrical communication with one another.	For example, each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) *See generally* elements [**34F**] through [**34H**]. Moreover, the Samsung T7 socket structure is compatible with the included USB 3.2 USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) In accordance with the USB-C standard, each contact and corresponding output pin is associated with a separate electrical signal. The Samsung T7 would not function in accordance with the USB-C standard if, for example,

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

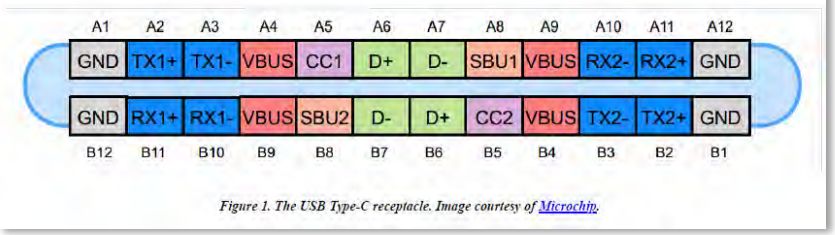
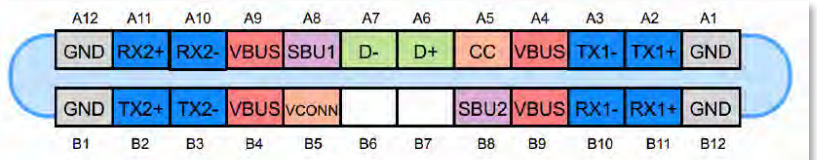
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	the TX pins (A2, A3, B2, and B3) were in electrical communication with, for example, the VBUS connections (A4, A9, B4, B9), or if the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12). **The USB Type-C Receptacle/Plug Pins** The USB Type-C connector has 24 pins. Figures 1 and 2, respectively, show the pins for the USB Type-C receptacle and plug.  *Figure 1. The USB Type-C receptacle. Image courtesy of Microchip.*  *Figure 2. The USB Type-C plug. Image courtesy of Microchip.* *See* https://www.allaboutcircuits.com/technical-articles/introduction-to-usb-type-c-which-pins-power-delivery-data-transfer/ (accessed April 10, 2025). *See also* Element [**44B**].
[**51A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
[**51B**] wherein the at least one row of first contacts and respective first pins are located at ends of respective ones of a row of first terminals and the at least one row of second contacts and respective second pins are located at ends of respective ones of a row of second terminals.	The contacts and pins in the Samsung T7 are each located at the ends of a corresponding terminal. In particular, the row of first contacts and respective first pins are located at the ends of respective ones of a row of first terminals. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Similarly, the row of second contacts and respective second pins are located at the ends of respective ones of a row of second terminals. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

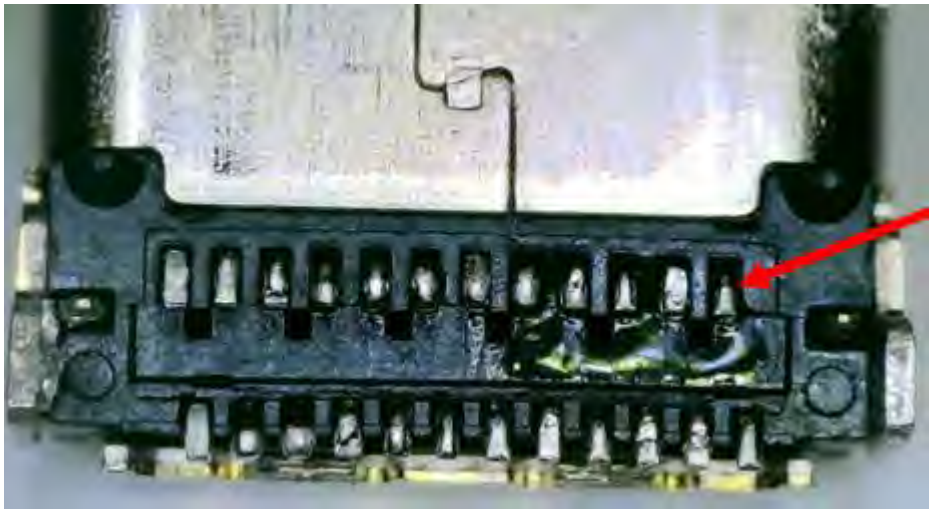
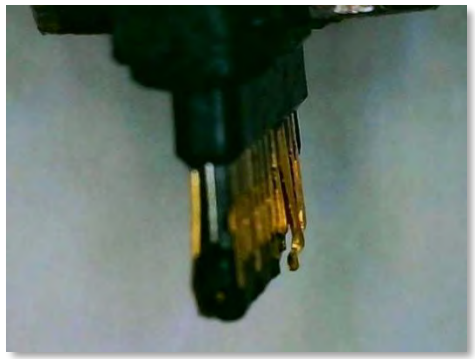
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB). *See also* Element [**42B**].
[**52A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**52B**] wherein a portion of a first contact projects beyond one surface of the tongue, and a portion of a second contact projects beyond another surface of the tongue.	A portion of the contacts of the Samsung T7 projects beyond the surfaces of the tongue. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

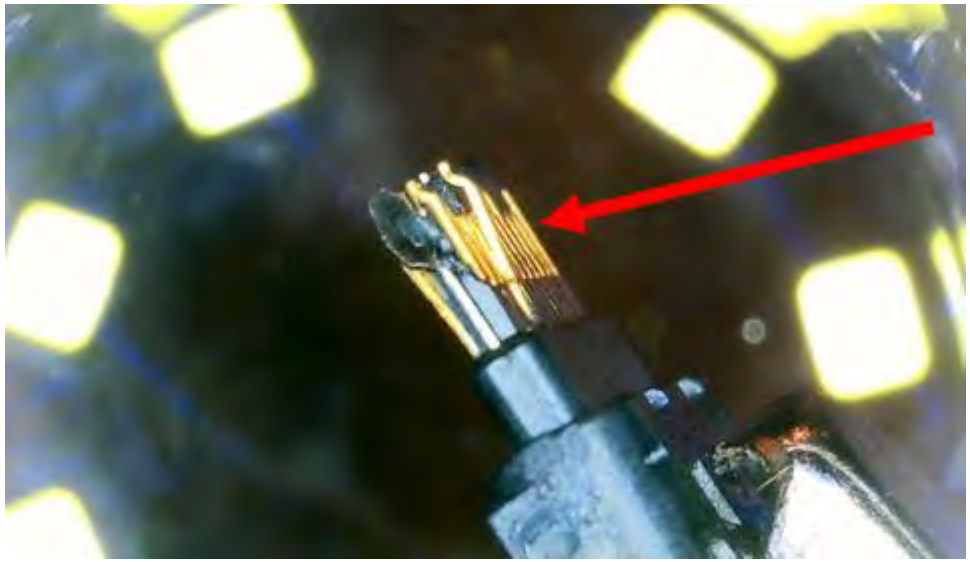
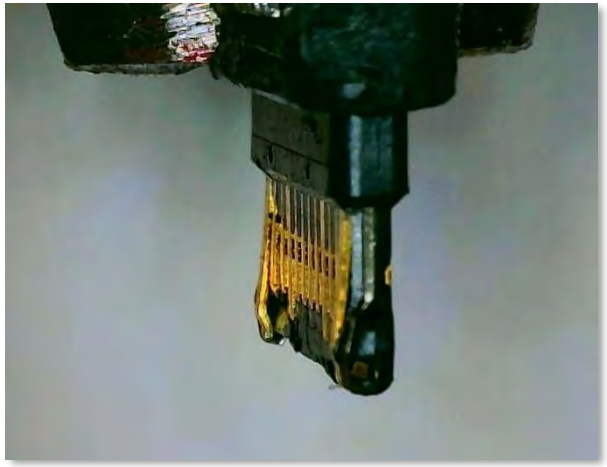
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

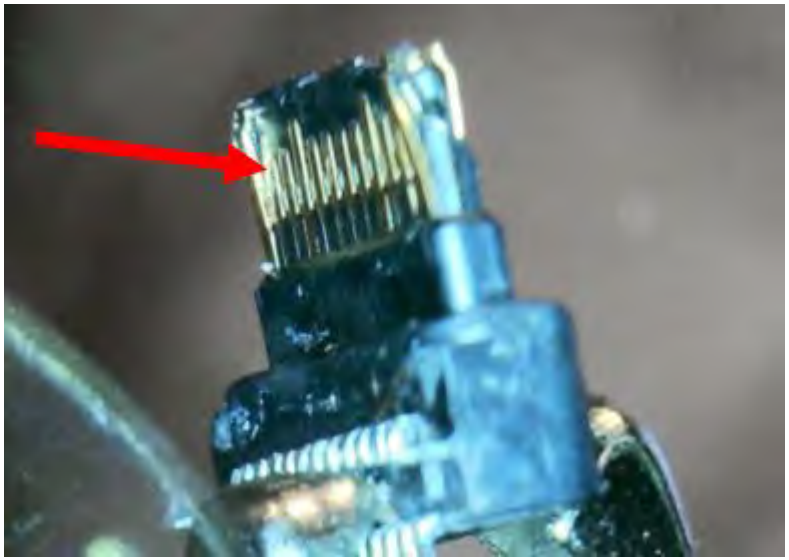
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 In addition, the included USB-C cable is advertised as compliant with the USB-C standard and, on information and belief, the socket structure of the Samsung T7 is compliant with the USB-C standard so as to be able to connect with the USB-C cable plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The USB-C standard indicates that the contacts should be proud of plastic.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1.
[**53A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**53B**] wherein a portion of one of the first contacts is at least partially included in the first surface with grooves.	At least a portion of the first contacts of the Samsung T7 is at least partially included in the first surface with grooves.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

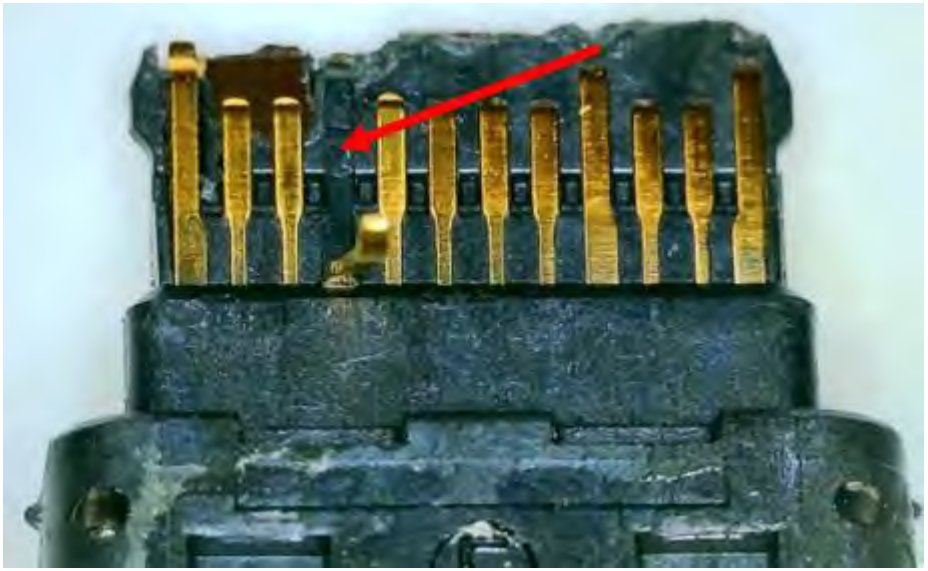
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34D**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

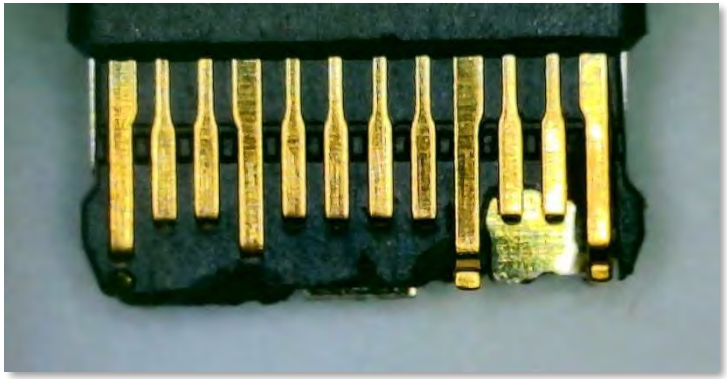
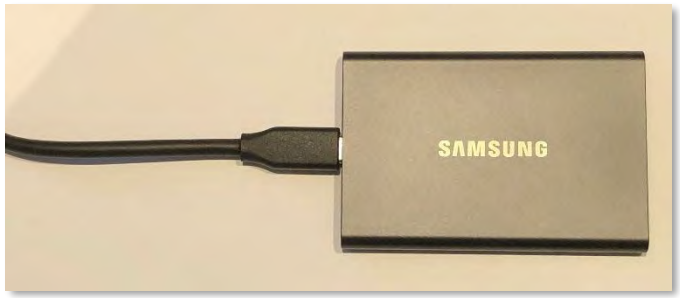
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
[**54A**] The socket structure of claim 34,	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**54B**] wherein a portion of one of the second contacts is at least partially included in the second surface with grooves.	At least a portion of the second contacts of the Samsung T7 is at least partially included in the second surface with grooves.  *See also* Element [**34D**].
[**55A**] An electrical connection system comprising	The Samsung Portable SSD T7 and the included USB-C cable (which includes a USB-C plug) form an electrical connection system. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

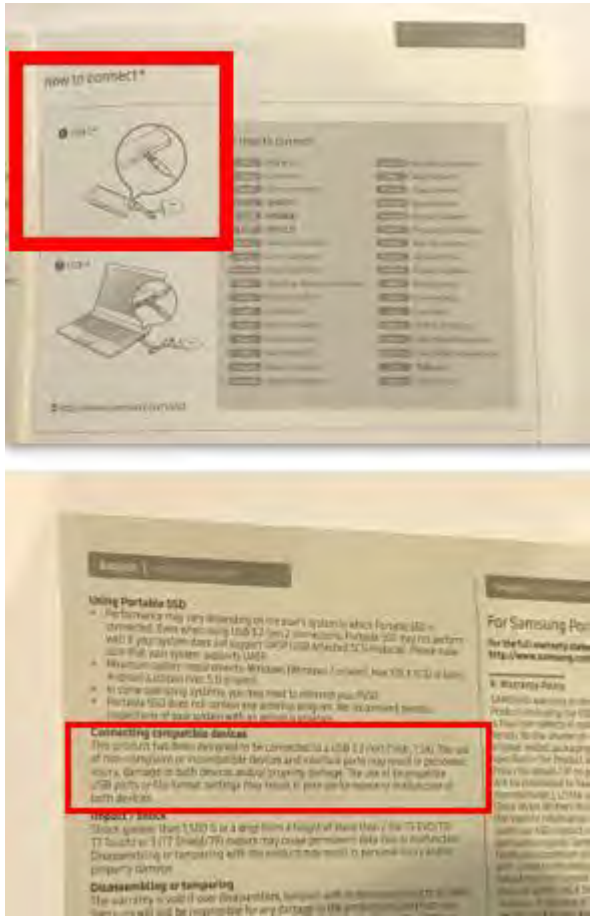
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	Samsung provides an installation guide showing how to connect the Samsung Portable SSD T7 to a USB-C or USB-A port (e.g., on a computer or smartphone) via the included USB-C to USB-C and USB-C to USB-A cables. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

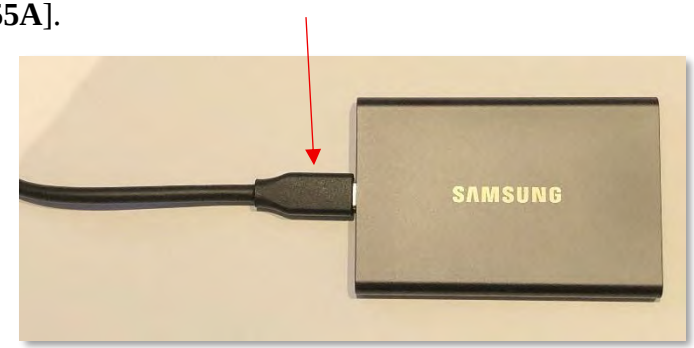
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	Indeed, the entire purpose of the Samsung Portable SSD T7 is to be connected to an external device via a USB-C cable connected to the socket structure to allow information to be transferred to and from the external device. *See also* Element [**48B**]
[**55B**] the socket structure with the duplex electrical connection of claim 34 and	This product includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**55C**] the plug.	The Samsung Portable SSD T7 is sold with, designed to be compatible with, and specifically intended to be connected to a USB-C plug for transferring information to and from an external device, as described above in connection with element [**55A**]. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
[**56A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

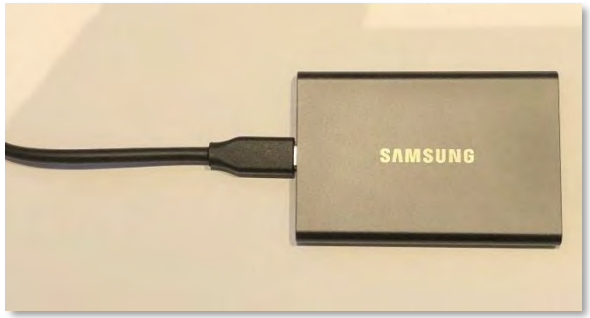
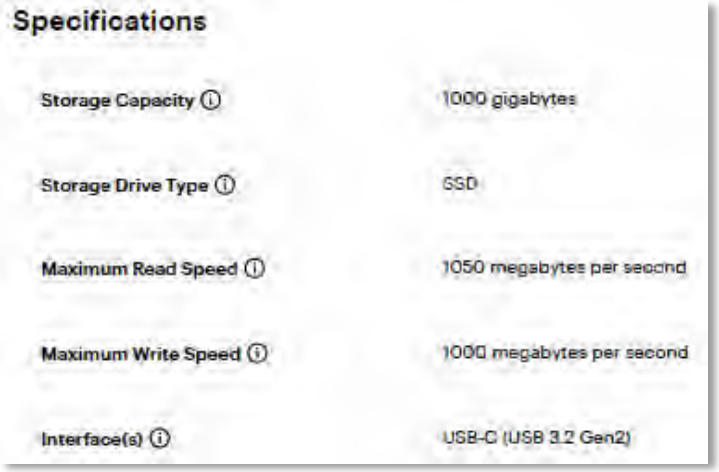
Claim 56 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**56B**] through [**56L**]. *See also* Element [**34A**].
[**56B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34B**].
[**56C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

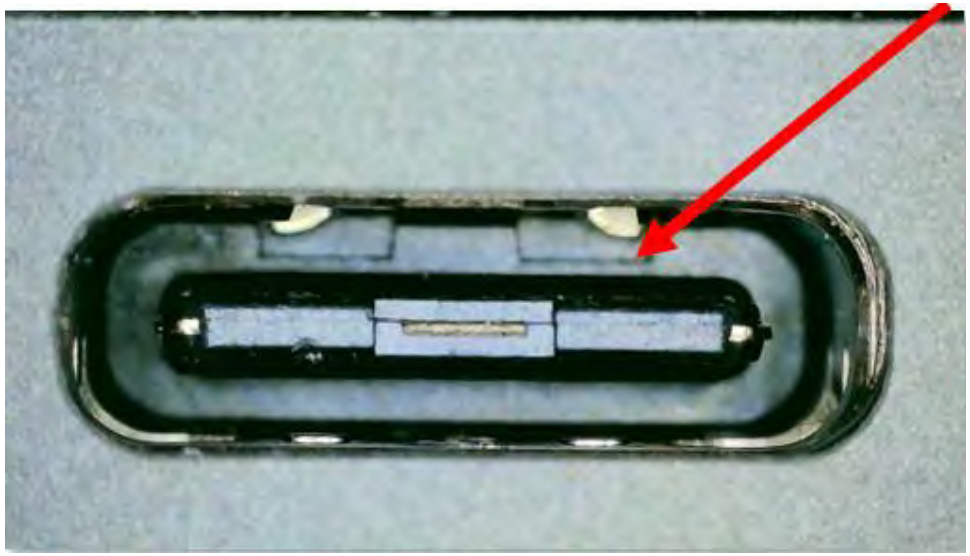
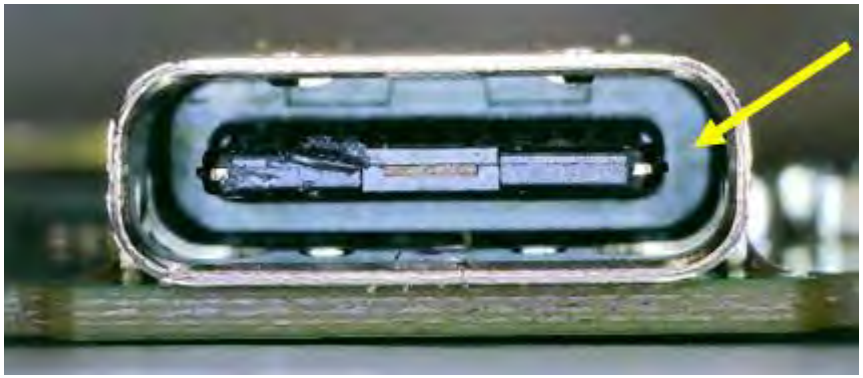
Claim 56 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

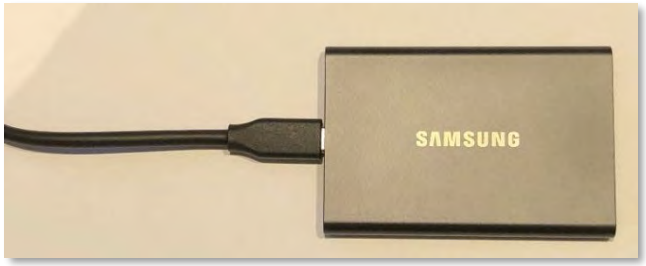
Claim 56 of the '307 Patent	Evidence of Infringement
	The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)  (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

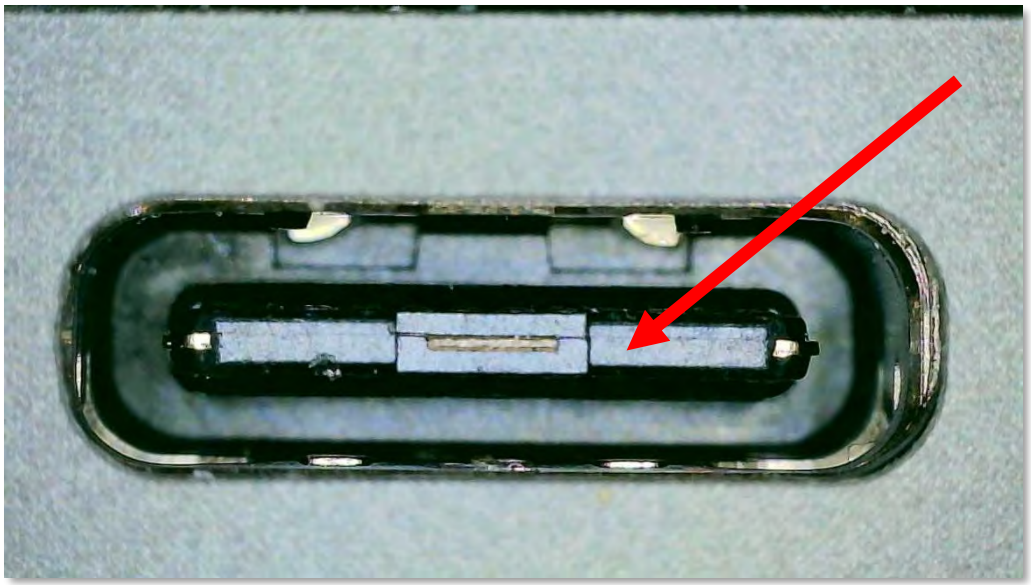
Claim 56 of the '307 Patent	Evidence of Infringement
[**56D**] a tongue, which has a top side with a first surface with grooves, and bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The Samsung T7 includes a tongue. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

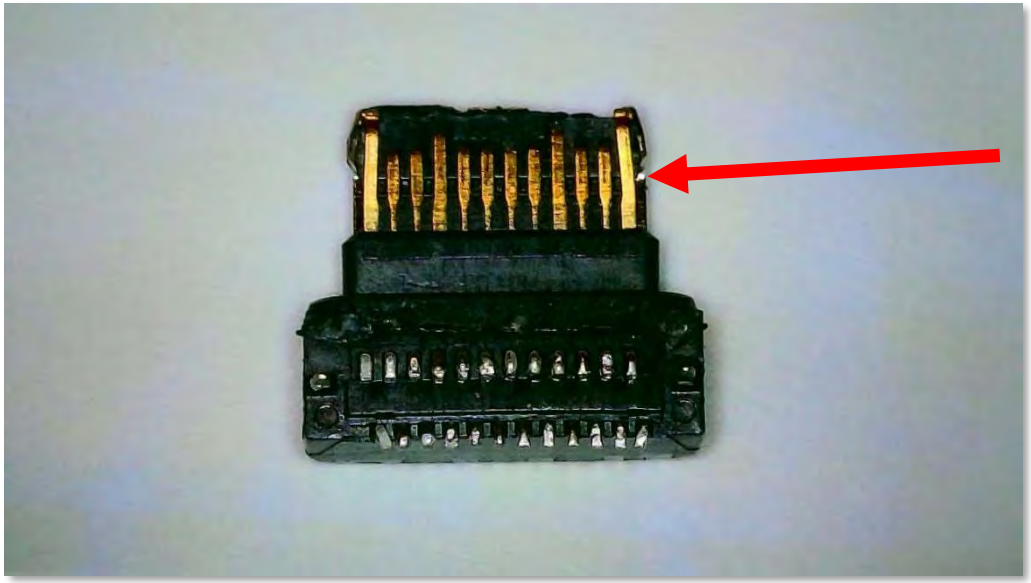
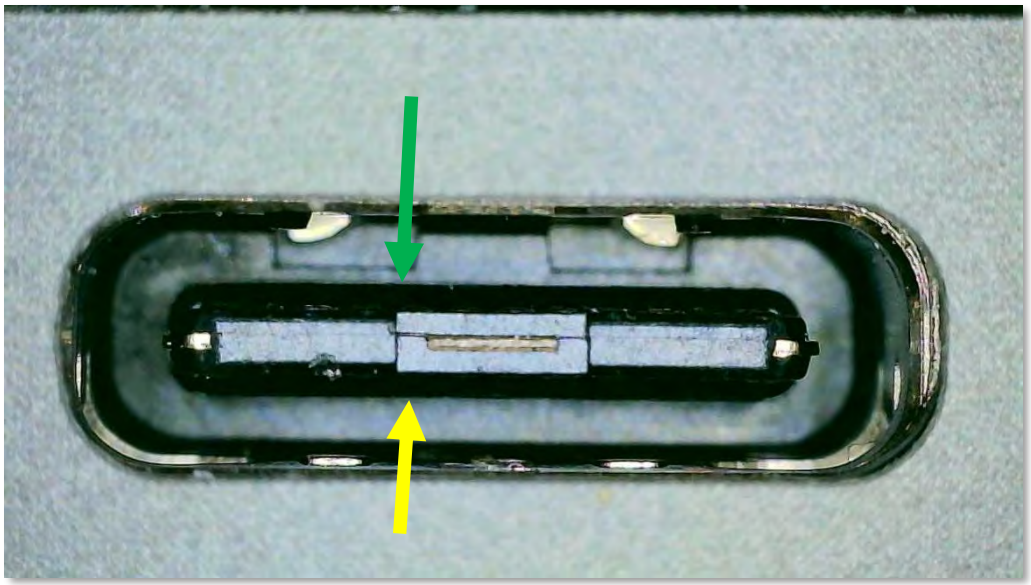
Claim 56 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

Samsung, EX1004, p. 80

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

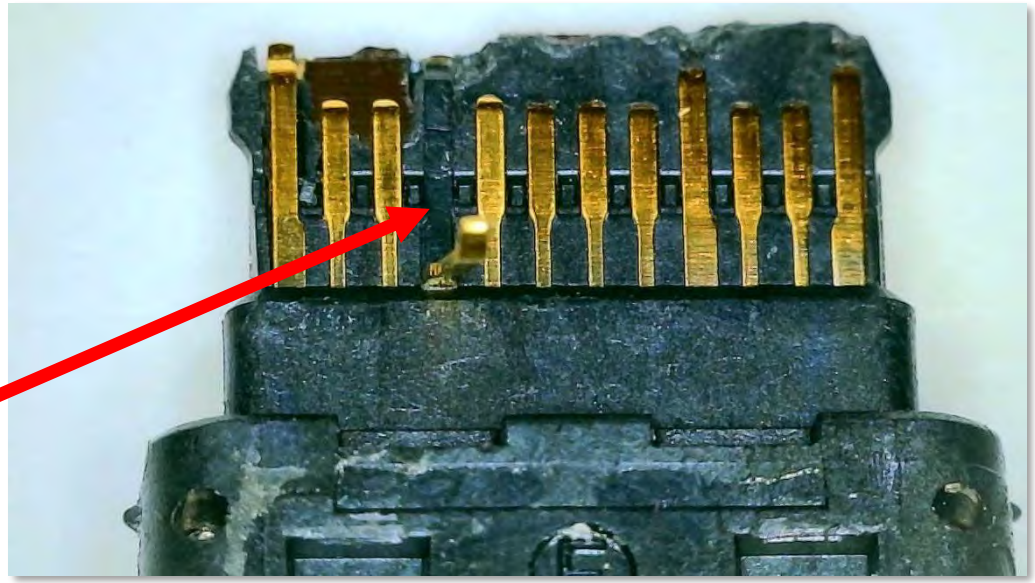
Claim 56 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponds to the side with the second surface as described in element [**34D**].
[**56E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

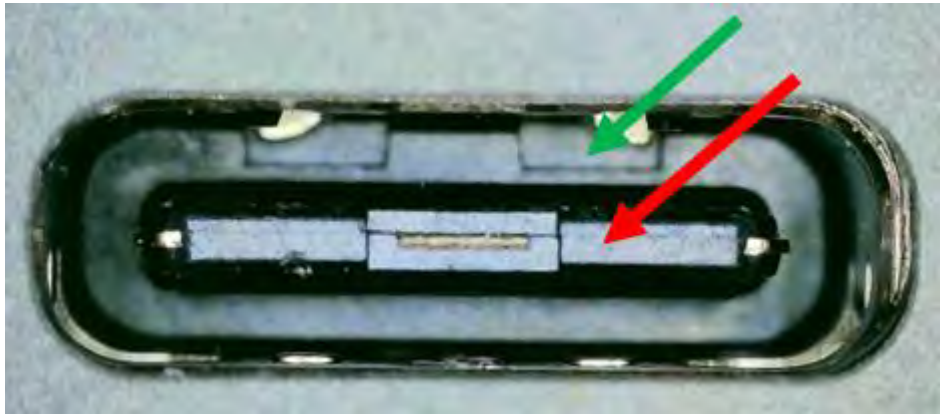
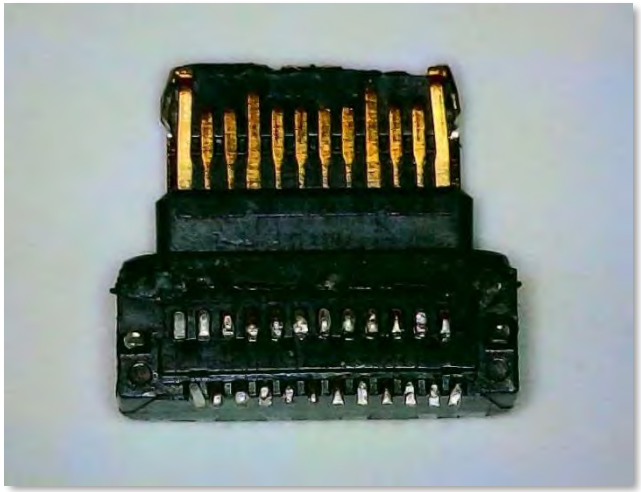
Claim 56 of the '307 Patent	Evidence of Infringement
oppositely inserted and positioned into the connection slot;	  The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

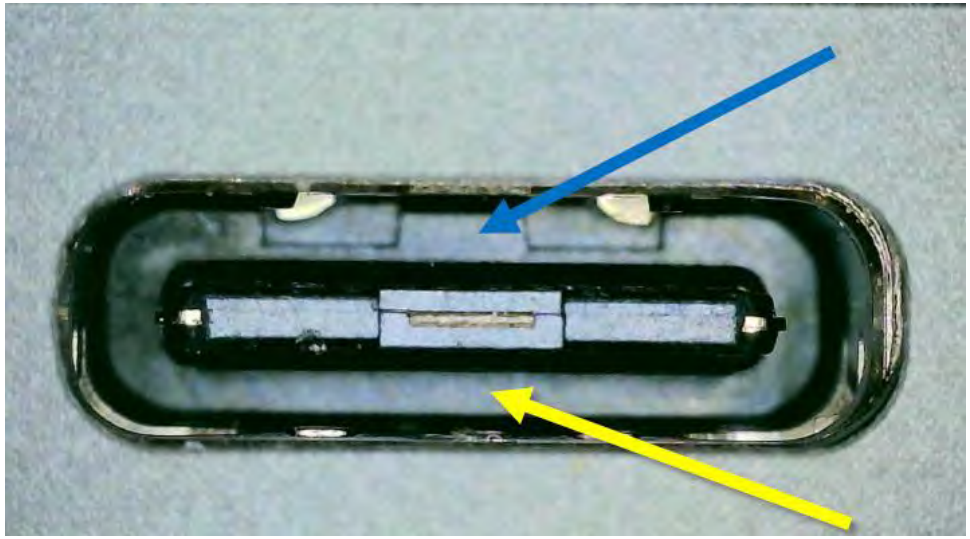
Claim 56 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

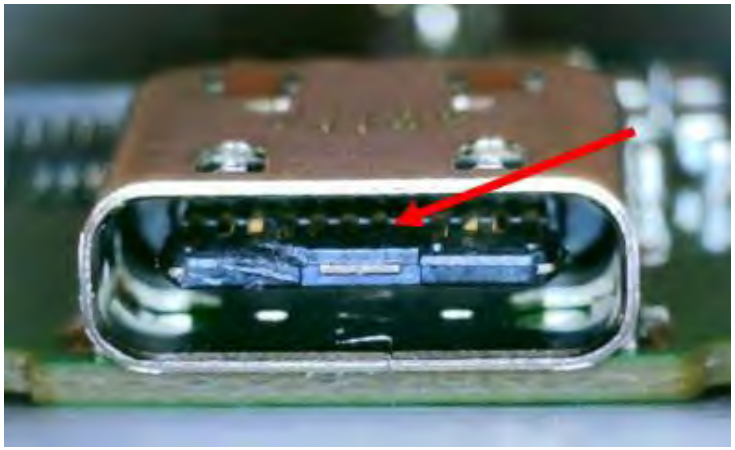
Claim 56 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**56F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

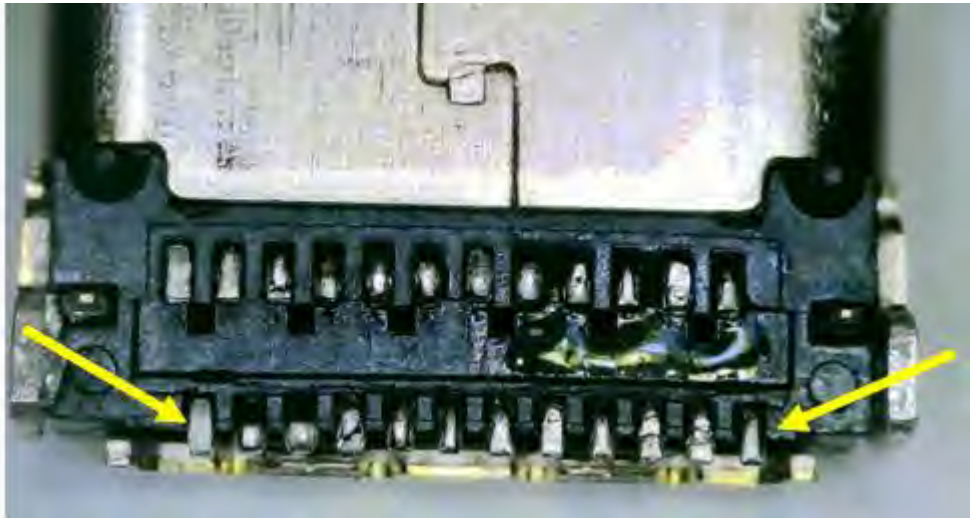
Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34F**].
[**56G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

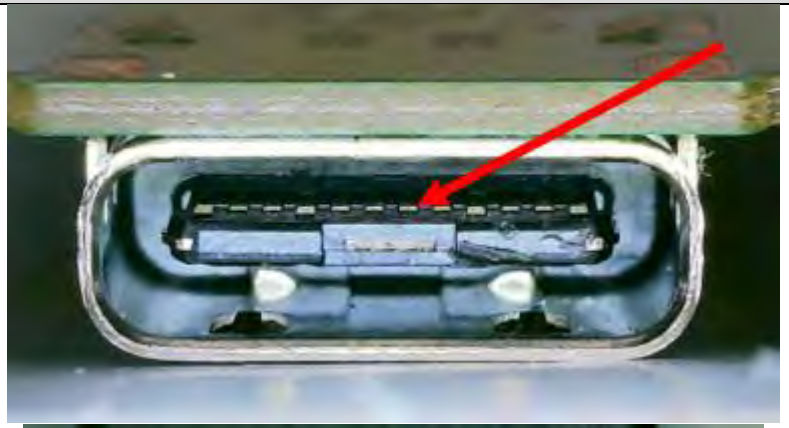
Claim 56 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34G**].
[**56H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**56G**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

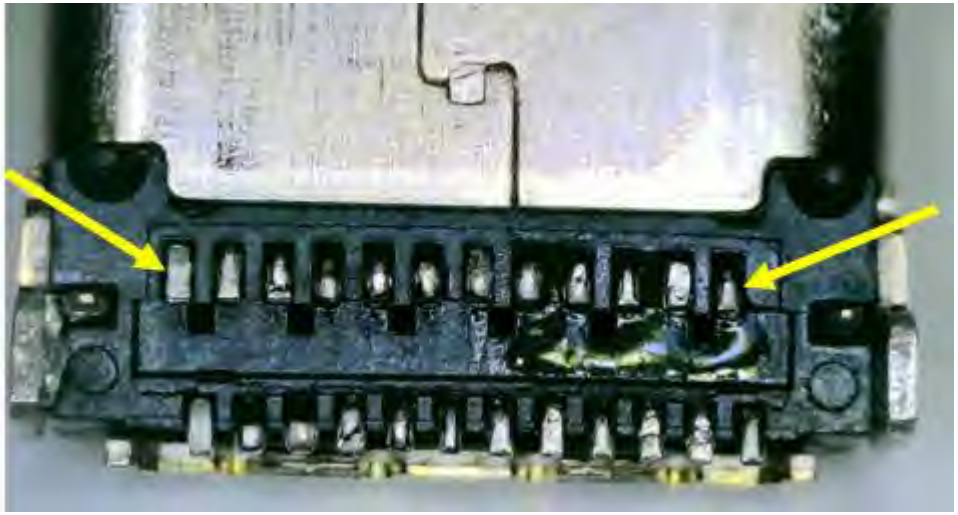
Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34H**].
[**56I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

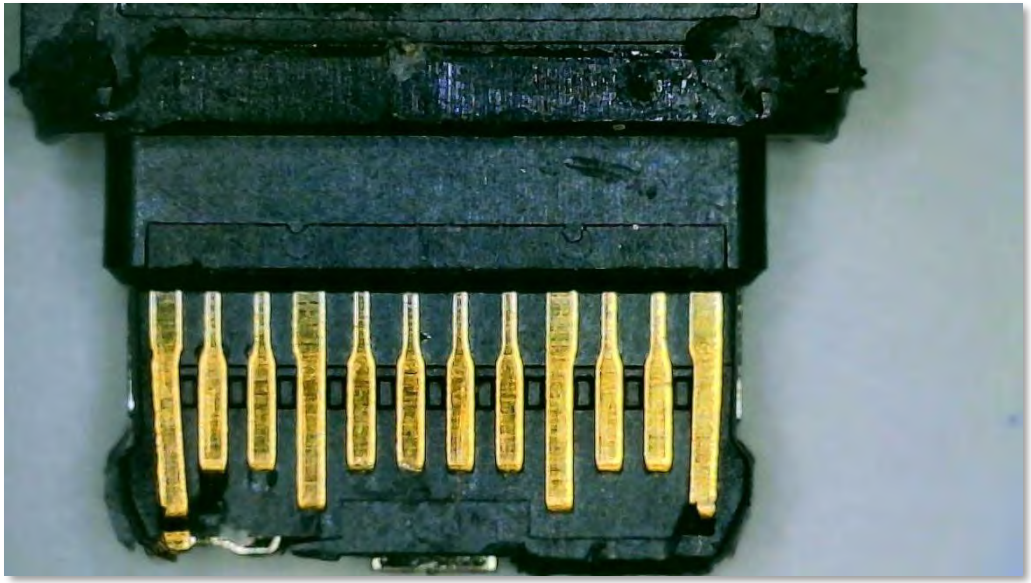
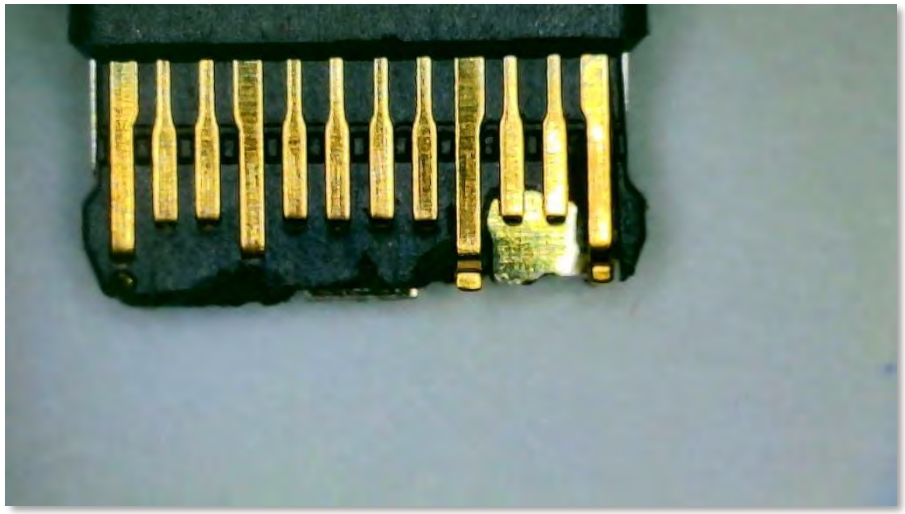
Claim 56 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**56J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

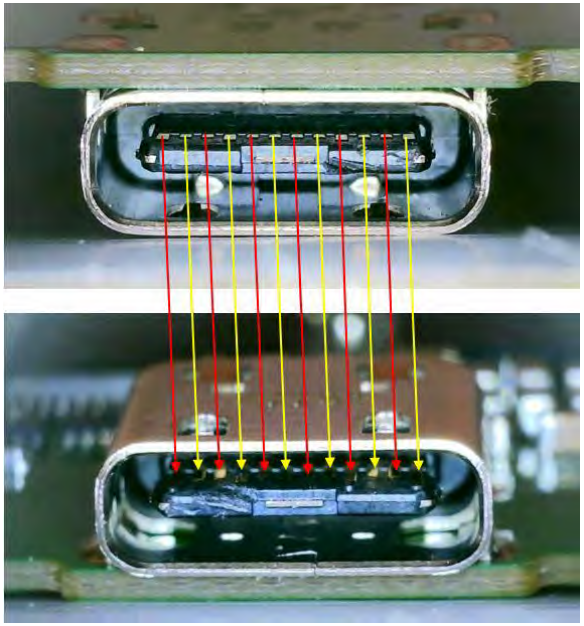
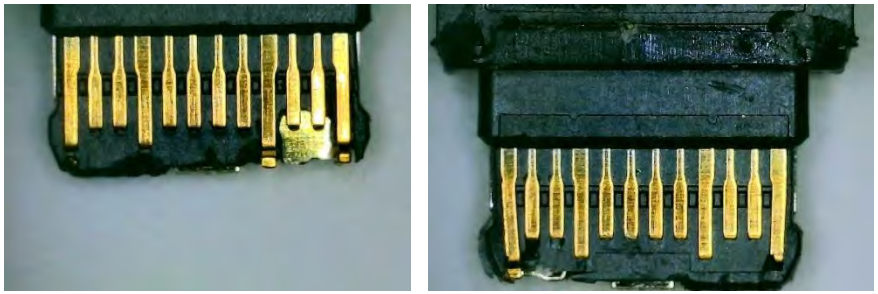
Claim 56 of the '307 Patent	Evidence of Infringement
	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.  In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

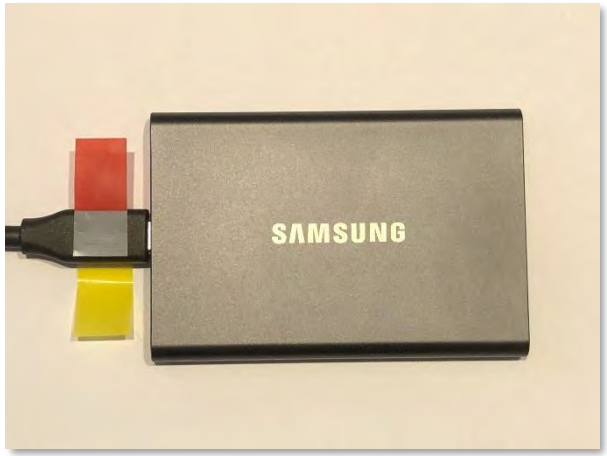
Claim 56 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**56K**] through [**56L**]. *See also* Element [**34J**].
[**56K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

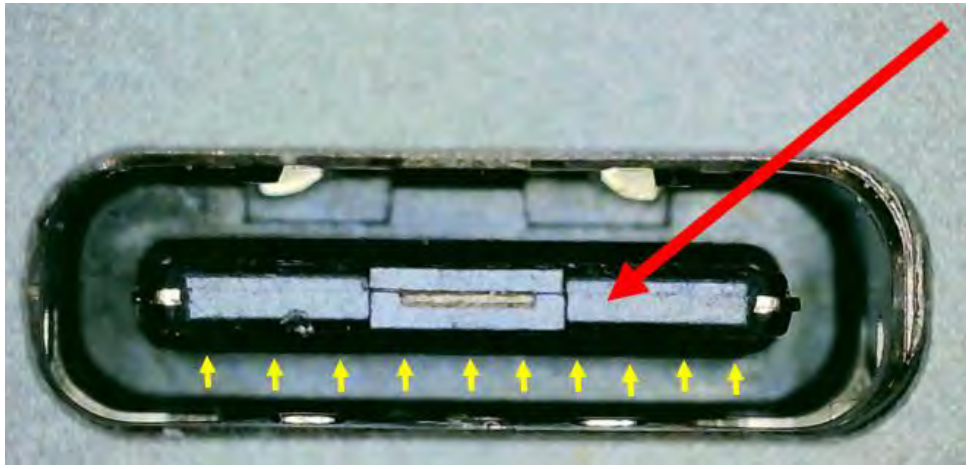
Claim 56 of the '307 Patent	Evidence of Infringement
	  (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**56L**] a second operational state	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.  *See also* Element [**34M**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

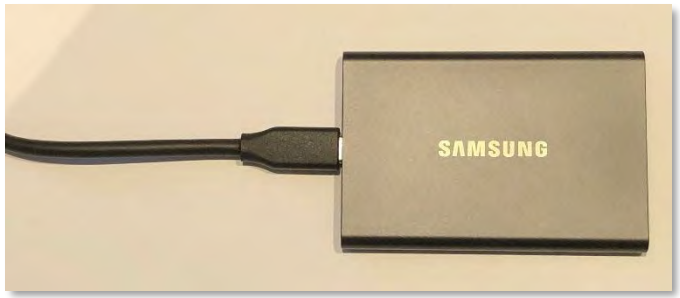
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
[**57A**] An electrical connection system comprising	The Samsung Portable SSD T7 and the included USB-C cable (which includes a USB-C plug) form an electrical connection system.  Samsung provides an installation guide showing how to connect the Samsung Portable SSD T7 to a USB-C or USB-A port (e.g., on a computer or smartphone) via the included USB-C to USB-C and USB-C to USB-A cables.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

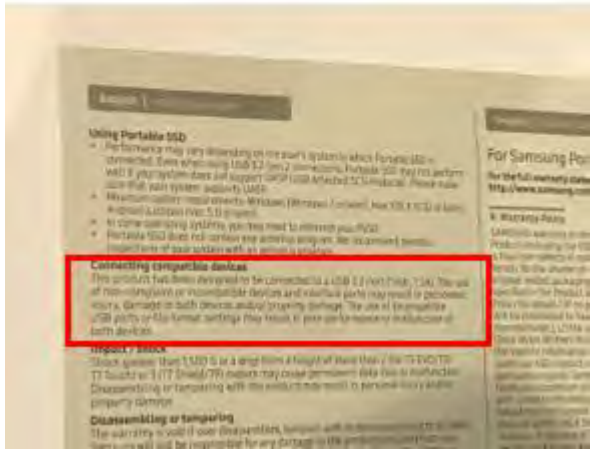
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	  Indeed, the entire purpose of the Samsung Portable SSD T7 is to be connected to an external device via a USB-C cable connected to the socket structure to allow information to be transferred to and from the external device. *See also* Elements [**48B**], [**55A**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

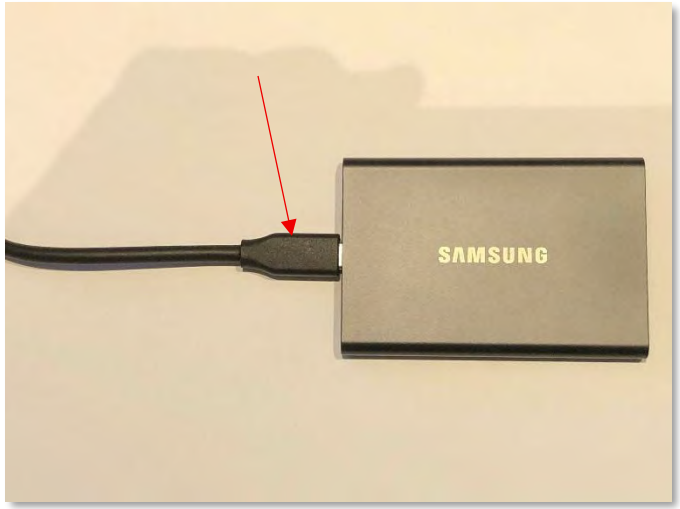
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
[**57B**] the socket structure with the duplex electrical connection of claim 56 and	This product includes a socket structure as described in claim 56, as described above in connection with elements [**56A**] through [**56L**].
[**57C**] the plug, wherein the socket structure is operatively connected to the plug, and	The Samsung Portable SSD T7 is sold with, designed to be compatible with, and specifically intended to be connected to a USB-C plug for transferring information to and from an external device.  When a plug is inserted into the socket structure, the socket structure is operatively connected to the plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

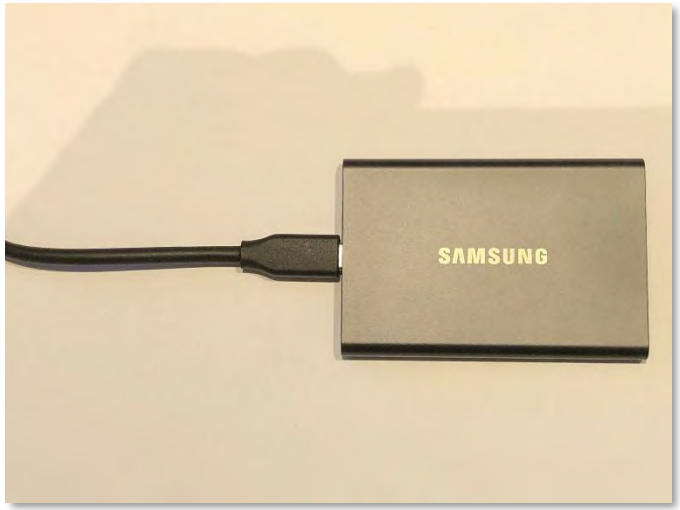
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 *See also* Elements [**48B**], [**55C**]
[**57D**] wherein the socket structure is operative to simultaneously electrically connect via the first and second contacts.	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

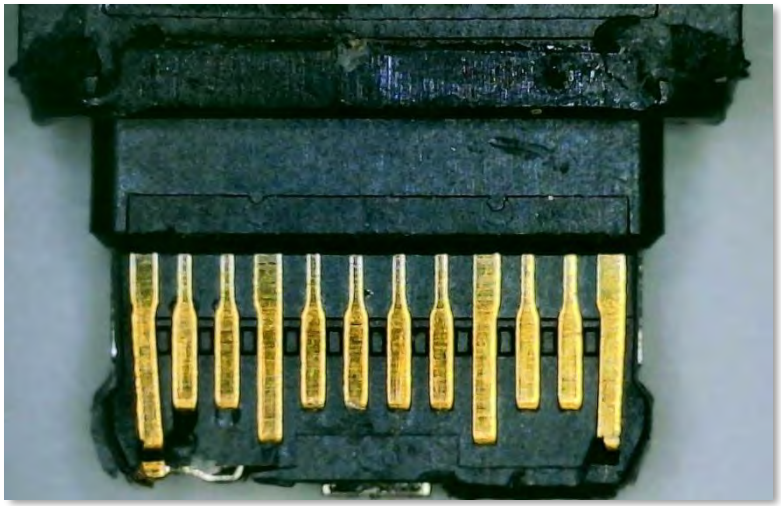
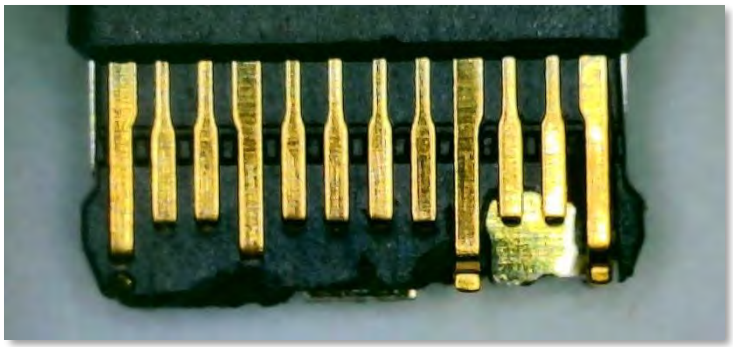
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	  The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**58A**] The socket structure of claim 56,	This product includes a socket structure as described in claim 56, as described above in connection with elements [**56A**] through [**56L**].
[**58B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base of the Samsung T7 are integrally formed.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**41B**].
[**59A**] The socket structure of claim 58,	This product includes a socket structure as described in claim 58, as described above in connection with elements [**58A**] through [**58B**].
[**59B**] further comprising a metal housing at least partially covering the plastic base.	The Samsung T7 includes a metal housing that covers the plastic base at least in part.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

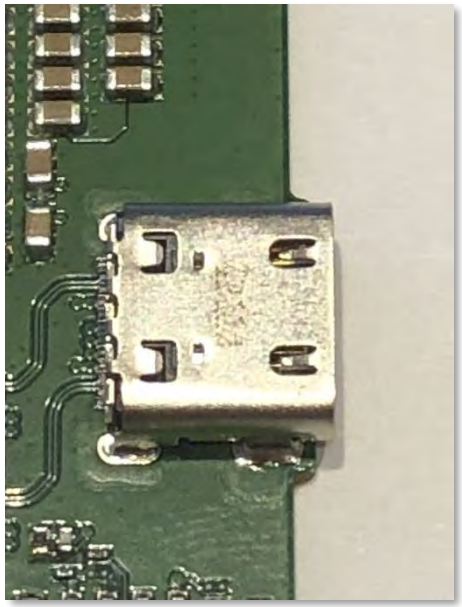
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 (Image of exterior of the USB port on printed circuit board in Samsung T7.) *See also* Element [**39B**].
[**60A**] The socket structure of claim 59,	This product includes a socket structure as described in claim 59, as described above in connection with elements [**59A**] through [**59B**].
[**60B**] wherein at least two of the first contacts are not in electrical communication with one another, and at least two of the	The first and second contacts of the Samsung T7 are not in electrical communication with the others of the first and second contacts. For example, each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

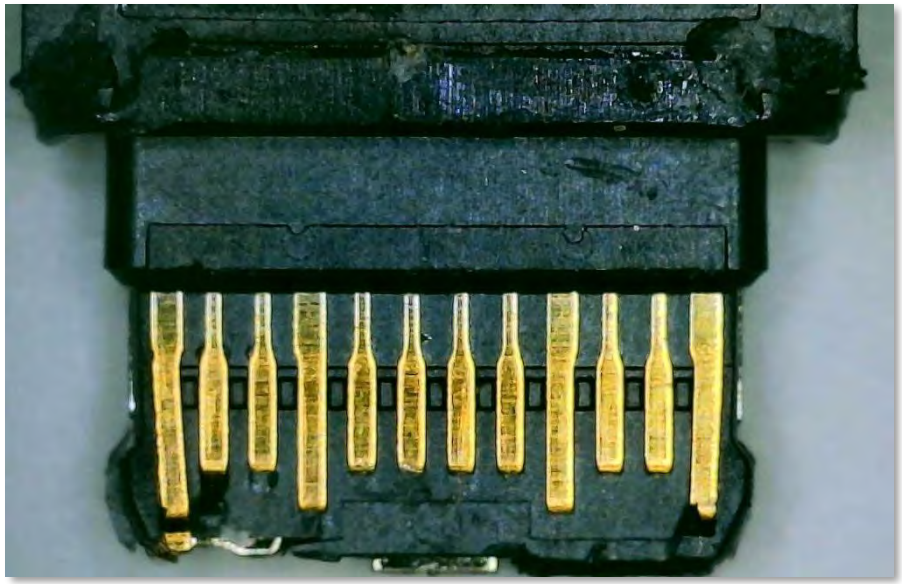
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
second contacts are not in electrical communication with one another.	

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) *See generally* elements [**34F**] through [**34H**]. Moreover, the Samsung T7 socket structure is compatible with the included USB 3.2 USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) In accordance with the USB-C standard, each contact and corresponding output pin is associated with a separate electrical signal. The Samsung T7 would not function in accordance with the USB-C standard if, for example,

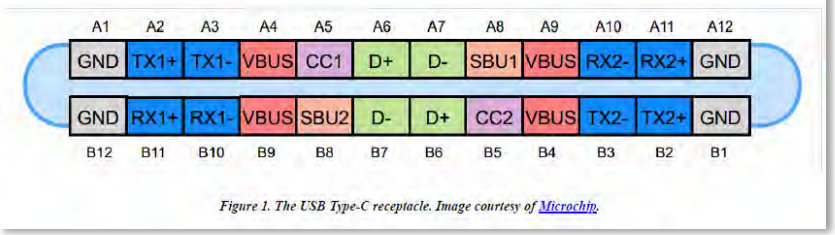
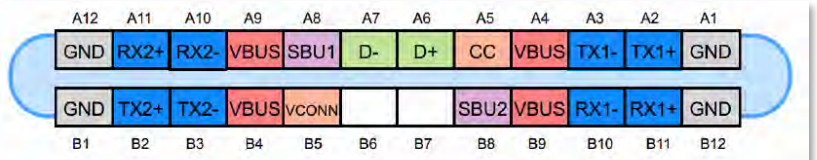
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	the TX pins (A2, A3, B2, and B3) were in electrical communication with, for example, the VBUS connections (A4, A9, B4, B9), or if the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12). **The USB Type-C Receptacle/Plug Pins** The USB Type-C connector has 24 pins. Figures 1 and 2, respectively, show the pins for the USB Type-C receptacle and plug.  *Figure 1. The USB Type-C receptacle. Image courtesy of Microchip.*  *Figure 2. The USB Type-C plug. Image courtesy of Microchip.* *See* https://www.allaboutcircuits.com/technical-articles/introduction-to-usb-type-c-which-pins-power-delivery-data-transfer/ (accessed April 10, 2025). *See also* Element [**44B**].
[**61A**] The socket structure of claim 60,	This product includes a socket structure as described in claim 60, as described above in connection with elements [**60A**] through [**60B**].
[**61B**] wherein the grooves in the first	The grooves in the first and second surfaces include a portion of one of the first and second contacts, respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

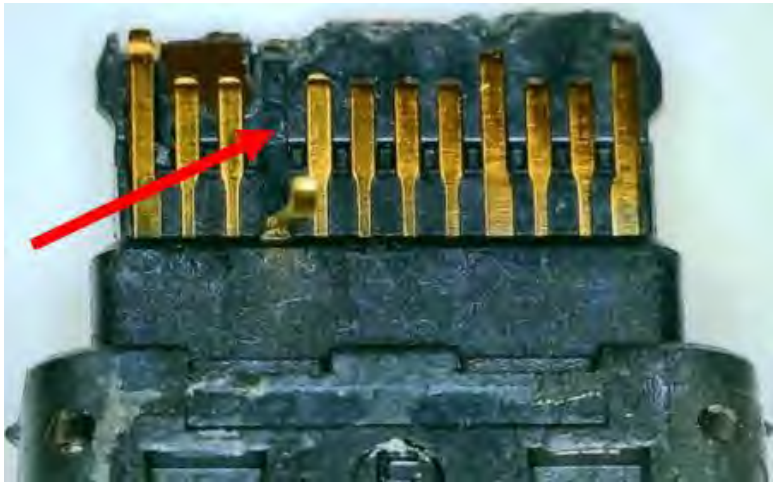
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
surface of the tongue each include a portion of one of the first contacts, and the grooves in the second surface of the tongue each include a portion of one of the second contacts.	 *See also* Element [**34D**].
[**62A**] The socket structure of claim 61,	This product includes a socket structure as described in claim 61, as described above in connection with elements [**61A**] through [**61B**].
[**62B**] wherein the at least one row of first contacts includes at least five contacts, and the at least one row of second contacts includes at least five contacts.	The Samsung T7 includes a row of first contacts (shown in bottom image) with at least five contacts, and a row of second contacts (top image) with at least five contacts.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

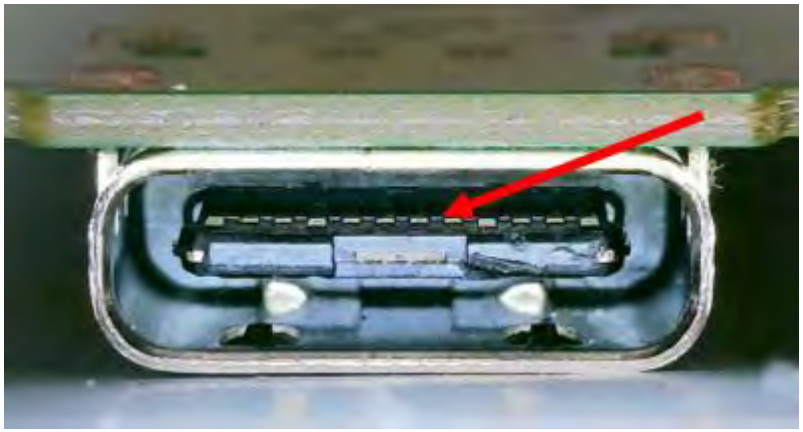
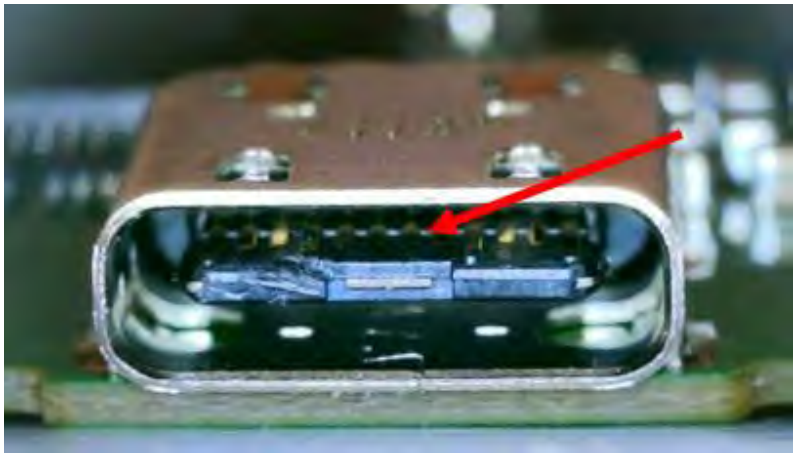
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 
[**63A**] The socket structure of claim 62,	This product includes a socket structure as described in claim 62, as described above in connection with elements [**62A**] through [**62B**].
[**63B**] wherein the tongue has	The Samsung T7 includes a tongue with chamfered corners on the right and left sides of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

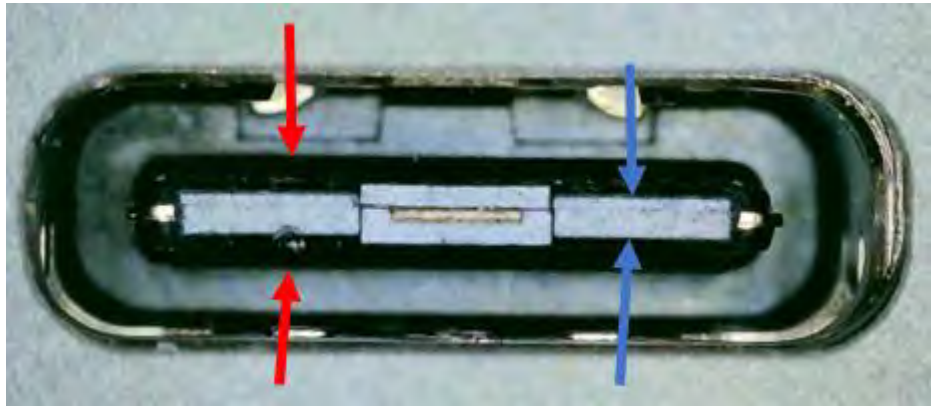
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
chamfered corners on two sides of the tongue.	
[**64A**] The socket structure of claim 63,	This product includes a socket structure as described in claim 63, as described above in connection with elements [**63A**] through [**63B**].
[**64B**] wherein a tip of the tongue is tapered.	The Samsung T7 includes a tapered tongue. In particular, the tongue tapers from a wider width (indicated by the red arrows) to a narrower width (indicated by the blue arrows) at the face of the tongue. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
[**65A**] The socket structure of claim 64,	This product includes a socket structure as described in claim 64, as described above in connection with elements [**64A**] through [**64B**].
[**65B**] wherein a thickness of the tongue is less than third of a height of the connection slot.	The included USB-C cable is advertised as compliant with the USB-C standard and, on information and belief, the socket structure of the Samsung T7 is compliant with the USB-C standard so as to be able to connect with the USB-C cable plug. *See also* Element [**34A**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

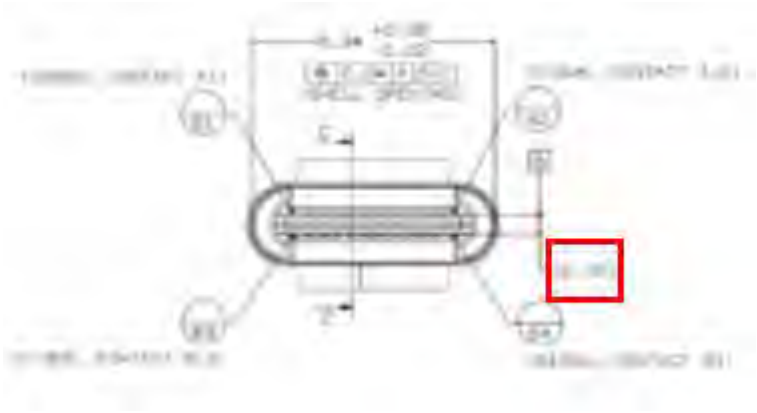
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	The USB-C standard specifies that the width of the tongue is 0.7 mm and that the width of the receptacle is at least 2.5 mm, meaning that the thickness of the tongue is less than a third of the thickness of the connection slot (0.7/2.5=0.28<0.33).  Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

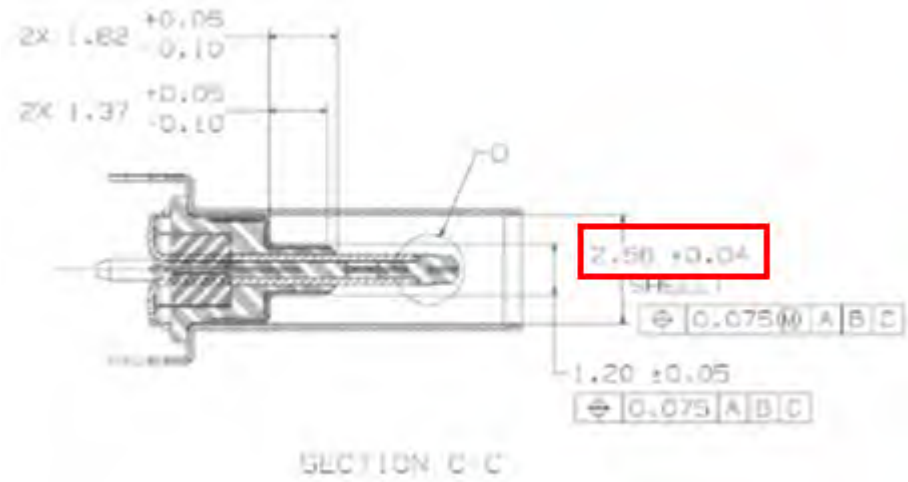
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 *Id.*  *Id.*

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	Furthermore, testing confirms that the thickness of the tongue is less than a third of a height of the connection slot. *See also* Element [**36B**].
[**66A**] The socket structure of claim 65,	This product includes a socket structure as described in claim 65, as described above in connection with elements [**65A**] through [**65B**].
[**66B**] wherein the socket structure is a universal serial bus socket structure.	The Samsung Portable SSD T7 includes a socket structure that is a universal serial bus, or USB, socket structure.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

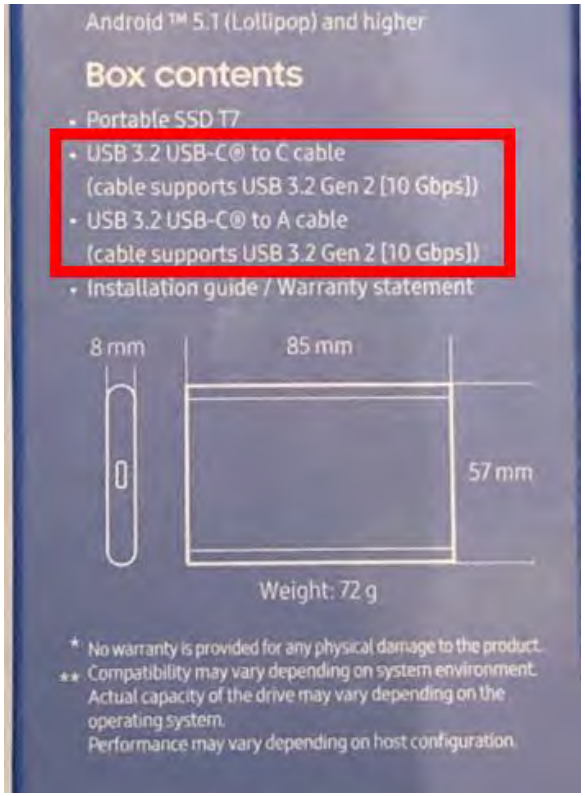
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung Portable SSD T7.) *See also* Elements [**34A**]. [**40B**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
[**98A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

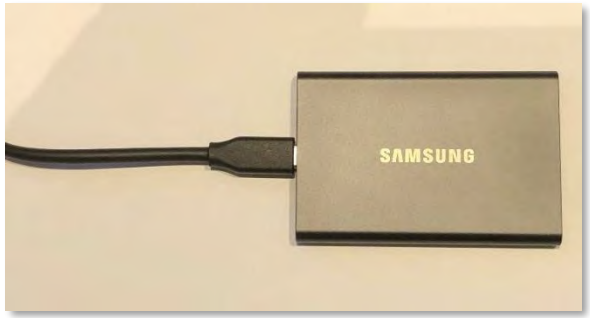
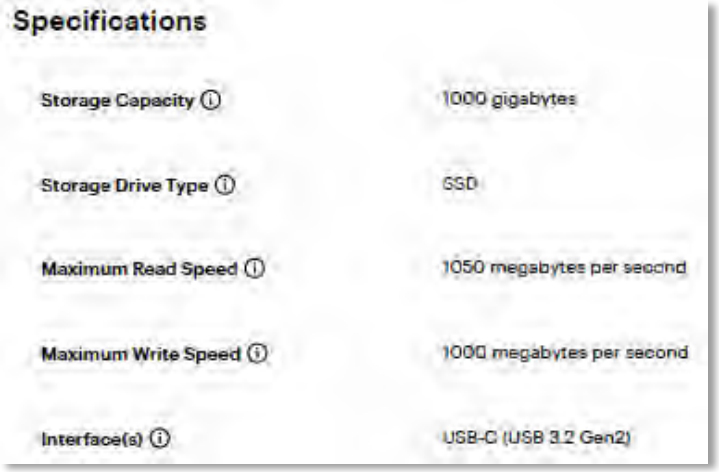
Claim 98 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**98B**] through [**98N**]. *See also* Element [**34A**].
[**98B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

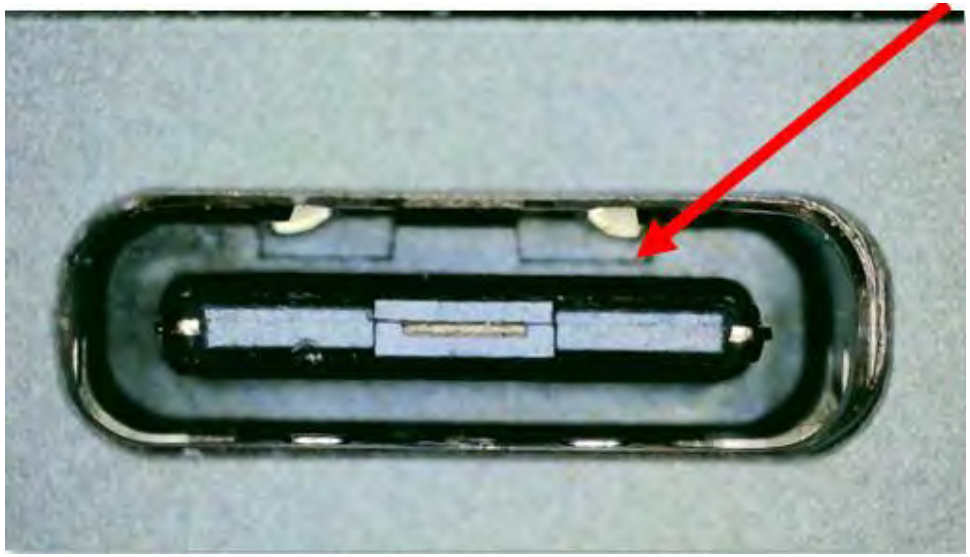
Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34B**].
[**98C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

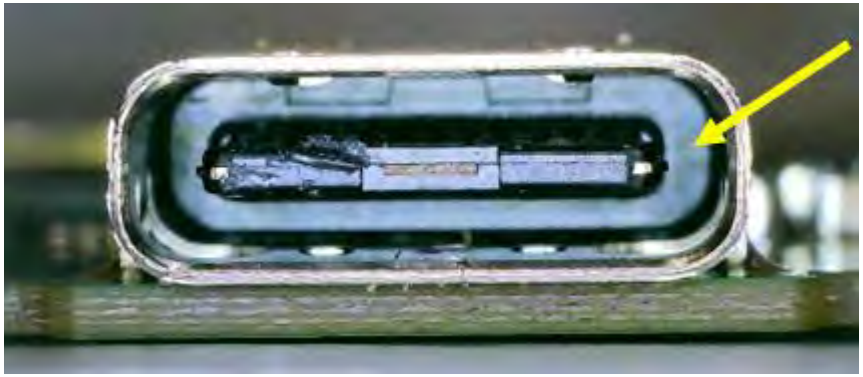
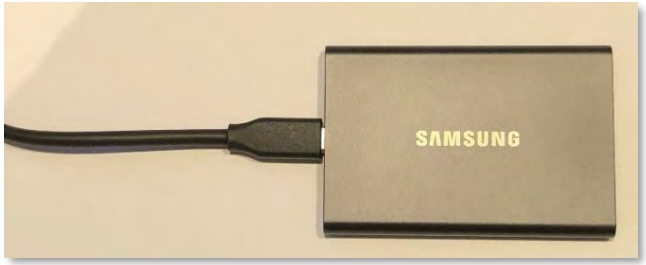
Claim 98 of the '307 Patent	Evidence of Infringement
	The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow.  The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)

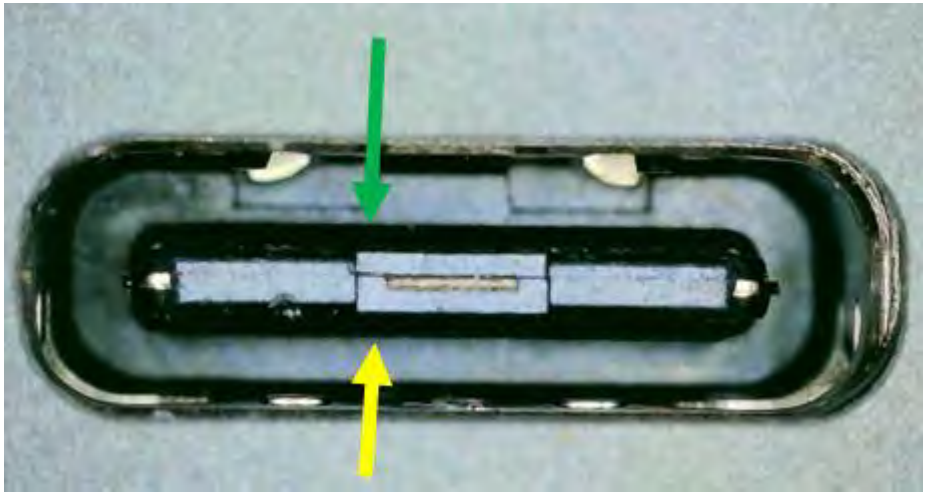
EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**98D**] a tongue, which has a first surface with grooves, and a second surface with grooves, the second surface disposed opposite the first surface,	The Samsung T7 includes a tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	  The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

Samsung, EX1004, p. 127

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

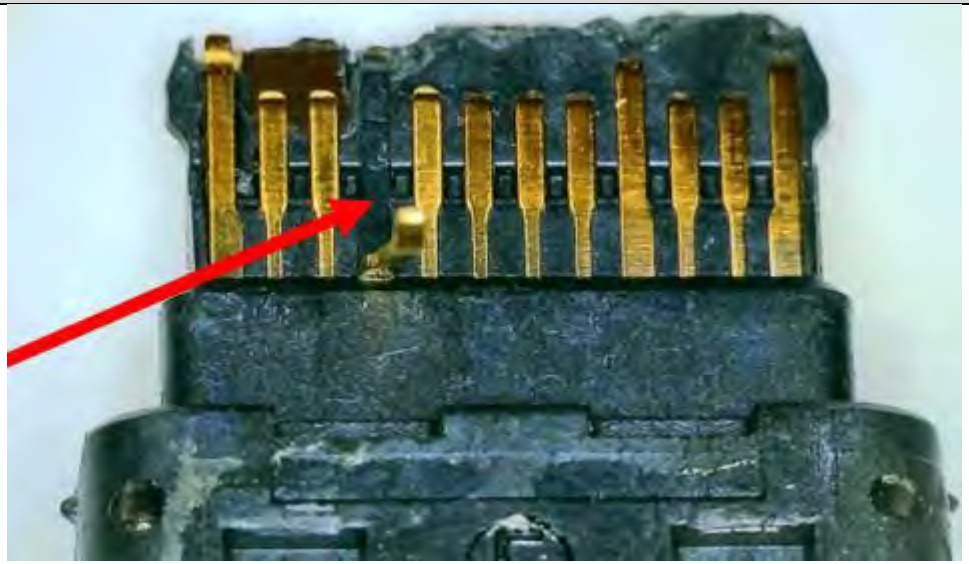
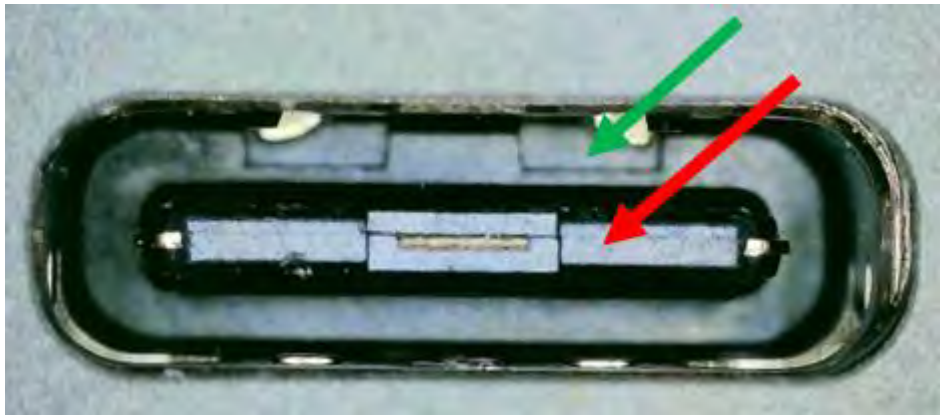
Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**].
[**98E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot based on an	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

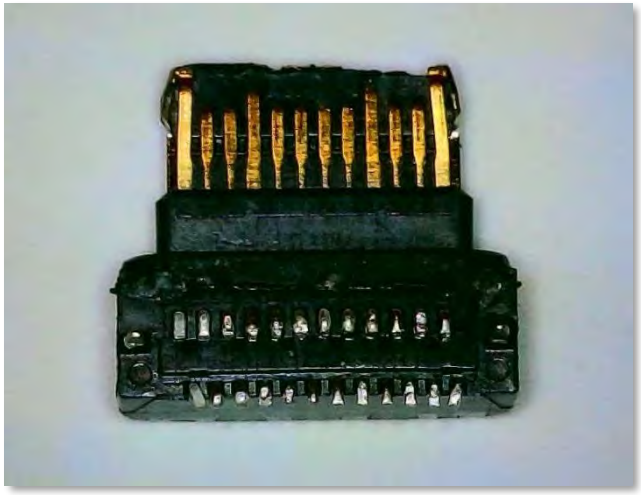
Claim 98 of the '307 Patent	Evidence of Infringement
operational state when the socket structure is connected to the plug;	 The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

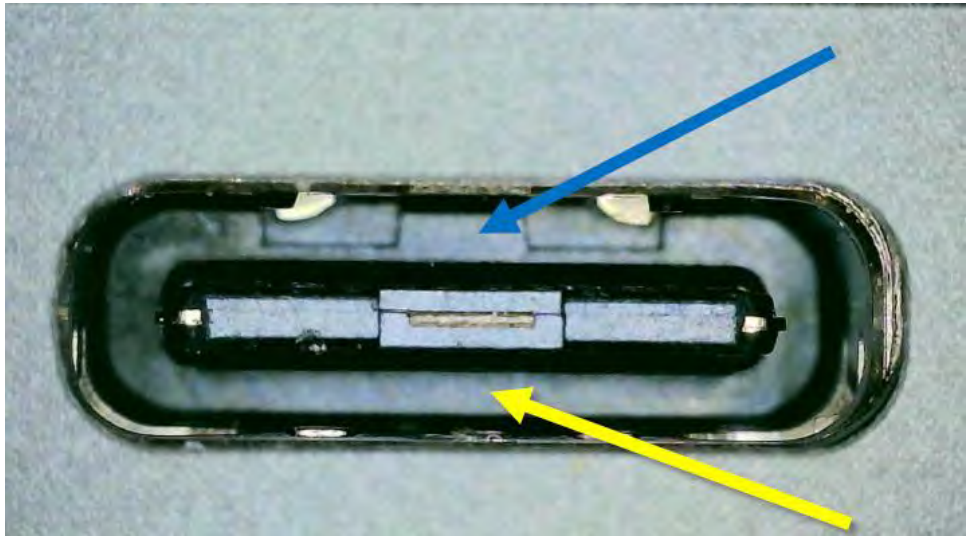
Claim 98 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**98F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

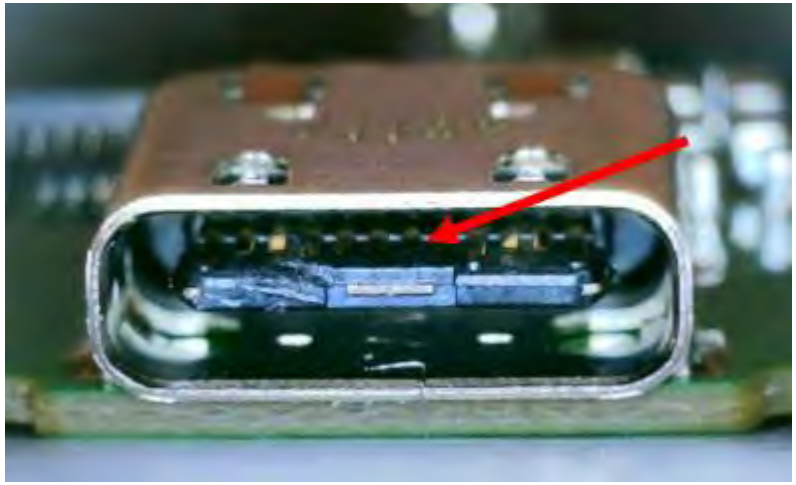
Claim 98 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

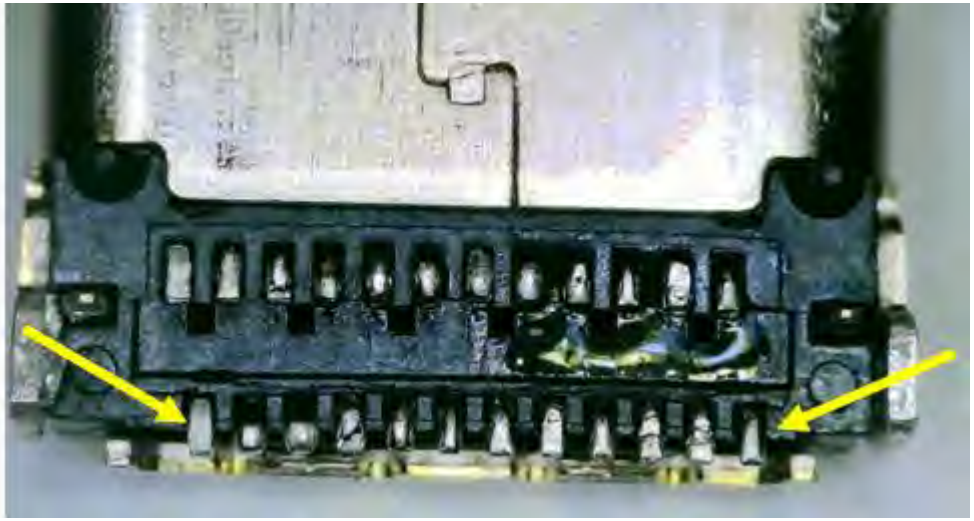
Claim 98 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).  (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34F**].
[**98G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

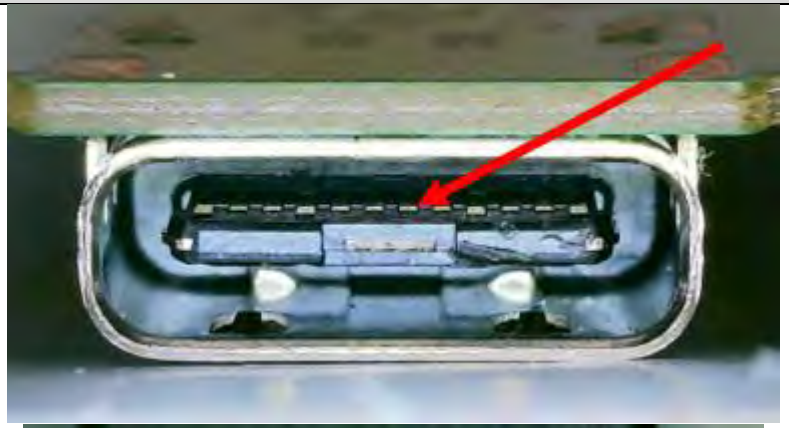
Claim 98 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34G**].
[**98H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**98G**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

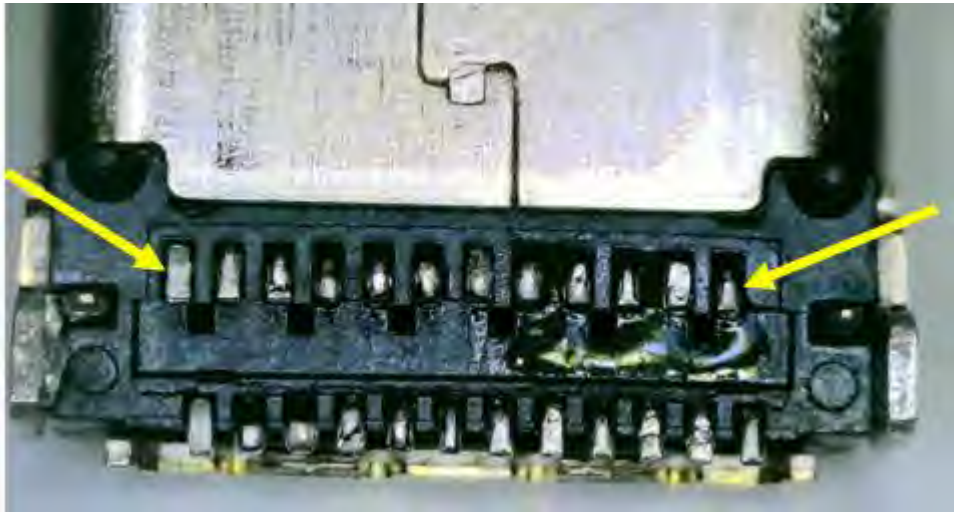
Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34H**].
[**98I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

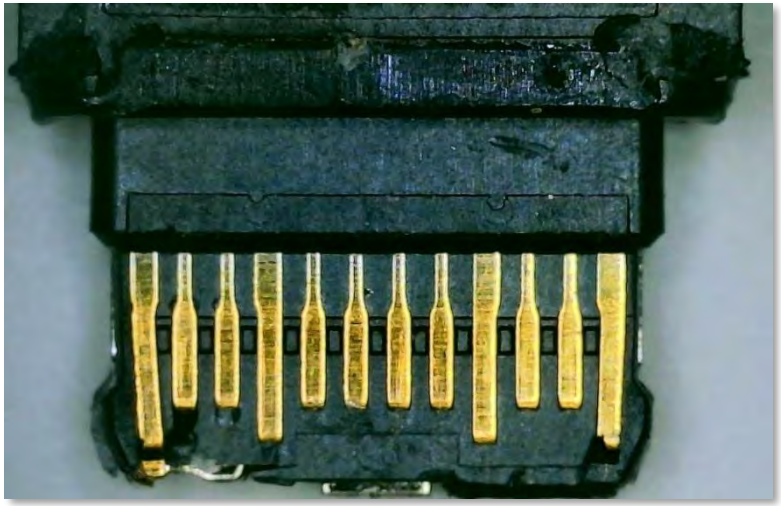
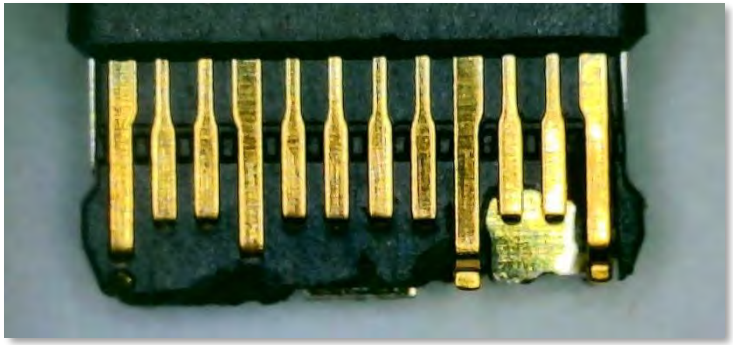
Claim 98 of the '307 Patent	Evidence of Infringement
	  The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**98J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

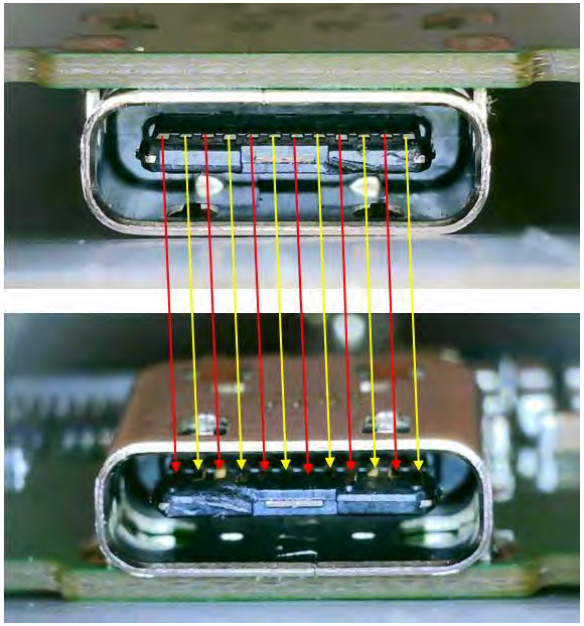
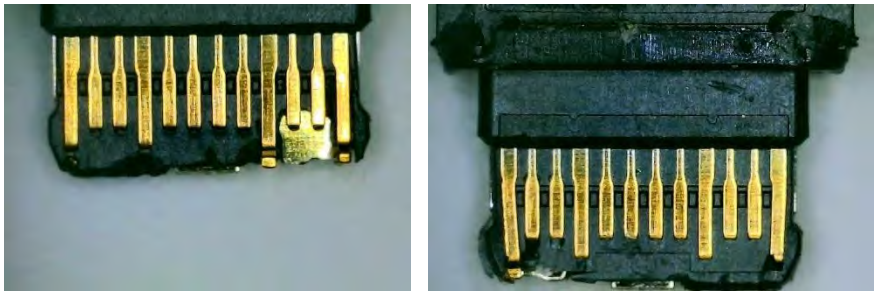
Claim 98 of the '307 Patent	Evidence of Infringement
	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.  In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement

Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**98K**] through [**98N**]. *See also* Element [**34J**].
[**98K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed at a central location within the connection slot,	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

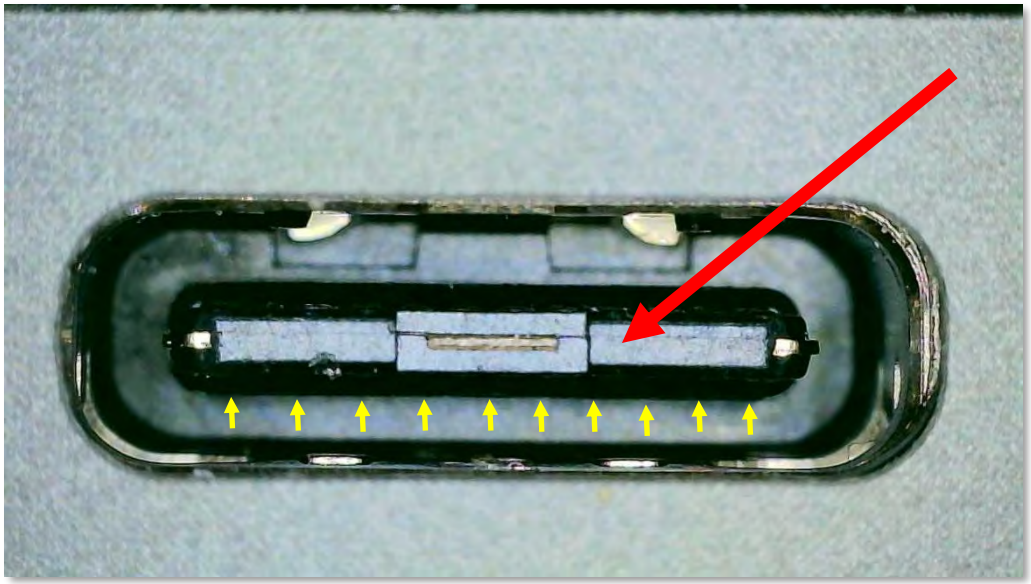
Claim 98 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals) The tongue is disposed at a central location within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

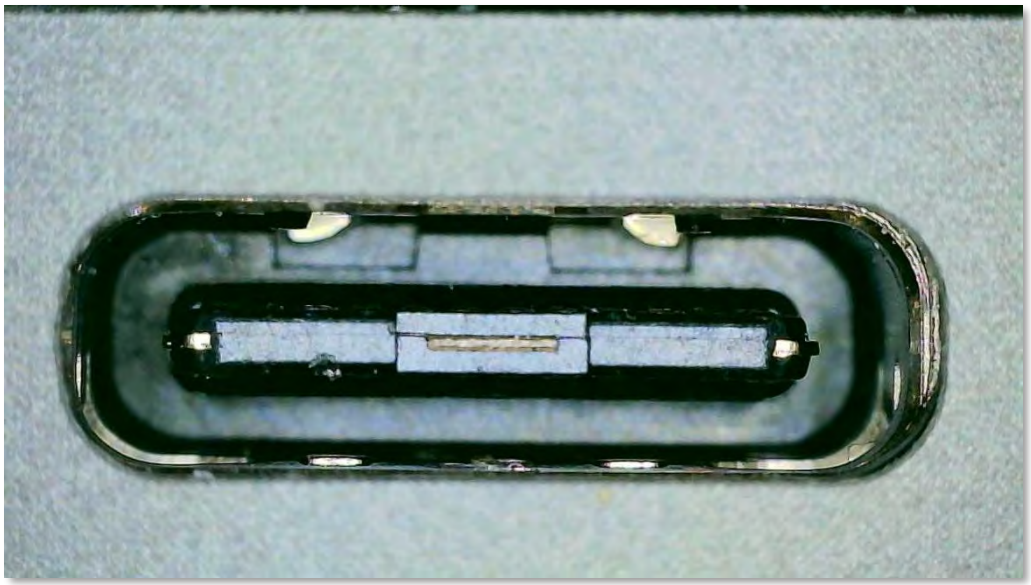
Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**]
[**98L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung T7 is configured for a first operational state as described above in connection with element [**98K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

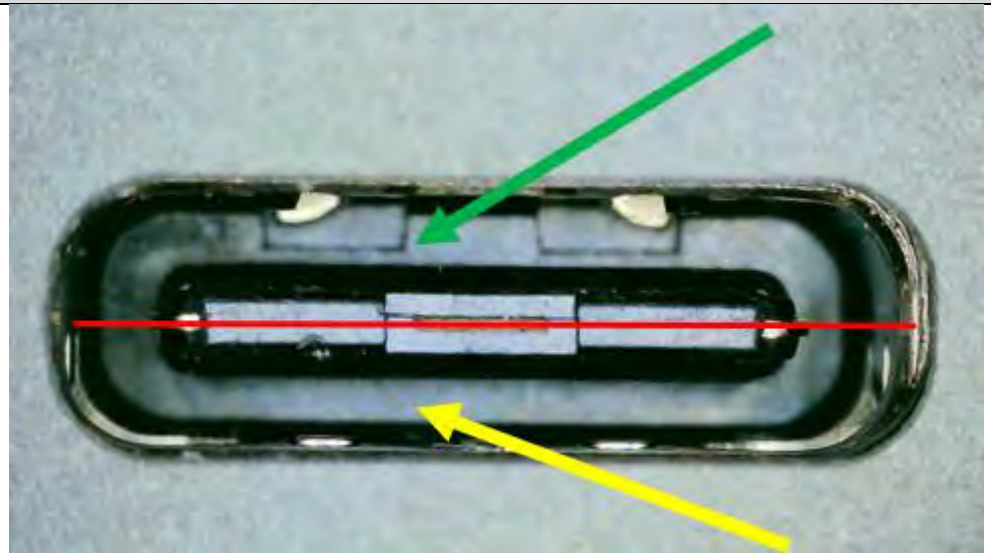
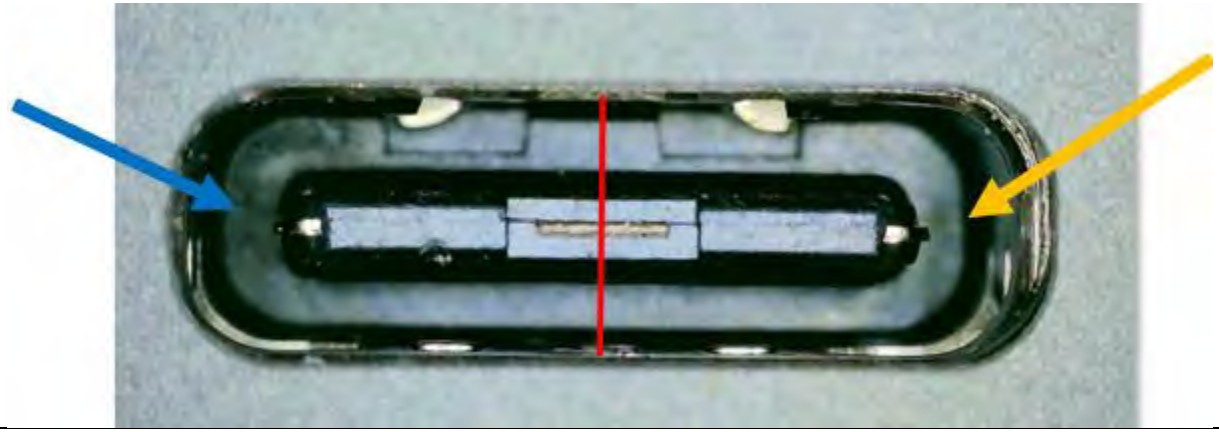
Claim 98 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by red lines, and are indicated by blue and orange arrows respectively, in the image below. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	See also Element [**34L**].
[**98M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed at a central location within the connection slot,	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

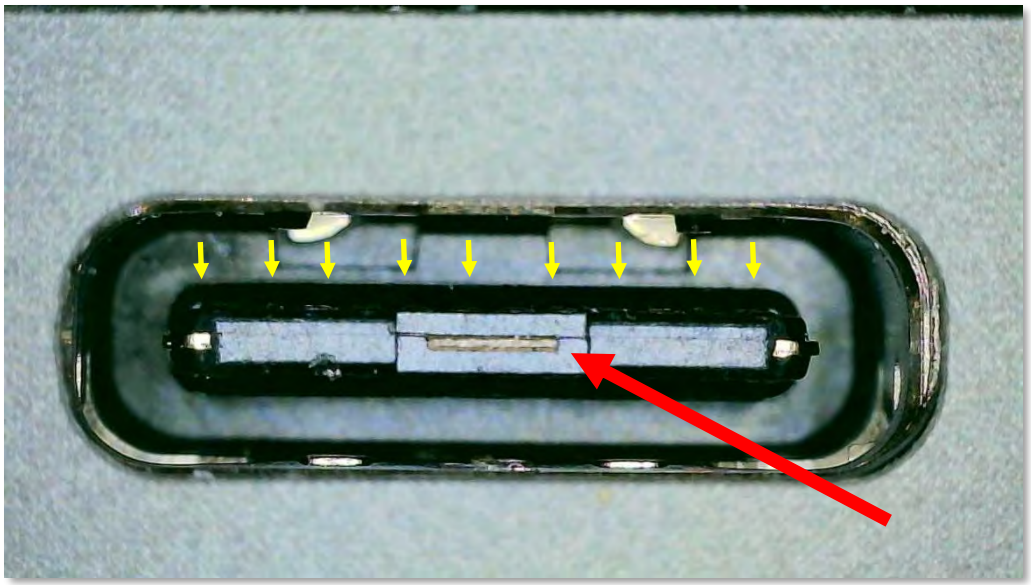
Claim 98 of the '307 Patent	Evidence of Infringement
	 The tongue is disposed at a central location within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

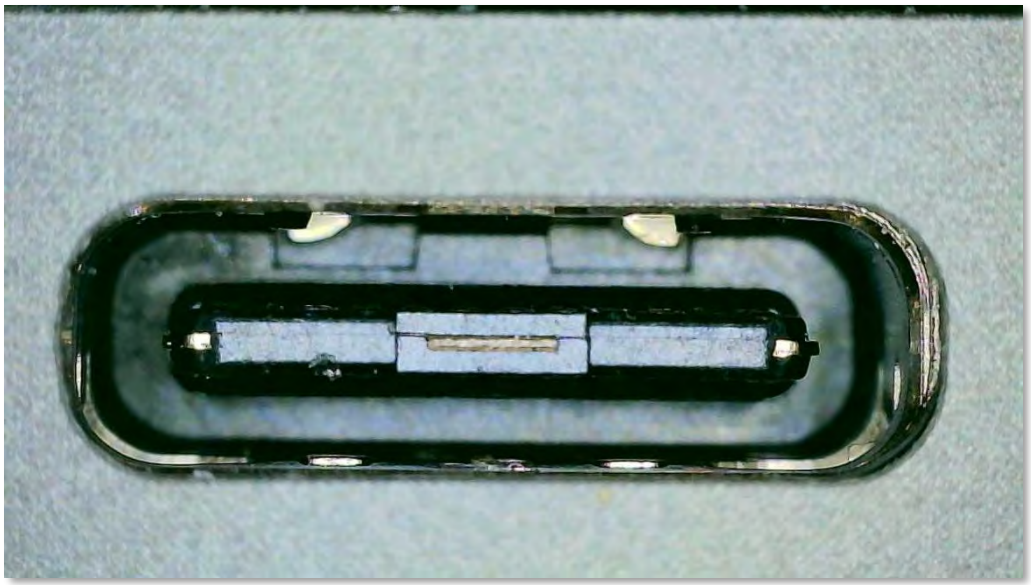
Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**]
[**98N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**98L**]. *See also* Element [**34N**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

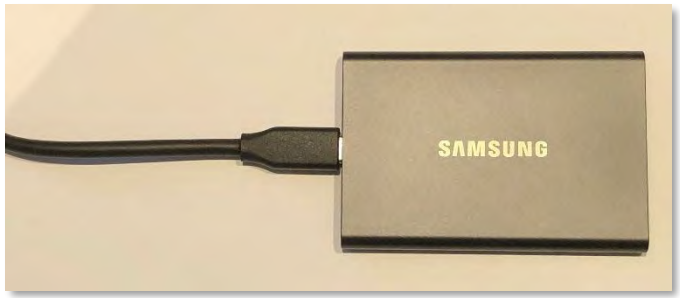
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
[**99A**] An electrical connection system comprising	The Samsung Portable SSD T7 and the included USB-C cable (which includes a USB-C plug) form an electrical connection system.  Samsung provides an installation guide showing how to connect the Samsung Portable SSD T7 to a USB-C or USB-A port (e.g., on a computer or smartphone) via the included USB-C to USB-C and USB-C to USB-A cables.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

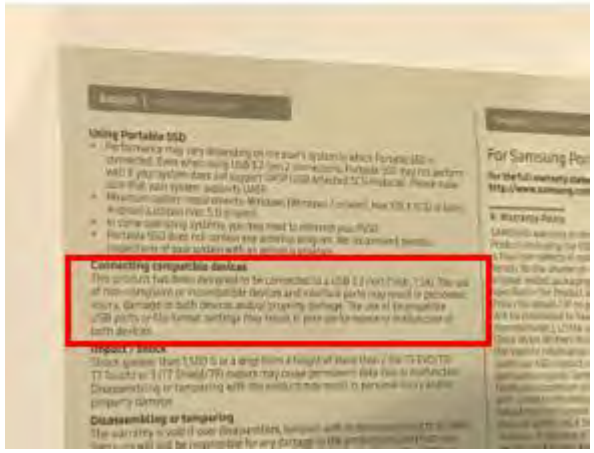
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	  Indeed, the entire purpose of the Samsung Portable SSD T7 is to be connected to an external device via a USB-C cable connected to the socket structure to allow information to be transferred to and from the external device. *See also* Element [**55A**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

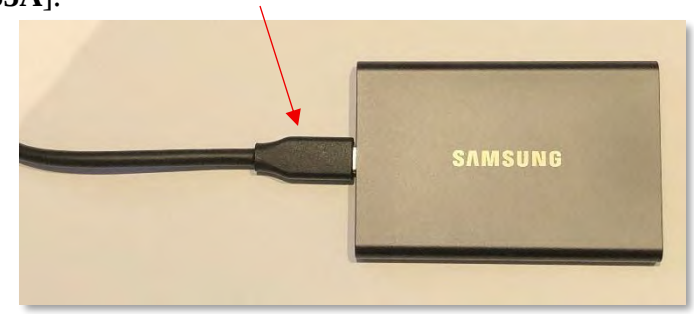
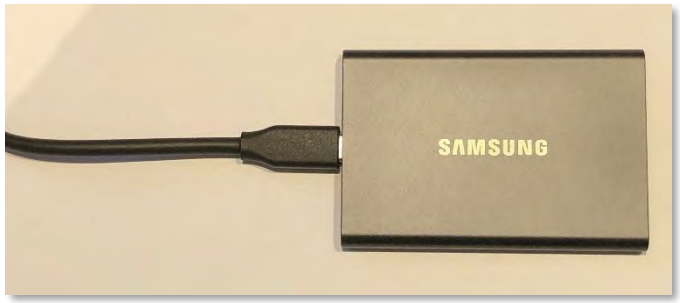
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
[**99B**] the socket structure with the duplex electrical connection of claim 98 and	This product includes a socket structure as described in claim 98 as described above in connection with elements [**98A**] through [**98N**].
[**99C**] the plug,	The Samsung Portable SSD T7 is sold with, designed to be compatible with, and specifically intended to be connected to a USB-C plug for transferring information to and from an external device, as described above in connection with element [**55A**].  *See also* Element [**55C**].
[**99D**] wherein the socket structure is operatively connected to the plug,	When a plug is inserted into the socket structure, the socket structure is operatively connected to the plug. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

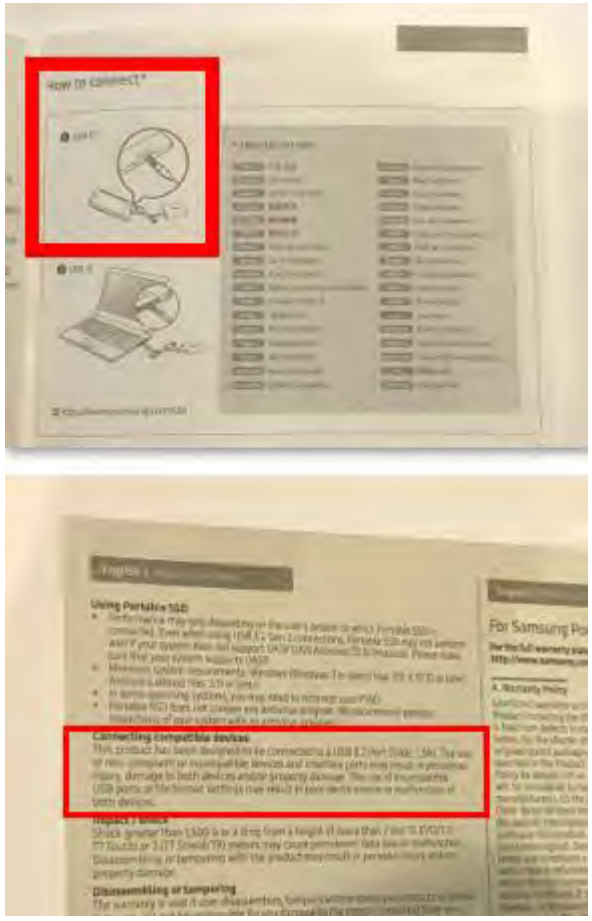
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	Samsung provides an installation guide showing how to connect the Samsung Portable SSD T7 to a USB-C cable. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

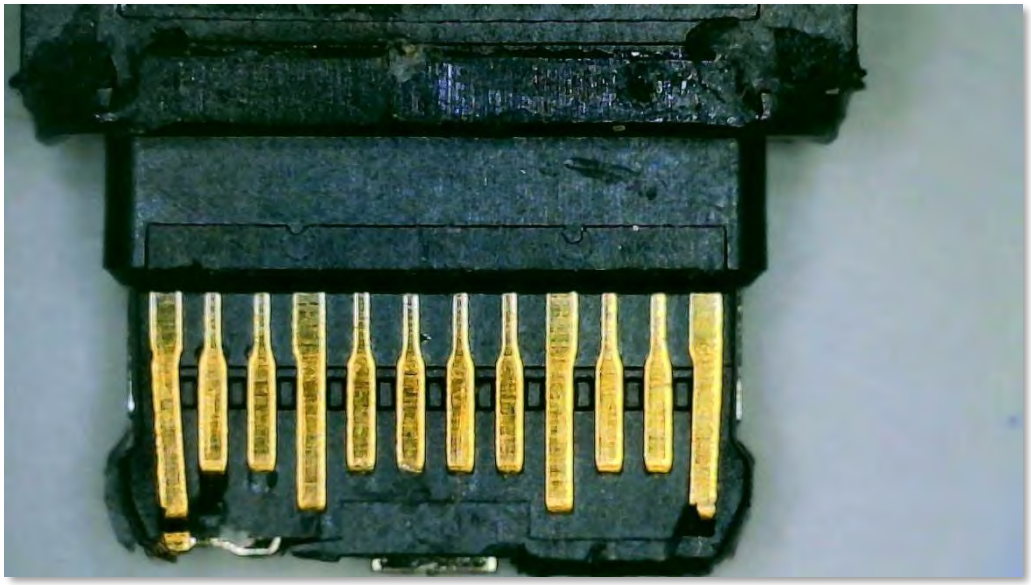
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	Indeed, the entire purpose of the Samsung Portable SSD T7 is to connect to a USB-C cable via the socket structure to allow information to be transferred to and from the Samsung T7 via the socket. In this configuration, the socket structure is operative to simultaneously electrically connect with the first and second contacts, as described above with reference to element [**34I**]. *See also* Element [**48B**].
[**99E**] and wherein the socket structure is operative to simultaneously electrically connect via the first and second contacts.	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

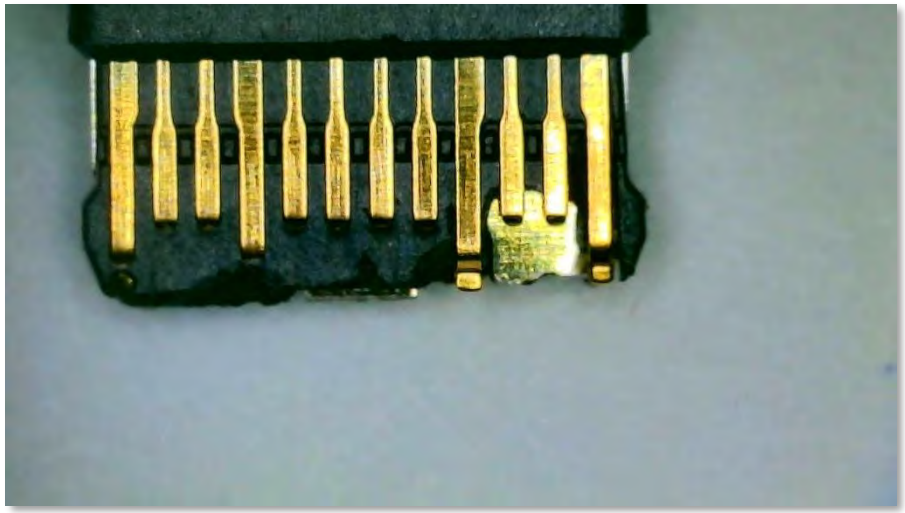
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**100A**] The socket structure of claim 98,	This product includes a socket structure as described in claim 98 as described above in connection with elements [**98A**] through [**98N**].
[**100B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base of the Samsung T7 are integrally formed.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**41B**].
[**101A**] The socket structure of claim 100,	This product includes a socket structure as described in claim 100, as described above in connection with elements [**100A**] through [**100B**].
[**101B**] wherein the metal housing at least partially covers the plastic base.	The Samsung T7 includes a metal housing that covers the plastic base at least in part.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

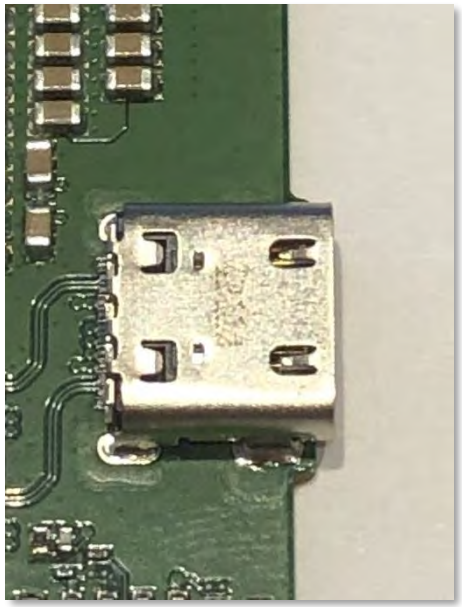
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image of exterior of the USB port on printed circuit board in Samsung T7.) *See also* Element [**39B**].
[**102A**] The socket structure of claim 101,	This product includes a socket structure as described in claim 101 as described above in connection with elements [**101A**] through [**101B**].
[**102B**] wherein at least two of the first contacts are not in electrical communication with one another and at	The first and second contacts of the Samsung T7 are not in electrical communication with the others of the first and second contacts. For example, each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

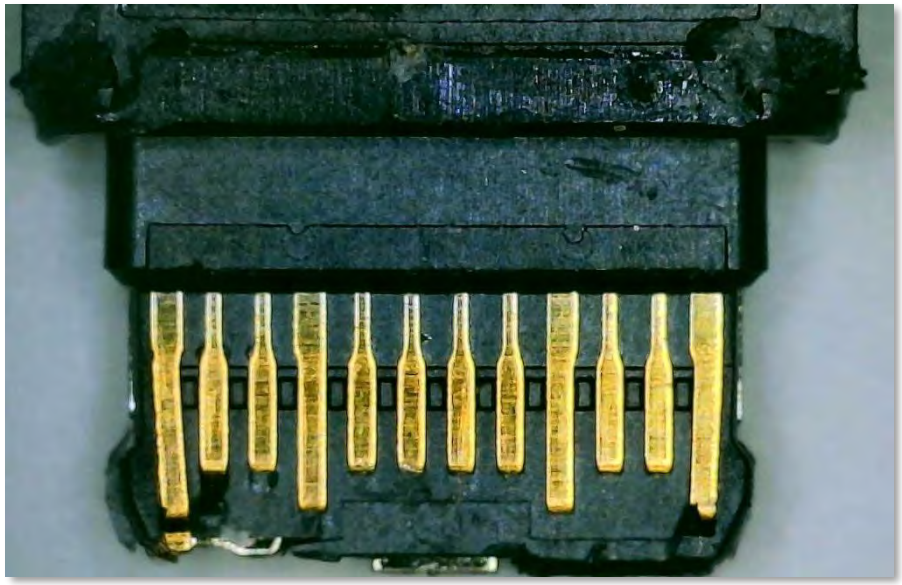
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
least two of the second contacts are not in electrical communication with one another.	

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) *See generally* elements [**34F**] through [**34H**]. Moreover, the Samsung T7 socket structure is compatible with the included USB 3.2 USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) In accordance with the USB-C standard, each contact and corresponding output pin is associated with a separate electrical signal. The Samsung T7 would not function in accordance with the USB-C standard if, for example,

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

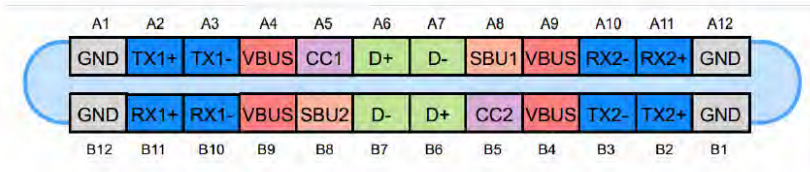
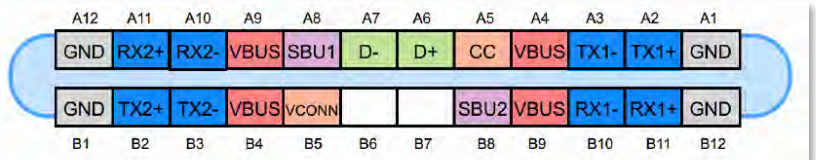
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	the TX pins (A2, A3, B2, and B3) were in electrical communication with, for example, the VBUS connections (A4, A9, B4, B9), or if the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12). **The USB Type-C Receptacle/Plug Pins** The USB Type-C connector has 24 pins. Figures 1 and 2, respectively, show the pins for the USB Type-C receptacle and plug.  *Figure 1. The USB Type-C receptacle. Image courtesy of Microchip.*  *Figure 2. The USB Type-C plug. Image courtesy of Microchip.* *See* https://www.allaboutcircuits.com/technical-articles/introduction-to-usb-type-c-which-pins-power-delivery-data-transfer/ (accessed April 10, 2025). *See also* Element [**44B**].
[**103A**] The socket structure of claim 102,	This product includes a socket structure as described in claim 102, as described above in connection with elements [**102A**] through [**102B**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

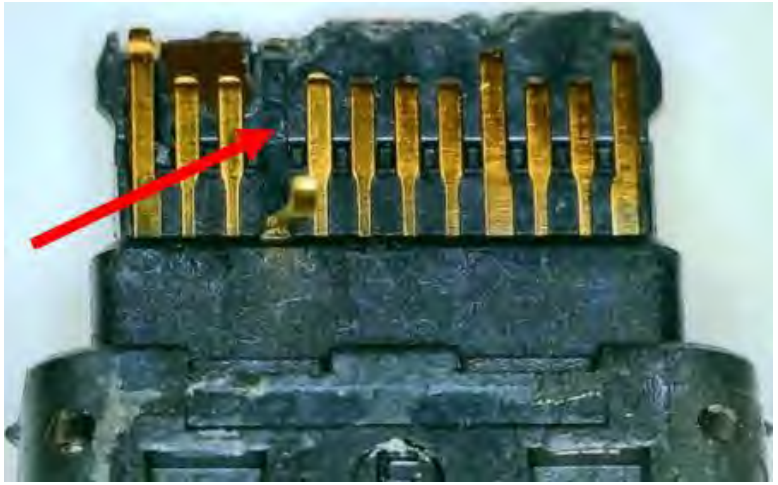
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
[**103B**] wherein the grooves in the first surface of the tongue each include a portion of one of the first contacts, and the grooves in the second surface of the tongue each include a portion of one of the second contacts.	The grooves in the first and second surfaces include a portion of one of the first and second contacts, respectively.  *See also* Elements [**34D**], [**61B**].
[**104A**] The socket structure of claim 103,	This product includes a socket structure as described in claim 103, as described above in connection with elements [**103A**] through [**103B**].
[**104B**] wherein the tongue has chamfered corners on two sides of the tongue.	The Samsung T7 includes a tongue with chamfered corners on the right and left sides of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

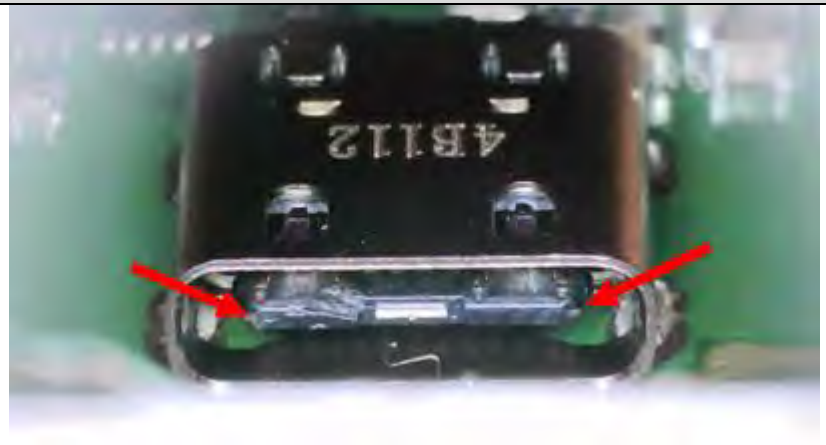
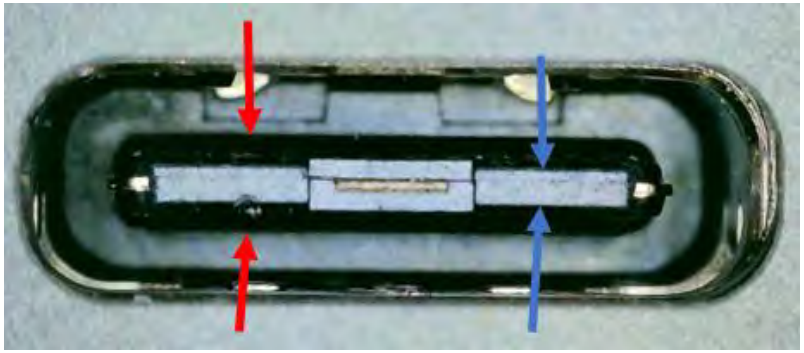
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**63B**].
[**105A**] The socket structure of claim 104,	This product includes a socket structure as described in claim 104, as described above in connection with elements [**104A**] through [**104B**].
[**105B**] wherein a portion of the tongue opposite the plastic base is tapered.	The Samsung T7 includes a tapered tongue. In particular, the tongue tapers from a wider width (indicated by the red arrows) to a narrower width (indicated by the blue arrows) at the face of the tongue.  *See also* Element [**64B**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
[**106A**] The socket structure of claim 105,	This product includes a socket structure as described in claim 105, as described above in connection with elements [**105A**] through [**105B**].
[**106B**] wherein a thickness of the tongue is less than third of a height of the connection slot.	The included USB-C cable is advertised as compliant with the USB-C standard and, on information and belief, the socket structure of the Samsung T7 is compliant with the USB-C standard so as to be able to connect with the USB-C cable plug. *See also* Element [**34A**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

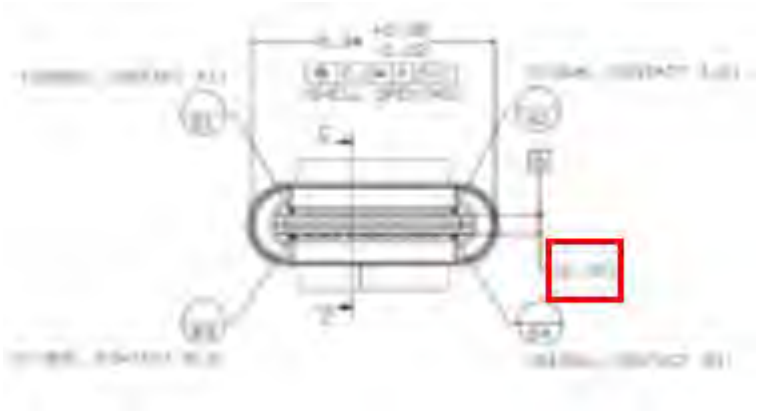
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	The USB-C standard specifies that the width of the tongue is 0.7 mm and that the width of the receptacle is at least 2.5 mm, meaning that the thickness of the tongue is less than a third of the thickness of the connection slot (0.7/2.5=0.28<0.33).  Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

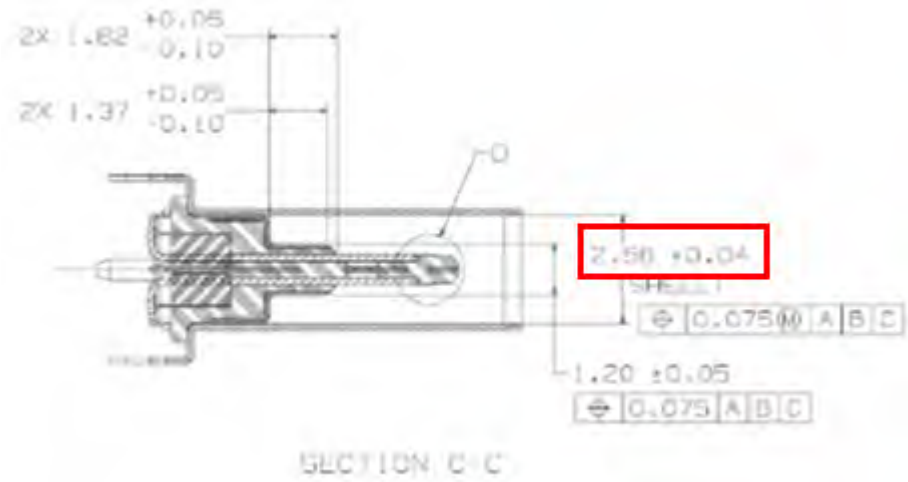
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 *Id.*  *Id.*

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	Furthermore, testing confirms that the thickness of the tongue is less than a third of a height of the connection slot. *See also* Element [**36B**].
[**107A**] The socket structure of claim 106, wherein:	This product includes a socket structure as described in claim 106, as described above in connection with elements [**106A**] through [**106B**].
[**107B**] the socket structure is a universal serial bus socket structure and	The Samsung Portable SSD T7 includes a socket structure that is a universal serial bus, or USB, socket structure.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung Portable SSD T7.) *See also* Elements [**34A**], [**40B**].
[**107C**] each of the first contacts is electrically connected to the	Each of the first contacts in the Samsung T7 is electrically connected to the respective first pins extending out of the plastic base, as described above in connection with element [**34G**]. The first pins extend out of the plastic base through a rear cover.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

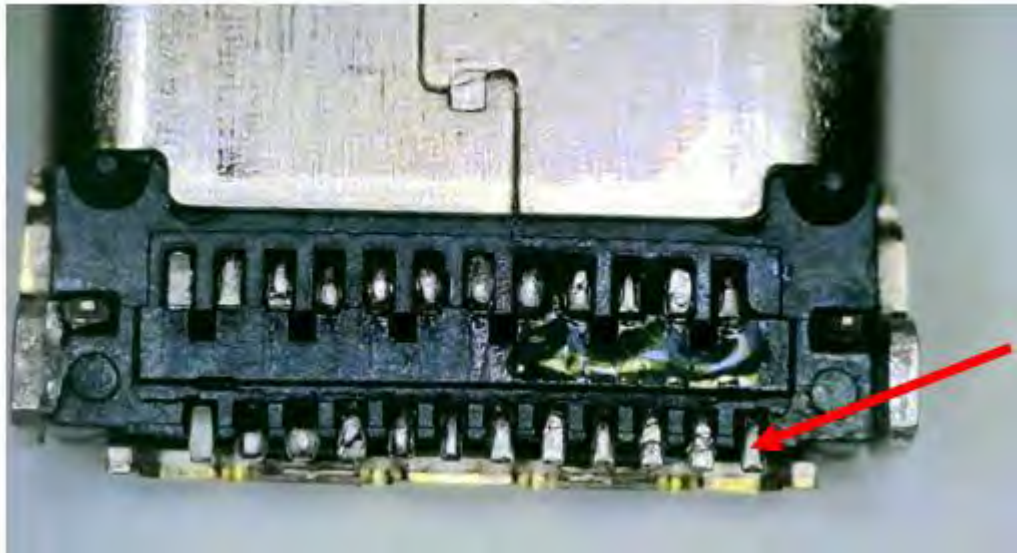
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
respective first pin extending out of the plastic base through the rear cover, and each of the second contacts is electrically connected to the respective second pin extending out of the plastic base through the rear cover,	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Each of the second contacts is also connected to the respective second pin extending out of the plastic base, as described above in connection with element [**34H**]. The second pins extend out of the plastic base through the rear cover.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.)  *See also* Element [**43B**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

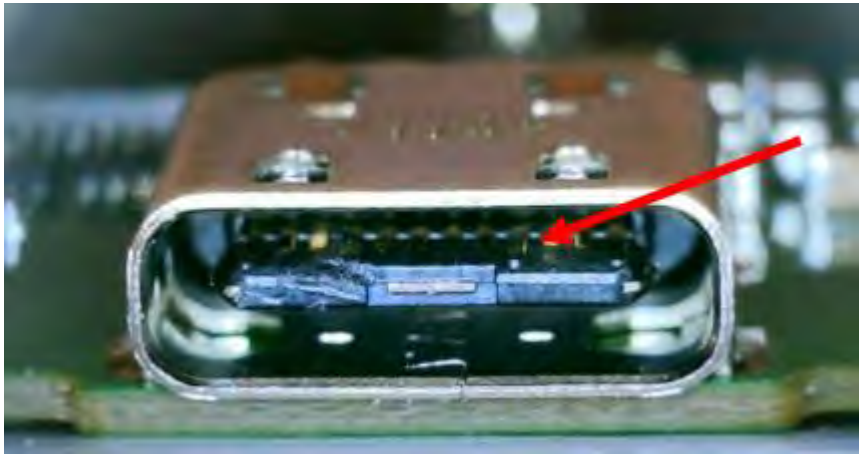
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
[**107D**] the tongue only contacts an interior portion of the plug when the plug is inserted,	The tongue of the Samsung T7 only contacts an interior portion of the plug when the plug is inserted. In particular, the tongue of the Samsung T7 is designed to fit inside the USB plug such that the electrical contacts on the top and bottom of the tongue come into contact with the electrical contacts on the interior top and bottom of the USB plug. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

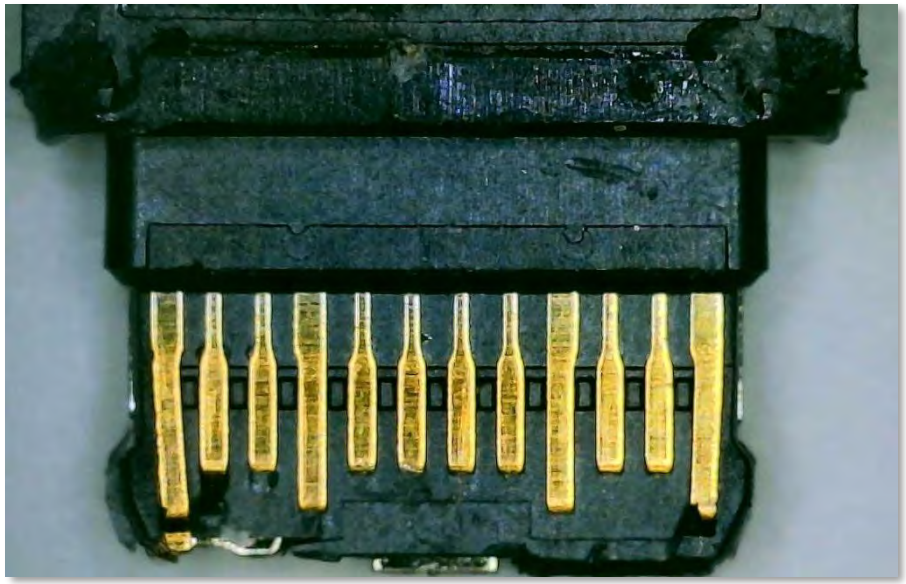
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Images showing contacts on surface of tongue.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

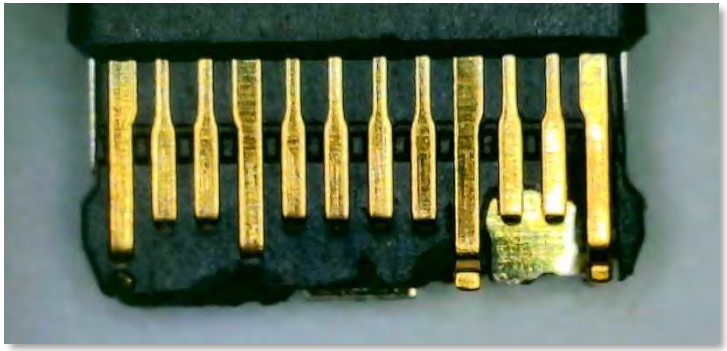
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**35B**].
[**107E**] each contact of the first and second contacts is a portion of a respective terminal,	Each contact of the first and second contacts is a portion of a respective terminal. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

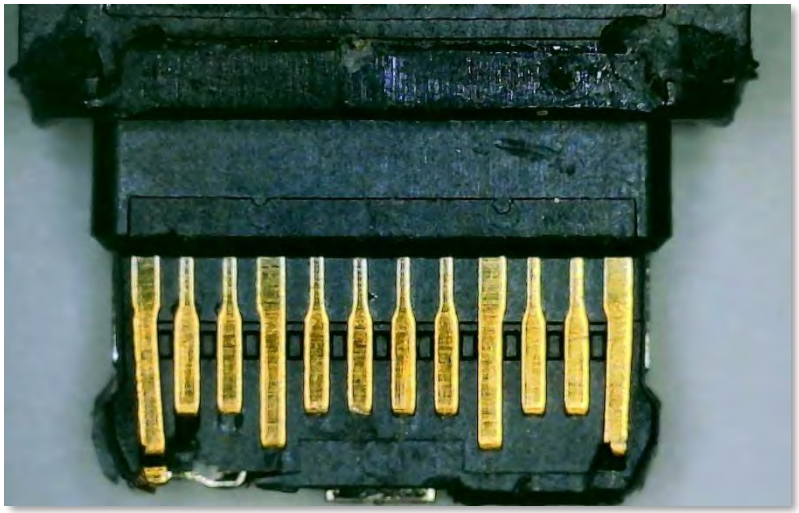
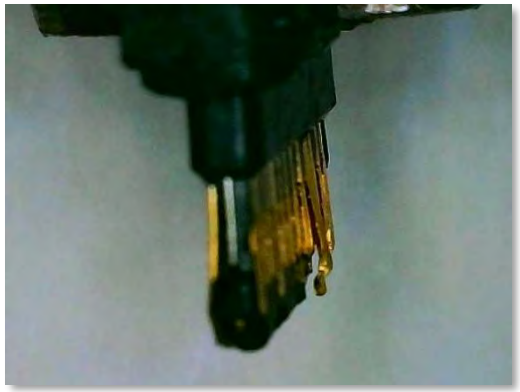
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**42B**].
[**107F**] a portion of a first contact projects beyond one surface of the tongue, and a portion of a second contact projects beyond another surface of the tongue,	A portion of the contacts of the Samsung T7 projects beyond the surfaces of the tongue. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

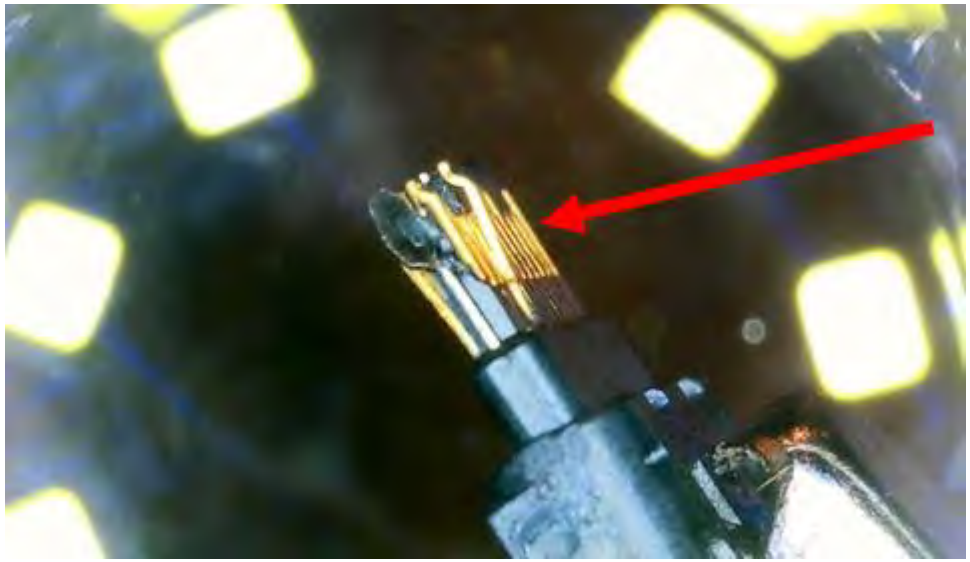
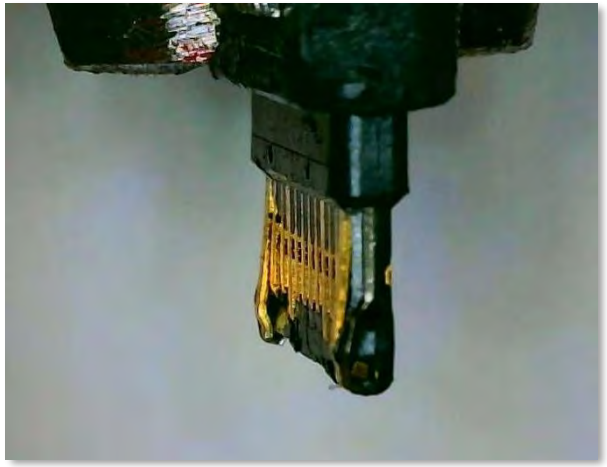
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

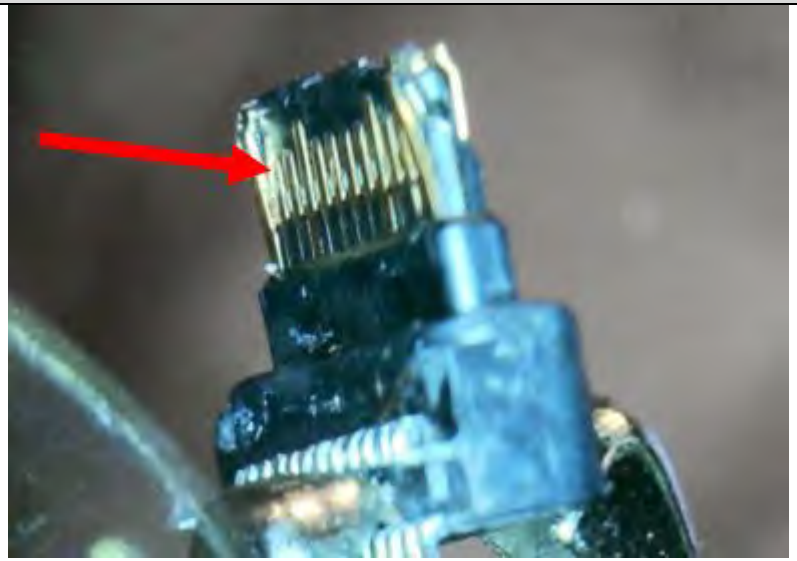
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 In addition, the included USB-C cable is advertised as compliant with the USB-C standard and, on information and belief, the socket structure of the Samsung T7 is compliant with the USB-C standard so as to be able to connect with the USB-C cable plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The USB-C standard indicates that the contacts should be proud of plastic.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1. *See also* Element [**52B**].
[**107G**] the grooves in the first surface of the tongue each include a portion of one of the first contacts, and	The grooves in the first and second surfaces include a portion of one of the first and second contacts, respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

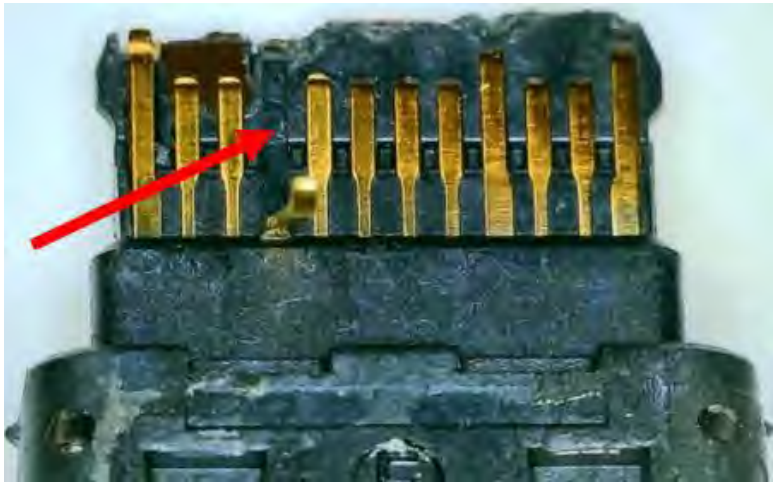
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 *See also* Elements [**34D**], [**61B**].
[**107H**] the grooves in the second surface of the tongue each include a portion of one of the second contacts.	The grooves in the first and second surfaces include a portion of one of the first and second contacts, respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

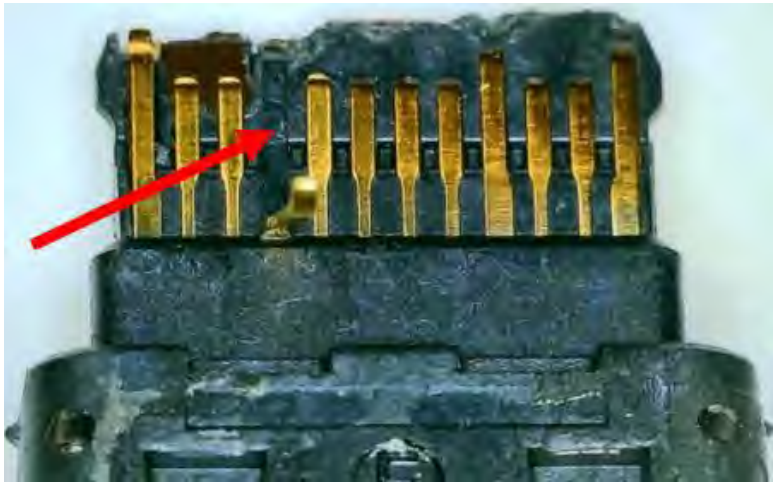
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 *See also* Elements [**34D**], [**61B**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
[**108A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

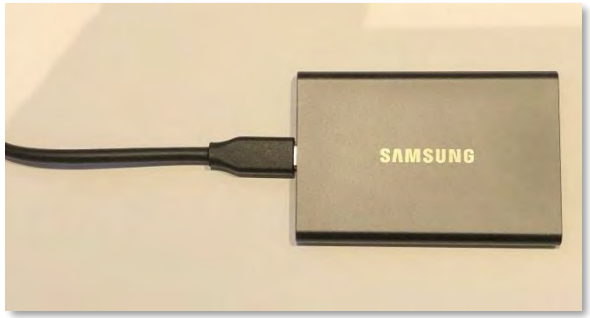
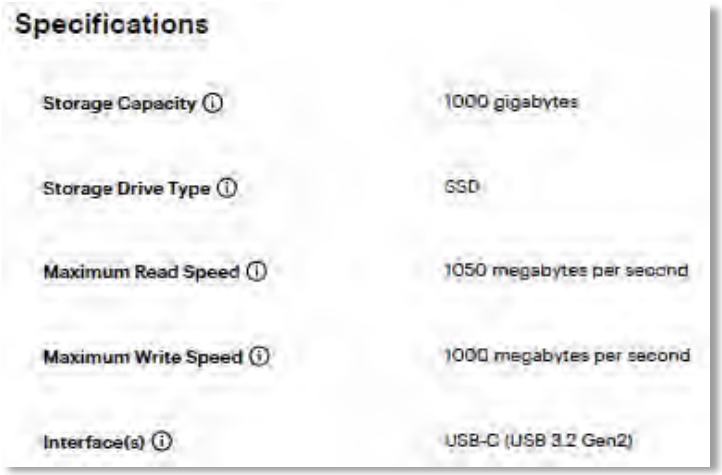
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**108B**] through [**108U**]. *See also* Element [**34A**].
[**108B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34B**].
[**108C**] a metal housing at least partially covering the plastic base;	The Samsung T7 includes a metal housing that covers the plastic base at least in part.

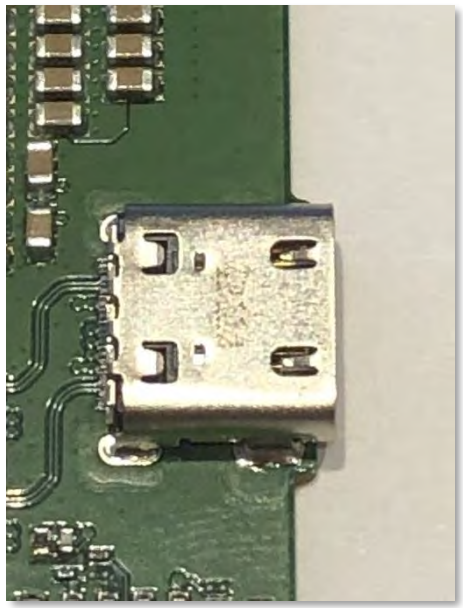
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 (Image of exterior of the USB port on printed circuit board in Samsung T7.) *See also* Element [**39B**].
[**108D**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

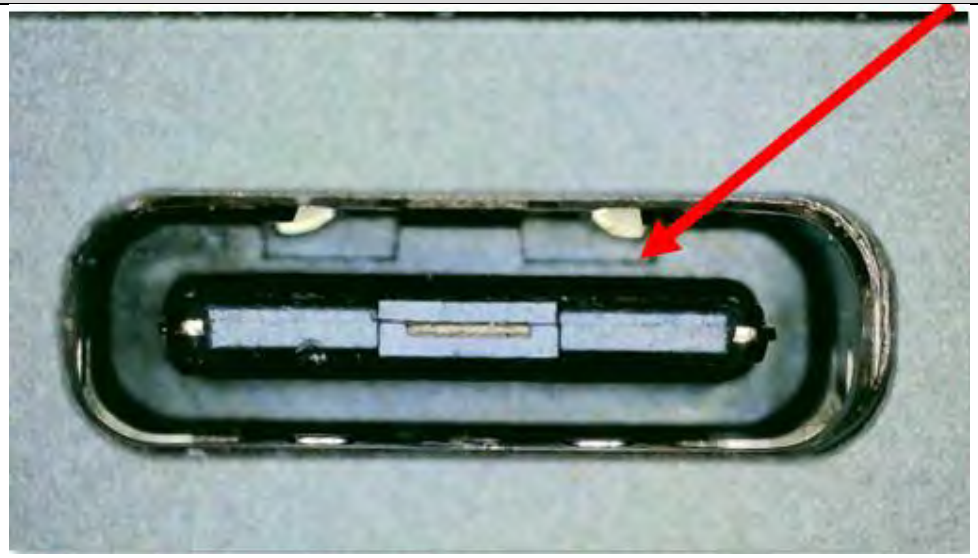
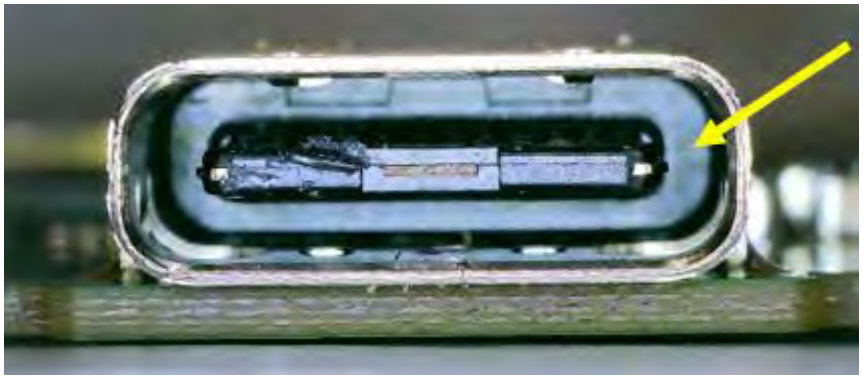
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

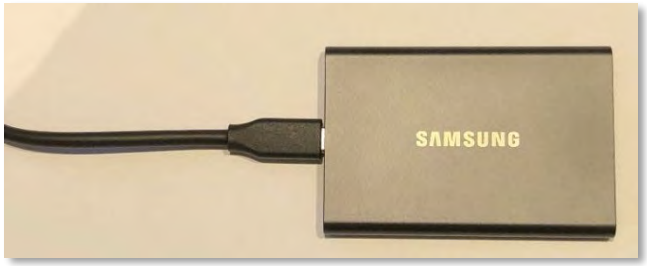
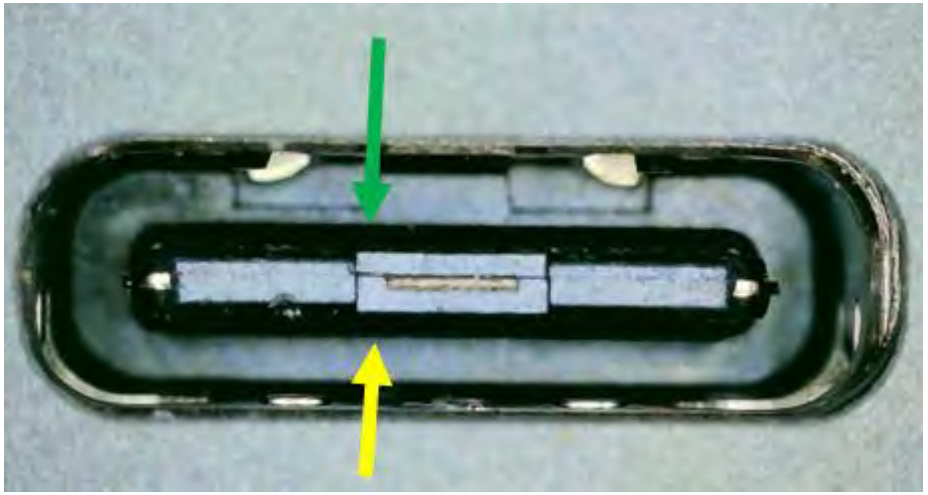
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)  (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

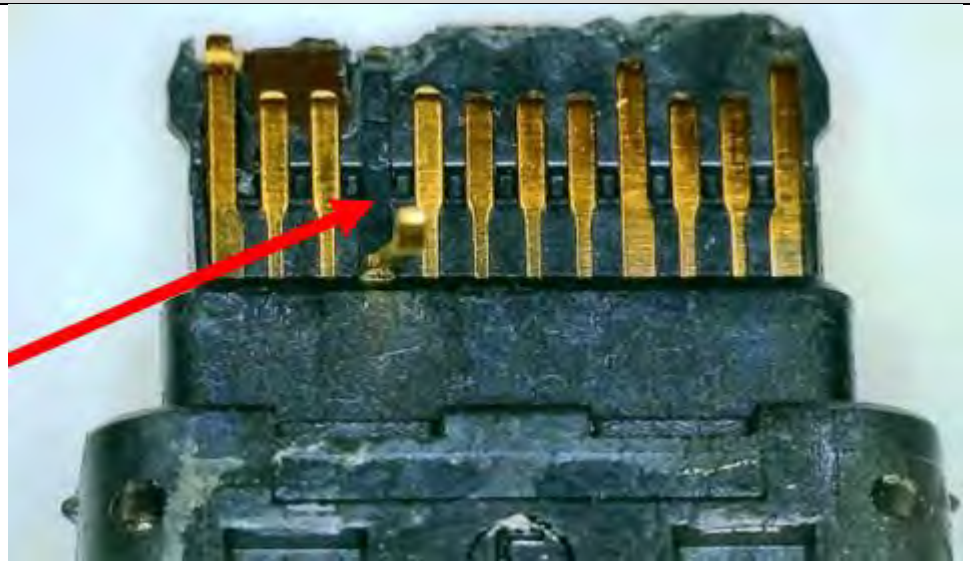
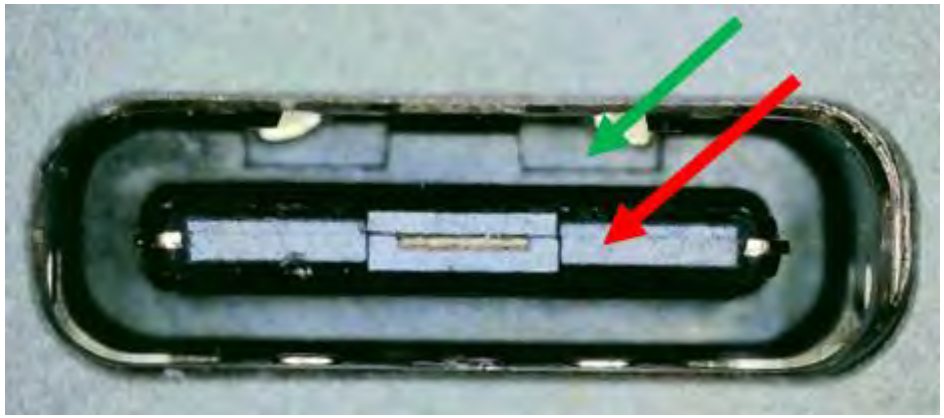
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
[**108E**] a tongue, which has a first surface with grooves, and a second surface with grooves, the second surface disposed opposite the first surface,	The Samsung T7 includes a tongue.   The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

Samsung, EX1004, p. 192

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**].
[**108F**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot based on an	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background. 

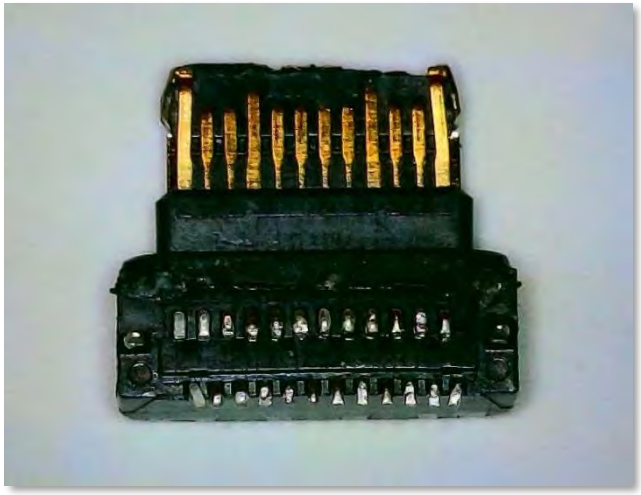
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
operational state when the socket structure is connected to the plug;	 The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

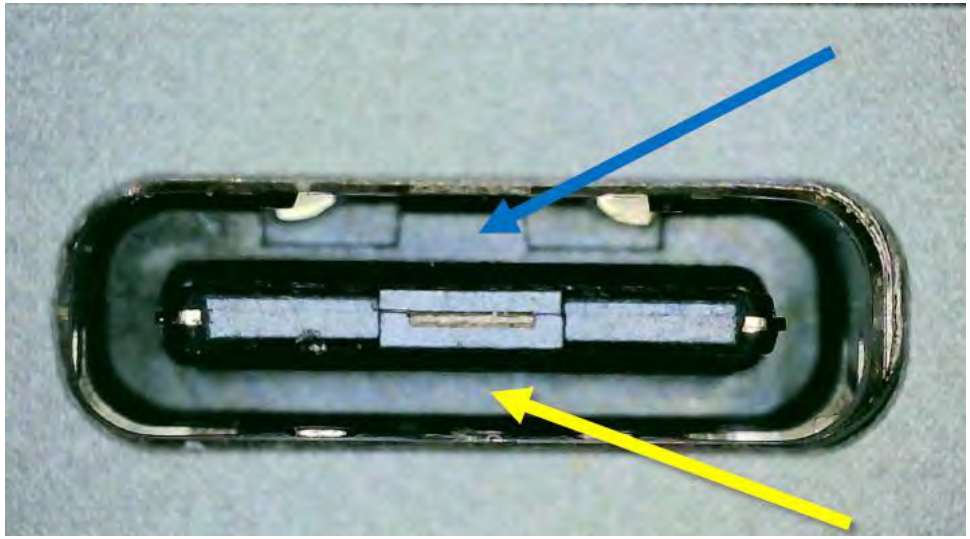
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**108G**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

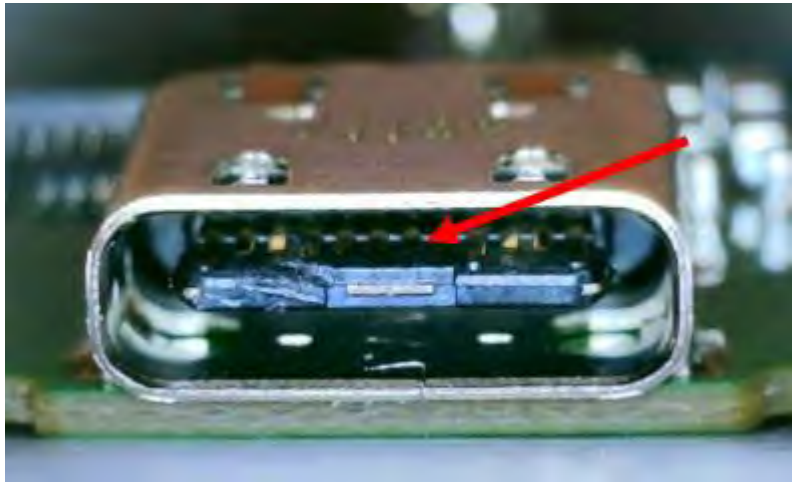
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

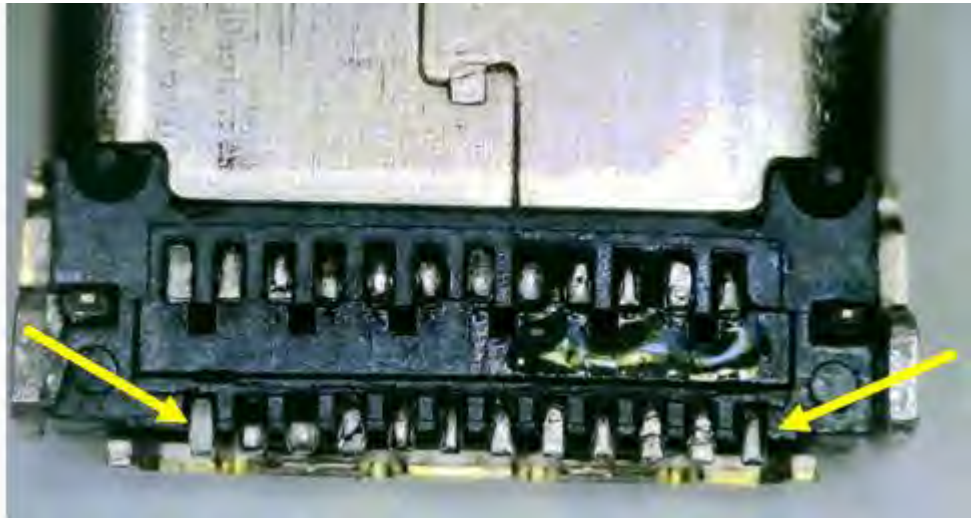
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).  (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34F**].
[**108H**] at least one row of second contacts separately arranged on the second surface of the tongue; wherein:	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

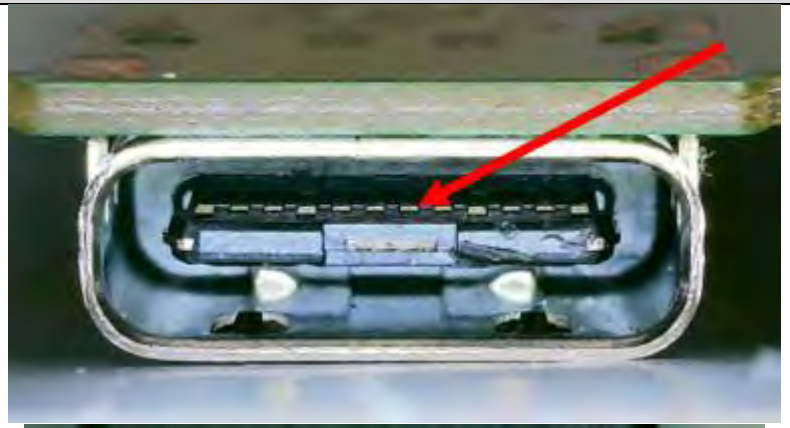
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34G**].
[**108I**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**108H**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

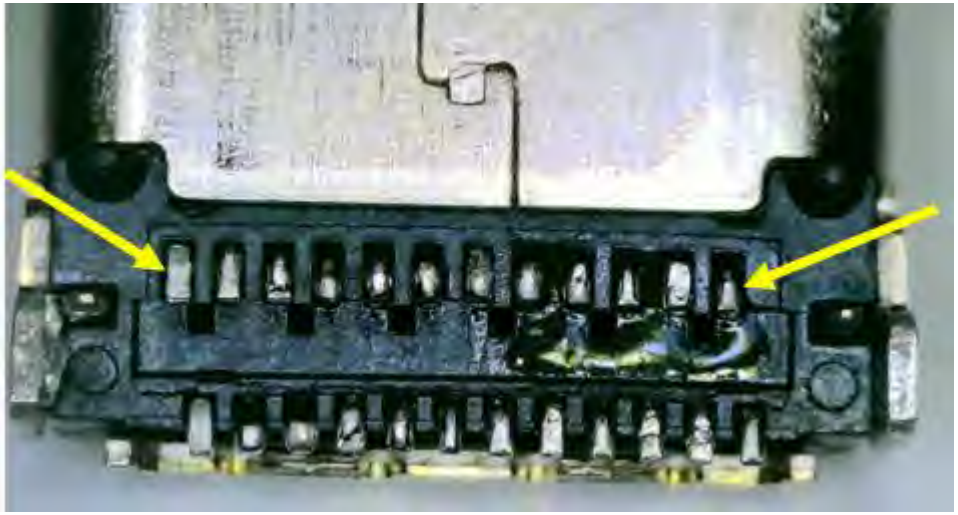
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34H**].
[**108J**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

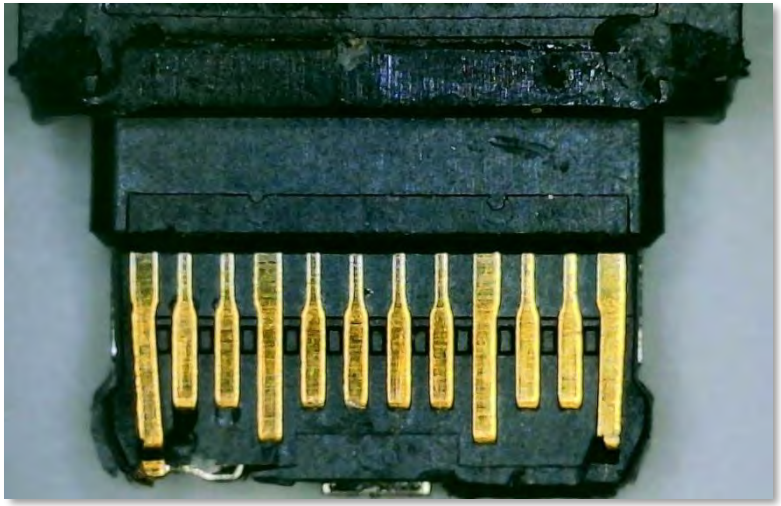
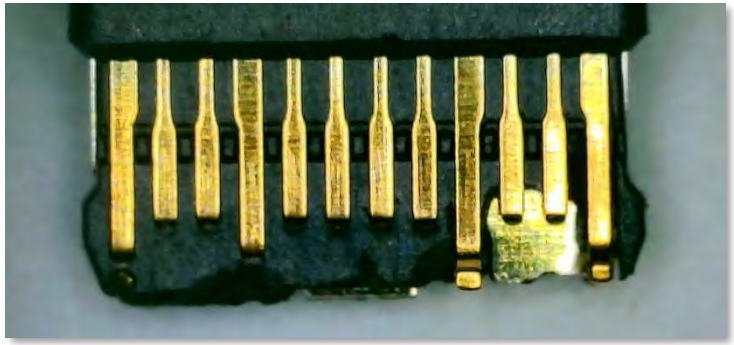
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	  The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**108K**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two separate operational states:	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

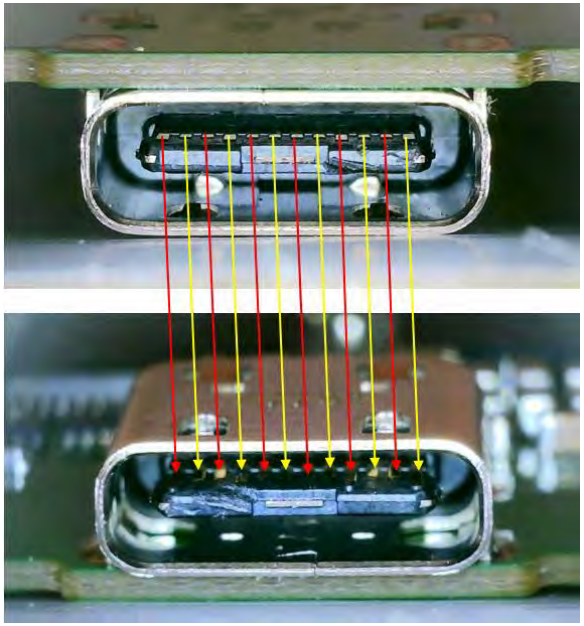
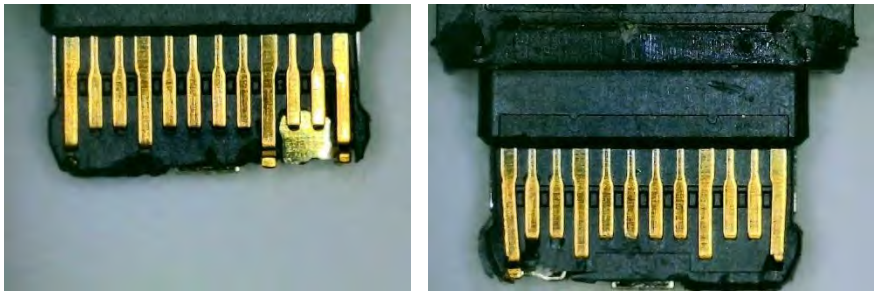
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.  In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement

Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**108L**] through [**108O**]. *See also* Element [**34J**].
[**108L**] a first operational states when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed at a central location within the connection slot,	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

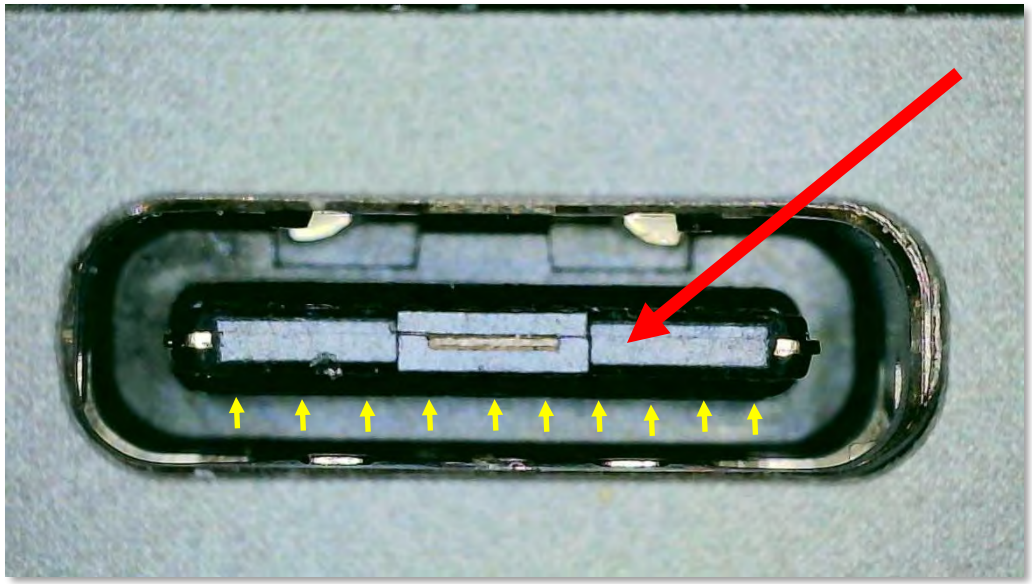
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals) The tongue is disposed at a central location within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

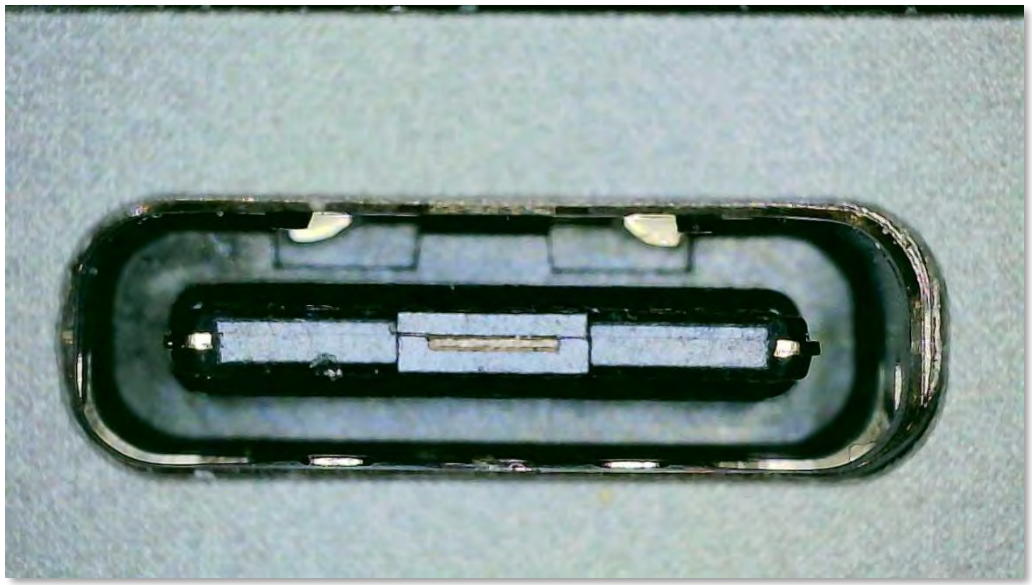
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**]
[**108M**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung T7 is configured for a first operational state as described above in connection with element [**108L**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

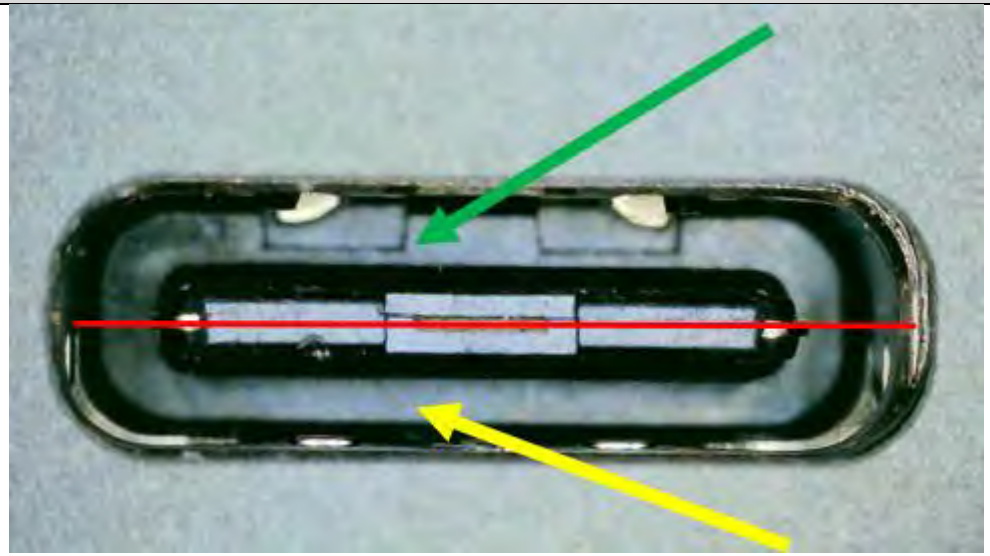
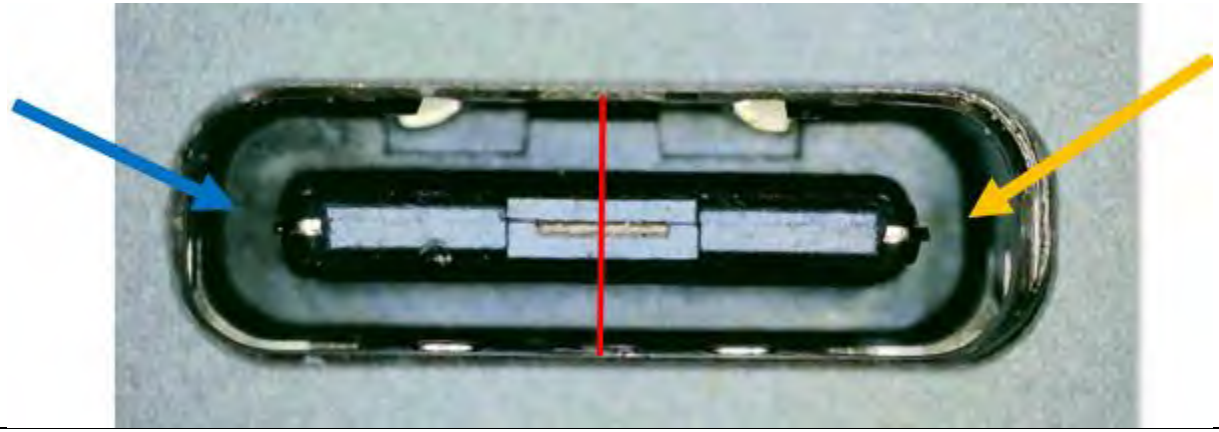
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by red lines, and are indicated by blue and orange arrows respectively, in the image below. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	See also Element [**34L**].
[**108N**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed at a central location within the connection slot,	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

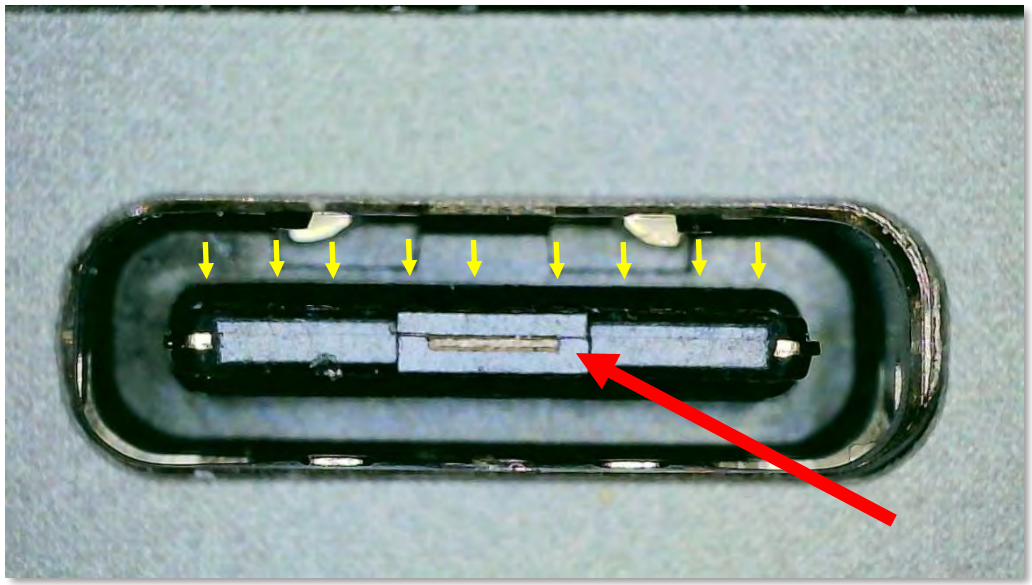
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 The tongue is disposed at a central location within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

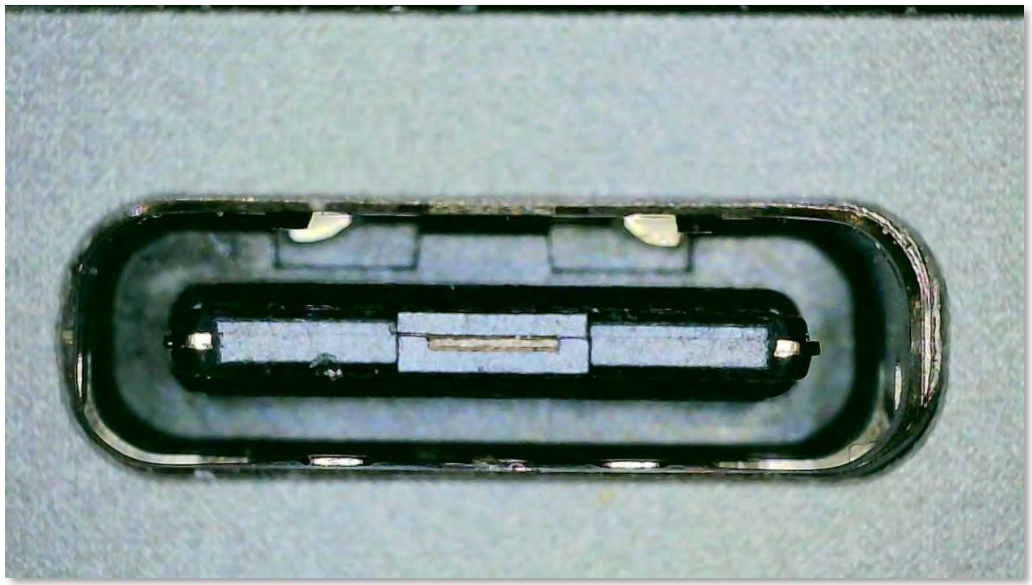
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**]
[**108O**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue,	In the second operational state, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**108M**]. *See also* Element [**34N**].
[**108P**] the socket structure is a	The Samsung Portable SSD T7 includes a socket structure that is a universal serial bus, or USB, socket structure.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
universal serial bus socket structure and	 *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

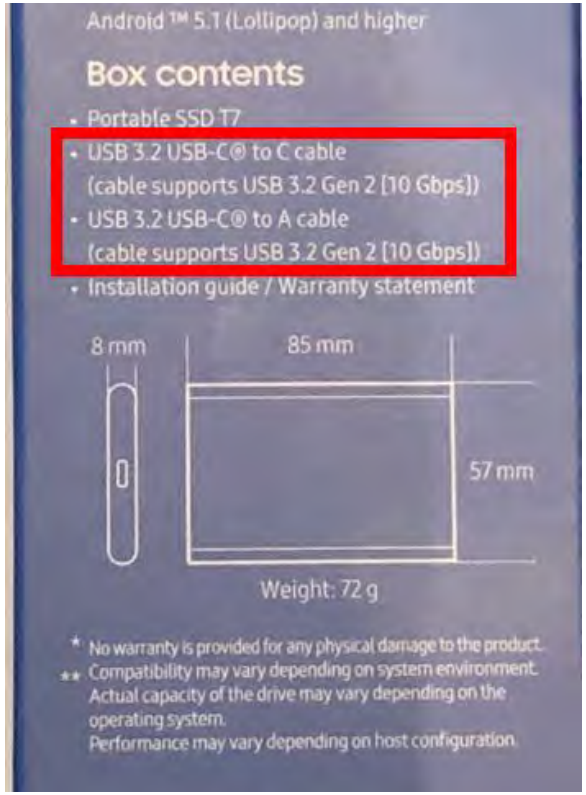
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung Portable SSD T7.) *See also* Elements [**34A**], [**40B**].
[**108Q**] each of the first contacts is electrically connected to the respective first pin	Each of the first contacts in the Samsung T7 is electrically connected to the respective first pins extending out of the plastic base, as described above in connection with element [**108G**]. The first pins extend out of the plastic base through a rear cover.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

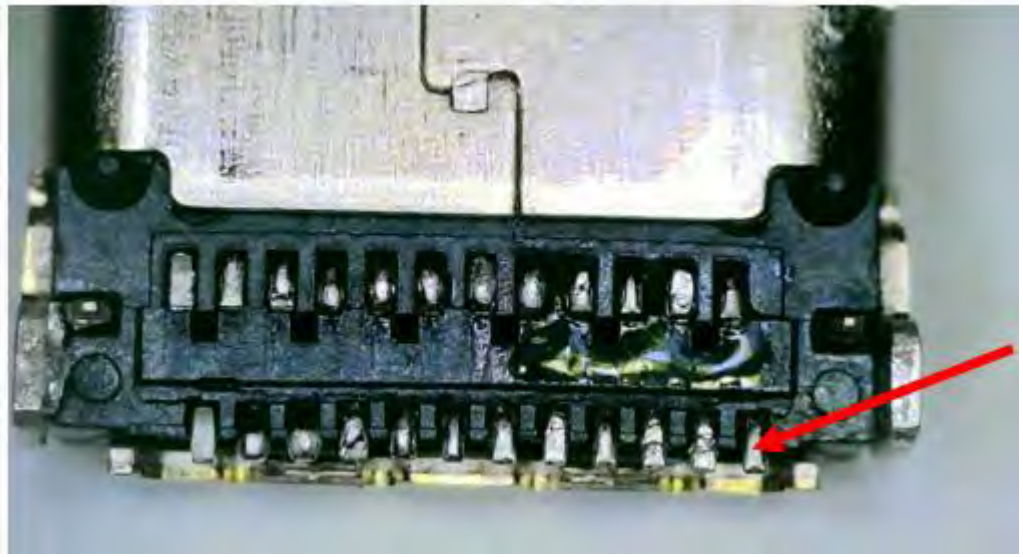
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
extending out of the plastic base through a rear cover, and each of the second contacts is electrically connected to the respective second pin extending out of the plastic base through the rear cover,	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Each of the second contacts is also connected to the respective second pin extending out of the plastic base, as described above in connection with element [**108I**]. The second pins extend out of the plastic base through the rear cover.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

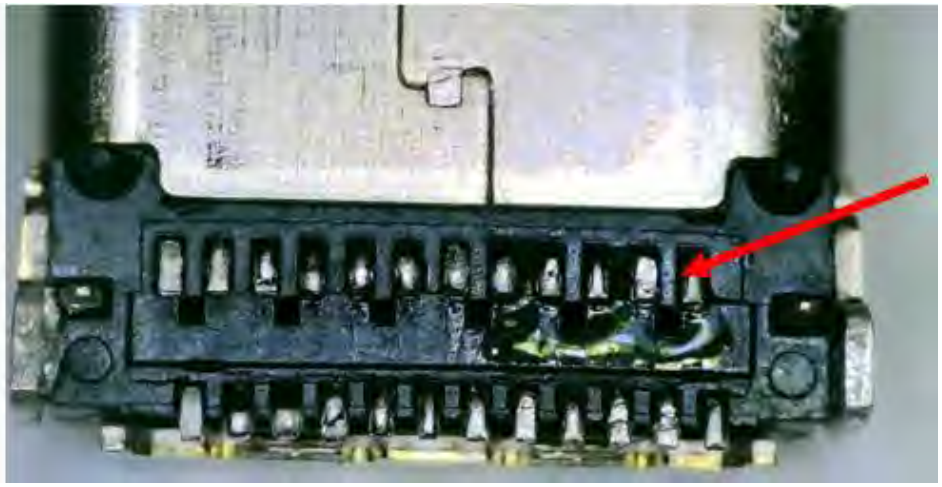
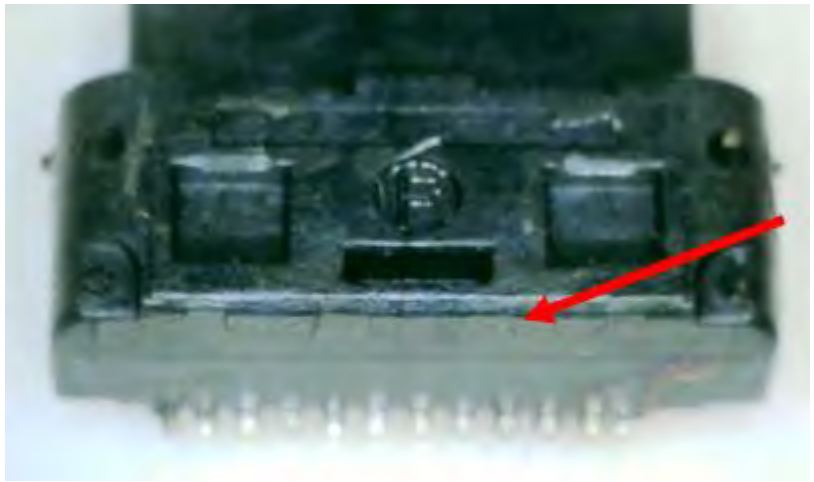
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.)  *See also* Element [**43B**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

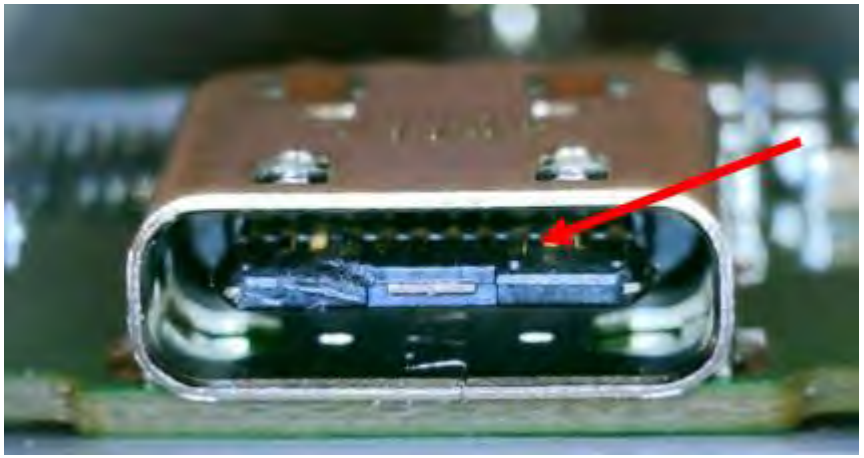
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
[**108R**] the tongue only contacts an interior portion of the plug when the plug is inserted,	The tongue of the Samsung T7 only contacts an interior portion of the plug when the plug is inserted. In particular, the tongue of the Samsung T7 is designed to fit inside the USB plug such that the electrical contacts on the top and bottom of the tongue come into contact with the electrical contacts on the interior top and bottom of the USB plug. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

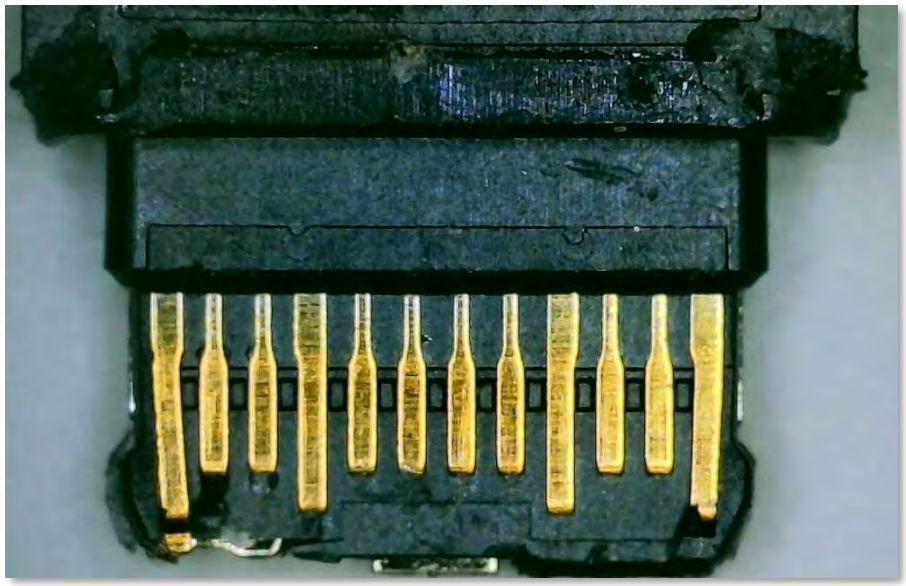
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 (Images showing contacts on surface of tongue.) 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

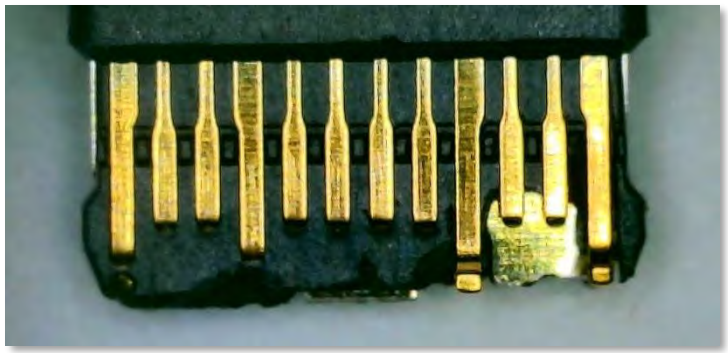
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	(Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**35B**].
[**108S**] each contact of the first and second contacts is connected to a respective portion of a respective terminal,	Each contact of the first and second contacts is a portion of a respective terminal. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

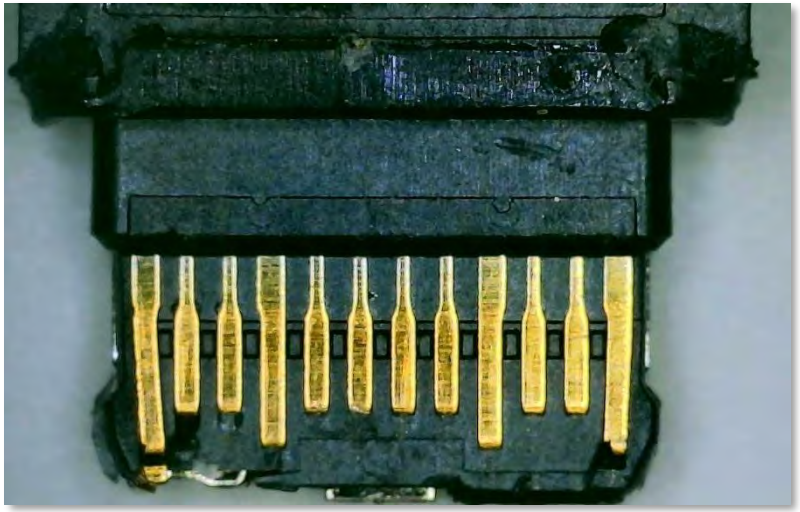
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**42B**].
[**108T**] the grooves in the first surface of the tongue each include a at least a portion of respective ones of the first contacts, and	At least a portion of the first contacts of the Samsung T7 is at least partially included in the first surface with grooves.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

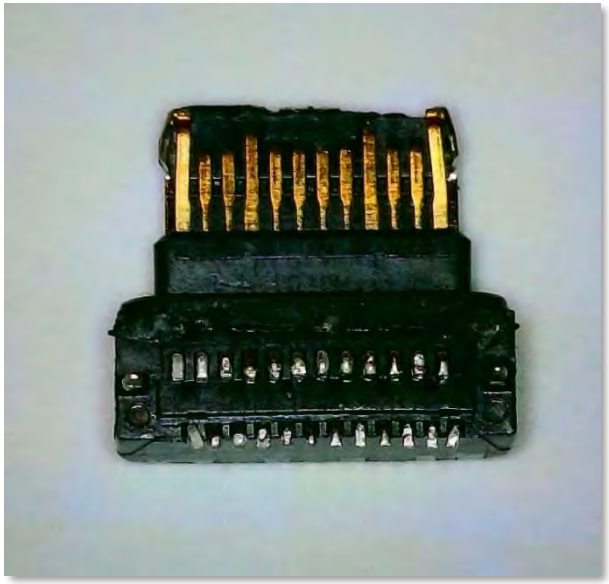
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

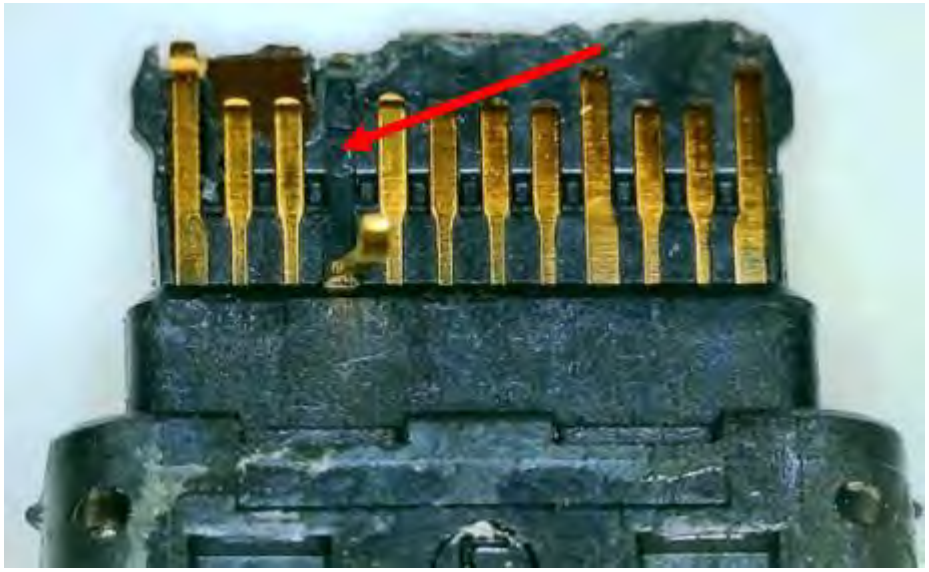
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 *See also* Elements [**34D**], [**53B**].
[**108U**] the grooves in the second surface of the tongue each include at least a portion of respective ones of the second contacts.	At least a portion of the second contacts of the Samsung T7 is at least partially included in the second surface with grooves.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

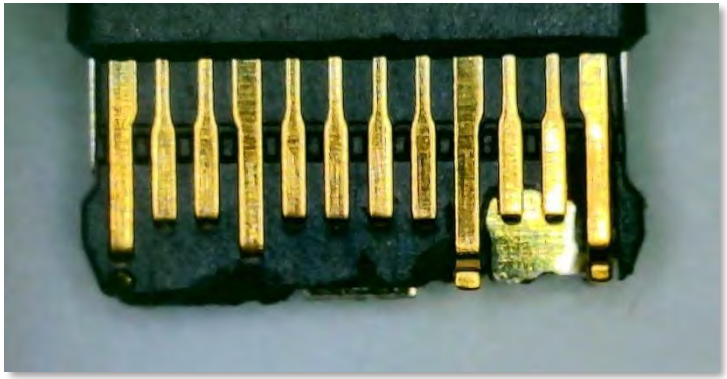
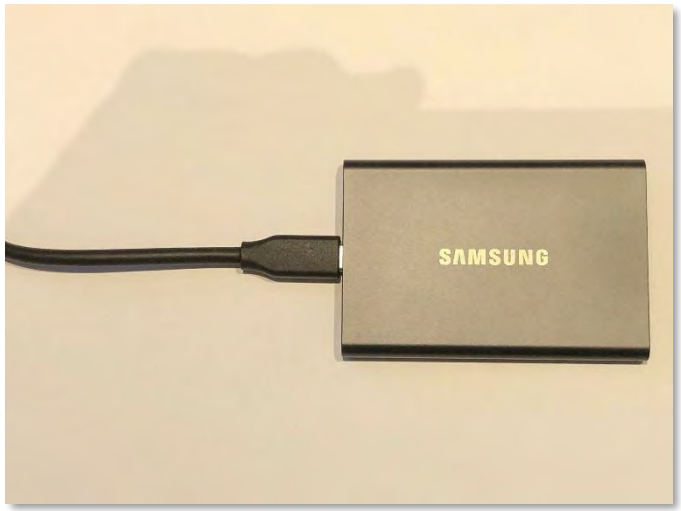
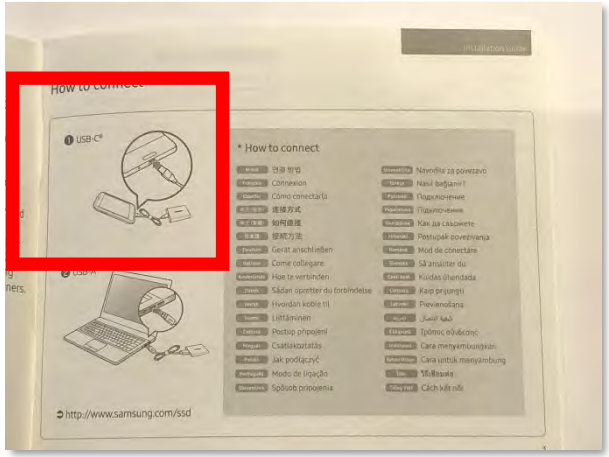
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 *See also* Elements [**34D**], [**54B**].
[**109A**] An electrical connection socket and plug comprising	The Samsung Portable SSD T7 is sold with a USB-C cable (which includes a USB-C plug). 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	Samsung provides an installation guide showing how to connect the Samsung Portable SSD T7 to a USB-C or USB-A port (e.g., on a computer or smartphone) via the included USB-C to USB-C and USB-C to USB-A cables.



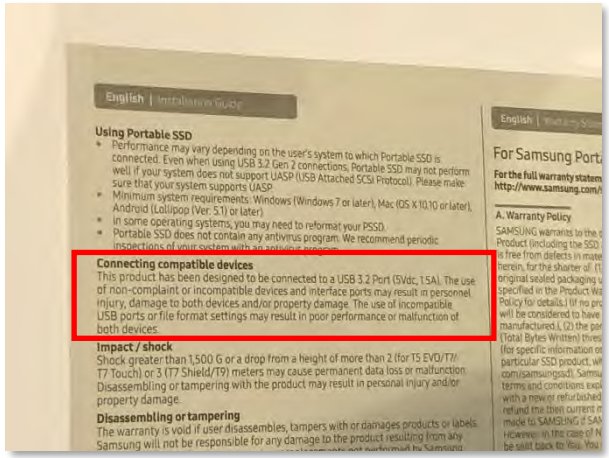


EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

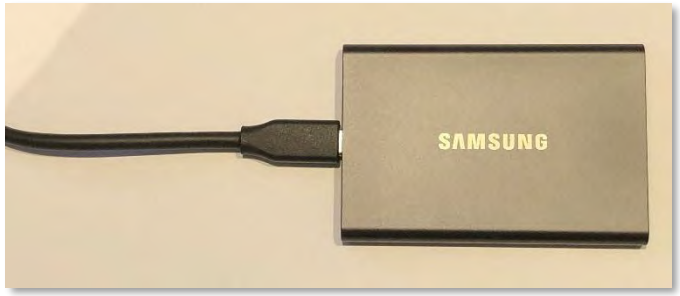
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	Indeed, the entire purpose of the Samsung Portable SSD T7 is to be connected to an external device via a USB-C cable connected to the socket structure to allow information to be transferred to and from the external device. *See also* Element [**55A**]
[**109B**] the socket structure of claim 108 and	This product includes a socket structure as described in claim 108 as described above in connection with elements [**108A**] through [**108U**].
[**109C**] the plug,	The Samsung Portable SSD T7 is sold with, designed to be compatible with, and specifically intended to be connected to a USB-C plug for transferring information to and from an external device, as described above in connection with element [**55A**].  *See also* Element [**55C**].
[**109D**] wherein the socket structure is operatively connected to the plug, and	When a plug is inserted into the socket structure, the socket structure is operatively connected to the plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

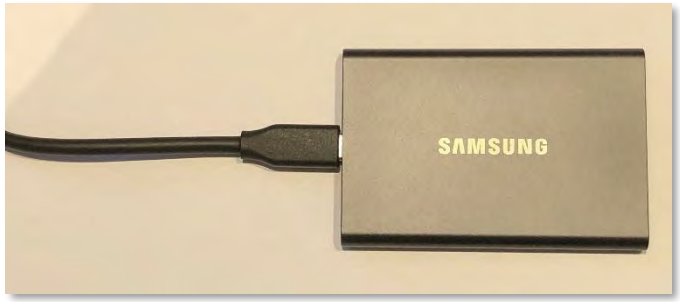
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 Samsung provides an installation guide showing how to connect the Samsung Portable SSD T7 to a USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

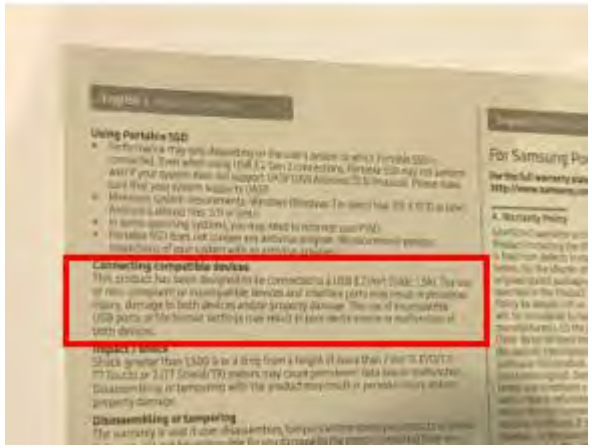
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	  Indeed, the entire purpose of the Samsung Portable SSD T7 is to connect to a USB-C cable via the socket structure to allow information to be transferred to and from the Samsung T7 via the socket. When a plug is inserted into the socket structure, the socket structure is operatively connected to the plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

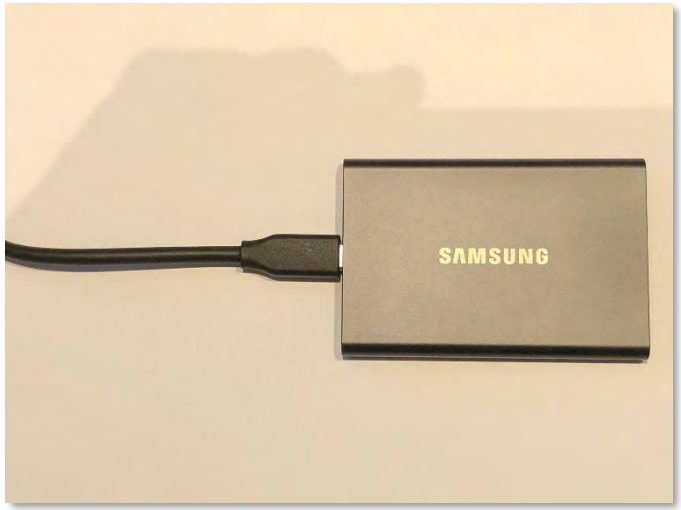
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**48B**].
[**109E**] wherein the socket structure is operative to simultaneously electrically connect via the first and second contacts.	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

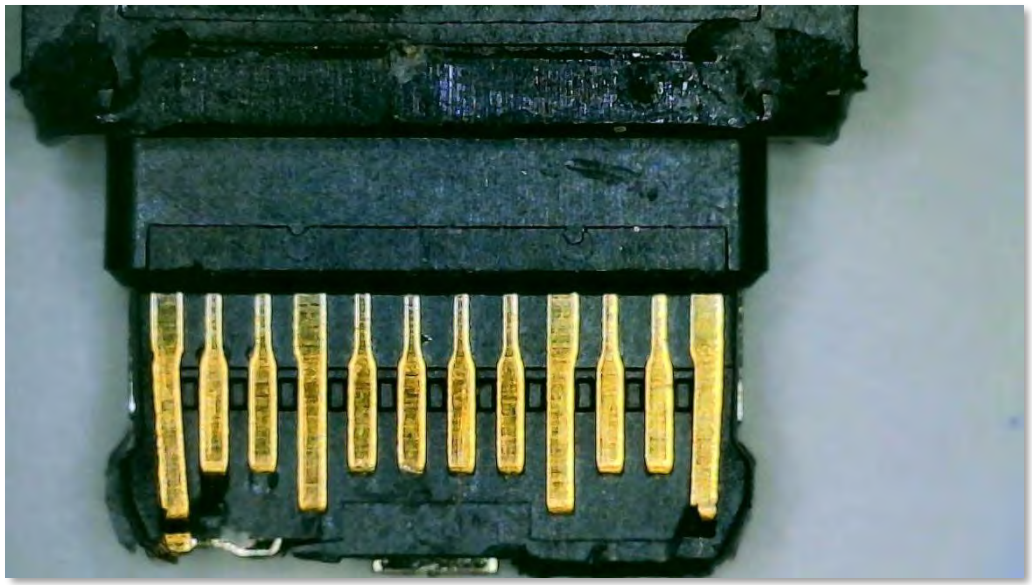
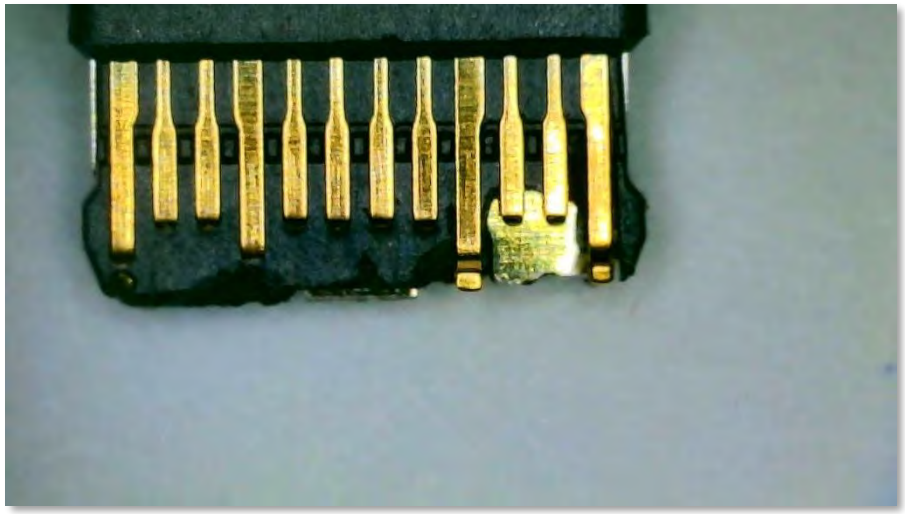
Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 108 and 109 of the '307 Patent	Evidence of Infringement
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
[**112A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

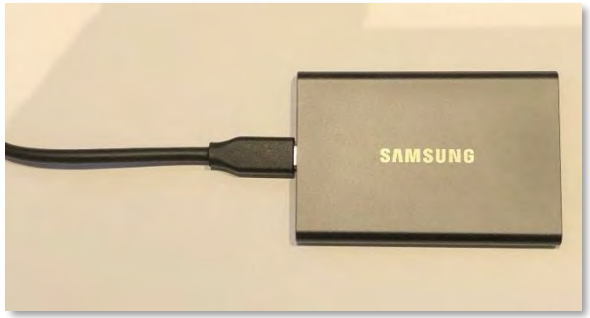
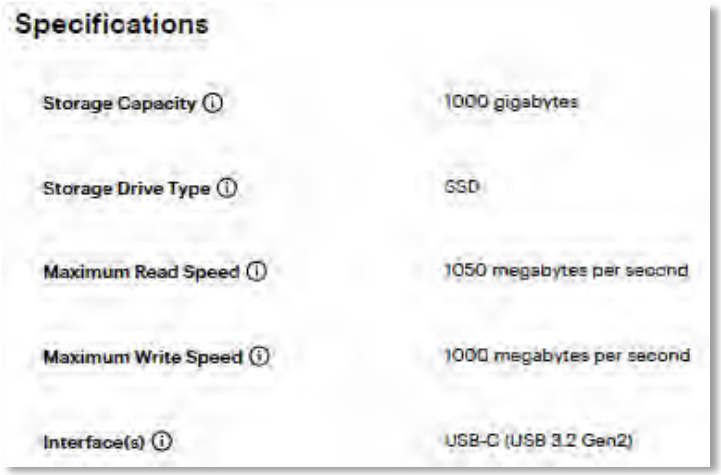
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**112B**] through [**112X**]. *See also* Element [**34A**].
[**112B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34B**].
[**112C**] a metal housing at least partially covering the plastic base;	The Samsung T7 includes a metal housing that covers the plastic base at least in part.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

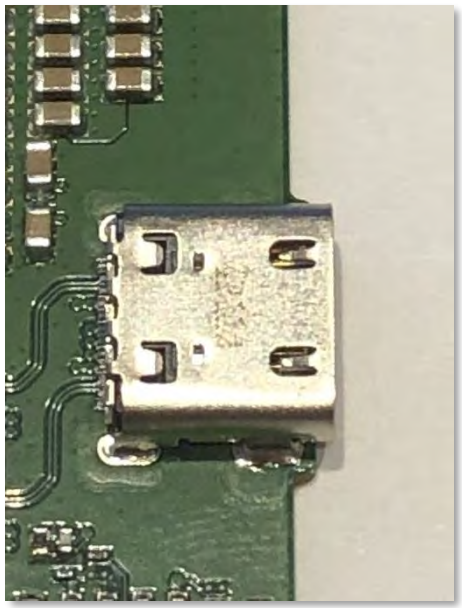
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 (Image of exterior of the USB port on printed circuit board in Samsung T7.) *See also* Element [**39B**].
[**112D**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

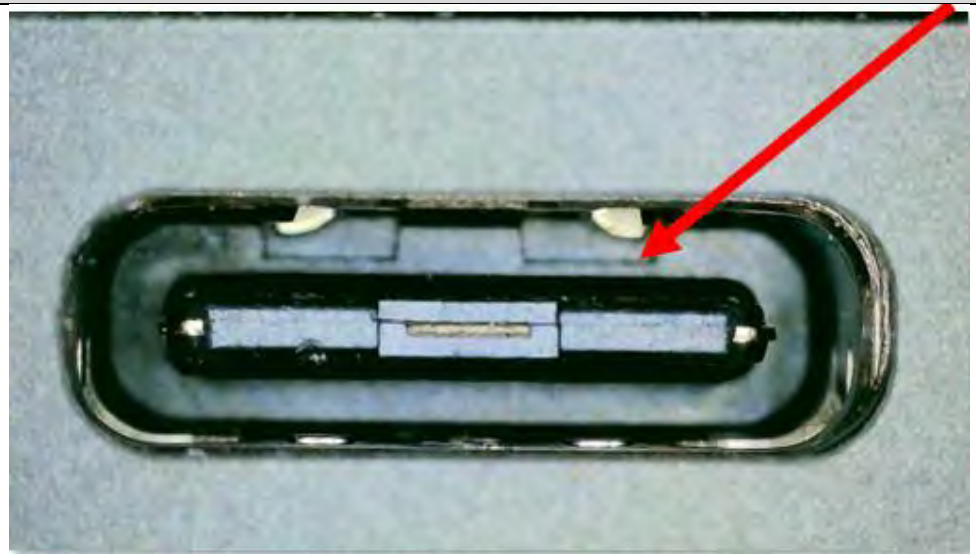
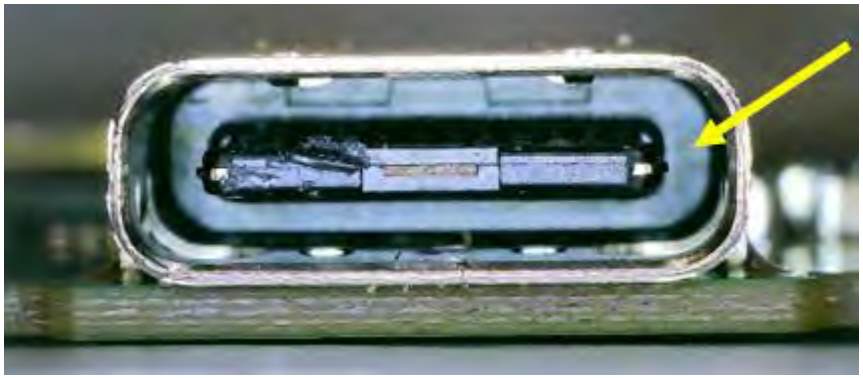
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

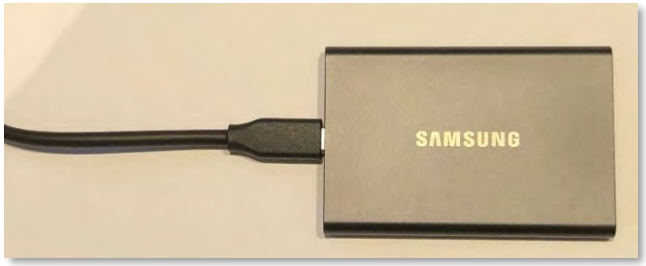
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)  (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

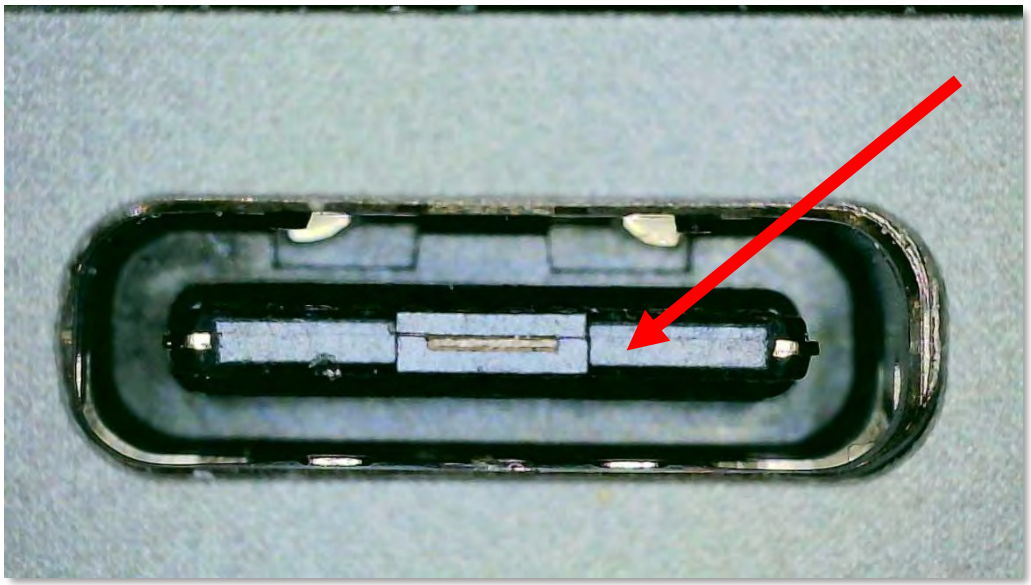
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
[**112E**] a tongue, which has a top side with a first surface with grooves, and bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The Samsung T7 includes a tongue. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

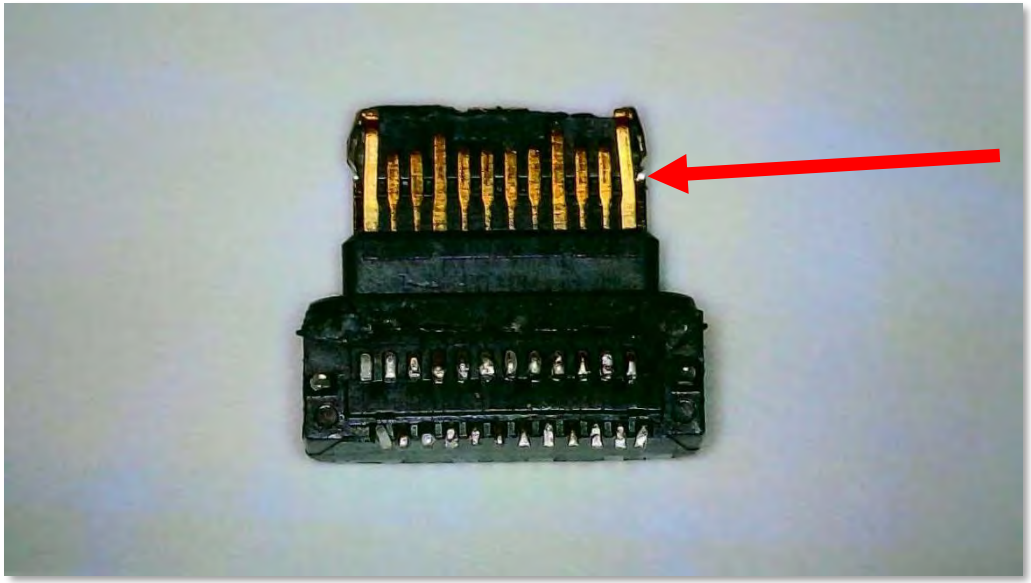
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

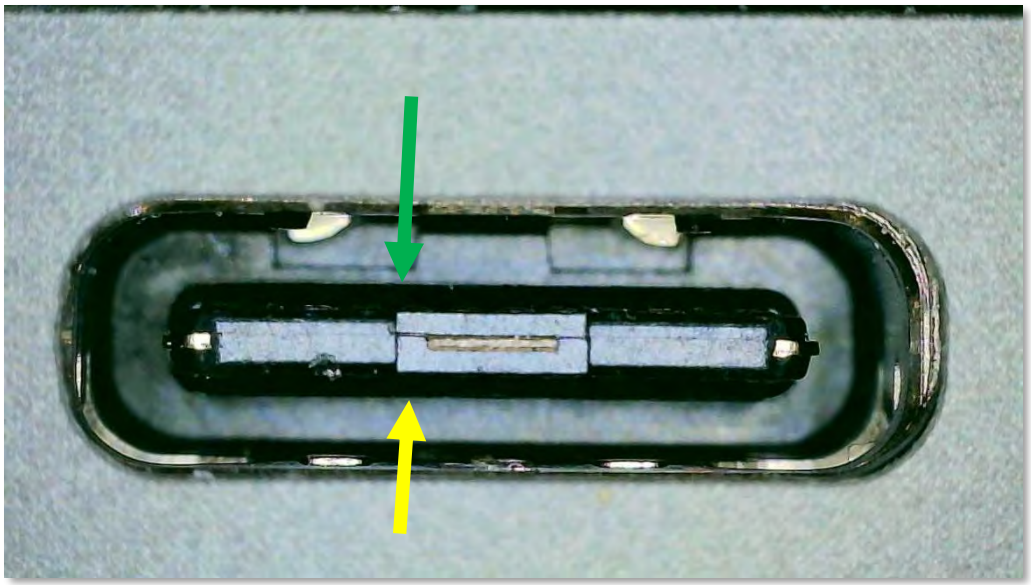
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

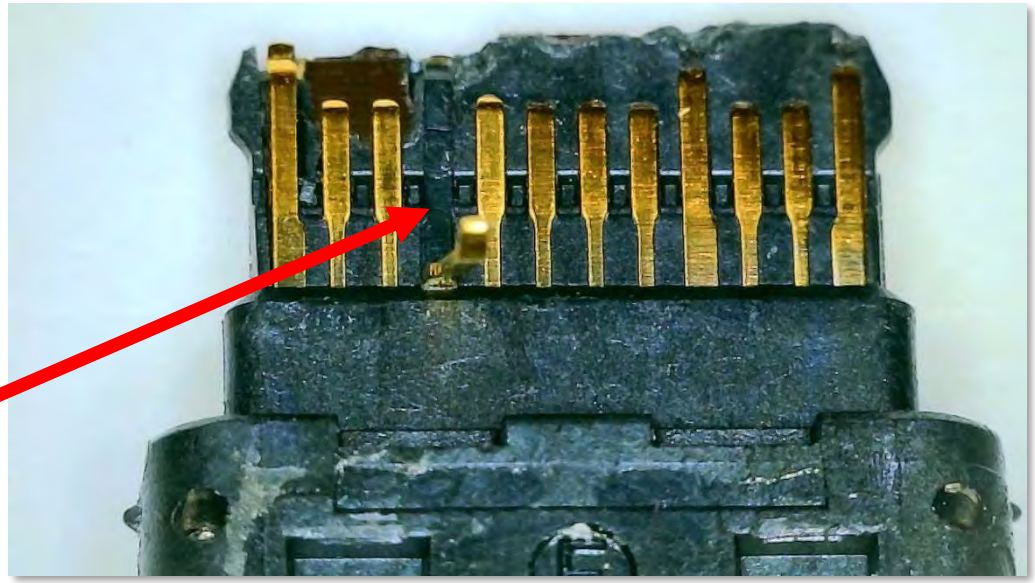
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponds to the side with the second surface as described in element [**34D**].
[**112F**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

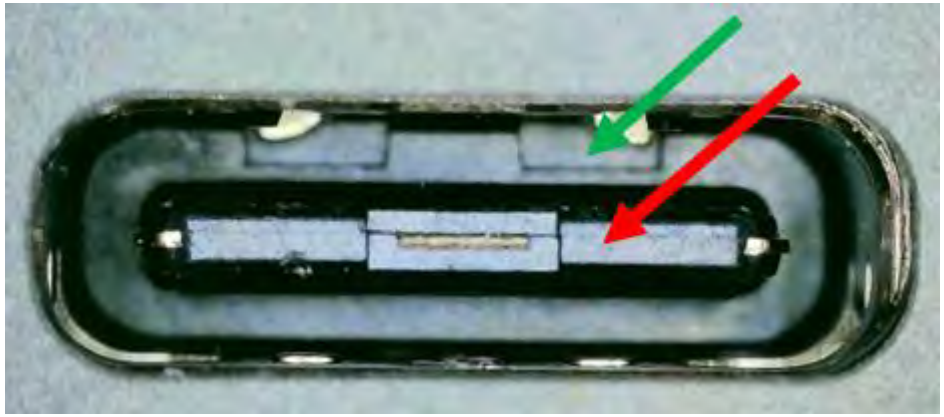
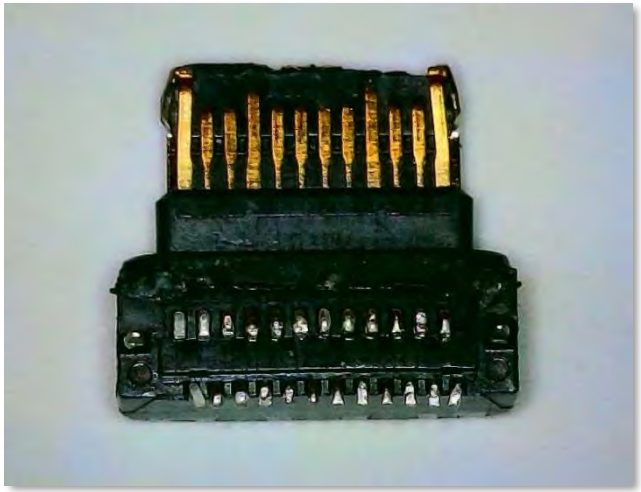
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
oppositely inserted and positioned into the connection slot based on an operational state when the socket structure is connected to the plug;	  The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

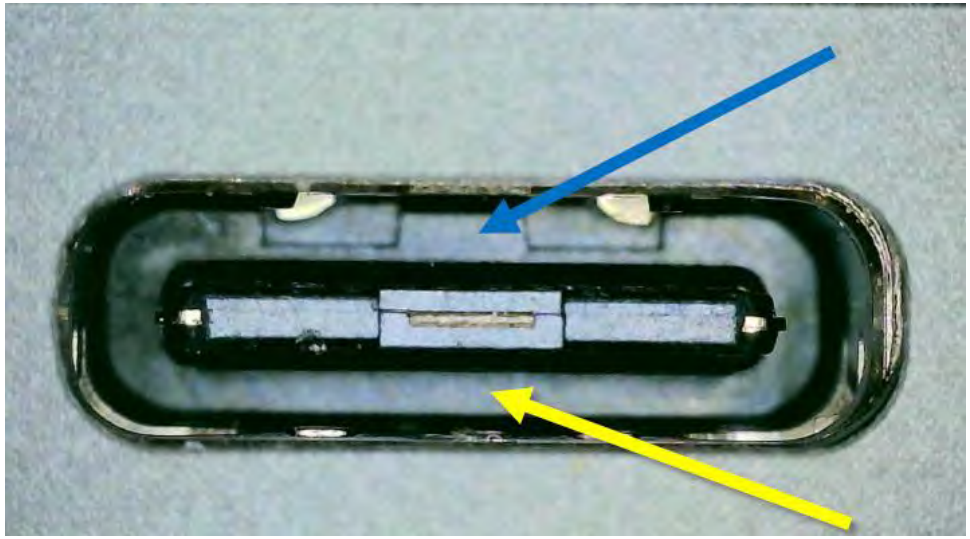
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**112G**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

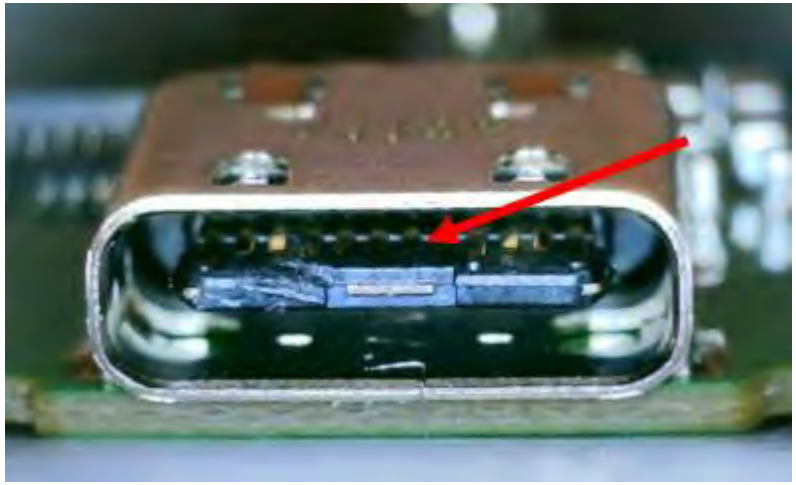
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

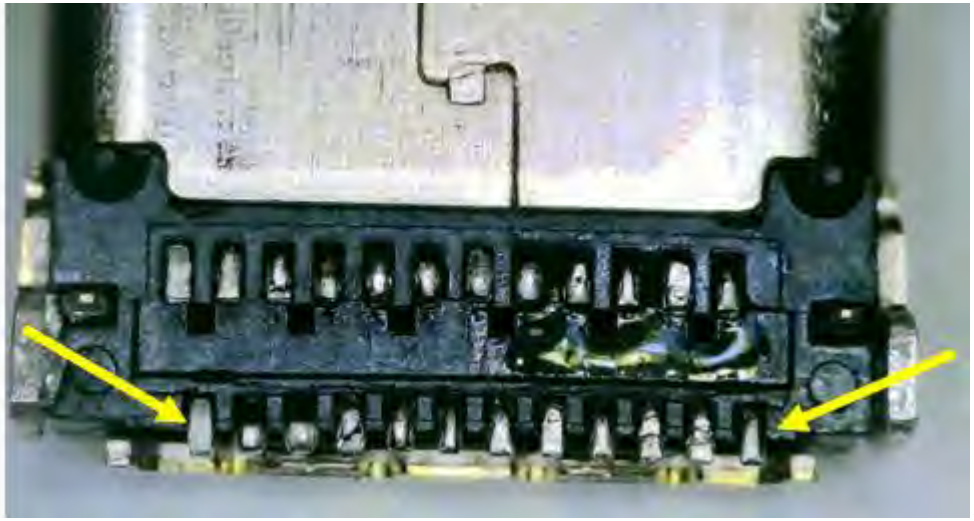
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).  (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34F**].
[**112H**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

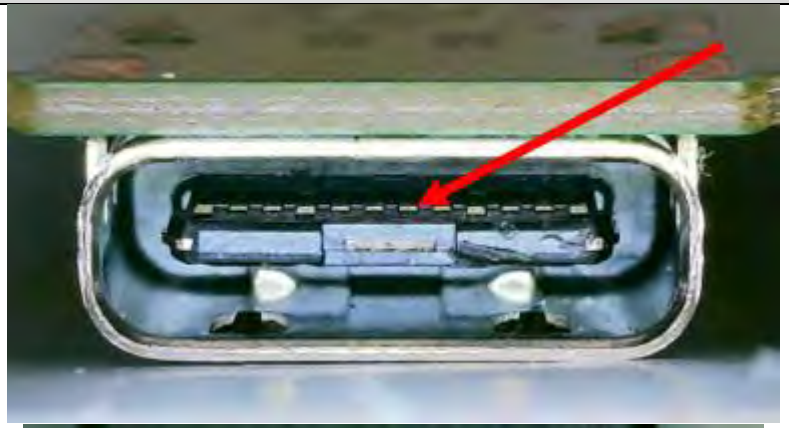
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34G**].
[**112I**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**112H**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

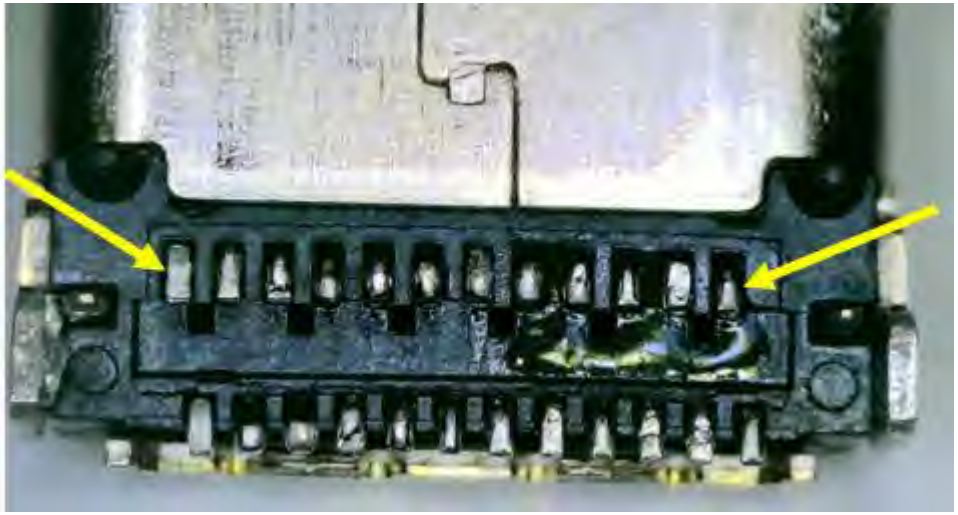
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34H**].
[**112J**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

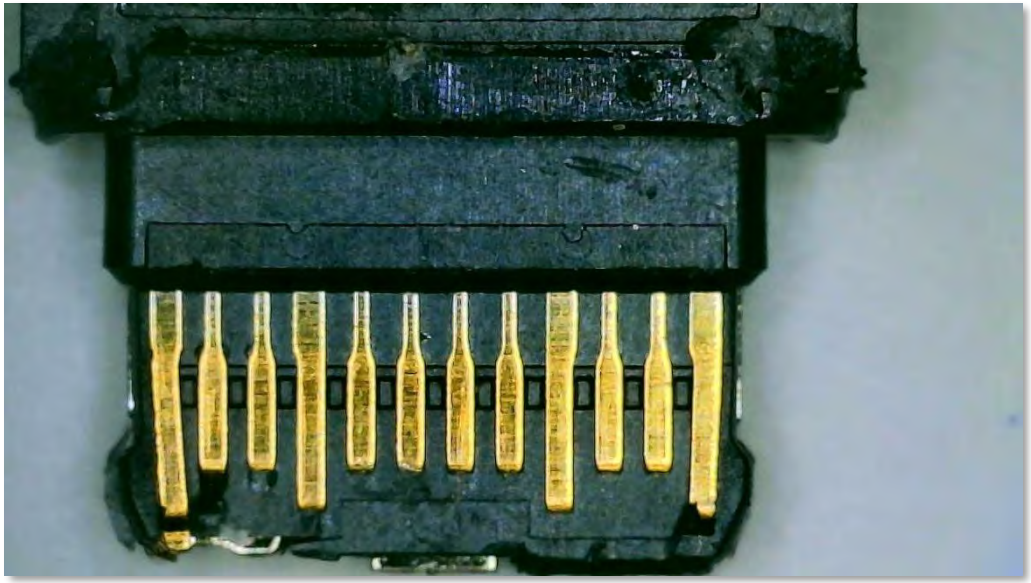
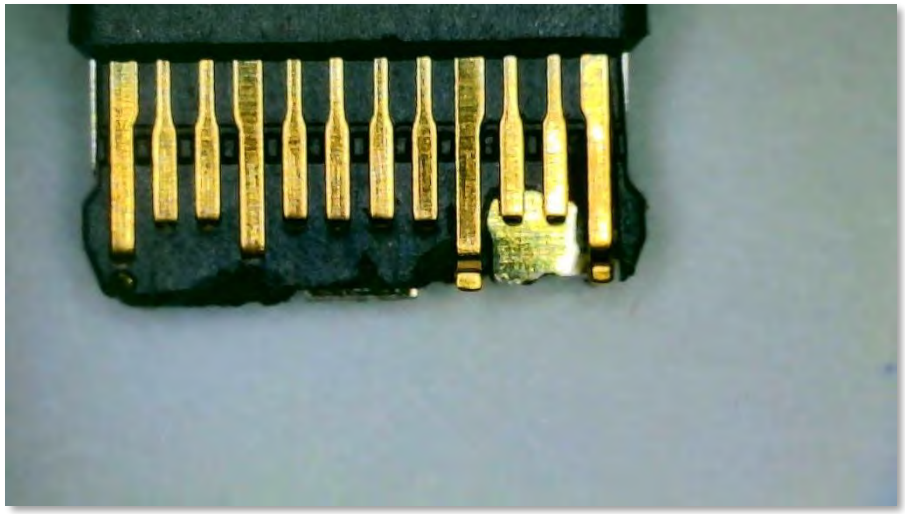
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported.

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**112K**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

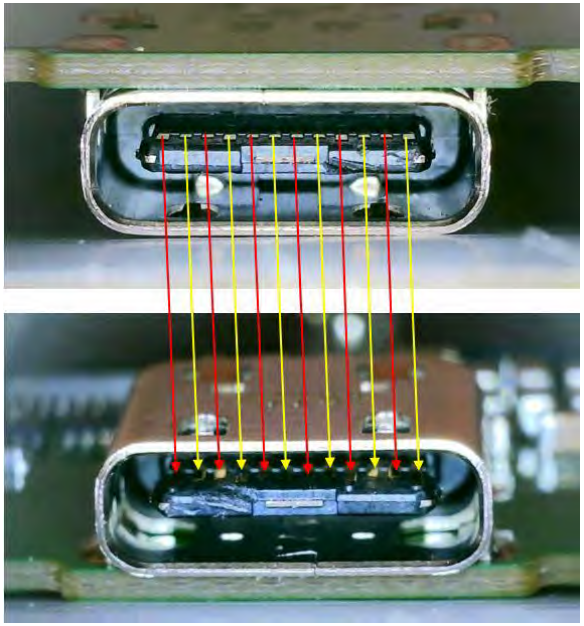
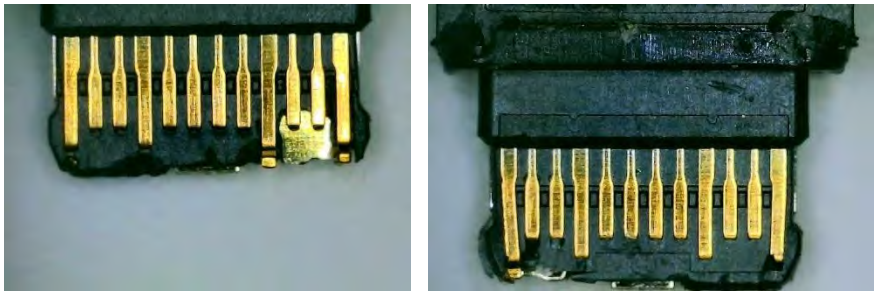
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
thereby configured for two separate operational states:	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.  In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement

Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**112L**] through [**112O**]. *See also* Element [**34J**].
[**112L**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed at a central location within the connection slot,	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

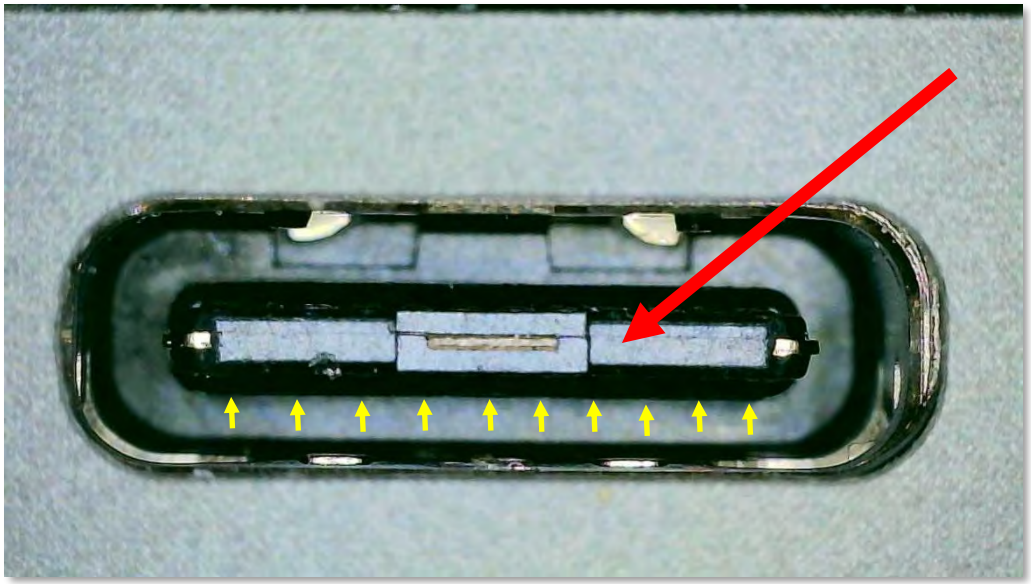
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals) The tongue is disposed at a central location within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

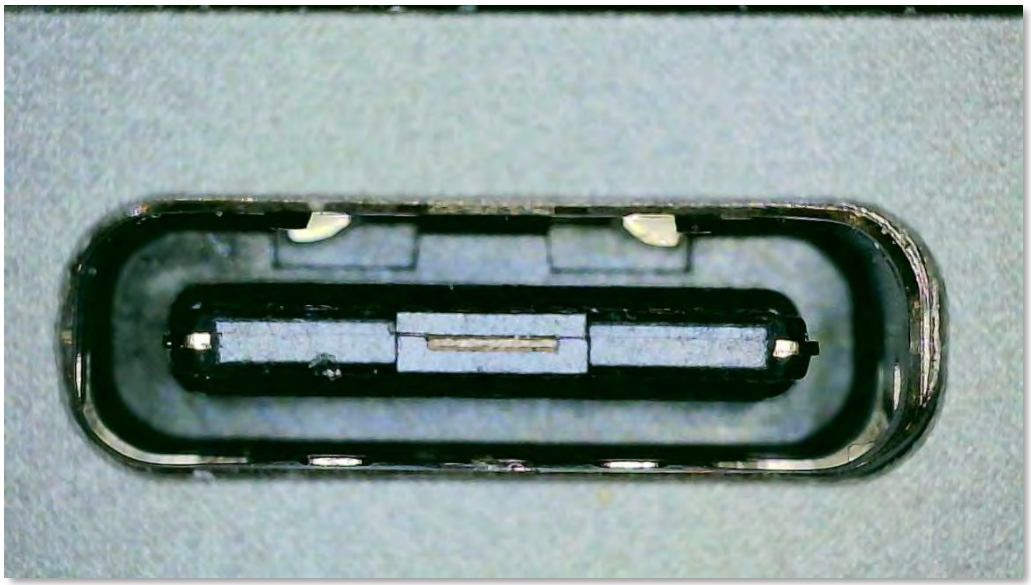
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**]
[**112M**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung T7 is configured for a first operational state as described above in connection with element [**34K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

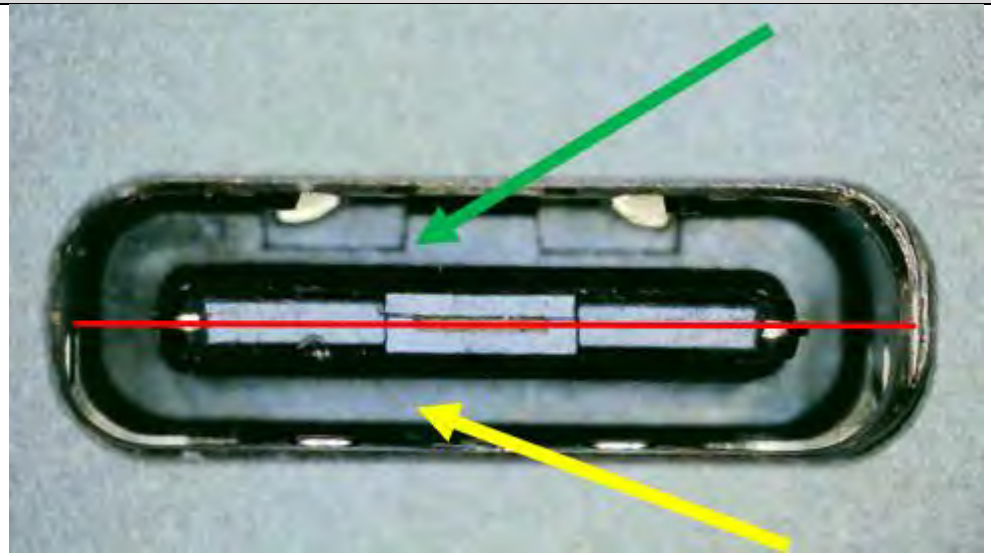
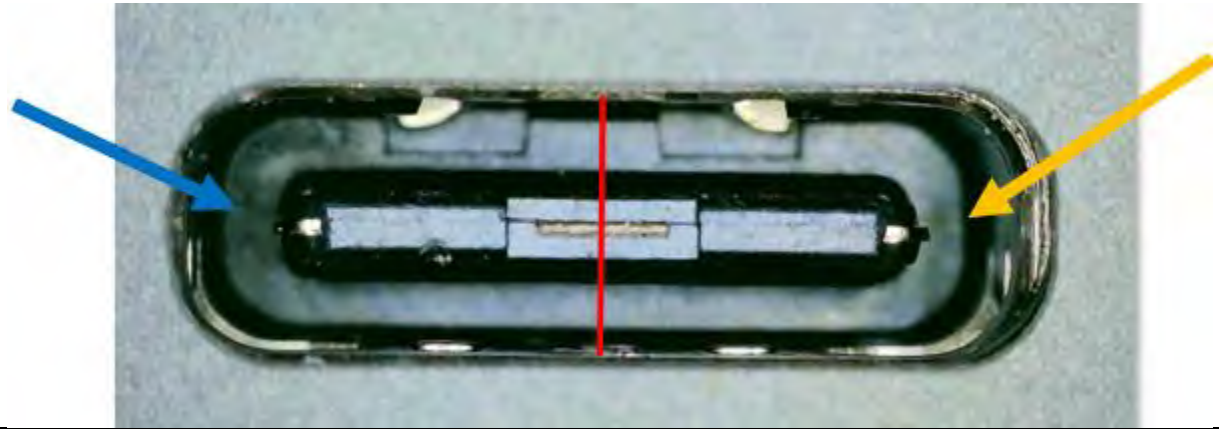
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by red lines, and are indicated by blue and orange arrows respectively, in the image below. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	See also Element [**34L**].
[**112N**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed at a central location within the connection slot,	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

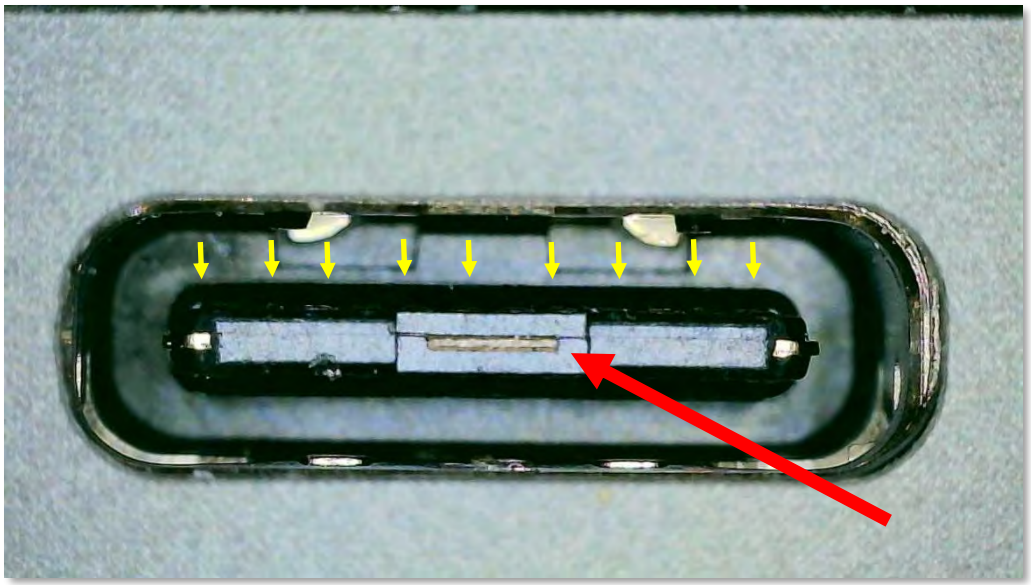
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 The tongue is disposed at a central location within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

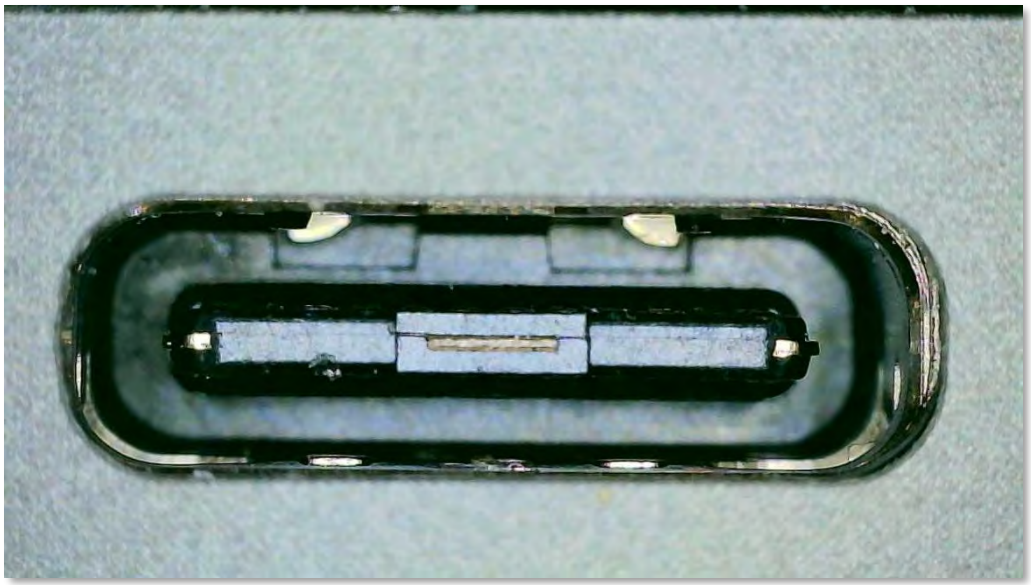
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**]
[**112O**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue,	In the second operational state, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**112M**]. *See also* Element [**34N**].
[**112P**] the socket structure is a	The Samsung Portable SSD T7 includes a socket structure that is a universal serial bus, or USB, socket structure.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
universal serial bus socket structure and	 *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

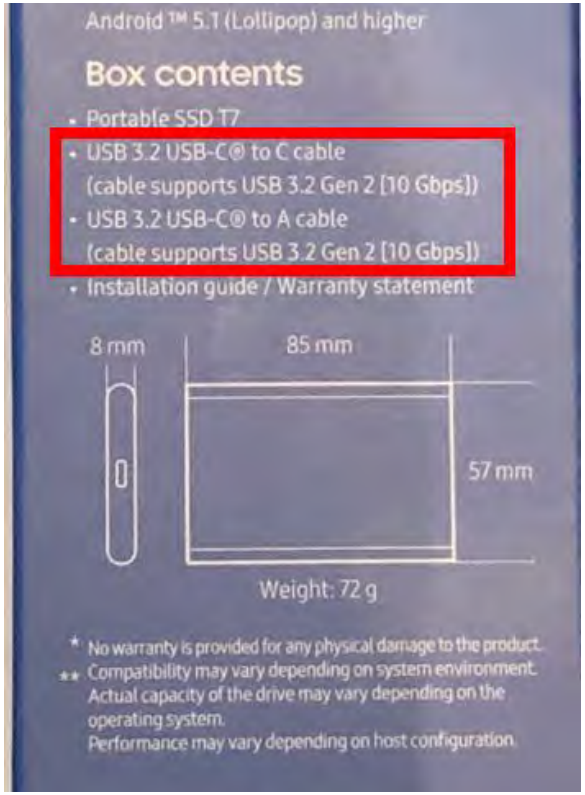
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung Portable SSD T7.) *See also* Elements [**34A**], [**40B**].
[**112Q**] each of the first contacts is electrically connected to the respective first pin	Each of the first contacts in the Samsung T7 is electrically connected to the respective first pins extending out of the plastic base. The first pins extend out of the plastic base through a rear cover.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

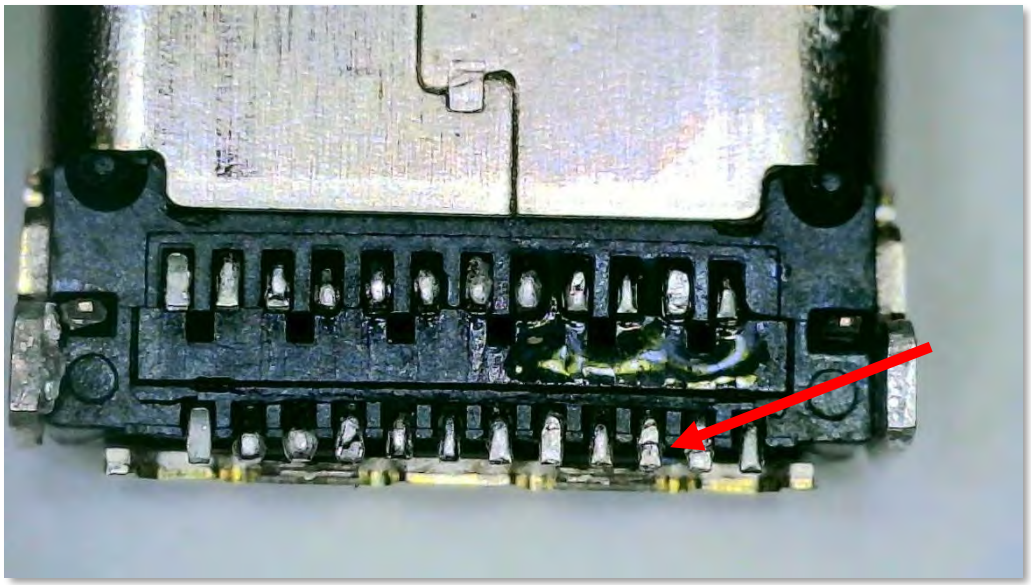
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
extending out of the plastic base through a rear cover, and each of the second contacts is electrically connected to the respective second pin extending out of the plastic base through the rear cover,	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB) Each of the second contacts is also connected to the respective second pin extending out of the plastic base. The second pins extend out of the plastic base through the rear cover.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

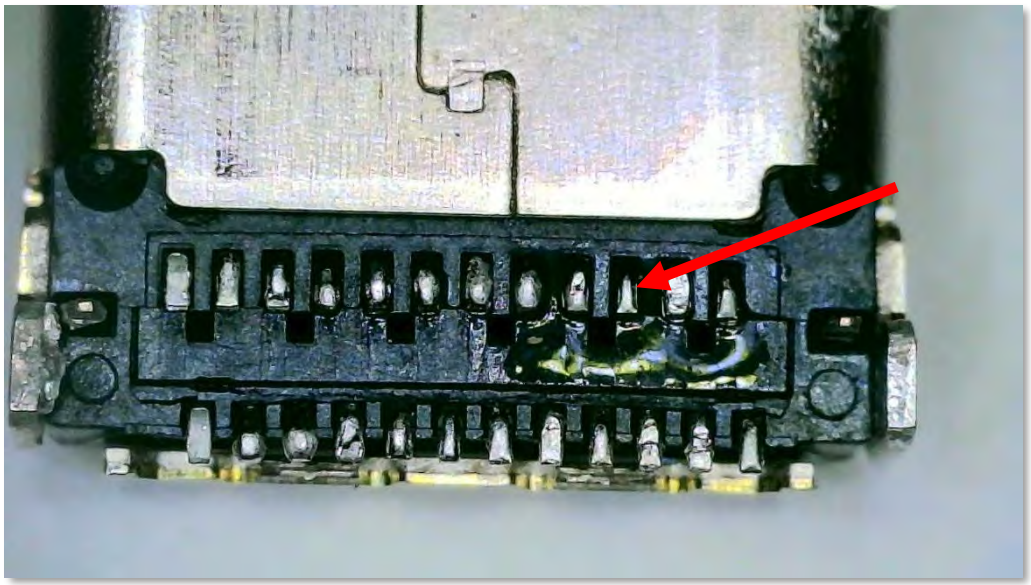
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

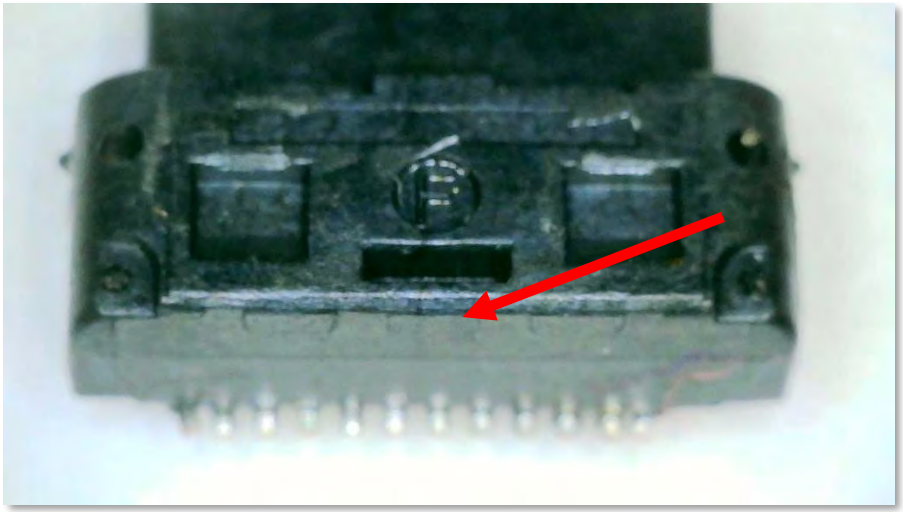
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**43B**]
[**112R**] the tongue only contacts an interior portion of the plug when the plug is inserted,	The tongue of the Samsung T7 only contacts an interior portion of the plug when the plug is inserted. In particular, the tongue of the Samsung T7 is designed to fit inside the USB plug such that the electrical contacts on the top and bottom of the tongue come into contact with the electrical contacts on the interior top and bottom of the USB plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

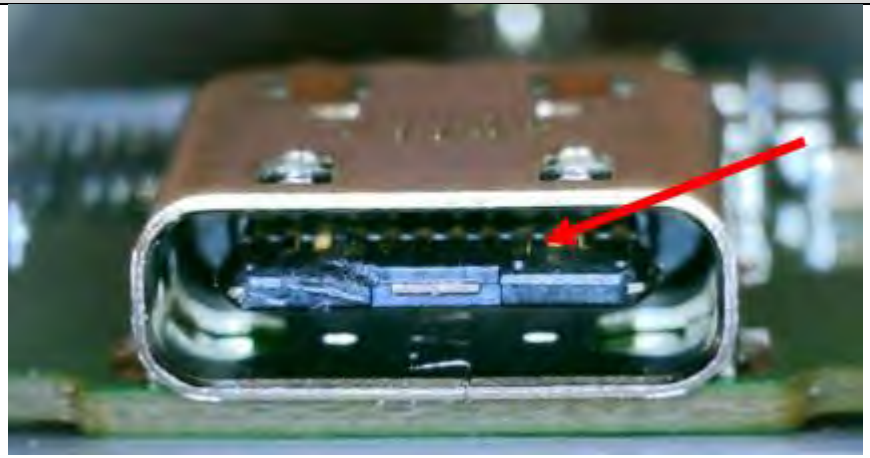
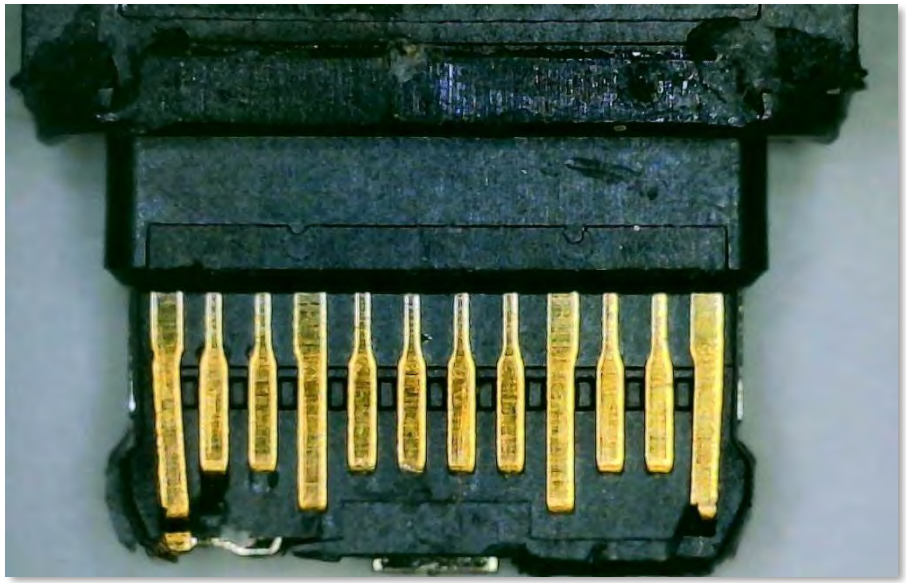
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	  (Images showing contacts on surface of tongue.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

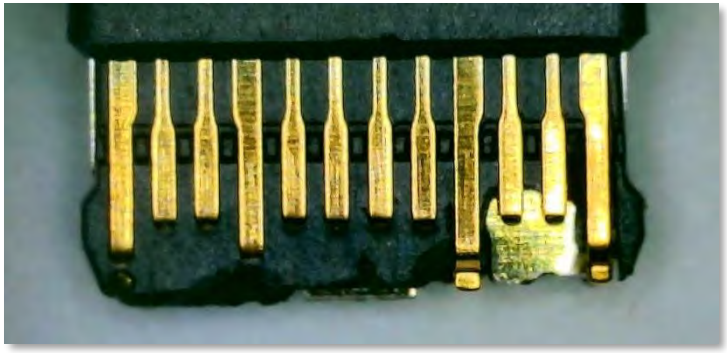
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**35B**].
[**112S**] each contact of the first and second contacts is connected to a portion of a respective terminal,	Each contact of the first and second contacts is a portion of a respective terminal. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

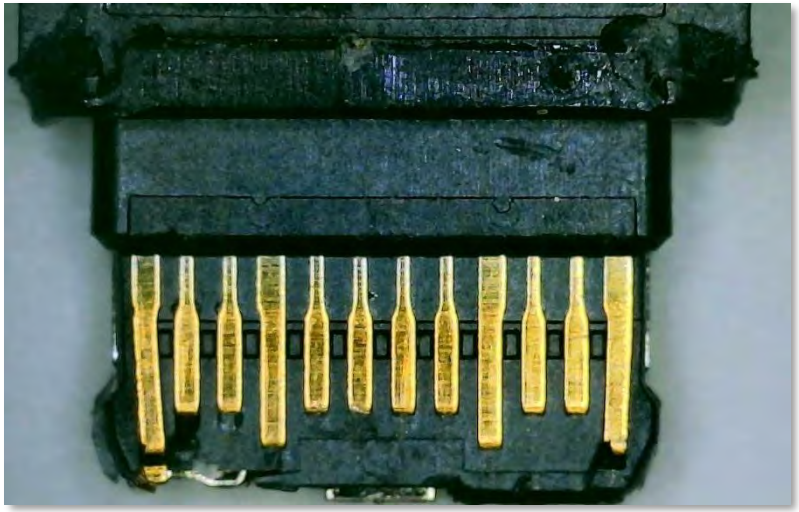
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**42B**].
[**112T**] the grooves in the first surface of the tongue each include at least a portion of respective ones of the first contacts,	At least a portion of the first contacts of the Samsung T7 is at least partially included in the first surface with grooves.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

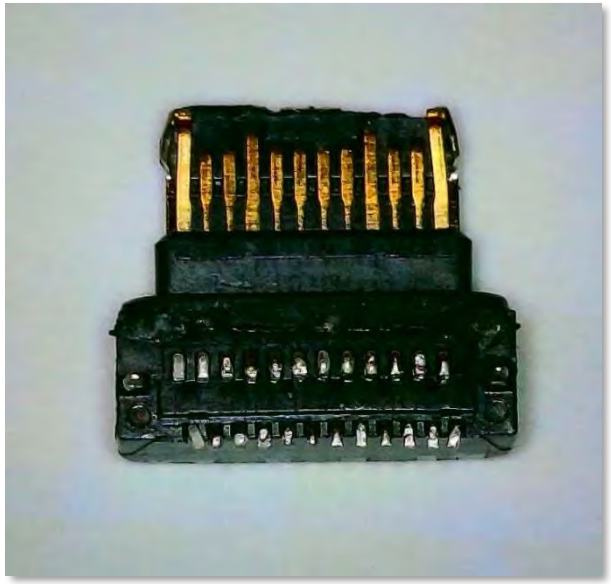
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

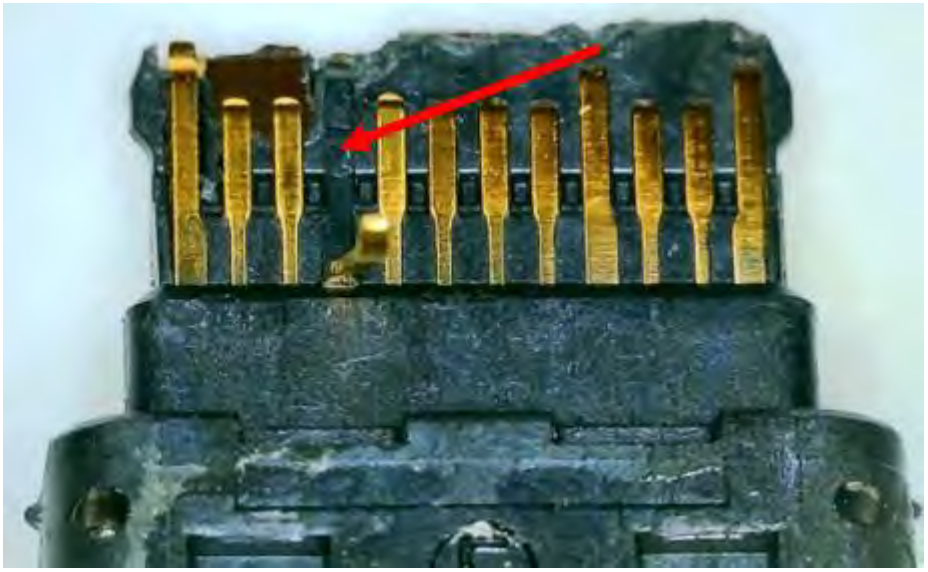
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 *See also* Elements [**34D**], [**53B**].
[**112U**] the grooves in the second surface of the tongue each include at least a portion of respective ones of the second contacts,	At least a portion of the second contacts of the Samsung T7 is at least partially included in the second surface with grooves.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

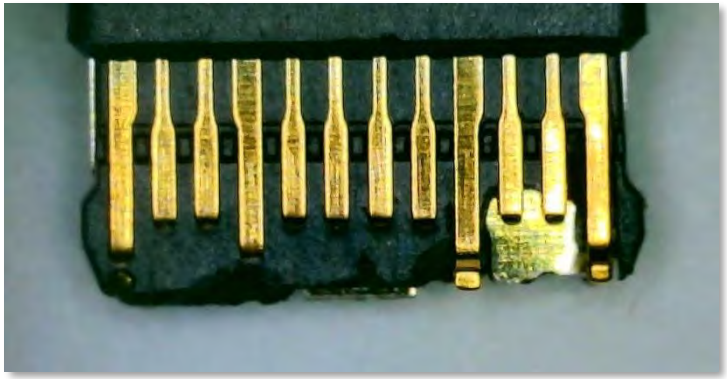
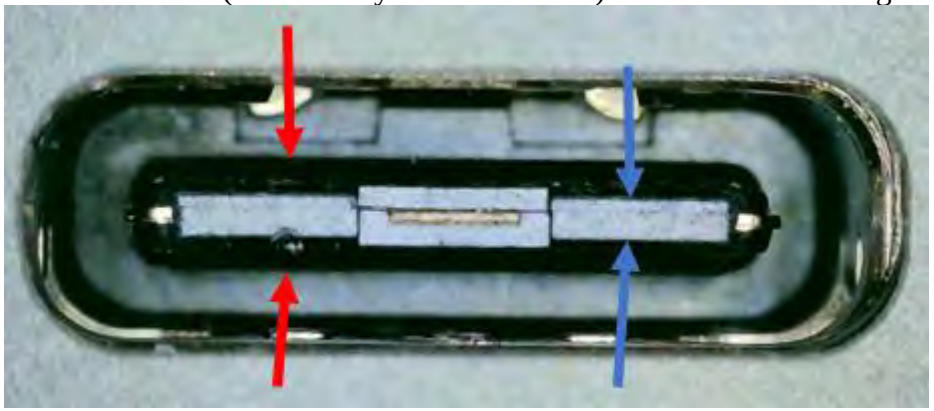
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 *See also* Elements [**34D**], [**54B**].
[**112V**] a portion of the tongue opposite the plastic base is tapered,	The Samsung T7 includes a tapered tongue. In particular, the tongue tapers from a wider width (indicated by the red arrows) to a narrower width (indicated by the blue arrows) at the face of the tongue.  *See also* Element [**64B**].
[**112W**] a thickness of the tongue, in at least one portion, is less than third of a	The included USB-C cable is advertised as compliant with the USB-C standard and, on information and belief, the socket structure of the Samsung T7 is compliant with the USB-C standard so as to be able to connect with the USB-C cable plug. *See also* Element [**34A**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
height of the connection slot, and	 (Image from box for Samsung T7.) The USB-C standard specifies that the width of the tongue is 0.7 mm and that the width of the receptacle is at least 2.5 mm, meaning that the thickness of the tongue is less than a third of the thickness of the connection slot (0.7/2.5=0.28<0.33).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

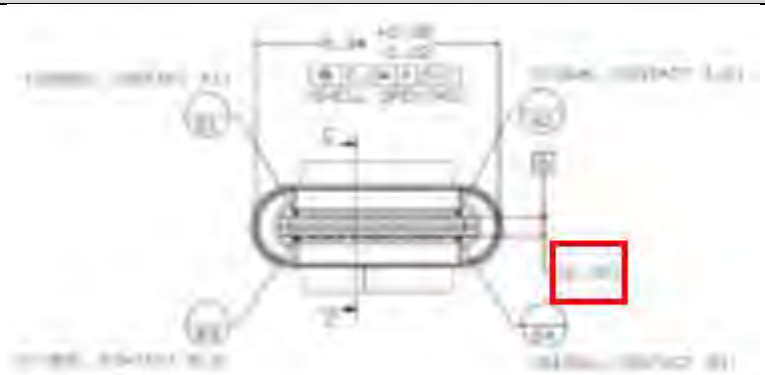
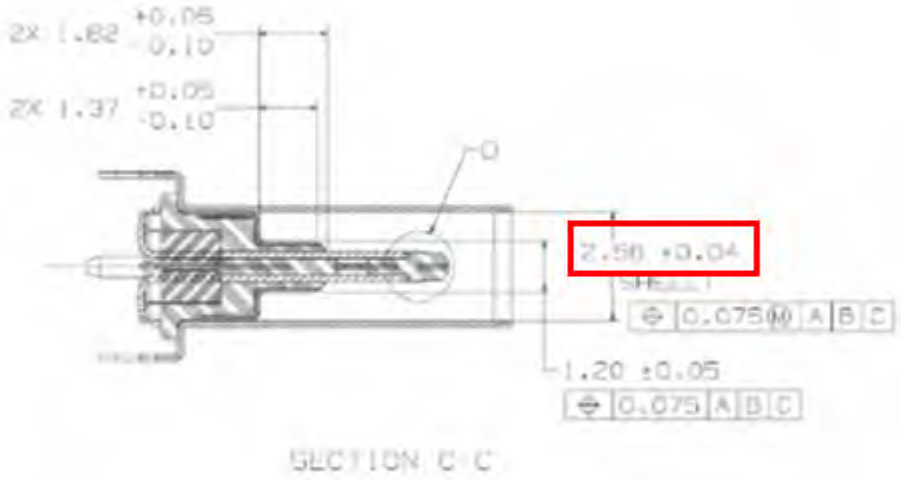
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	Id.  *Id.* Furthermore, testing confirms that the thickness of the tongue is less than a third of a height of the connection slot. *See also* Element [**36B**].
[**112X**] the tongue has chamfered edges on two opposite sides of the tongue.	The Samsung T7 includes a tongue with chamfered corners on the right and left sides of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

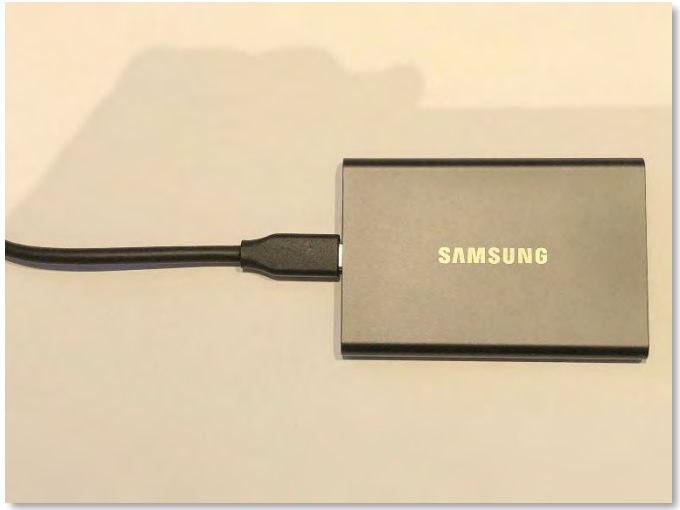
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**63B**].
[**113A**] An electrical connection socket and plug comprising	The Samsung Portable SSD T7 is sold with a USB-C cable (which includes a USB-C plug). 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

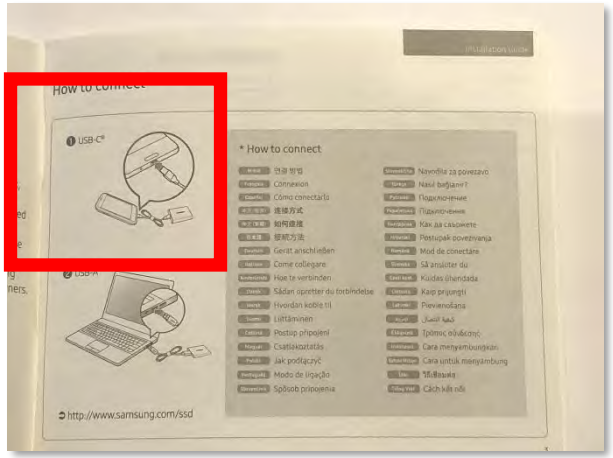
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	Samsung provides an installation guide showing how to connect the Samsung Portable SSD T7 to a USB-C or USB-A port (e.g., on a computer or smartphone) via the included USB-C to USB-C and USB-A cables. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

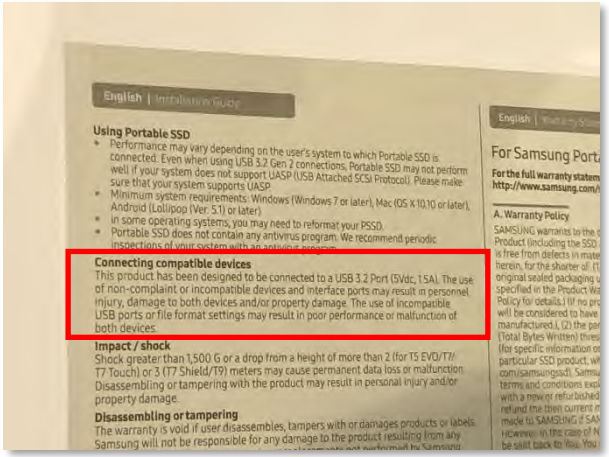
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 Indeed, the entire purpose of the Samsung Portable SSD T7 is to be connected to an external device via a USB-C cable connected to the socket structure to allow information to be transferred to and from the external device. *See also* Element [**55A**]
[**113B**] the socket structure of claim 112 and	This product includes a socket structure as described in claim 112 as described above in connection with elements [**112A**] through [**112X**].
[**113C**] the plug,	The Samsung Portable SSD T7 is sold with, designed to be compatible with, and specifically intended to be connected to a USB-C plug for transferring information to and from an external device, as described above in connection with element [**55A**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

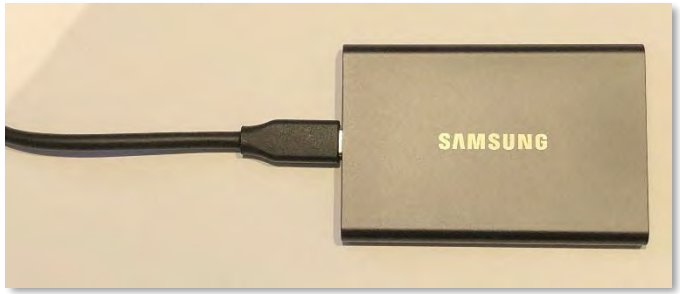
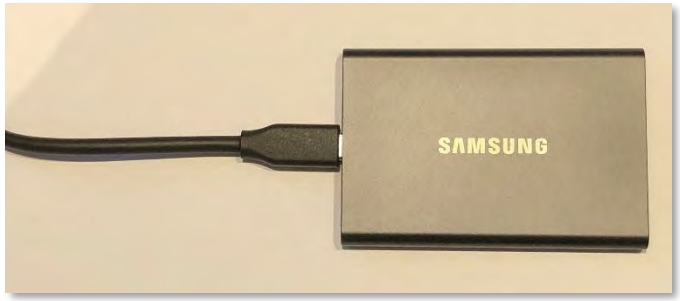
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 *See also* Elements [**55C**], [**109C**].
[**113D**] wherein the socket structure is operatively connected to the plug, and	When a plug is inserted into the socket structure, the socket structure is operatively connected to the plug.  Samsung provides an installation guide showing how to connect the Samsung Portable SSD T7 to a USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 Indeed, the entire purpose of the Samsung Portable SSD T7 is to connect to a USB-C cable via the socket structure to allow information to be transferred to and from the Samsung T7 via the socket. *See also* Elements [**48B**], [**109D**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

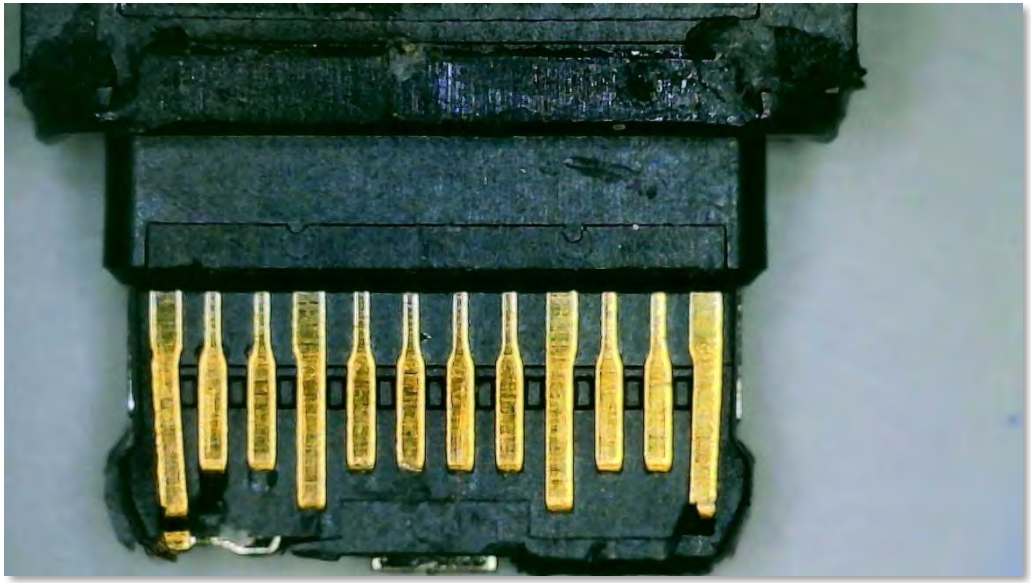
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
[**113E**] wherein the socket structure is operative to simultaneously electrically connect via the first and second contacts.	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

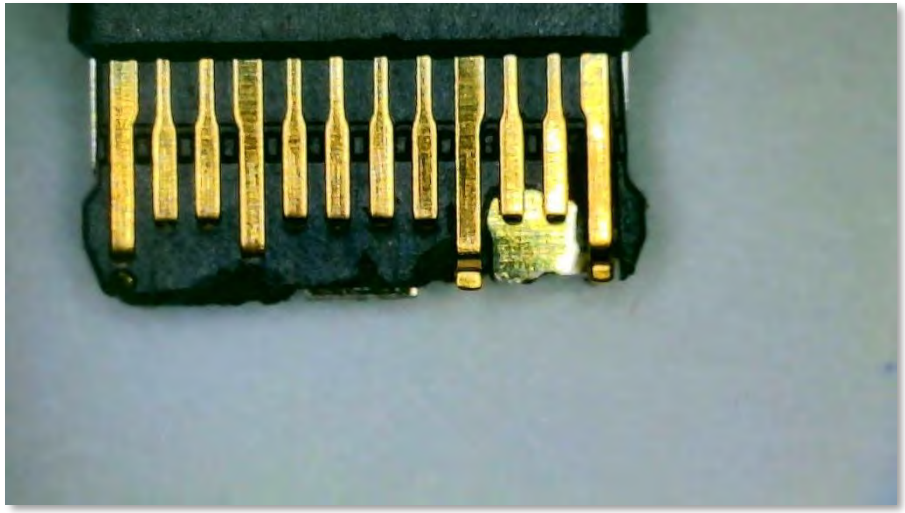
Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 112 and 113 of the '307 Patent	Evidence of Infringement
	Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Elements [**34I**], [**109E**]

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
[**114A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

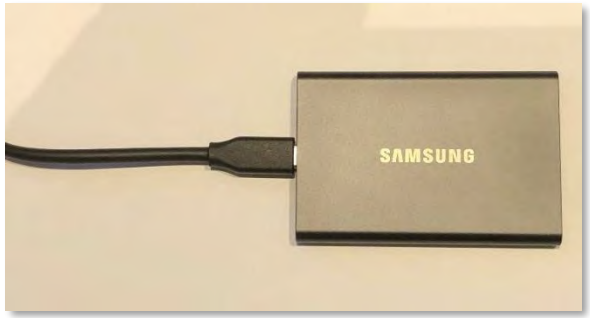
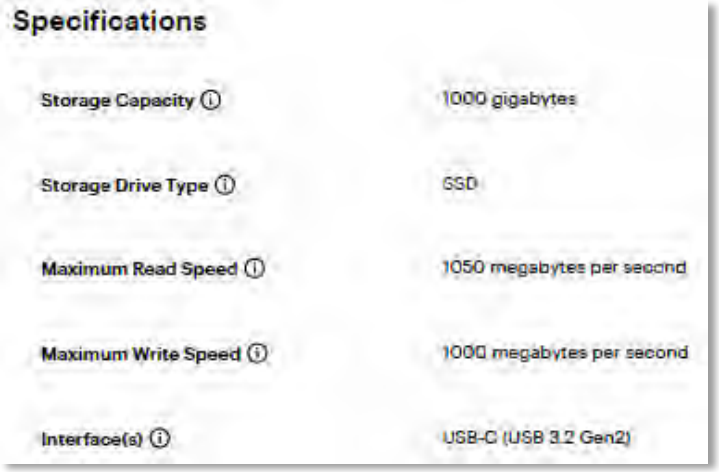
Claim 114 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**114B**] through [**114N**]. *See also* Element [**34A**].
[**114B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

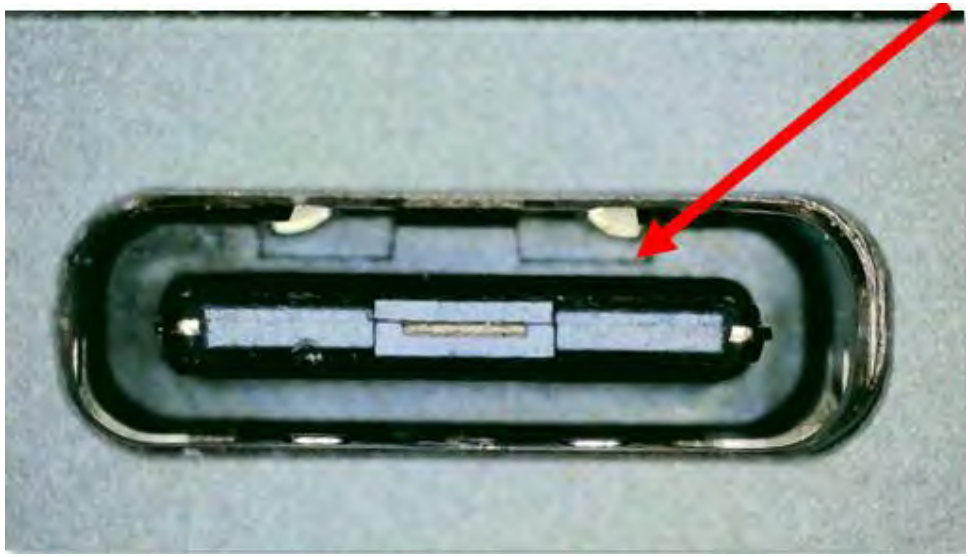
Claim 114 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34B**].
[**114C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

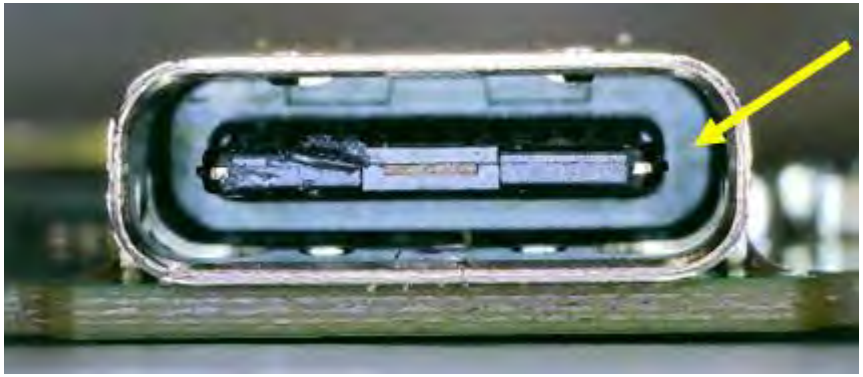
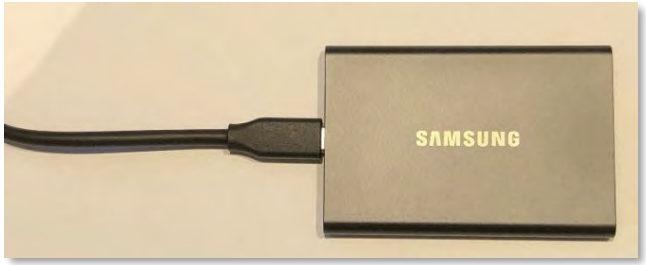
Claim 114 of the '307 Patent	Evidence of Infringement
	The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow.  The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**114D**] a tongue, which has a first surface and a second surface disposed opposite the first surface and	The Samsung T7 includes a tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	  The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

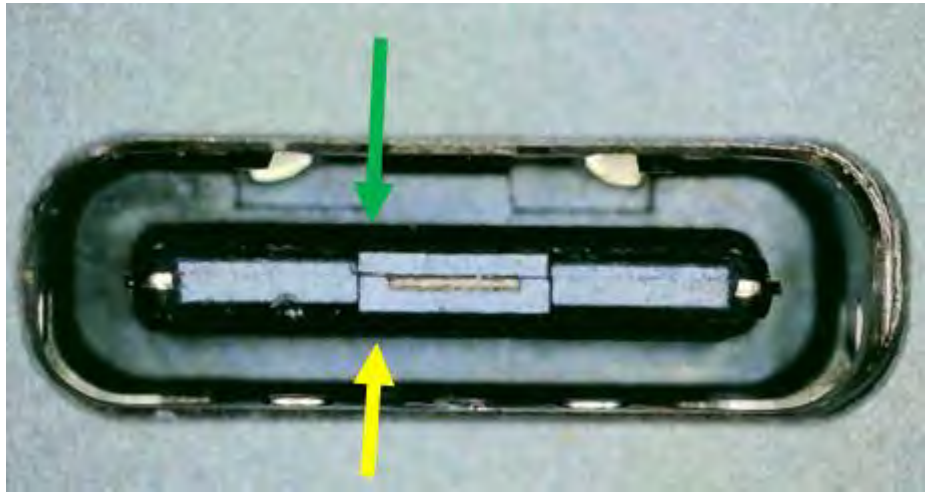
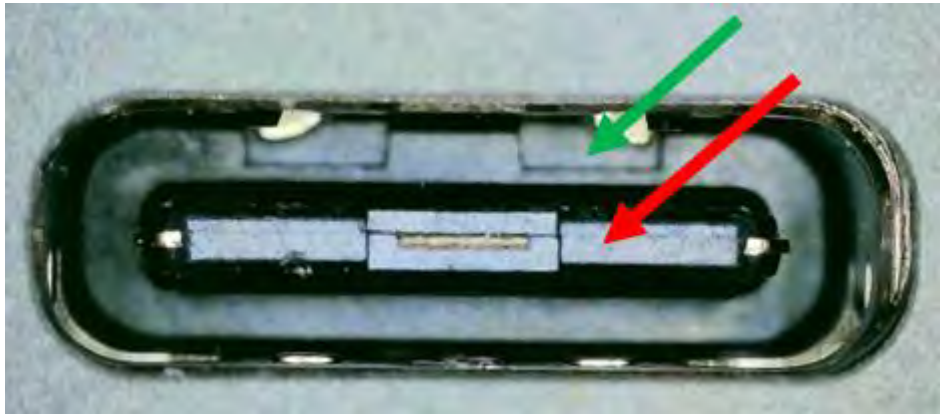
Claim 114 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**].
[**114E**] is disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot based on an	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

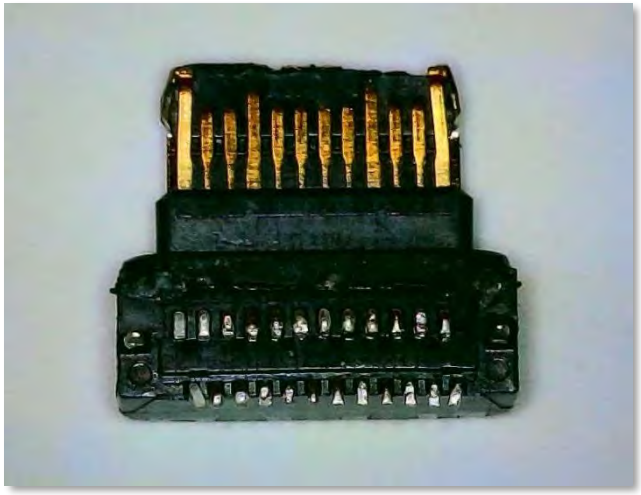
Claim 114 of the '307 Patent	Evidence of Infringement
operational state when the socket structure is connected to the plug;	 The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

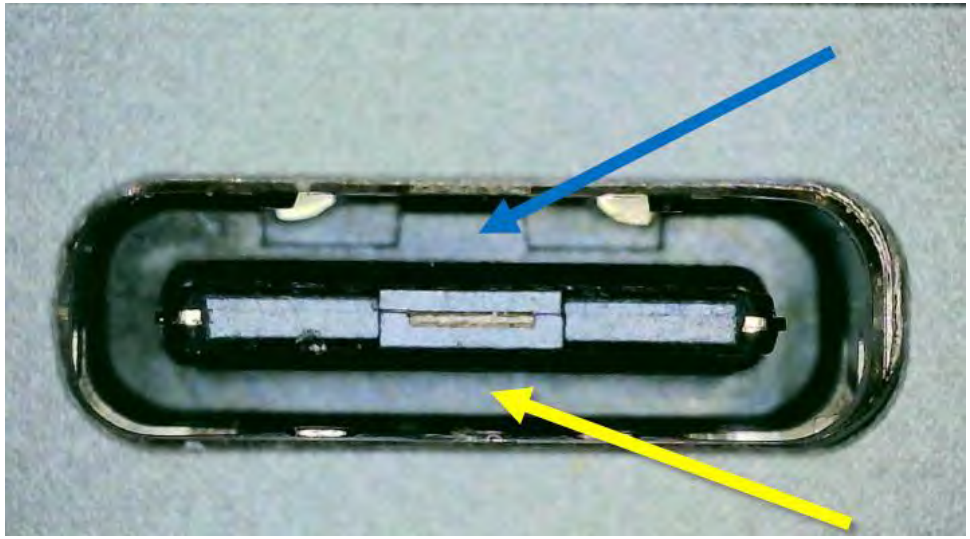
Claim 114 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**114F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

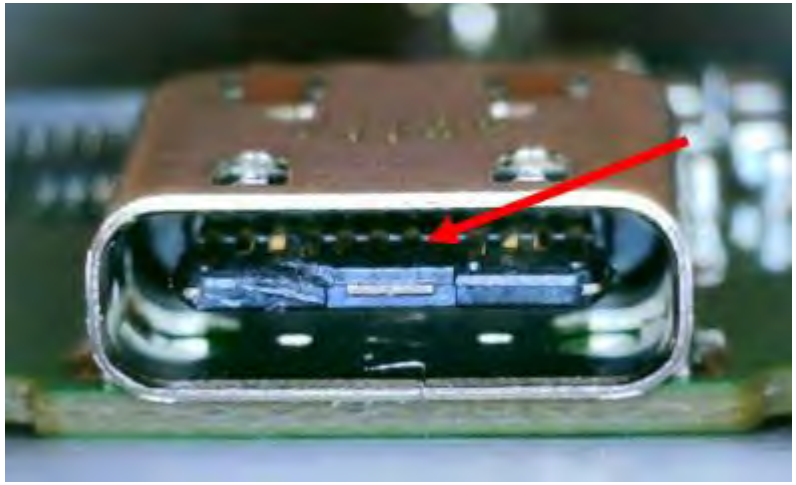
Claim 114 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

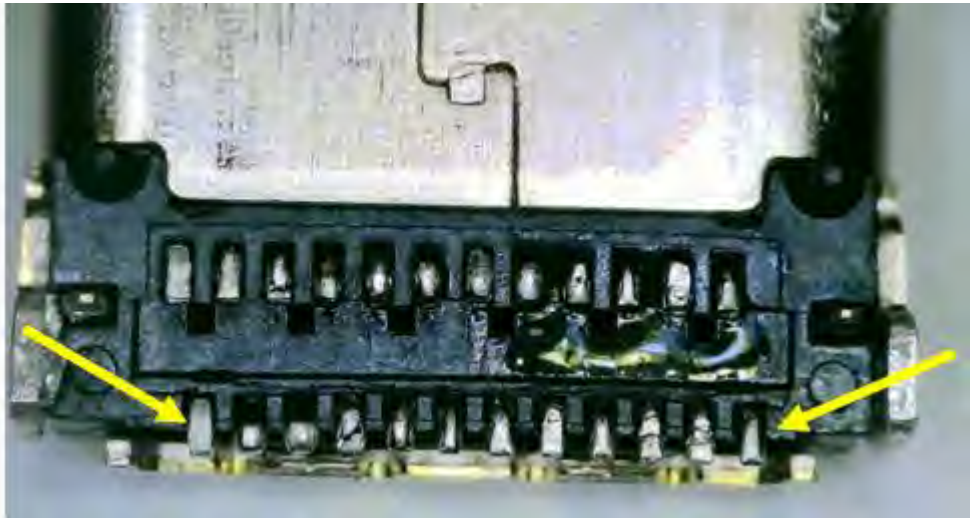
Claim 114 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).  (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34F**].
[**114G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

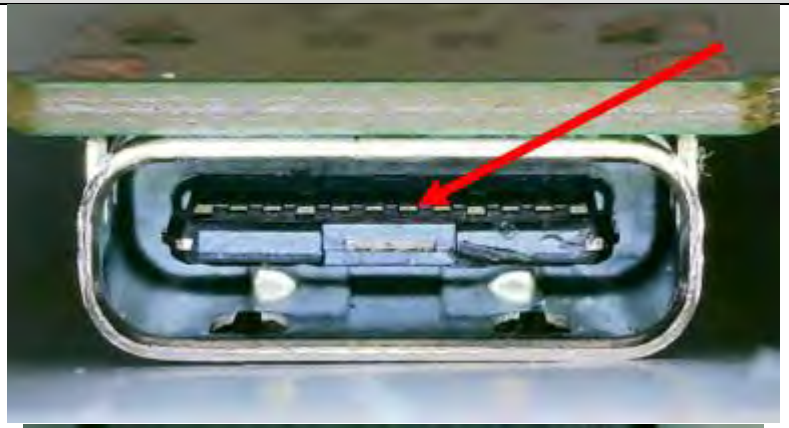
Claim 114 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34G**].
[**114H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**114G**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

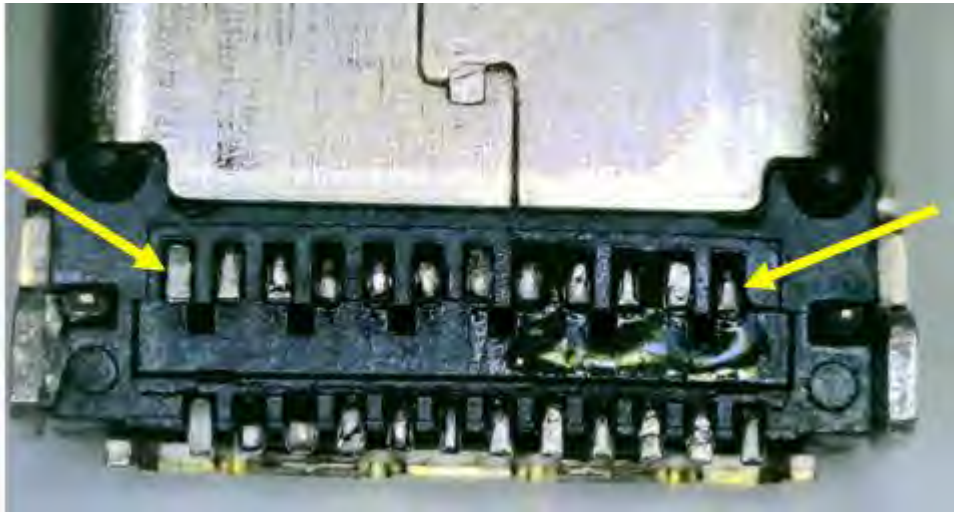
Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34H**].
[**114I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

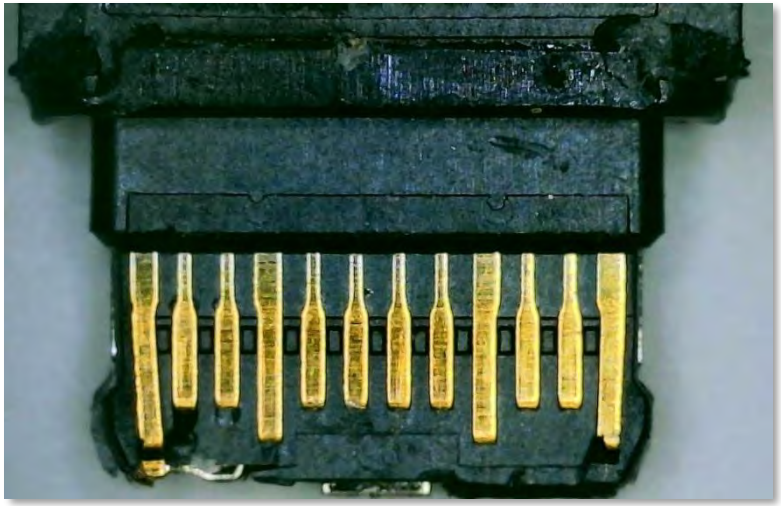
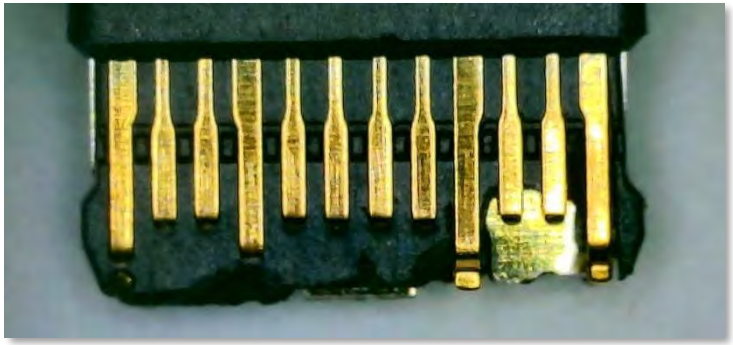
Claim 114 of the '307 Patent	Evidence of Infringement
	  The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**114J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

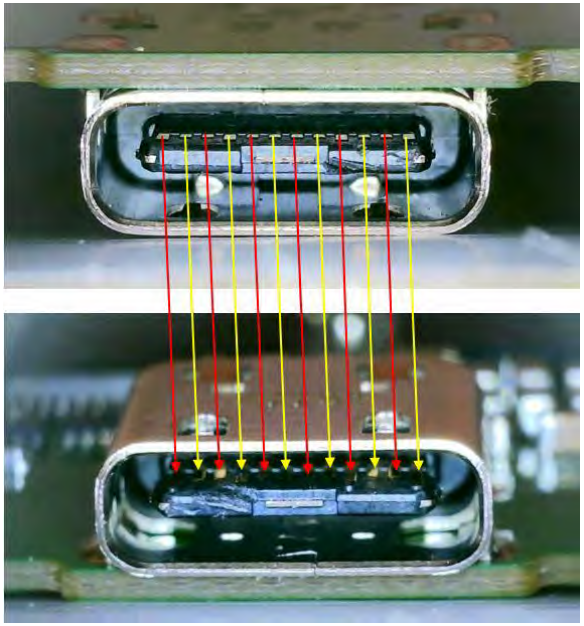
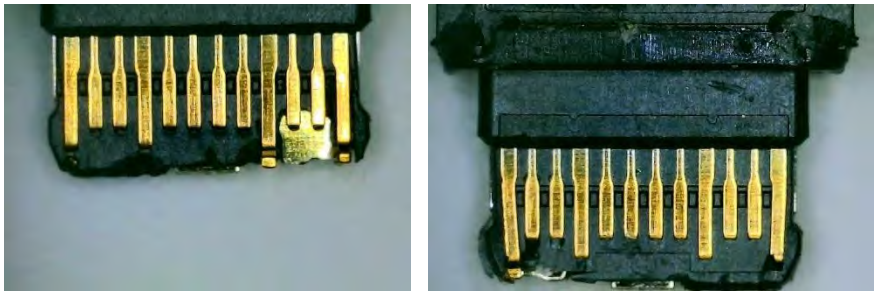
Claim 114 of the '307 Patent	Evidence of Infringement
	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.  In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement

Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**114K**] through [**114N**]. *See also* Element [**34J**].
[**114K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is centrally located within the connection slot,	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

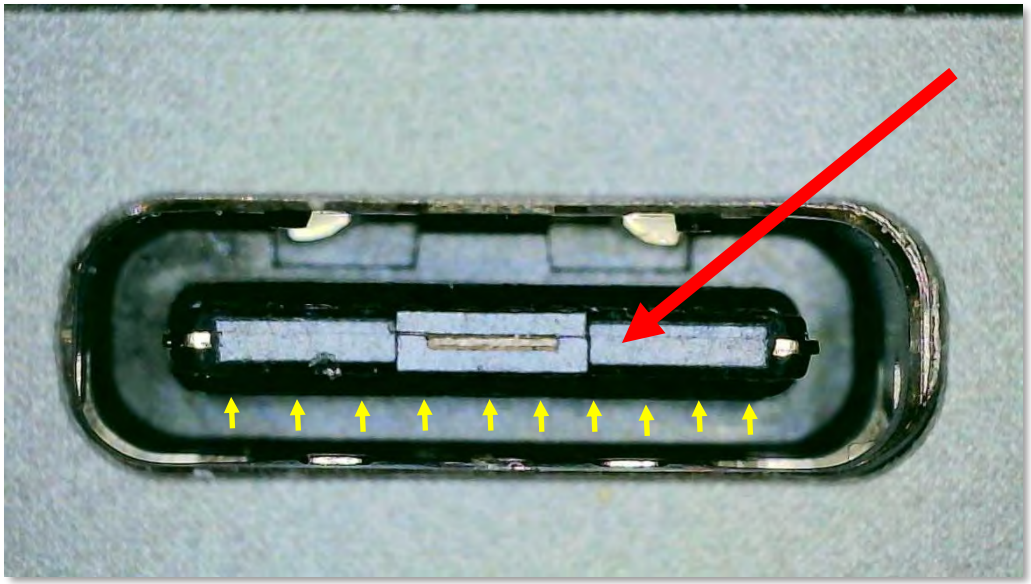
Claim 114 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals) The tongue is centrally located within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

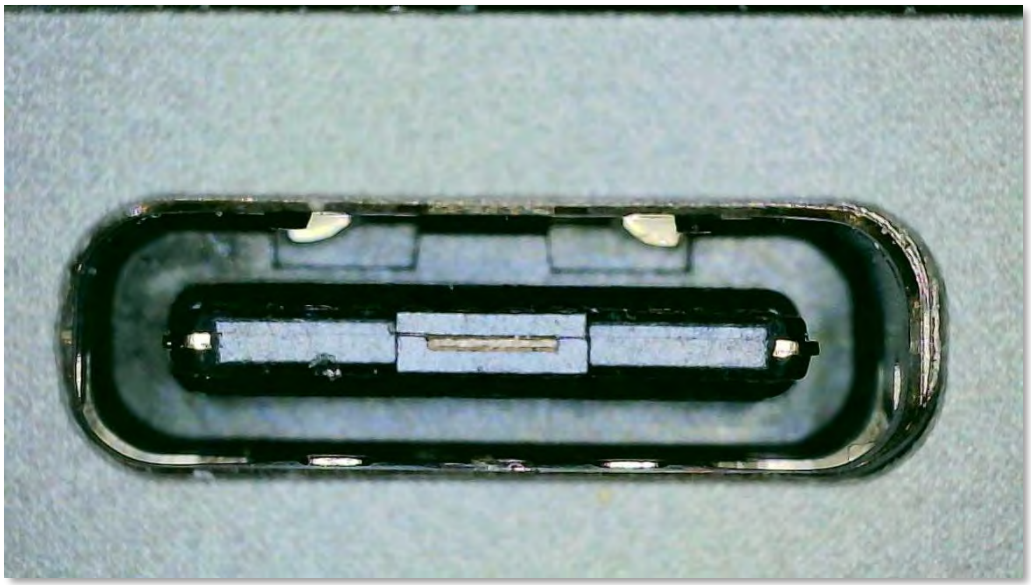
Claim 114 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**]
[**114L**] wherein the connection slot is symmetric with up, down, left and right chambers around the tongue; and	The Samsung T7 is configured for a first operational state as described above in connection with element [**114K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

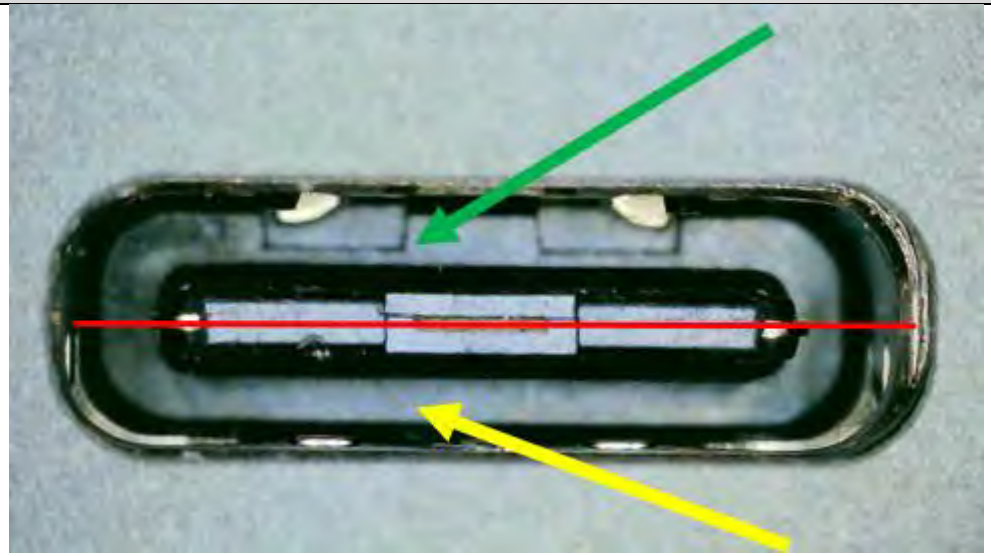
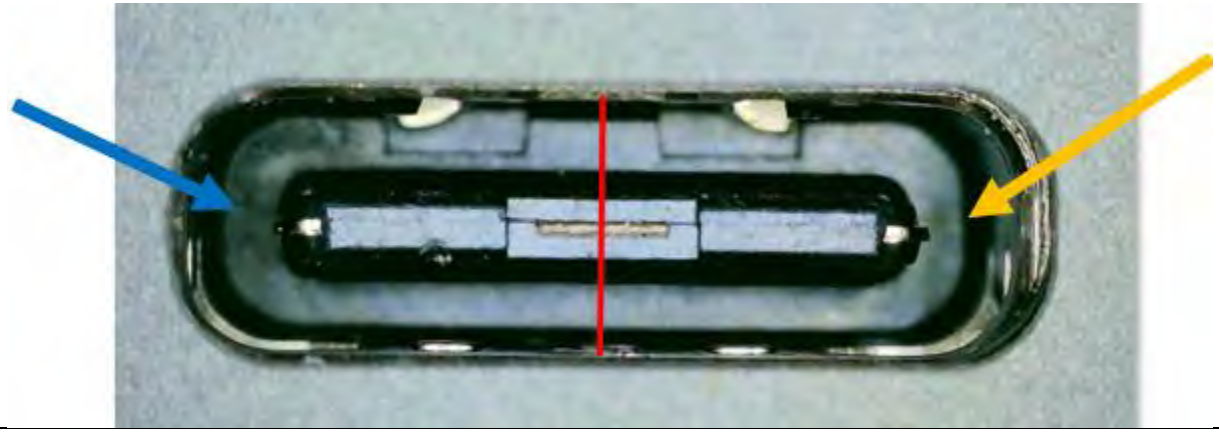
Claim 114 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by red lines, and are indicated by blue and orange arrows respectively, in the image below. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	See also Element [**34L**].
[**114M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is centrally located within the connection slot,	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

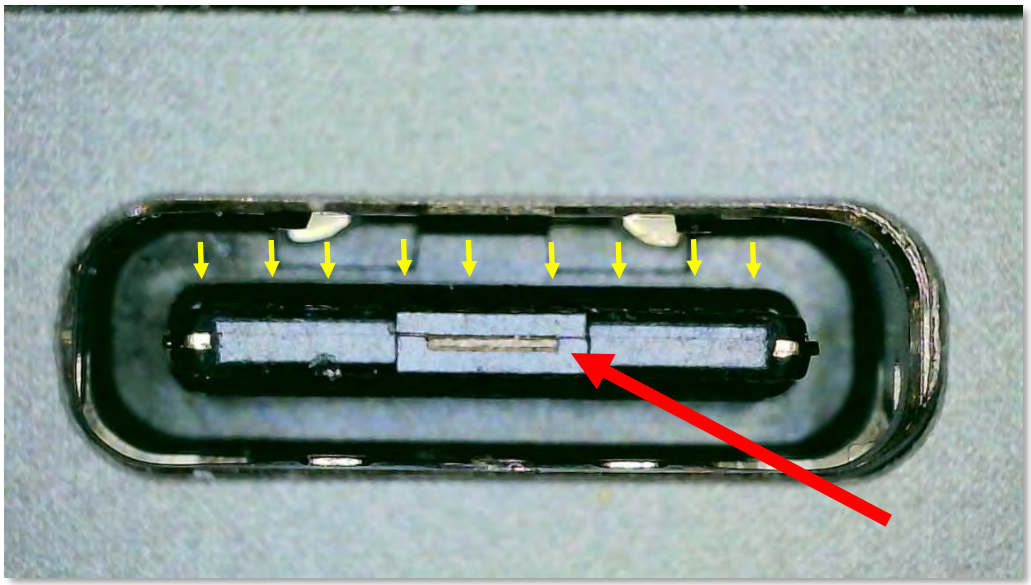
Claim 114 of the '307 Patent	Evidence of Infringement
	 The tongue is centrally located within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

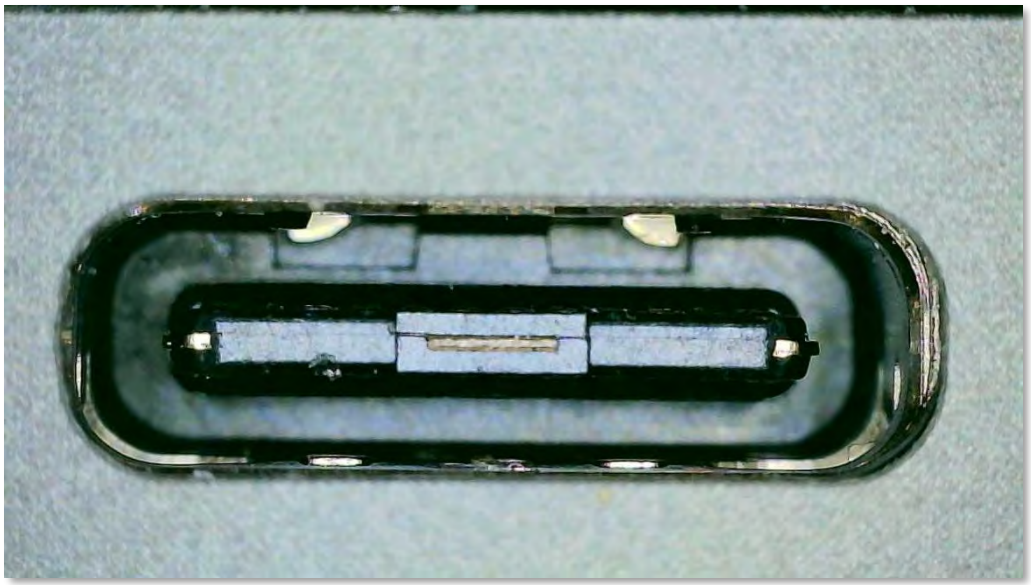
Claim 114 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**]
[**114N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**114L**]. *See also* Element [**34N**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
[**116A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

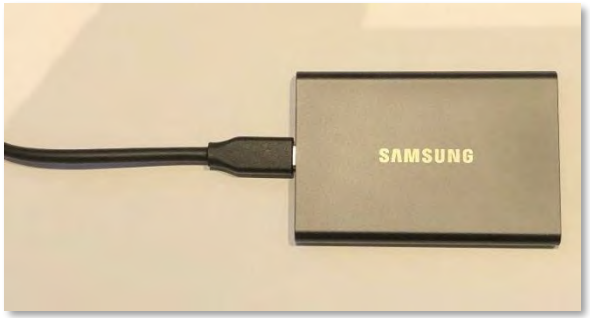
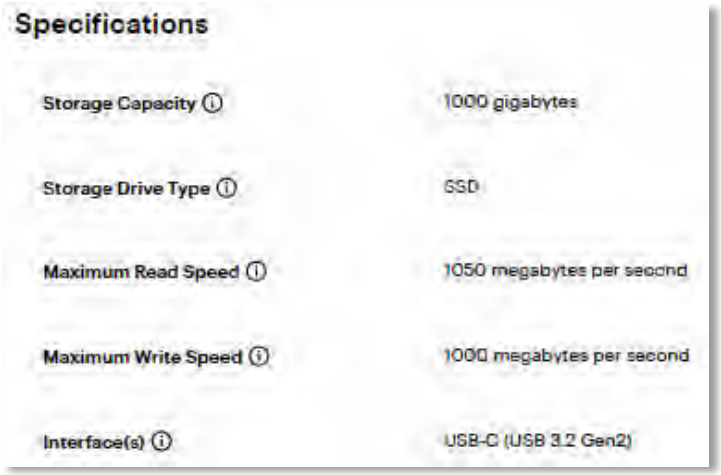
Claim 116 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**116B**] through [**116P**]. *See also* Element [**34A**].
[**116B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

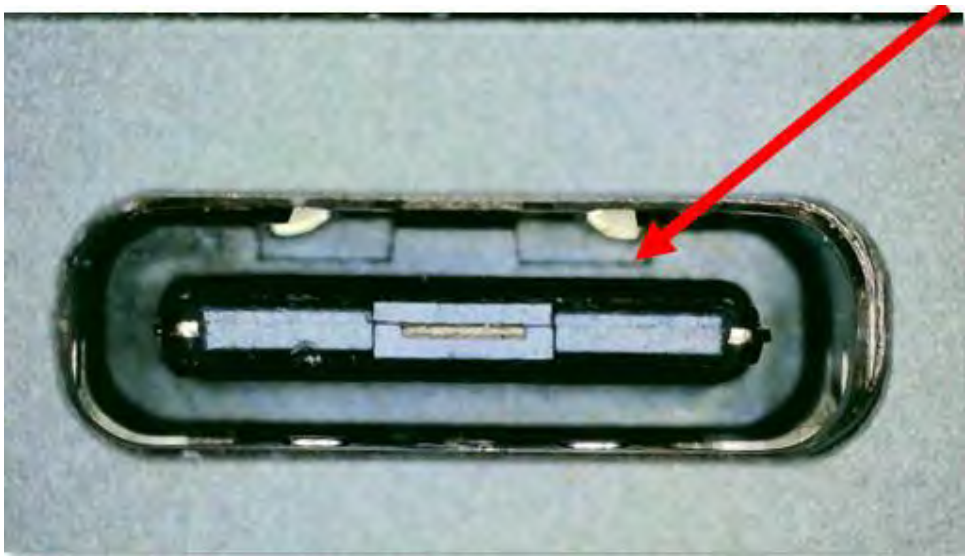
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34B**].
[**116C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

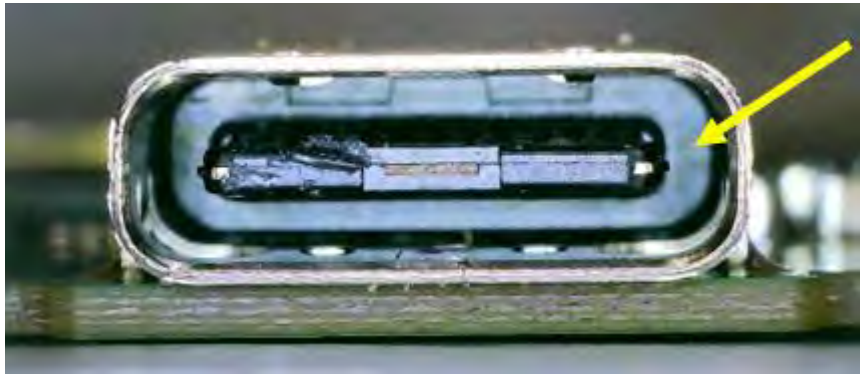
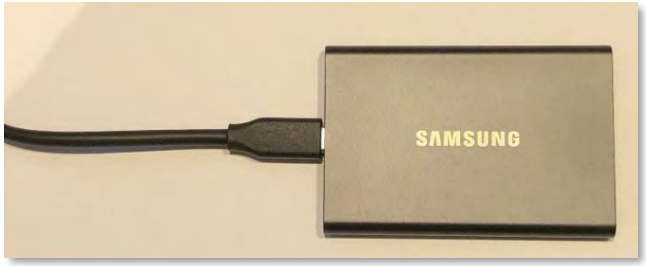
Claim 116 of the '307 Patent	Evidence of Infringement
	The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow.  The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**116D**] a tongue, which has a first surface and a second surface disposed opposite the first surface and	The Samsung T7 includes a tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	  The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

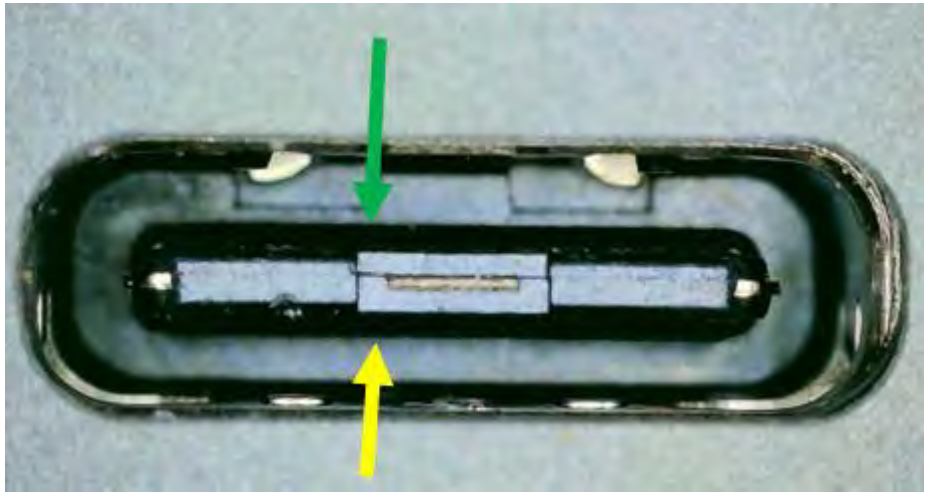
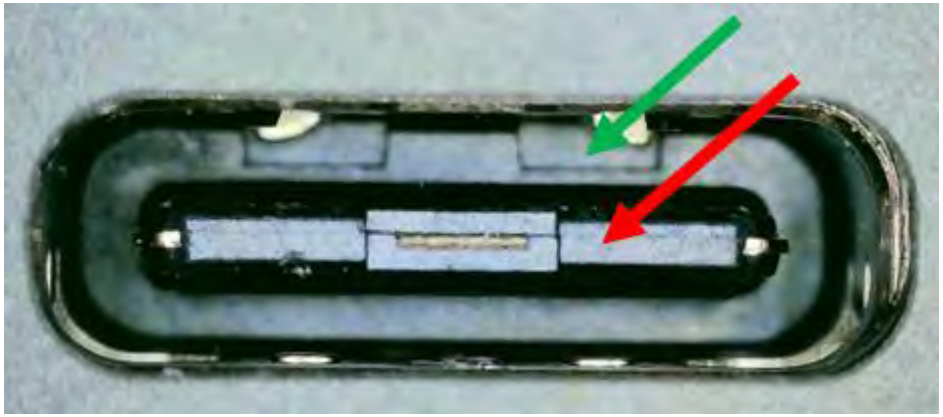
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**].
[**116E**] is disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot based on an	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

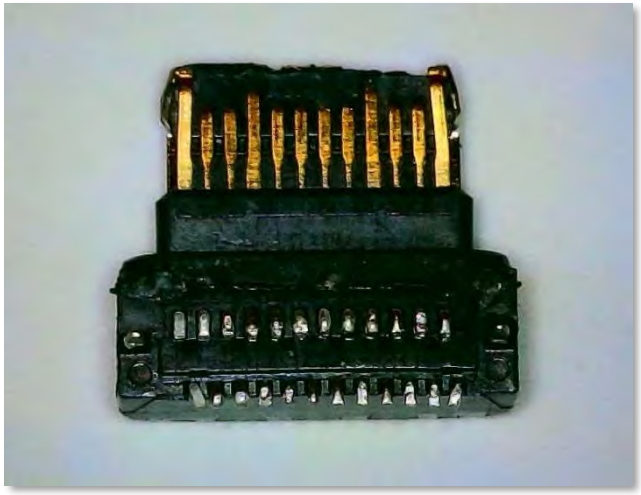
Claim 116 of the '307 Patent	Evidence of Infringement
operational state when the socket structure is connected to the plug;	 The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

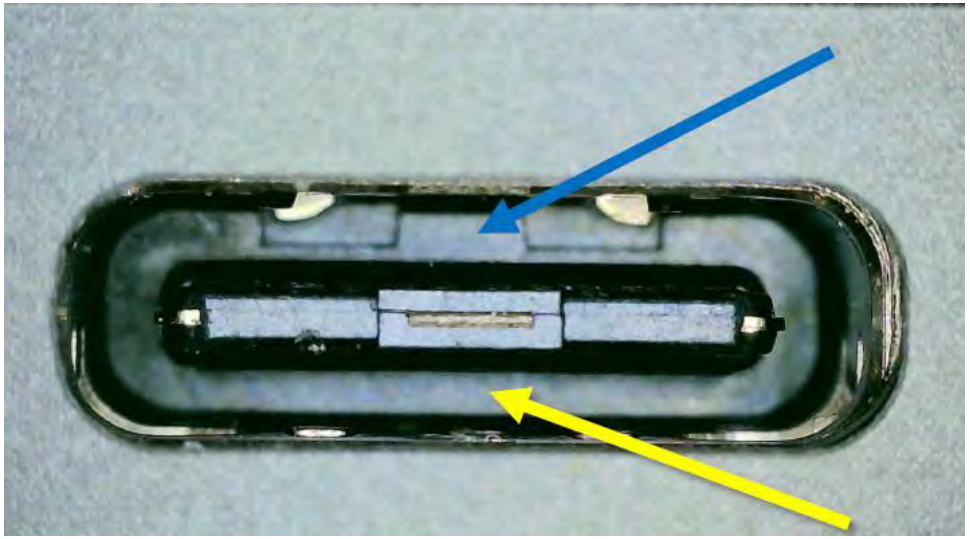
Claim 116 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

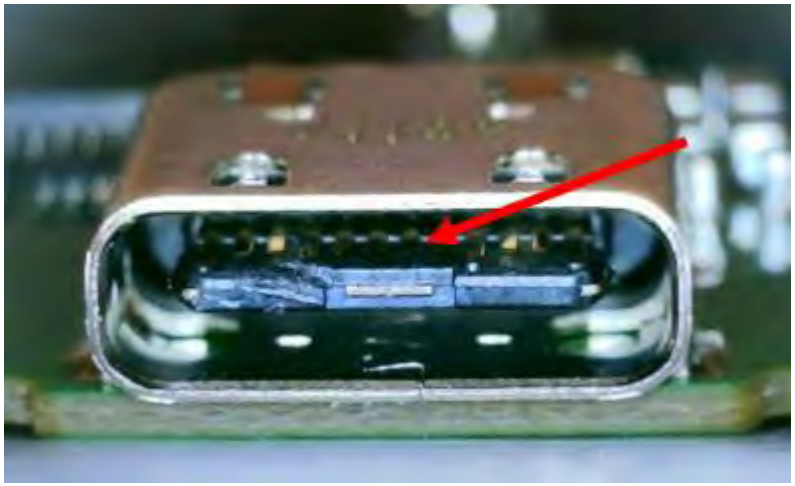
Claim 116 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**116F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base,	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

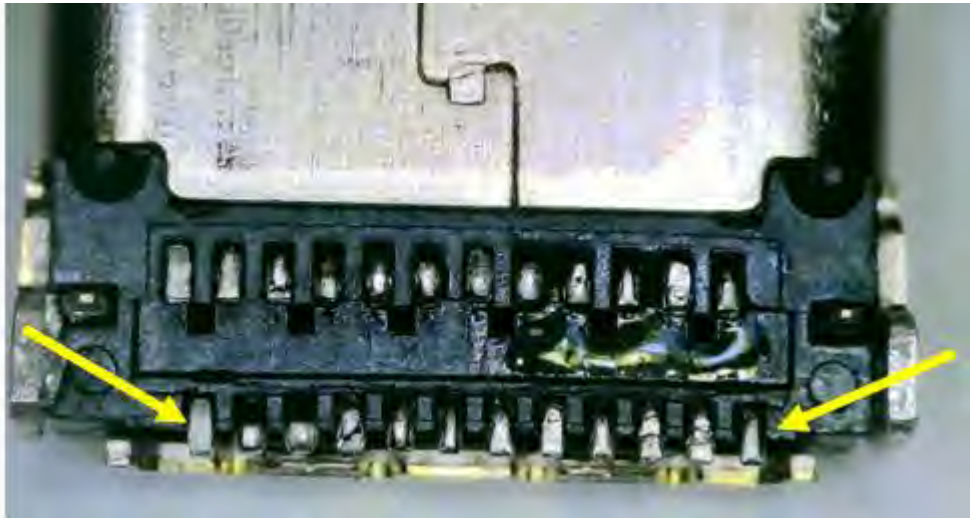
Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34F**].
[**116G**] wherein a first portion of each of the first contacts is proud of a top-most surface of the tongue; and	A first portion of each of the first contacts of the Samsung T7 is proud of the top-most surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

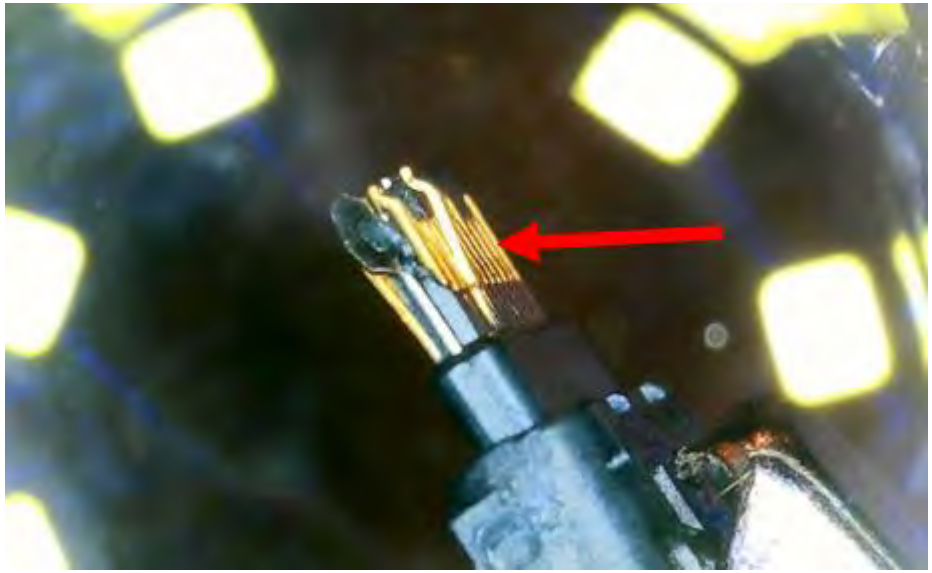
Claim 116 of the '307 Patent	Evidence of Infringement
	 In addition, the included USB-C cable is advertised as compliant with the USB-C standard and, on information and belief, the socket structure of the Samsung T7 is compliant with the USB-C standard so as to be able to connect with the USB-C cable plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The USB-C standard indicates that the contacts should be proud of plastic.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

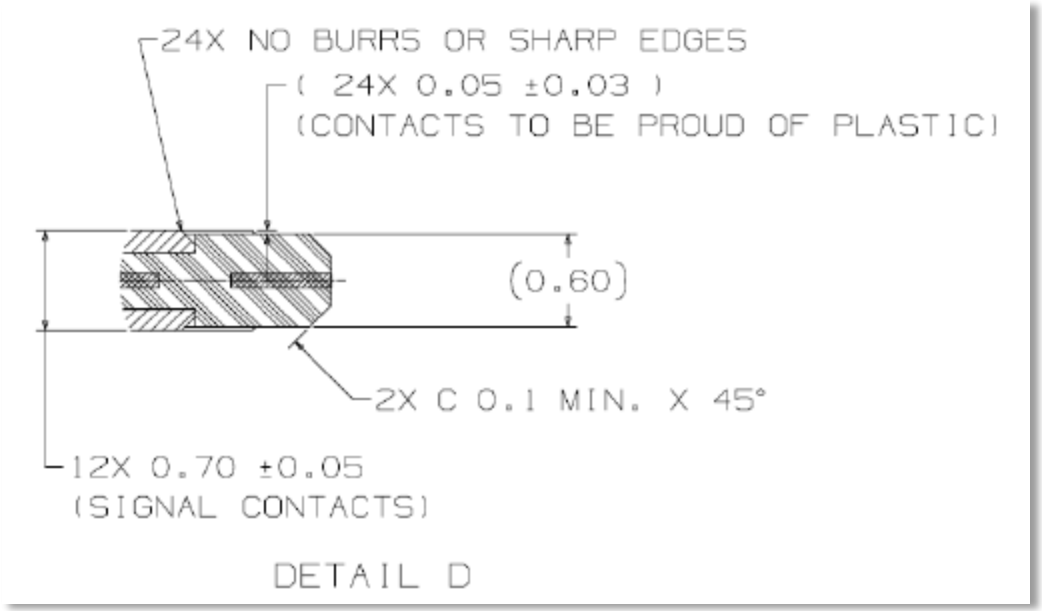
Claim 116 of the '307 Patent	Evidence of Infringement
	 Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1. *See also* Element [**52B**].
[**116H**] at least one row of second contacts separately arranged on the second surface of the tongue,	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

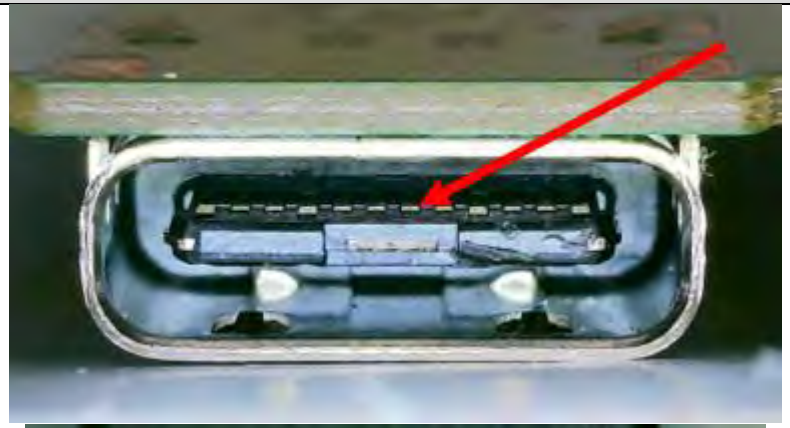
Claim 116 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34G**].
[**116I**] wherein a second portion of each of the second contacts is proud of a bottom-most surface of the tongue, and	A second portion of the second contacts is proud of the bottom-most surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

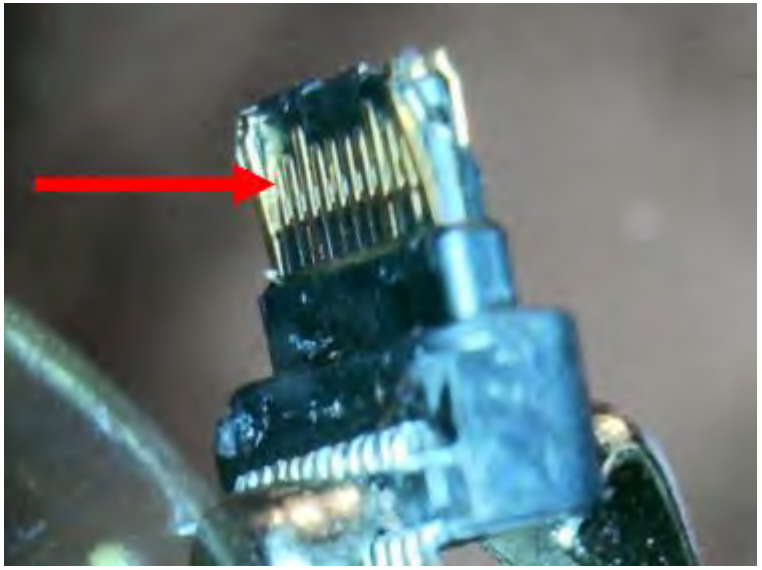
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Elements [**52B**], [**116G**].
[**116J**] the socket structure is operative to simultaneously electrically connect on both sides of the tongue via the first and second contacts, wherein:	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

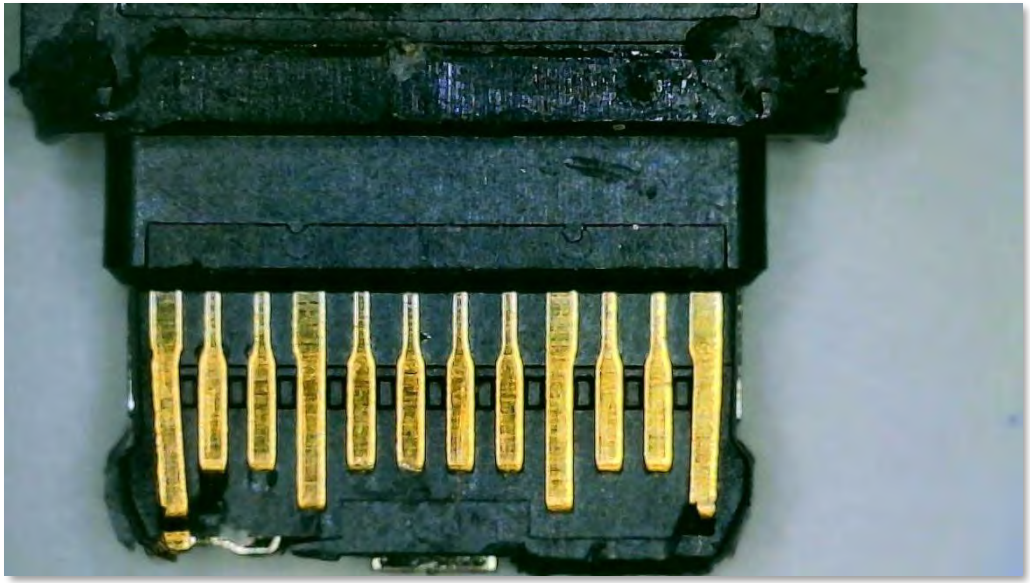
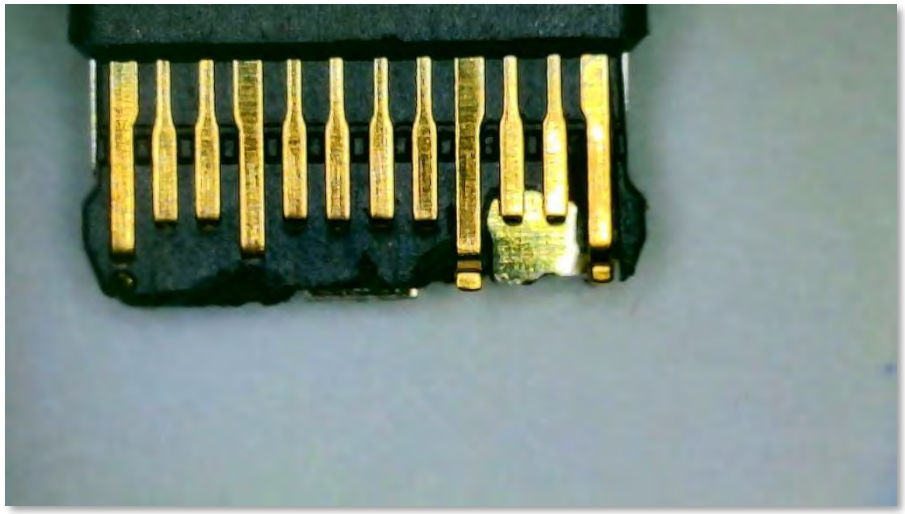
Claim 116 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**116K**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base; and	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**116H**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

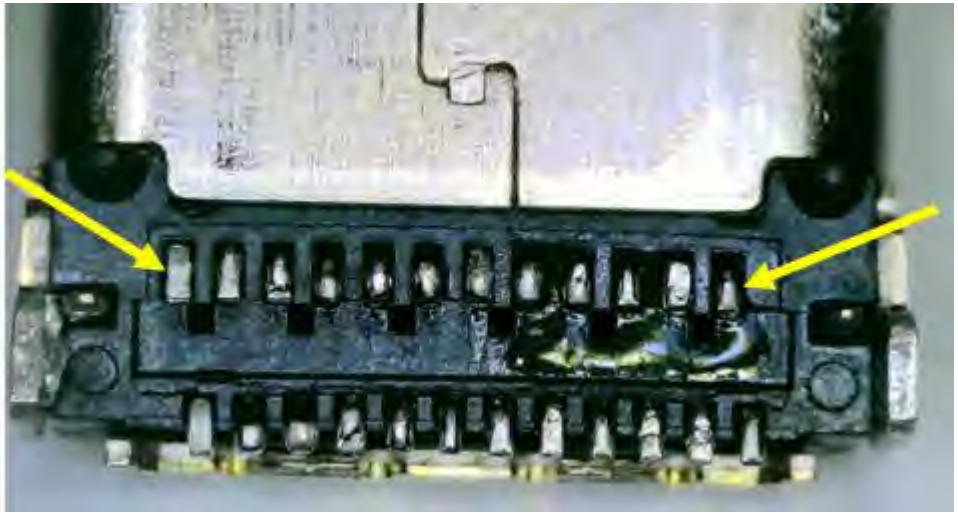
Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34H**].
[**116L**] the socket structure is thereby configured for two separate operational states:	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

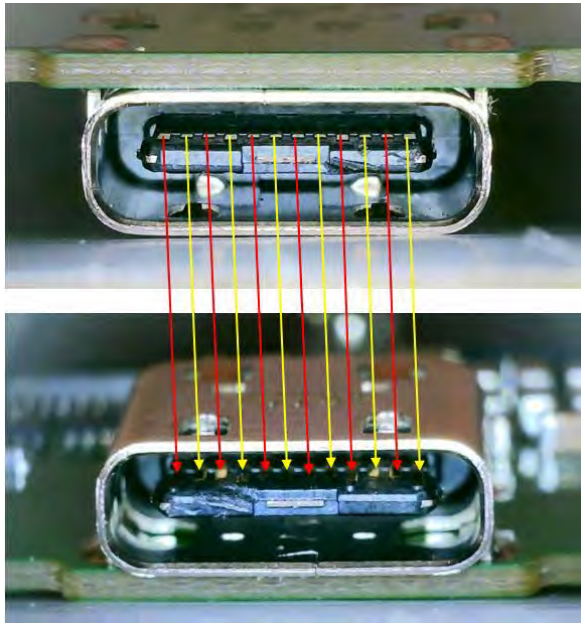
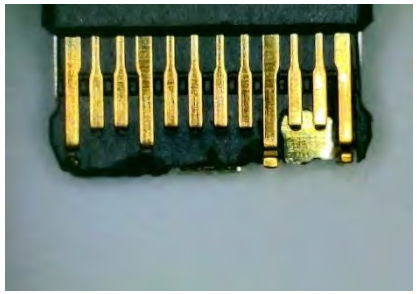
Claim 116 of the '307 Patent	Evidence of Infringement
	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.   In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

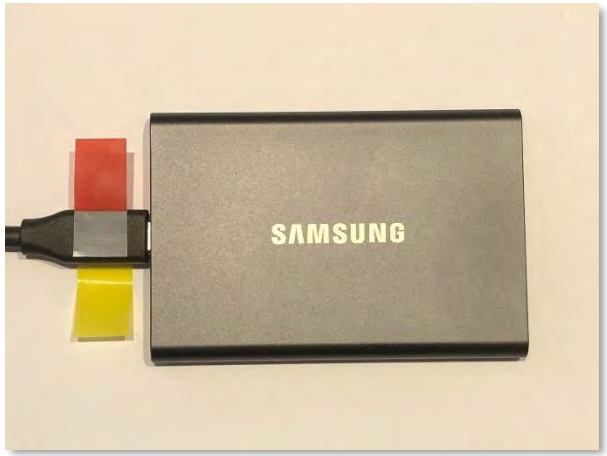
Claim 116 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**116M**] through [**116P**]. *See also* Element [**34J**].
[**116M**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed at a middle within the connection slot,	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

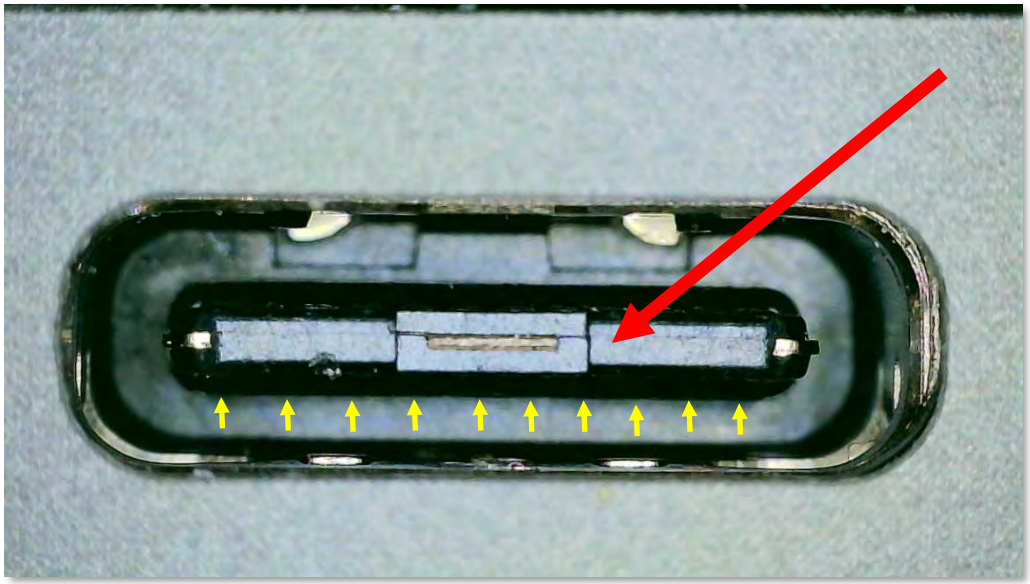
Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals) The tongue is disposed at a middle within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

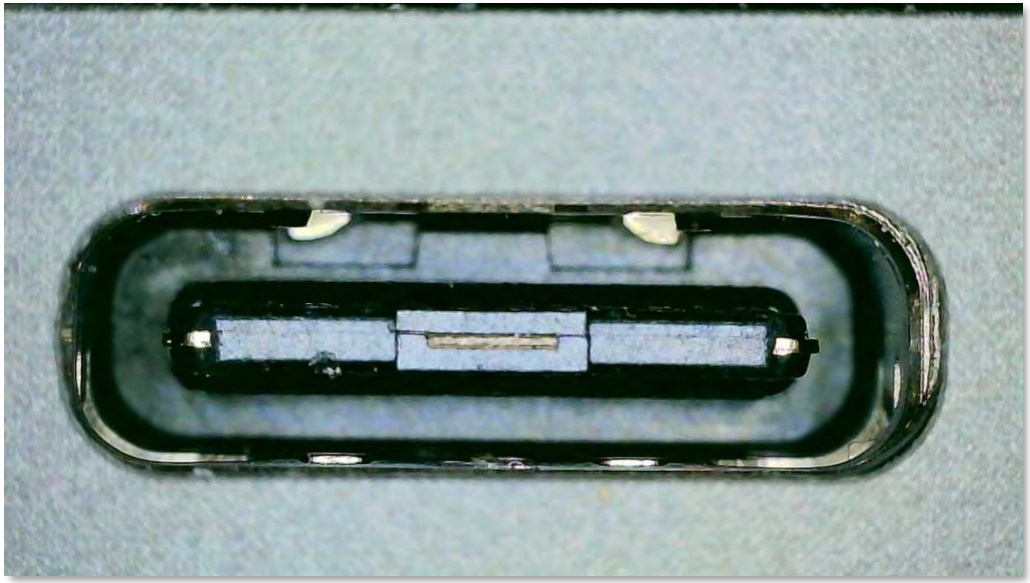
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**]
[**116N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung T7 is configured for a first operational state as described above in connection with element [**116M**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

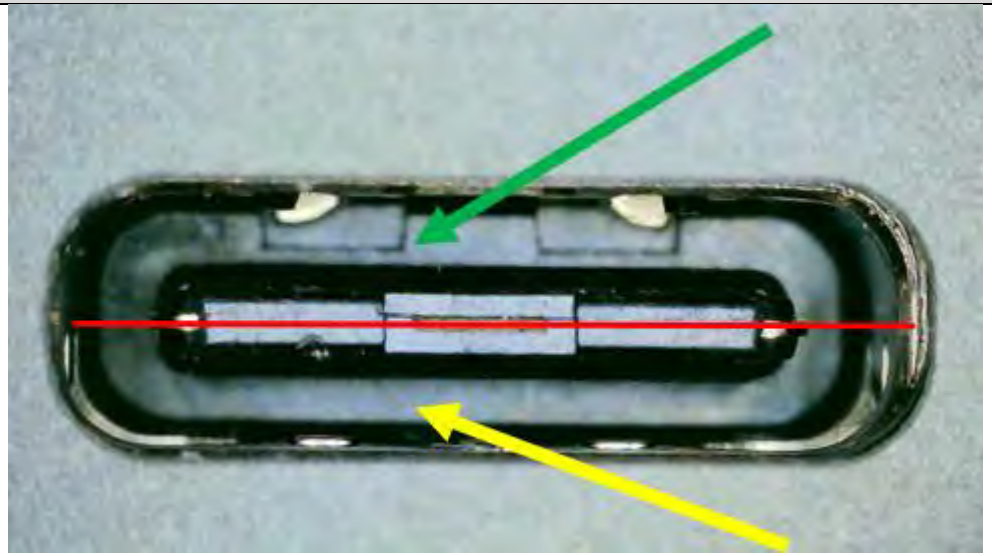
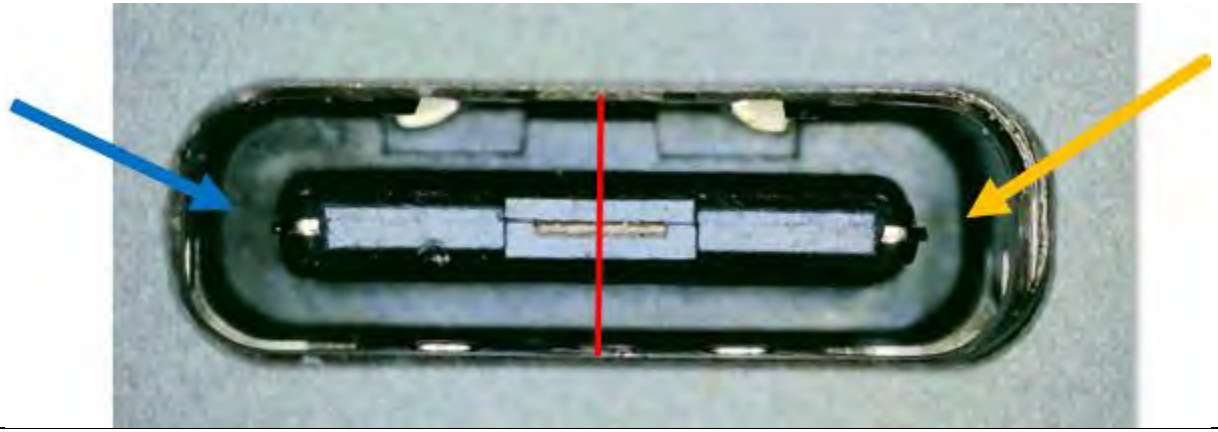
Claim 116 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by red lines, and are indicated by blue and orange arrows respectively, in the image below. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	See also Element [**34L**].
[**116O**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed at within the connection slot,	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

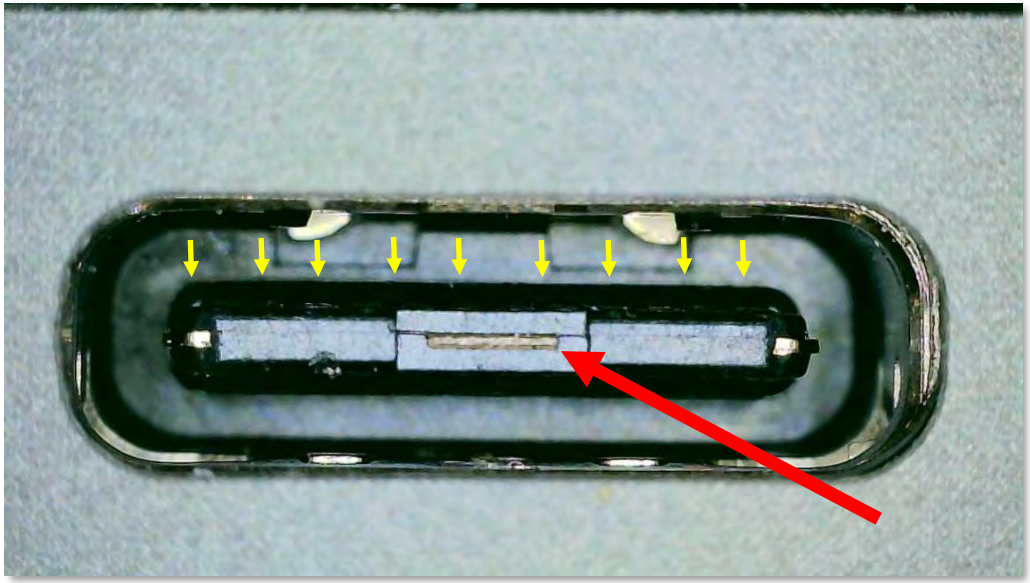
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**]
[**116P**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**116N**]. *See also* Element [**34N**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
[**130A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

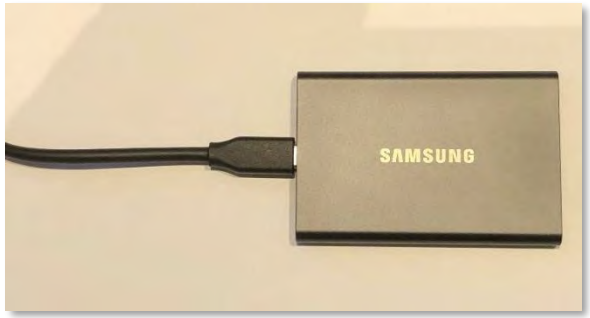
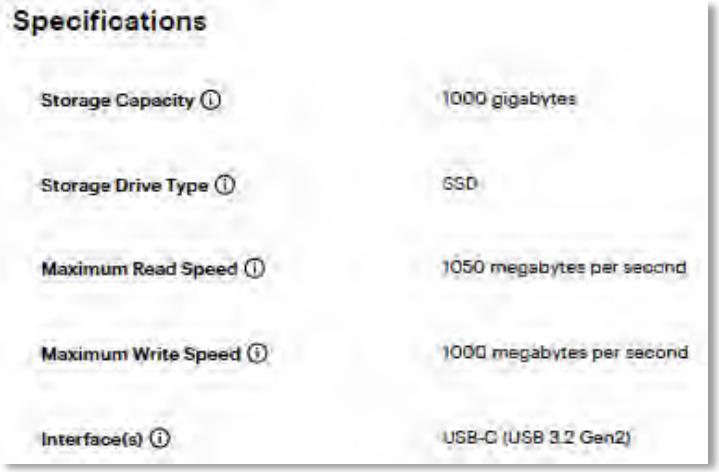
Claim 130 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**130B**] through [**130N**]. *See also* Element [**34A**].
[**130B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

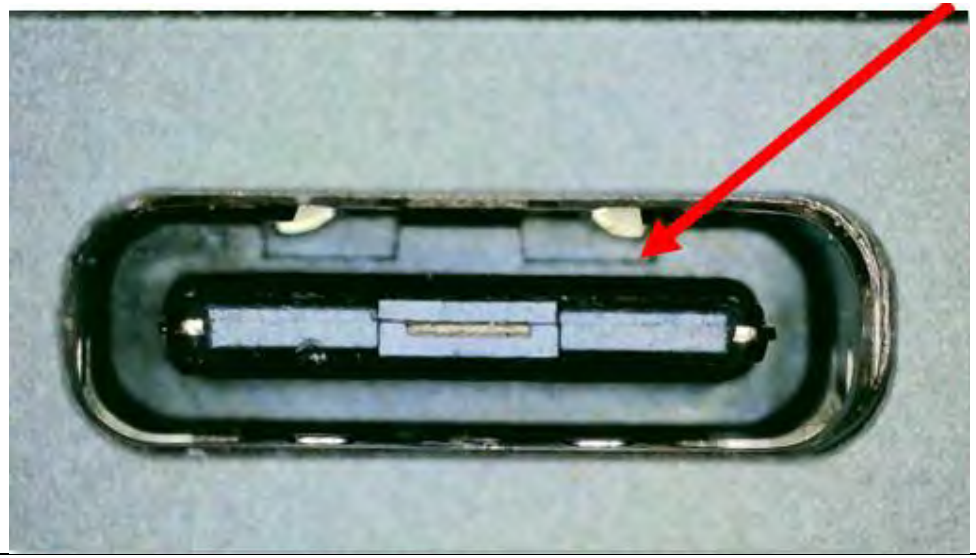
Claim 130 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34B**].
[**130C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

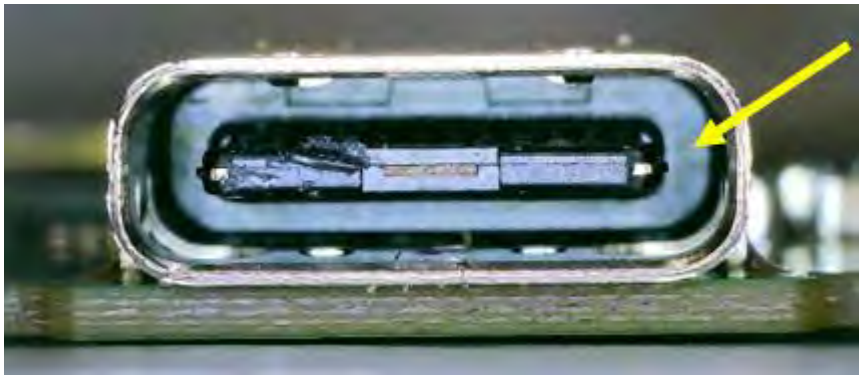
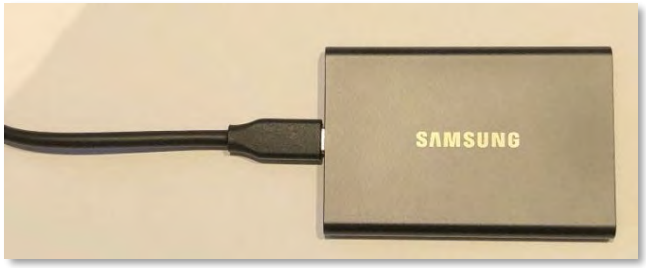
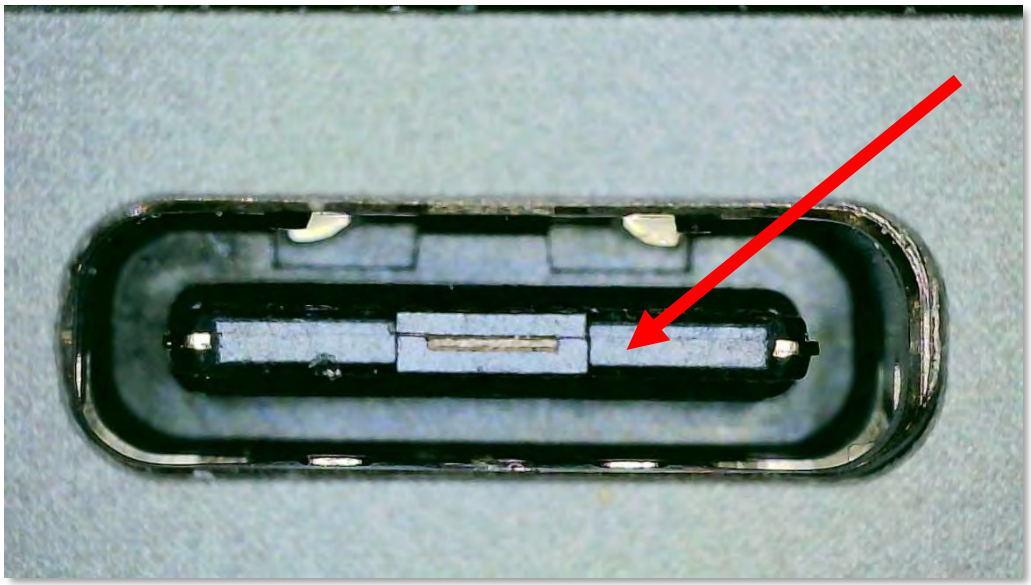
Claim 130 of the '307 Patent	Evidence of Infringement
	The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow.  The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**130D**] a tongue, which has a first surface with recesses, and a second surface with recesses, the second surface disposed opposite the first surface,	The Samsung T7 includes a tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 356

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

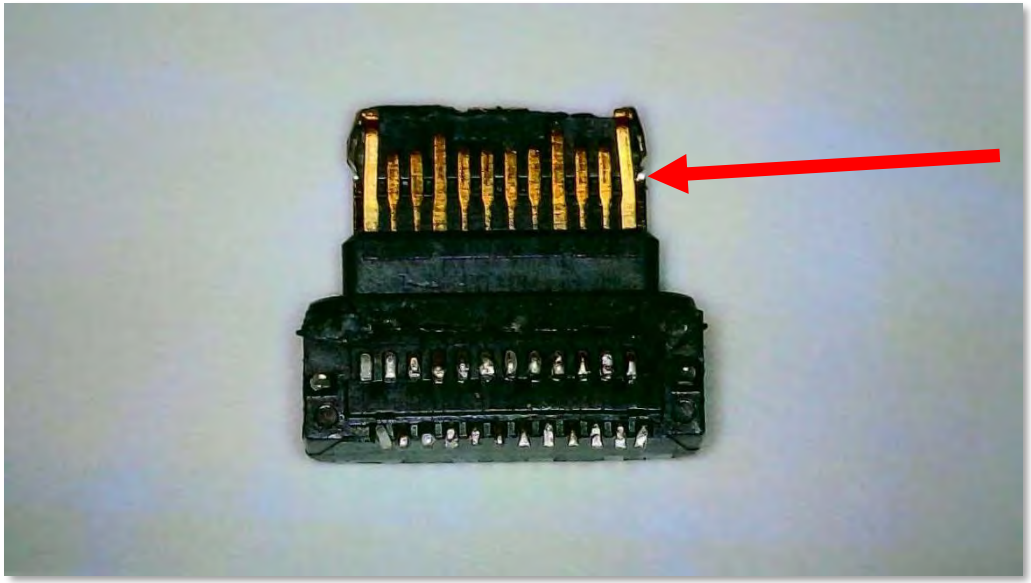
Claim 130 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

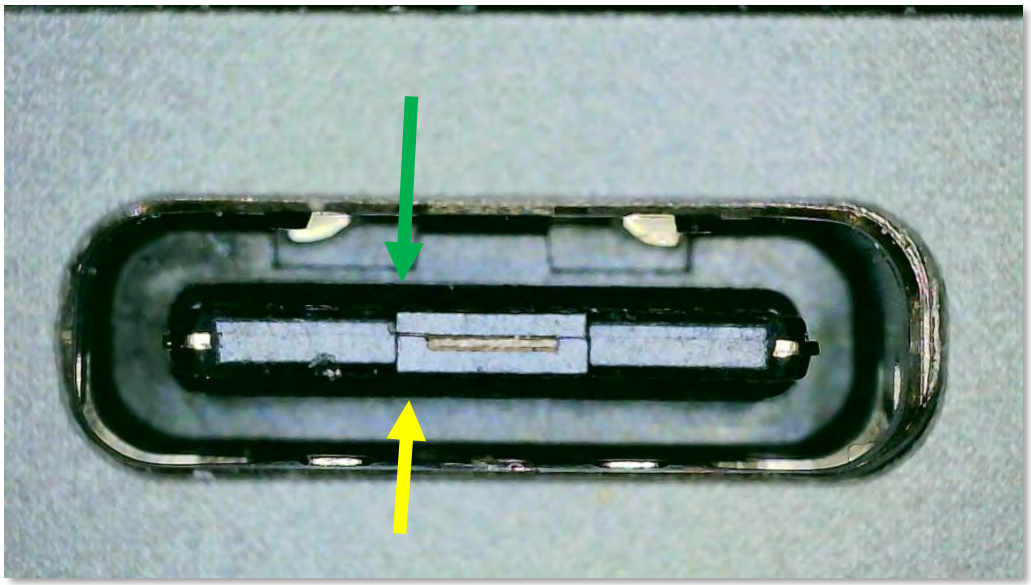
Claim 130 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has recesses.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

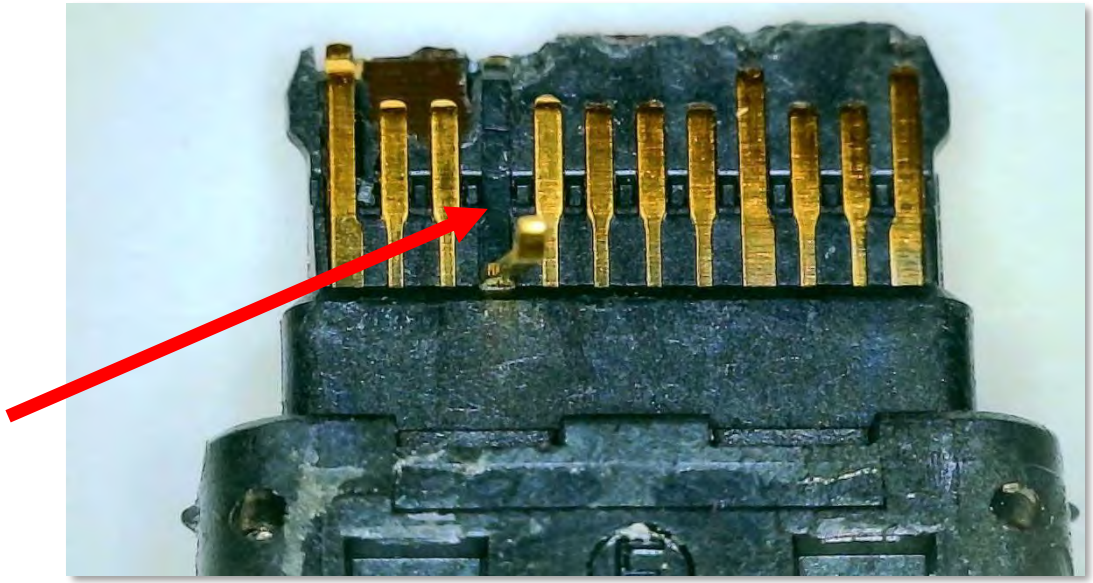
Claim 130 of the '307 Patent	Evidence of Infringement
	
[**130E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

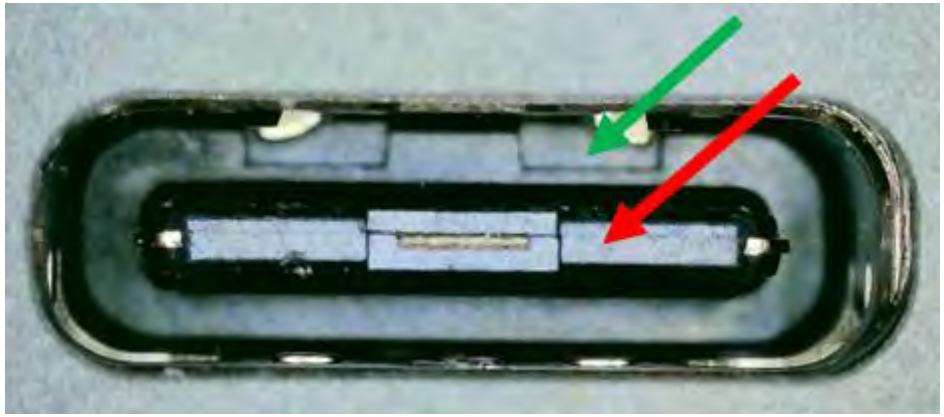
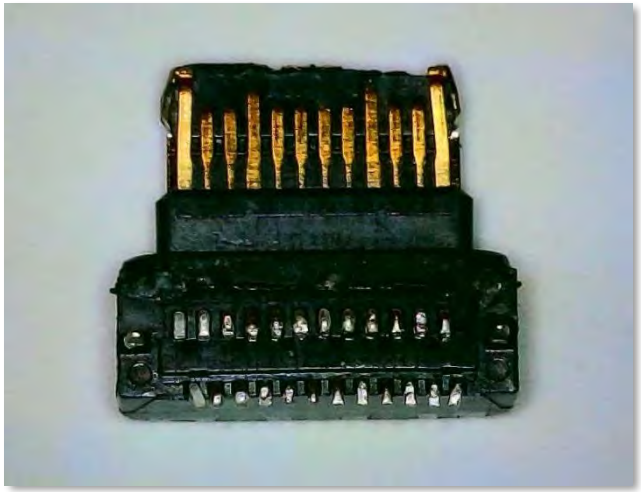
Claim 130 of the '307 Patent	Evidence of Infringement
and positioned into the connection slot;	  The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

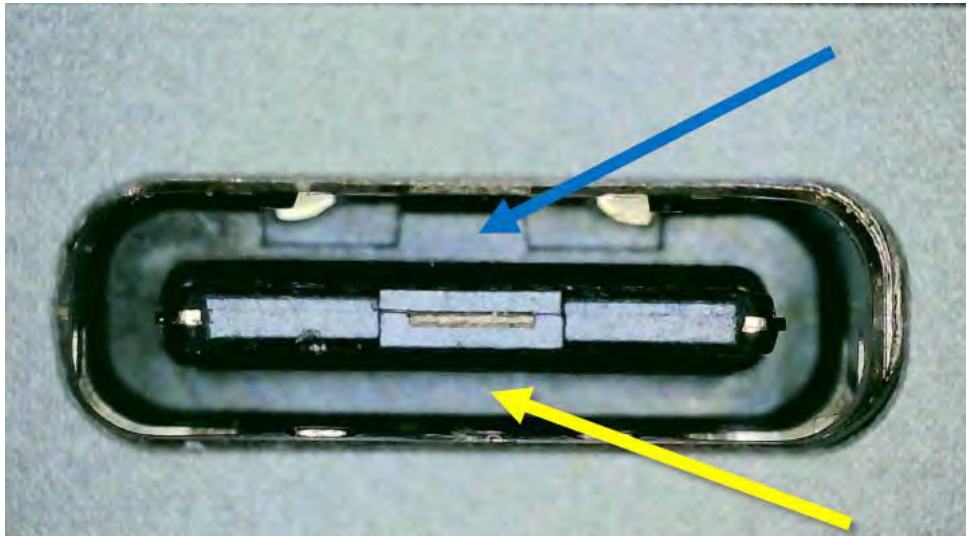
Claim 130 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**130F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

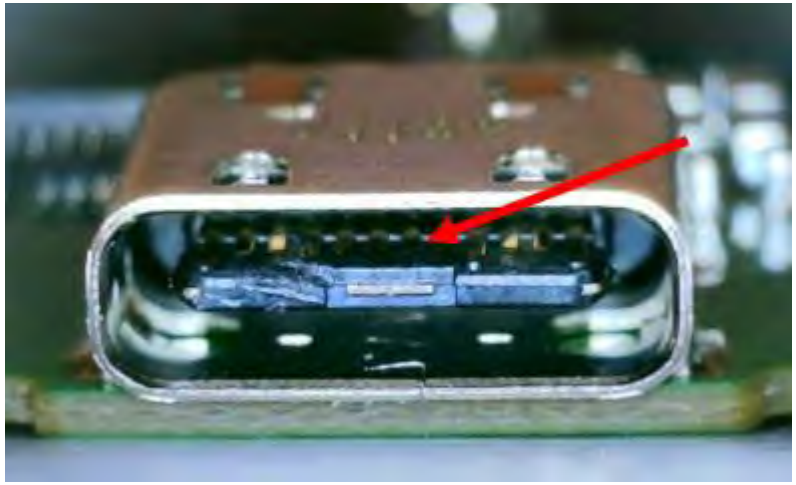
Claim 130 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

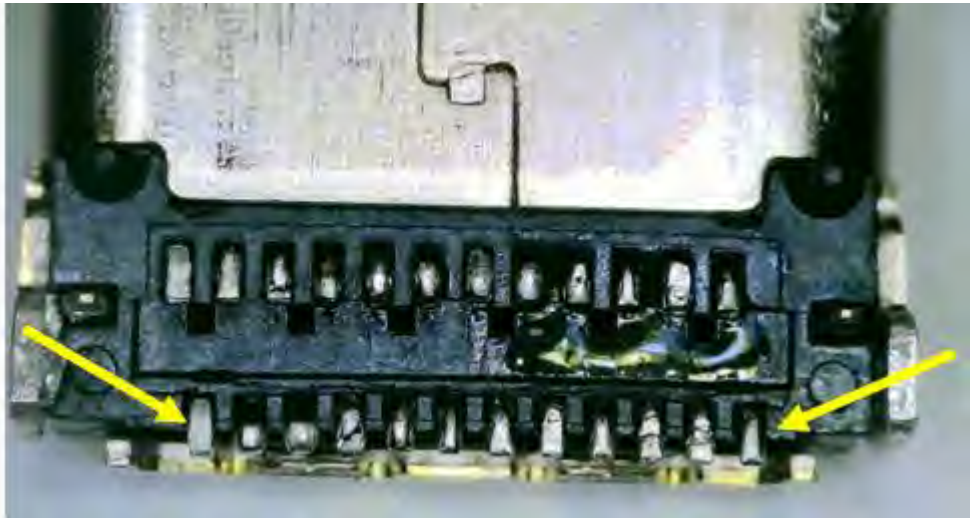
Claim 130 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).  (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34F**].
[**130G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

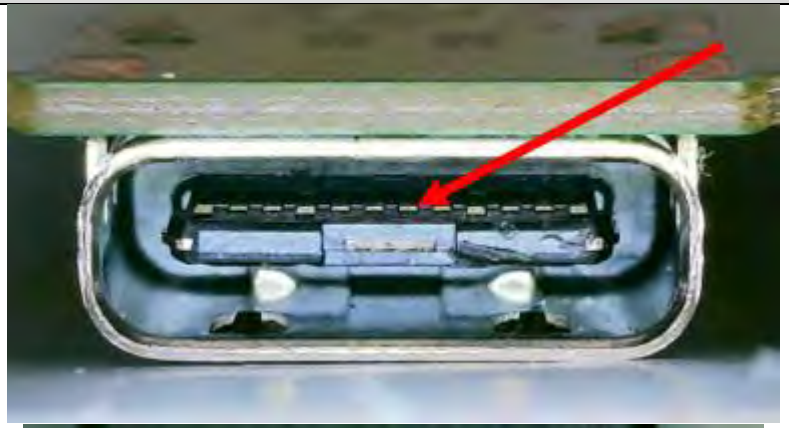
Claim 130 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34G**].
[**130H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**130G**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

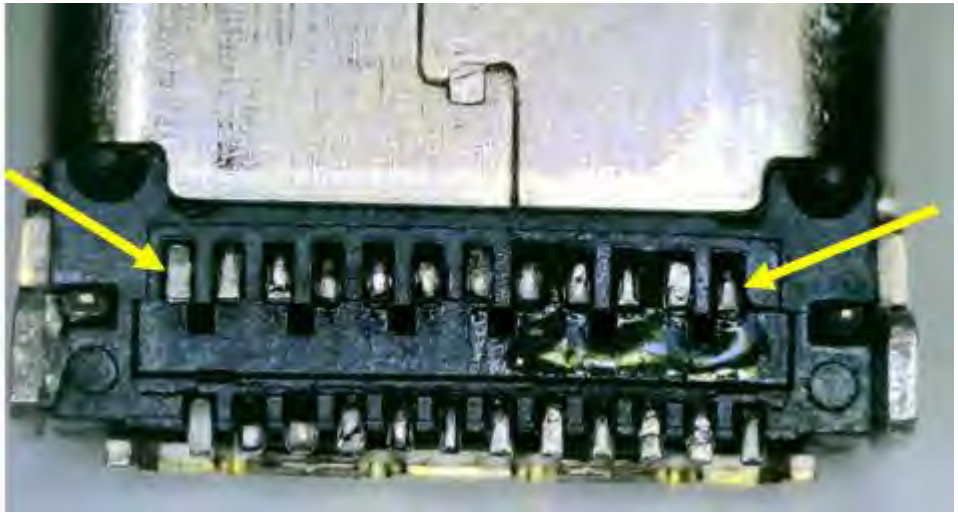
Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34H**].
[**130I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

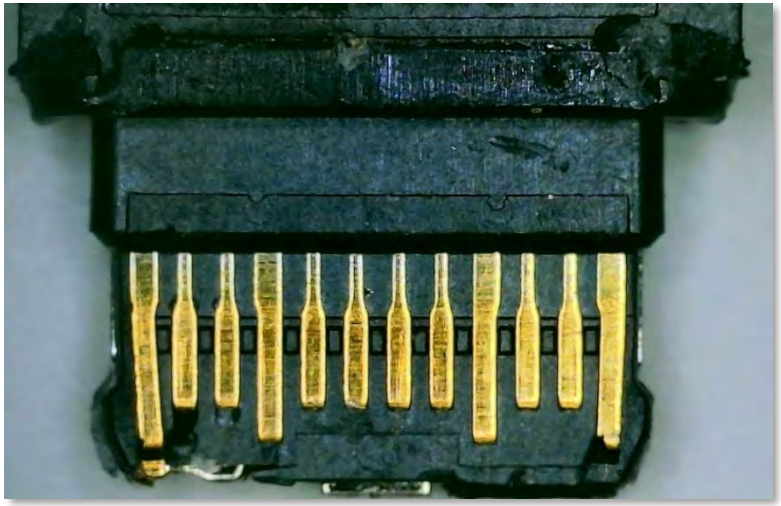
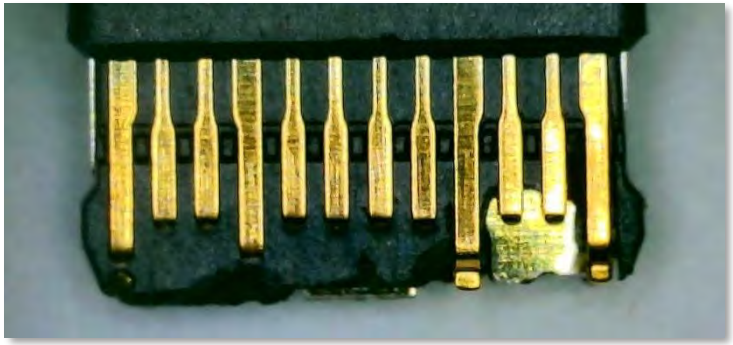
Claim 130 of the '307 Patent	Evidence of Infringement
	  The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**130J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two separate operational states:	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

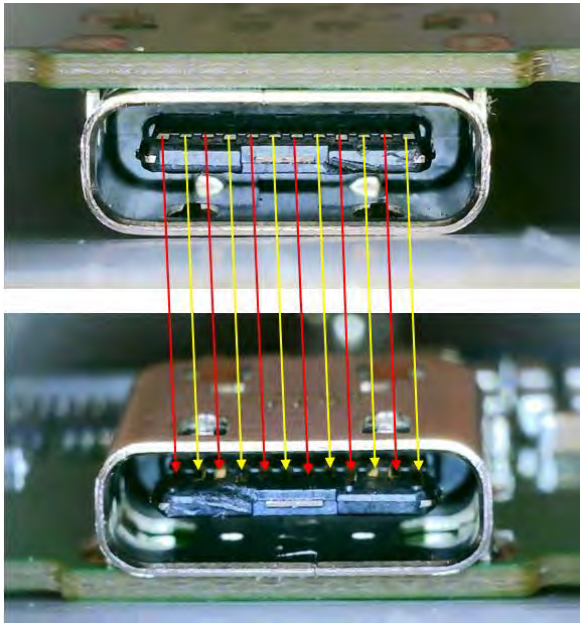
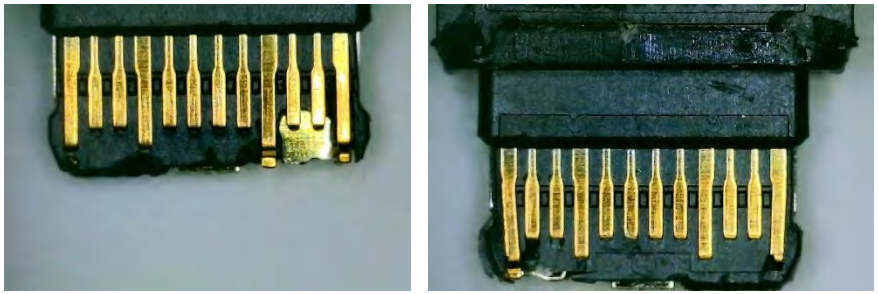
Claim 130 of the '307 Patent	Evidence of Infringement
	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.  In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

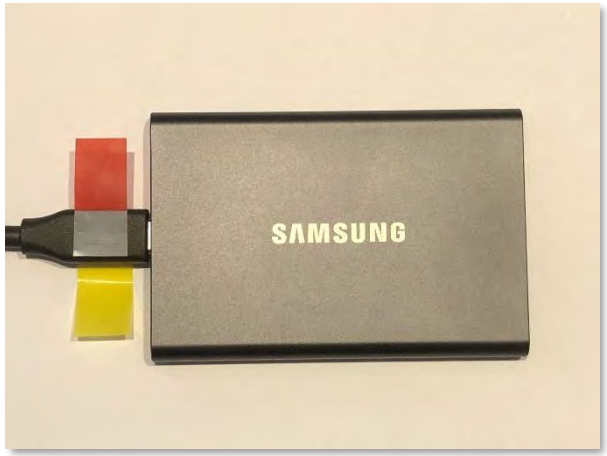
Claim 130 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**130K**] through [**130N**]. *See also* Element [**34J**].
[**130K**] a first operational states when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed within the connection slot,	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

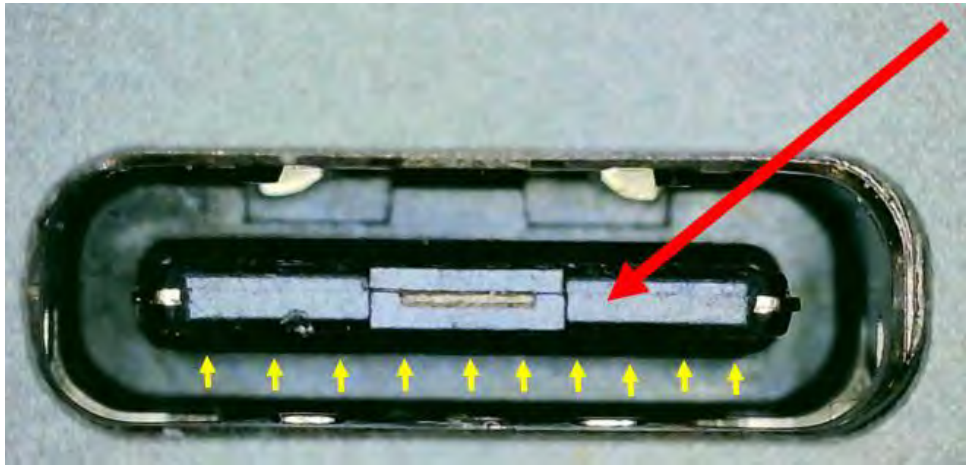
Claim 130 of the '307 Patent	Evidence of Infringement
	  (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34K**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

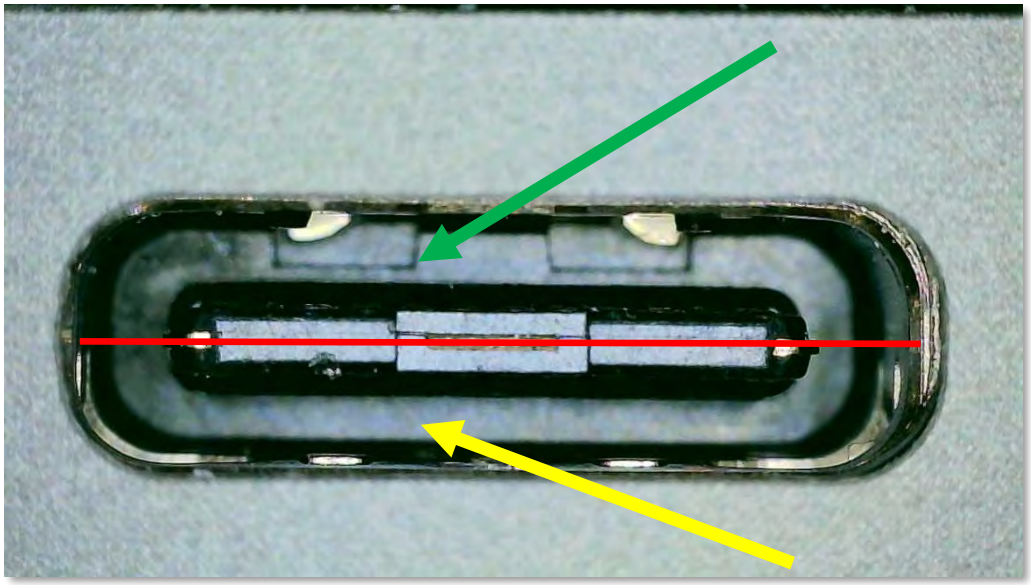
Claim 130 of the '307 Patent	Evidence of Infringement
[**130L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung T7 is configured for a first operational state as described above in connection with element [**130K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.  The left and right chambers are separated by red lines, and are indicated by blue and orange arrows respectively, in the image below.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

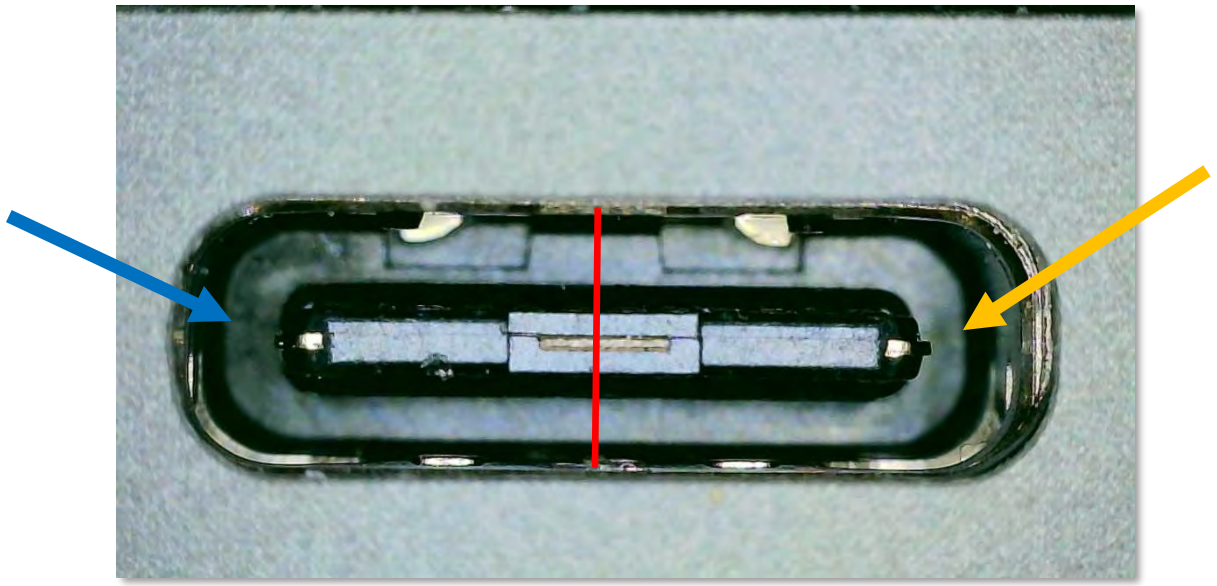
Claim 130 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**]
[**130M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

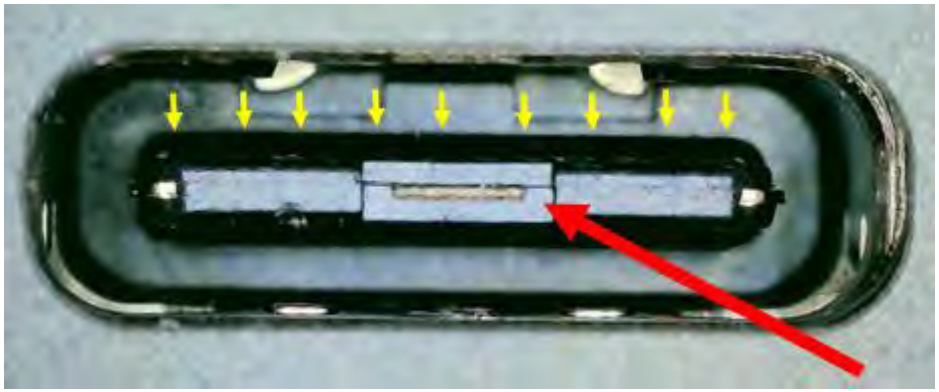
Claim 130 of the '307 Patent	Evidence of Infringement
one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.  *See also* Element [**34M**].
[**130N**] wherein the connection slot is	In the second operational state, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**130L**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	*See also* Element [**34N**].

Samsung, EX1004, p. 377

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
[**131A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

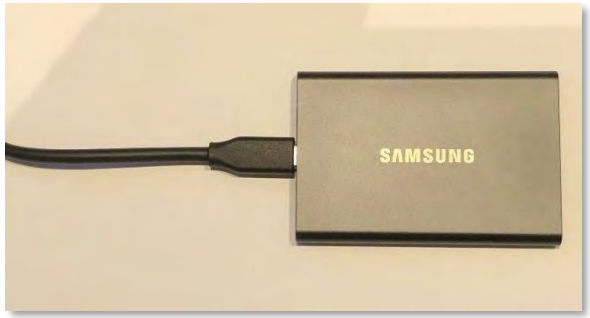
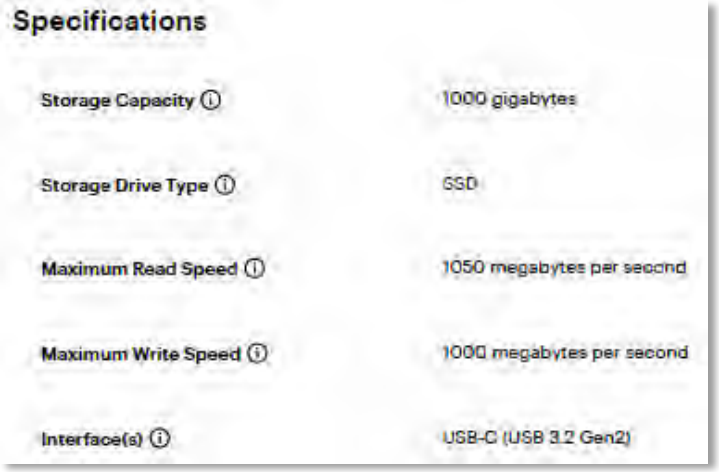
Claim 131 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**131B**] through [**131L**]. *See also* Element [**34A**].
[**131B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

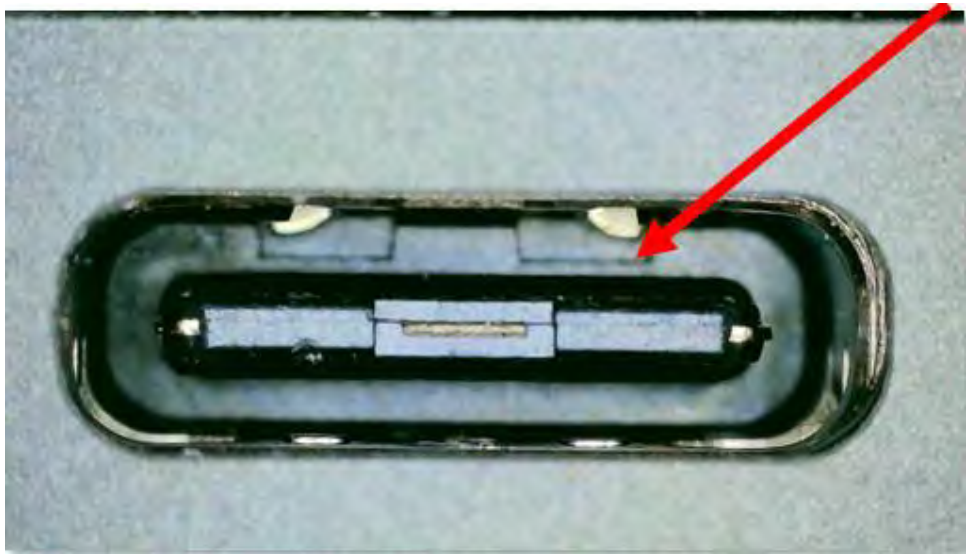
Claim 131 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34B**].
[**131C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

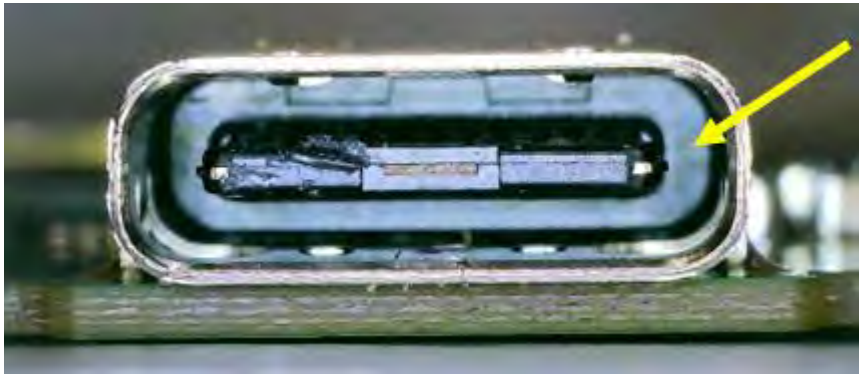
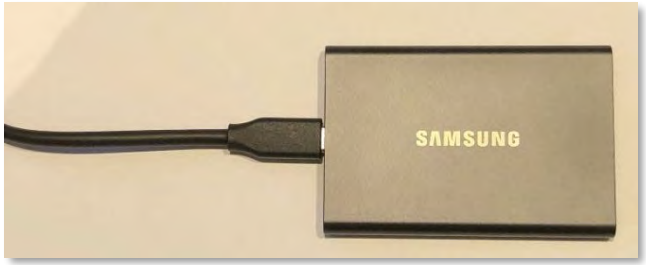
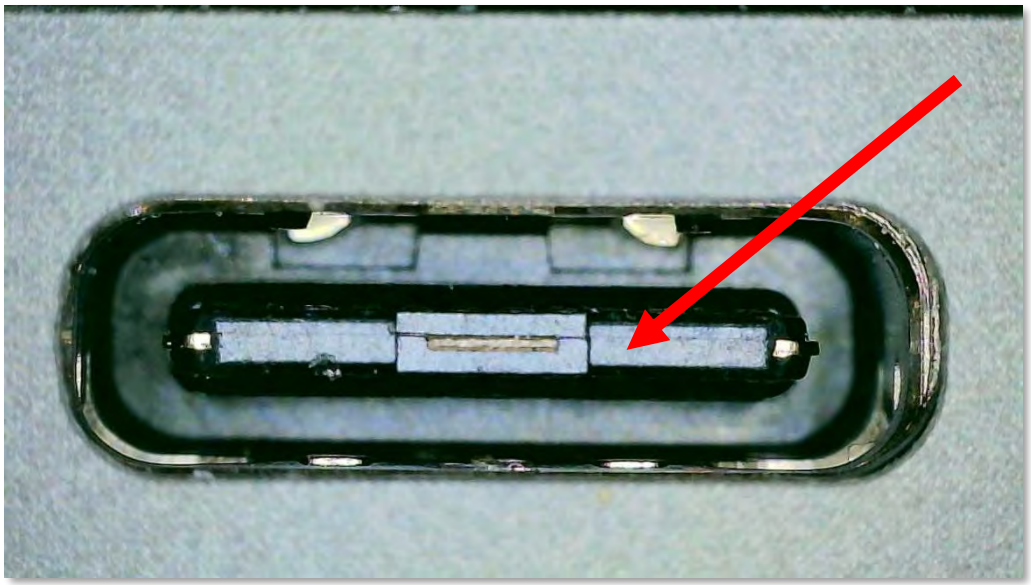
Claim 131 of the '307 Patent	Evidence of Infringement
	The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow.  The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**131D**] a tongue, which has a top side with a first surface with grooves, and a bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The Samsung T7 includes a tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 385

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

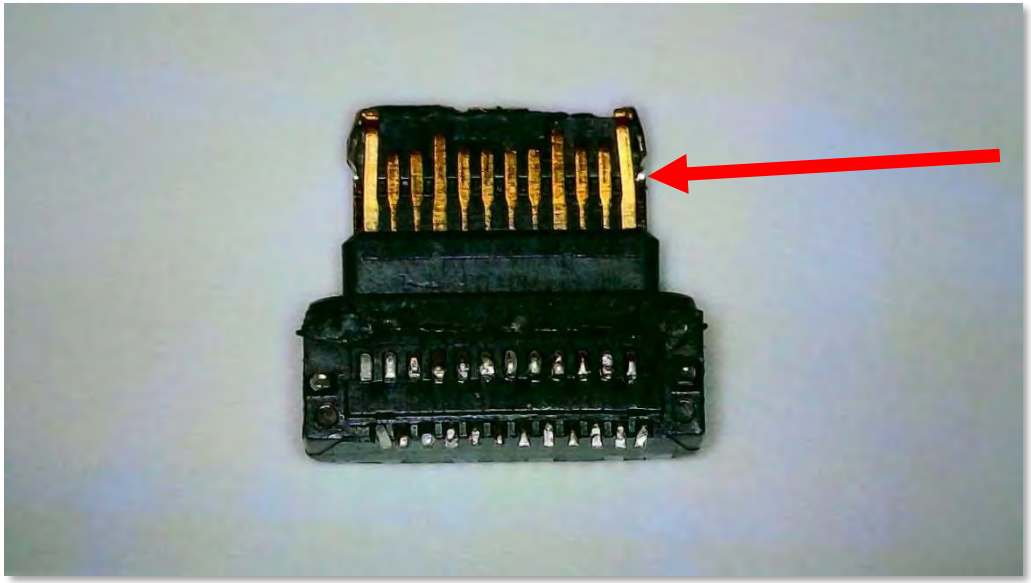
Claim 131 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

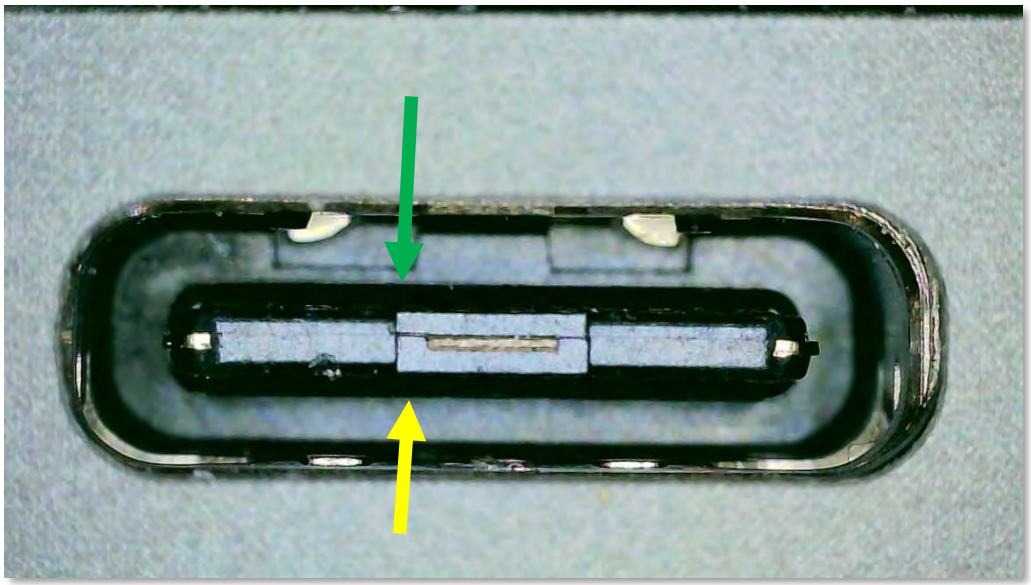
Claim 131 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

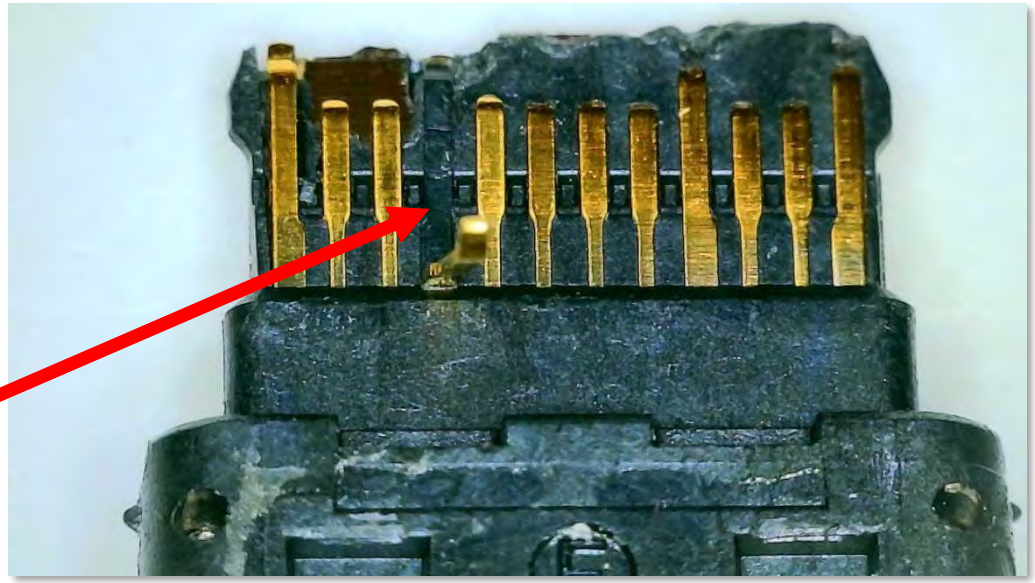
Claim 131 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponds to the side with the second surface as described in element [**34D**].
[**131E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

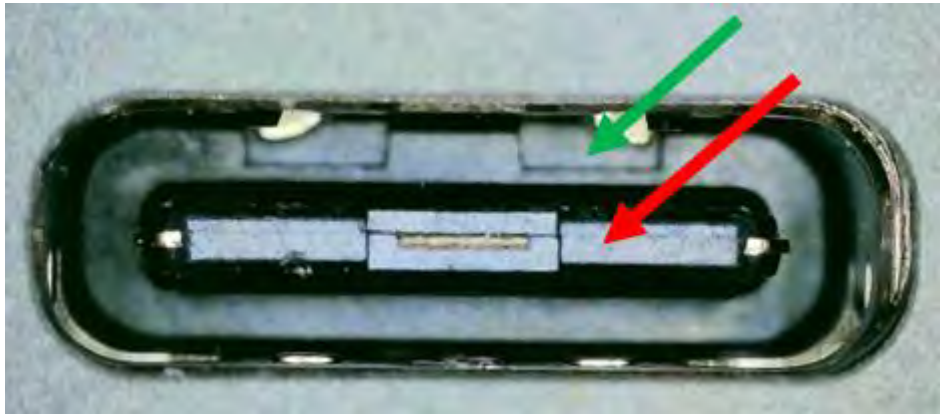
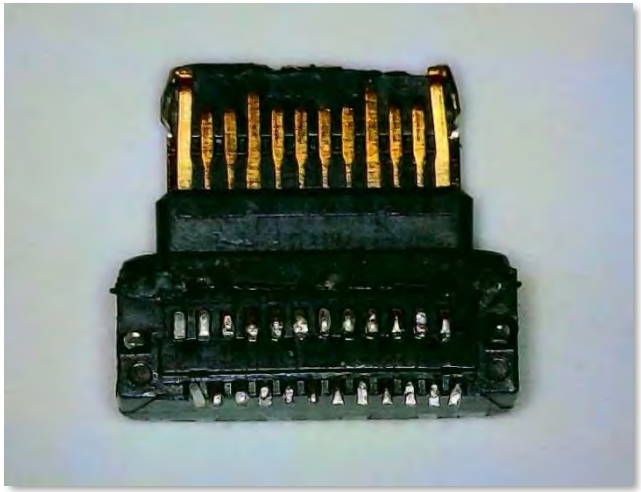
Claim 131 of the '307 Patent	Evidence of Infringement
oppositely inserted and positioned into the connection slot;	  The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

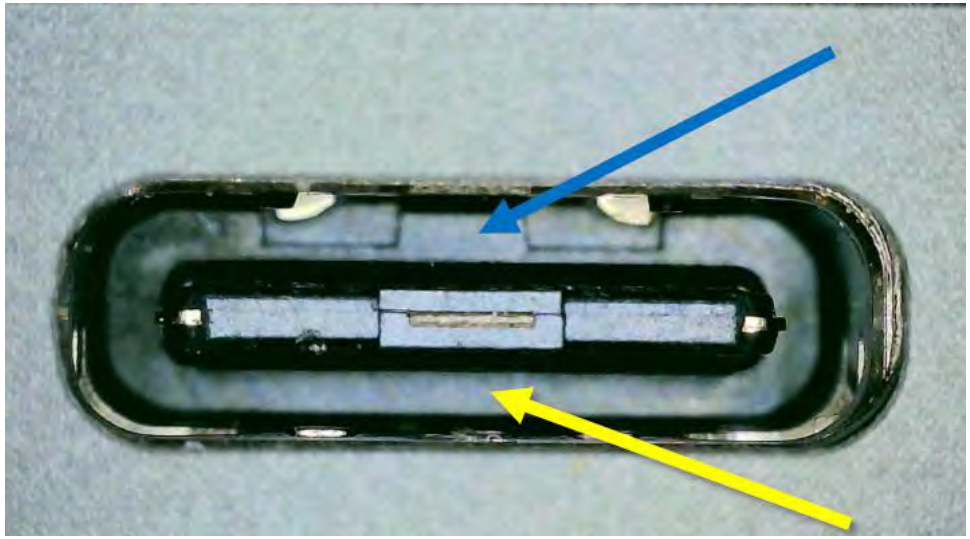
Claim 131 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**131F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a first pin extending out of the plastic base; and	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

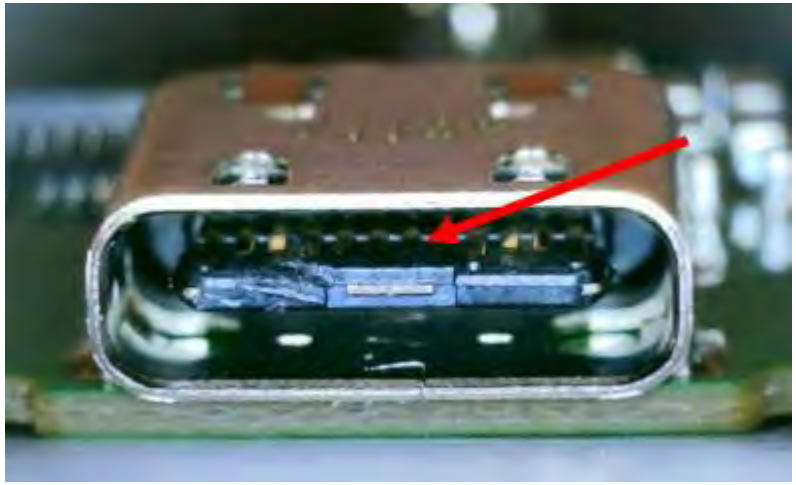
Claim 131 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

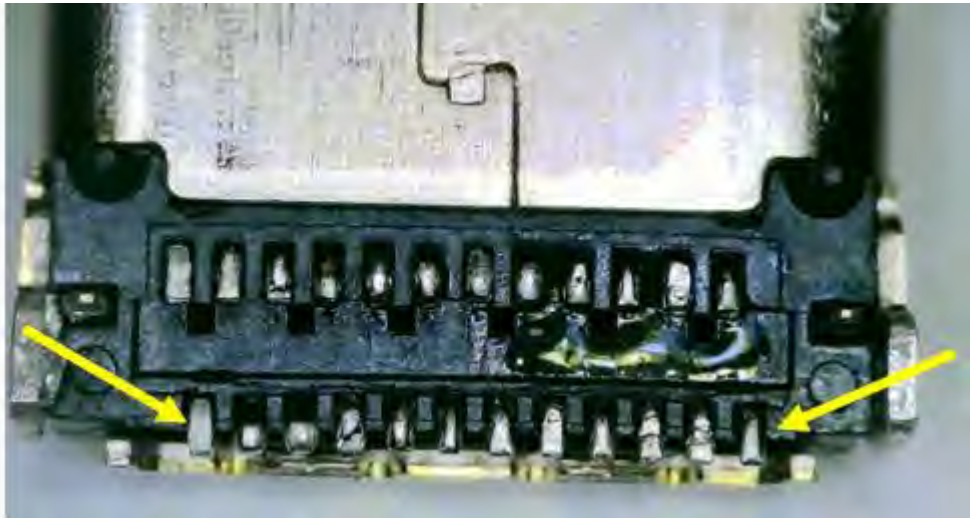
Claim 131 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).  (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34F**].
[**131G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

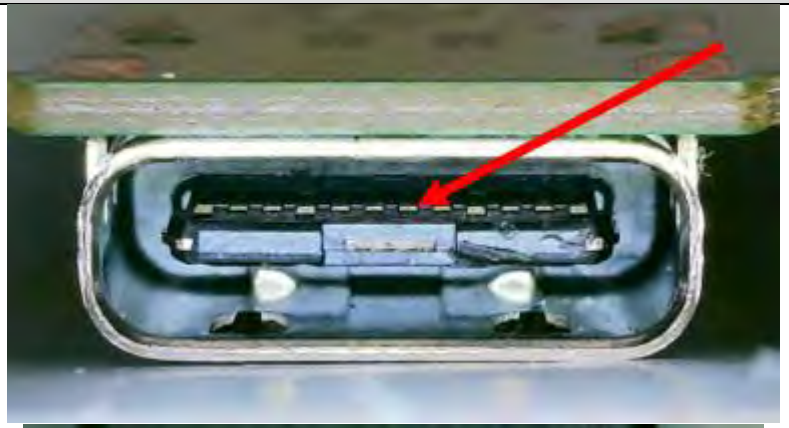
Claim 131 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34G**].
[**131H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**131G**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

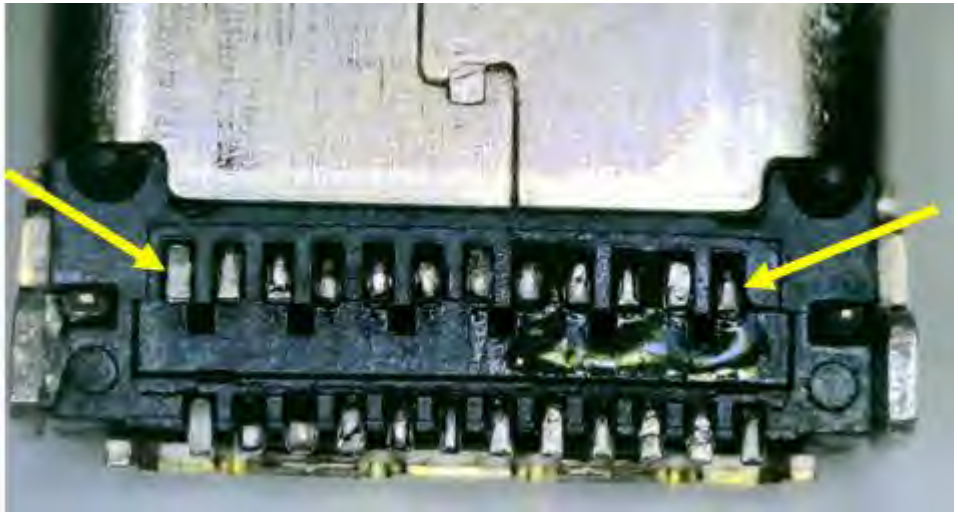
Claim 131 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34H**].
[**131I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

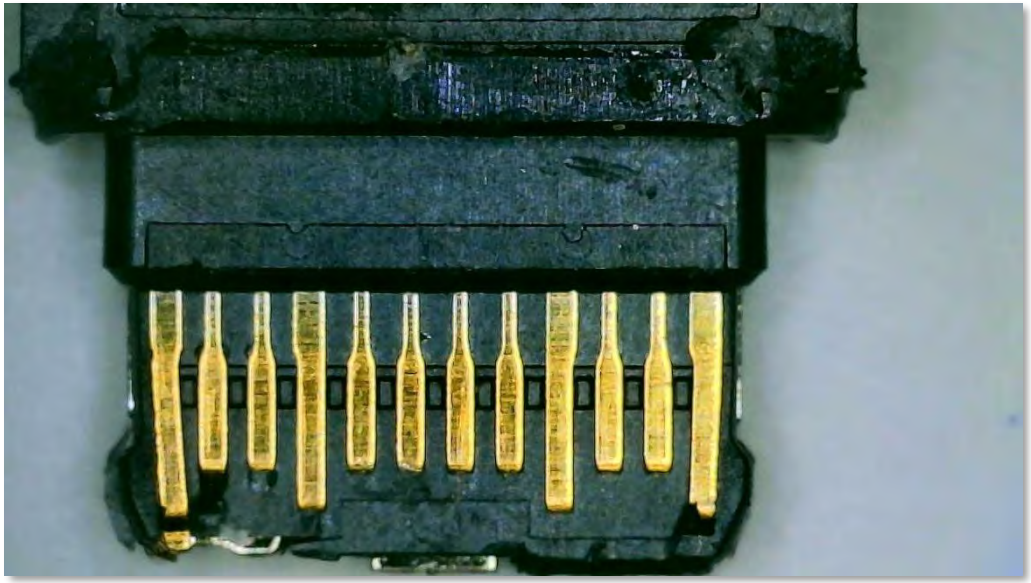
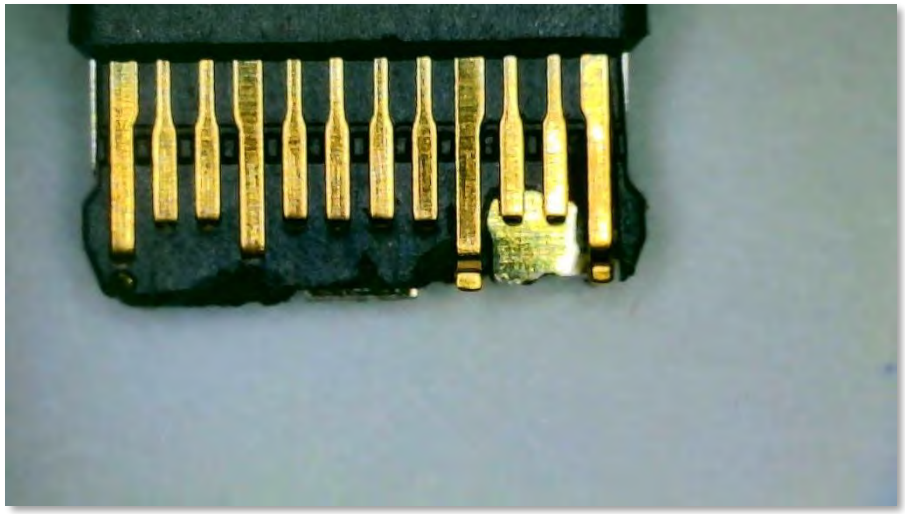
Claim 131 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**131J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

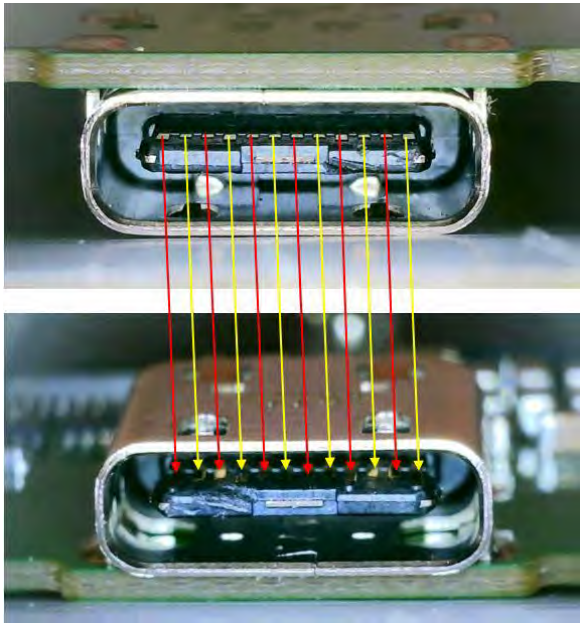
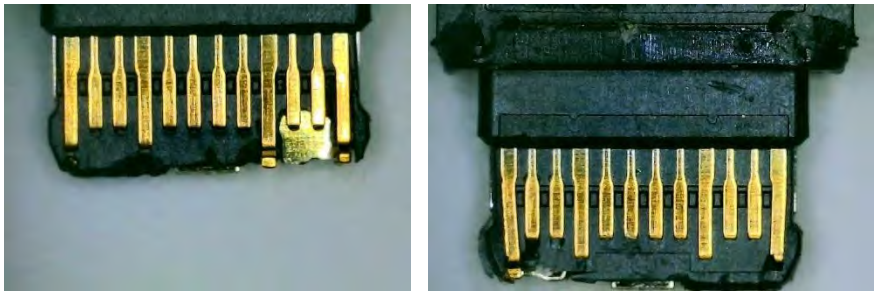
Claim 131 of the '307 Patent	Evidence of Infringement
thereby configured such that:	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.  In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

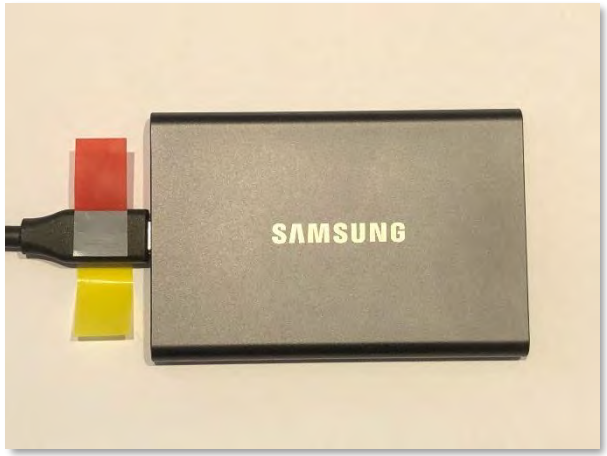
Claim 131 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**131K**] through [**131L**]. *See also* Element [**34J**].
[**131K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

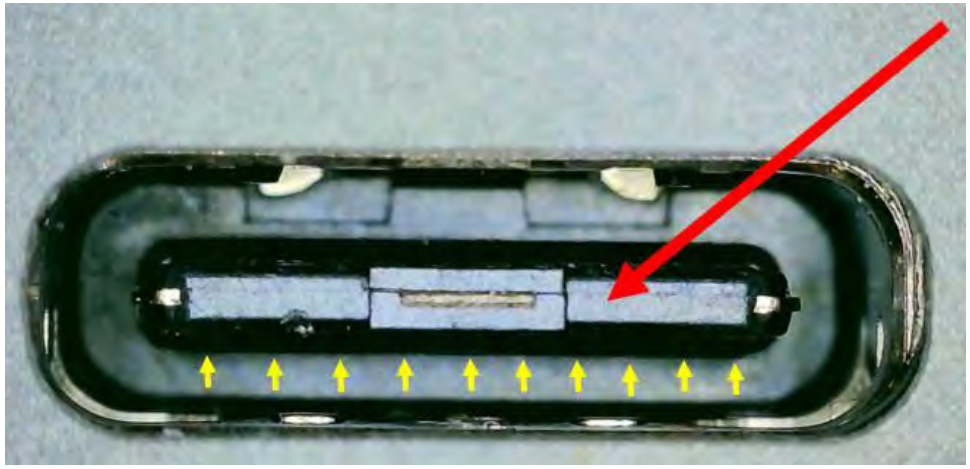
Claim 131 of the '307 Patent	Evidence of Infringement
	  (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34K**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

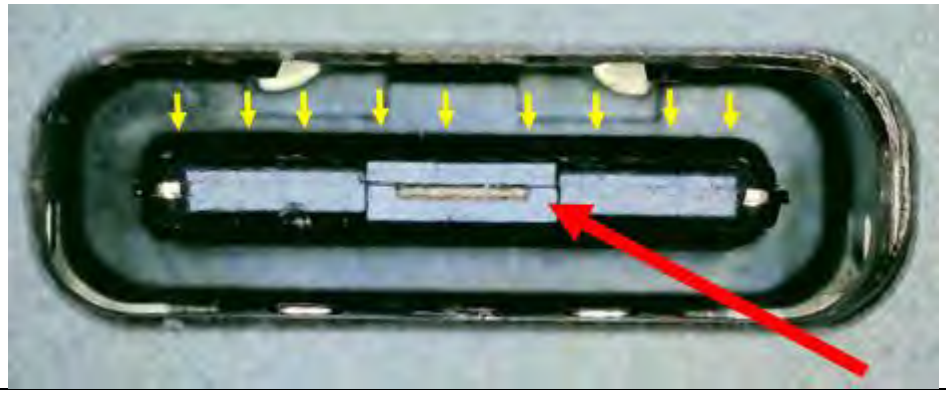
Claim 131 of the '307 Patent	Evidence of Infringement
[**131L**] when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts.	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	See also Element [**34M**].

Samsung, EX1004, p. 404

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
[**132A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

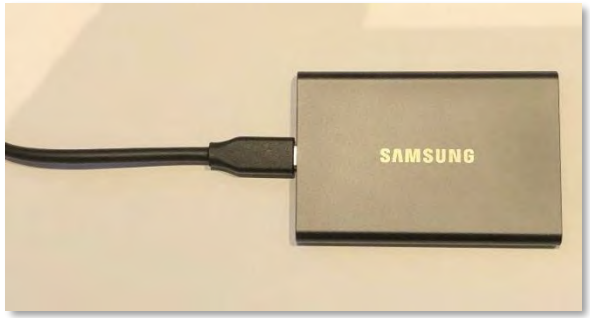
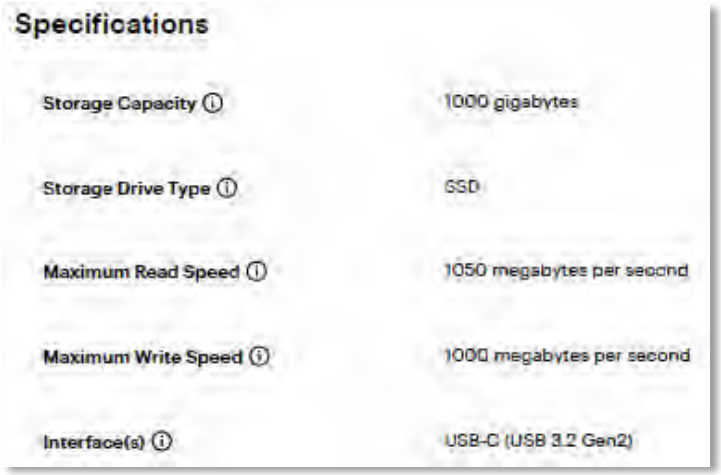
Claim 132 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**132B**] through [**132L**]. *See also* Element [**34A**].
[**132B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

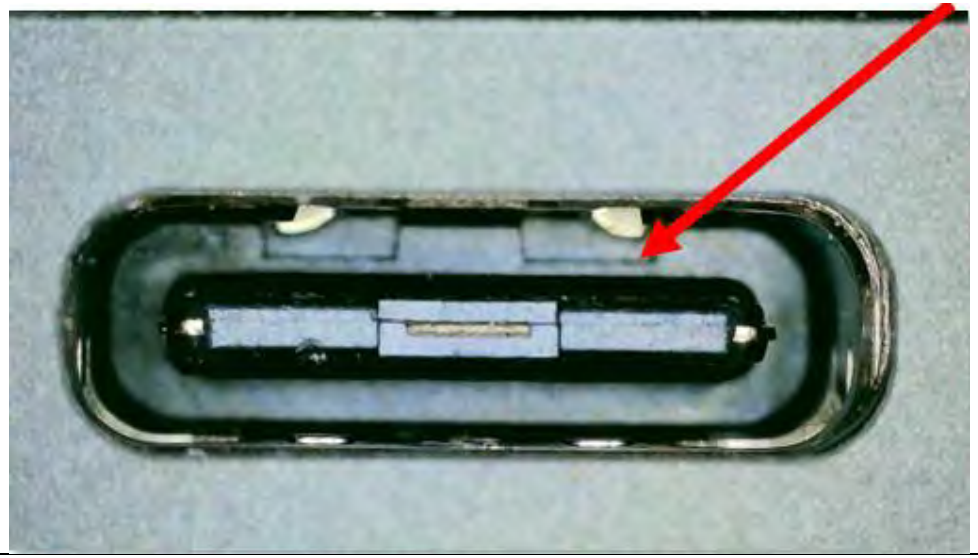
Claim 132 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34B**].
[**132C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

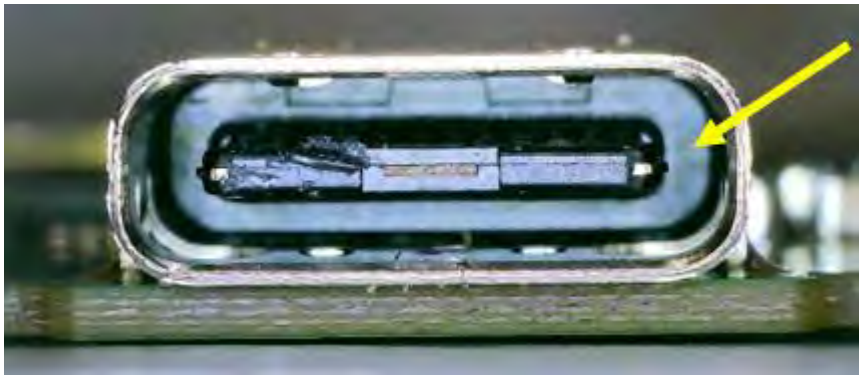
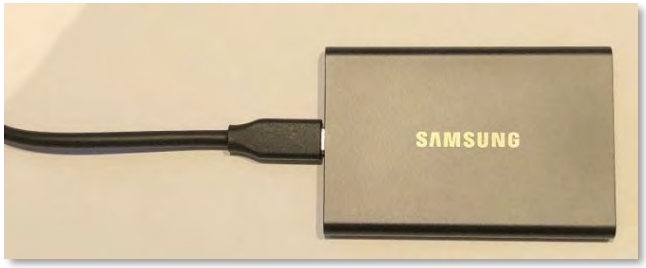
Claim 132 of the '307 Patent	Evidence of Infringement
	The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow.  The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**132D**] a tongue, which has a top side with a first surface with grooves, and a bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The Samsung T7 includes a tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

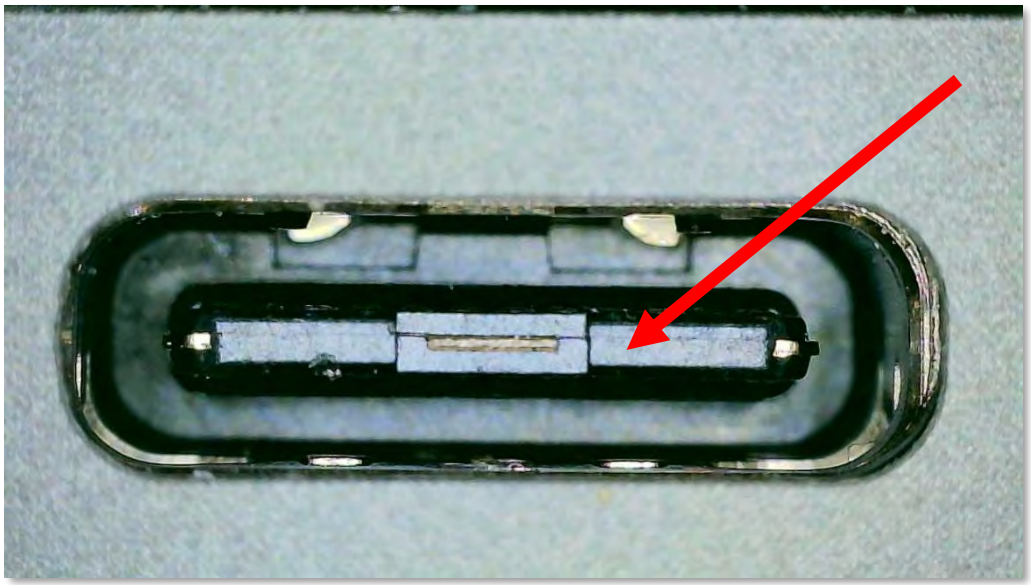
Claim 132 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

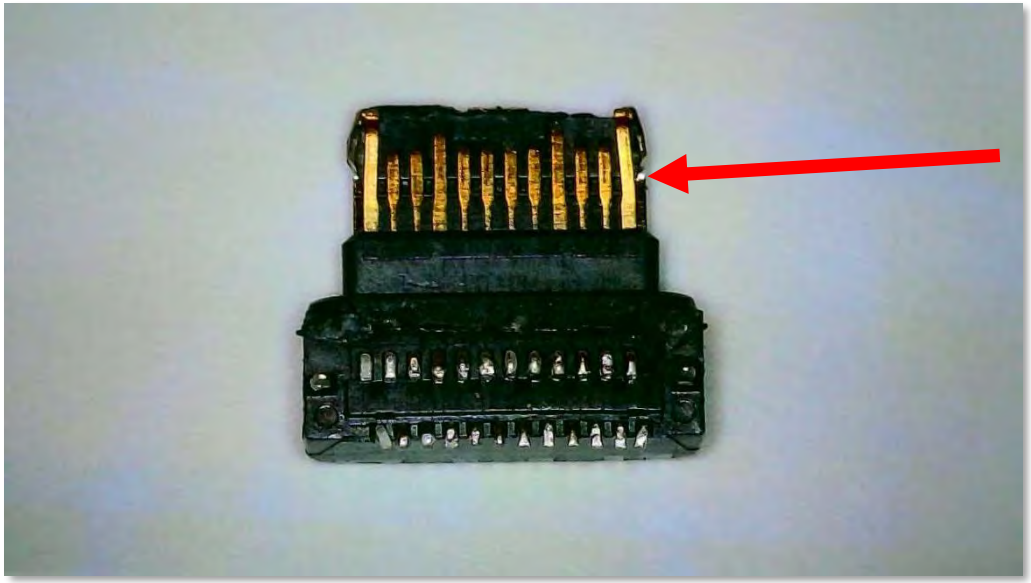
Claim 132 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

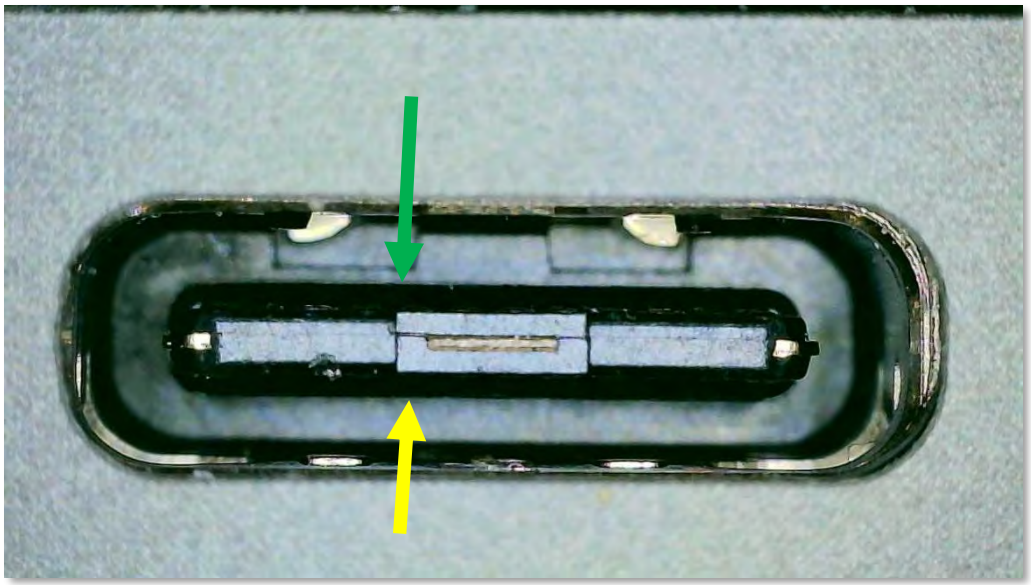
Claim 132 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

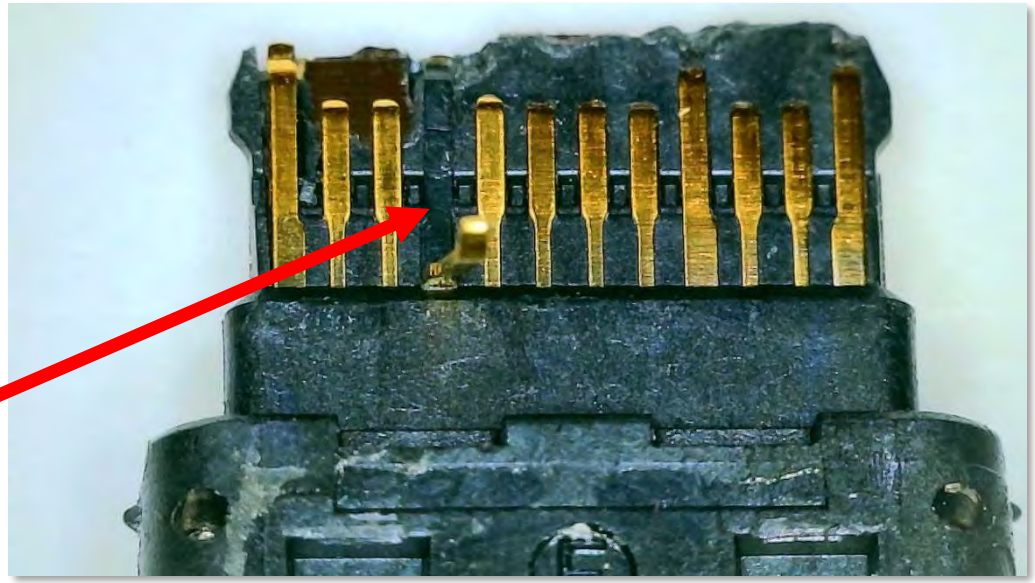
Claim 132 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponds to the side with the second surface as described in element [**34D**].
[**132E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

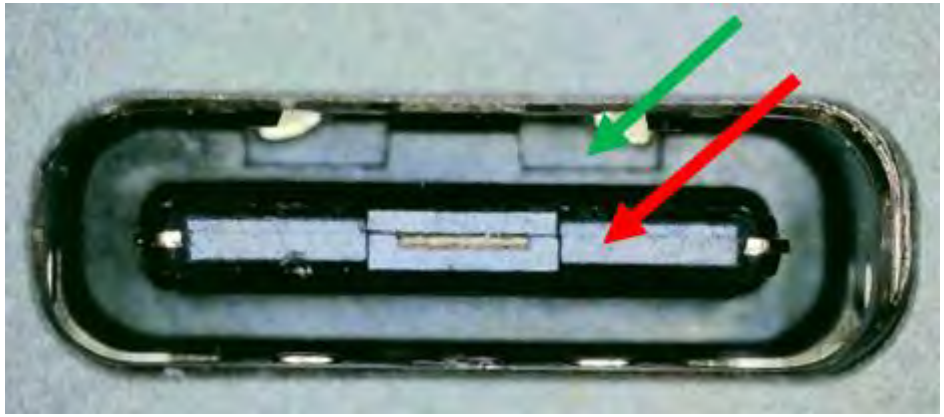
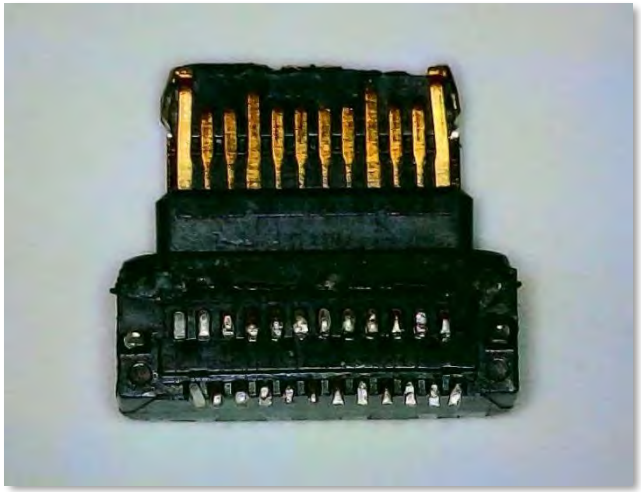
Claim 132 of the '307 Patent	Evidence of Infringement
oppositely inserted and positioned into the connection slot;	  The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

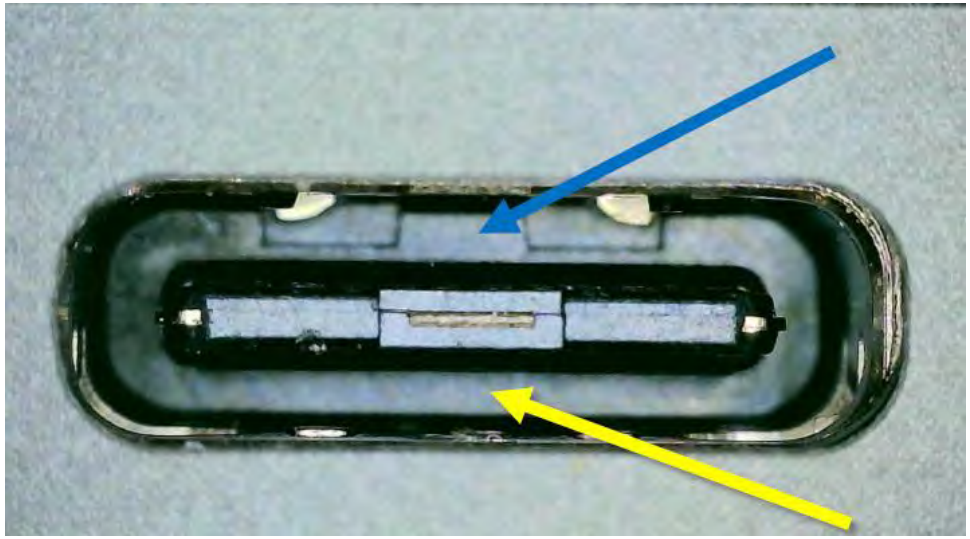
Claim 132 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**132F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

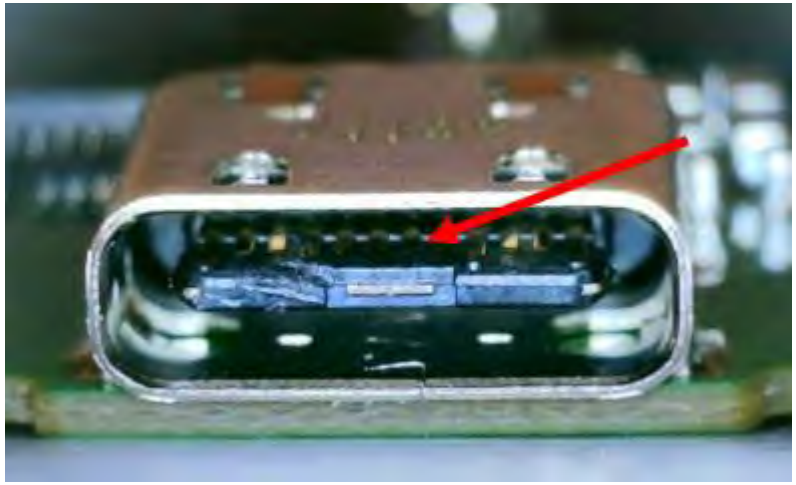
Claim 132 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

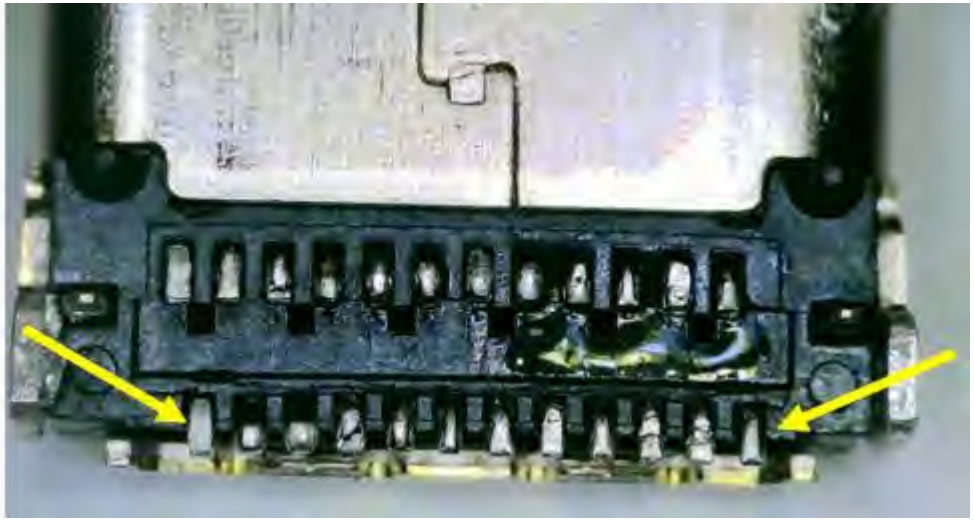
Claim 132 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).  (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34F**].
[**132G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

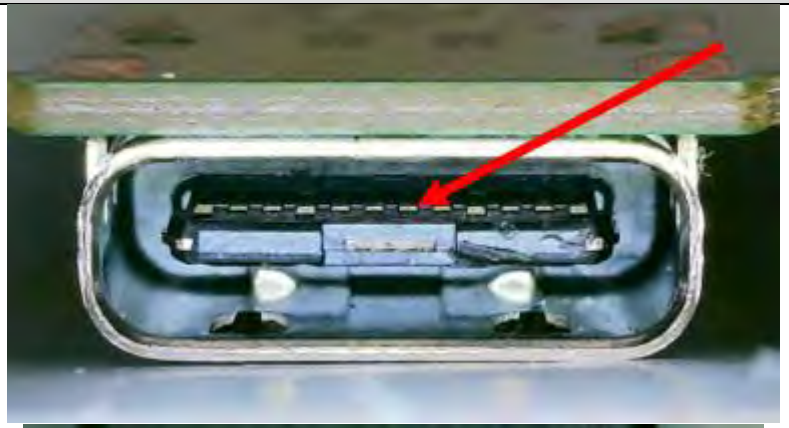
Claim 132 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34G**].
[**132H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**132G**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

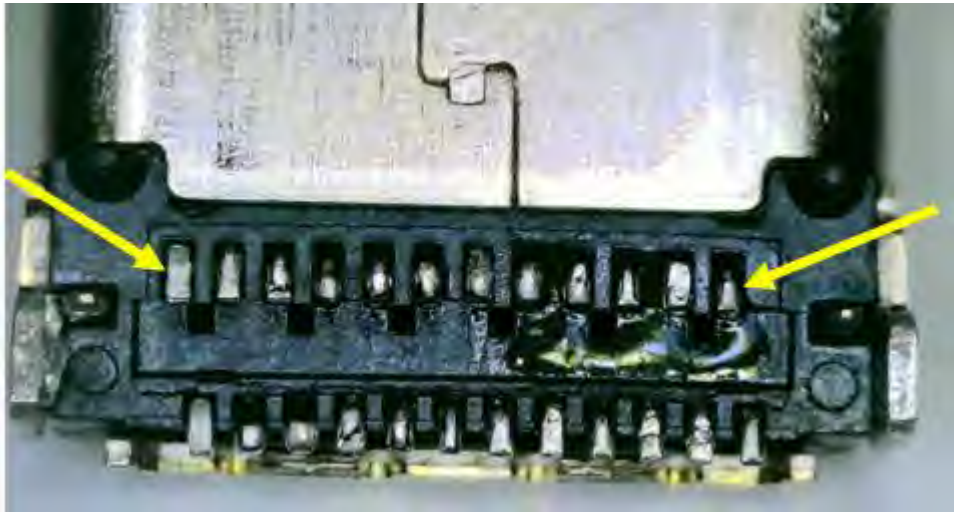
Claim 132 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34H**].
[**132I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

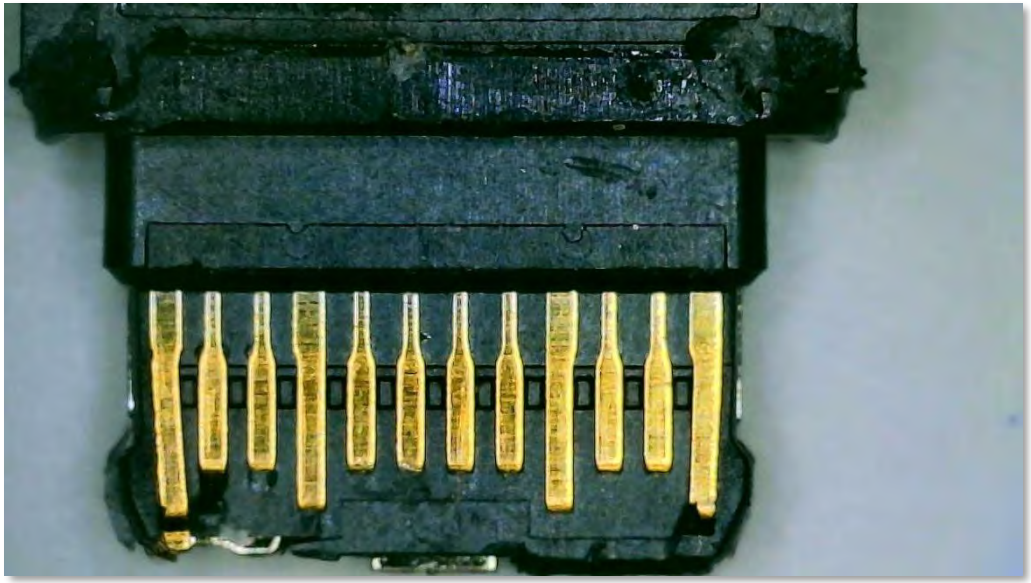
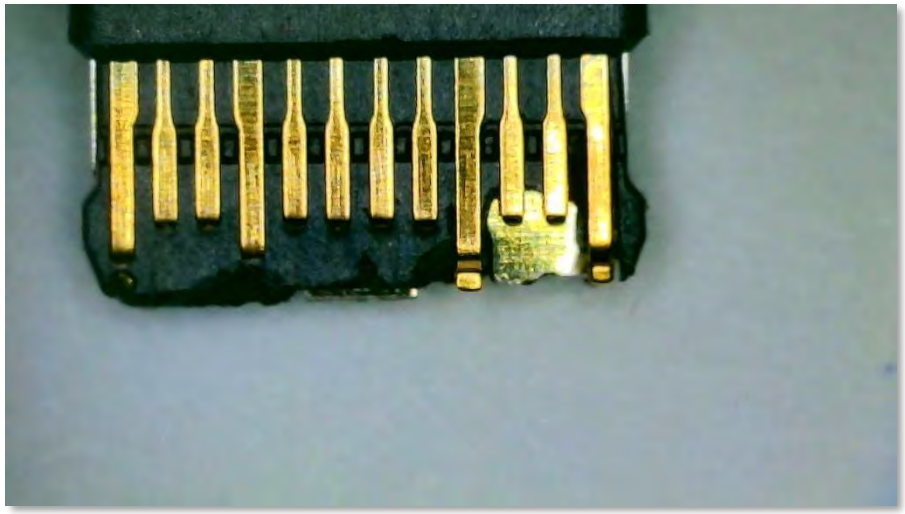
Claim 132 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**132J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

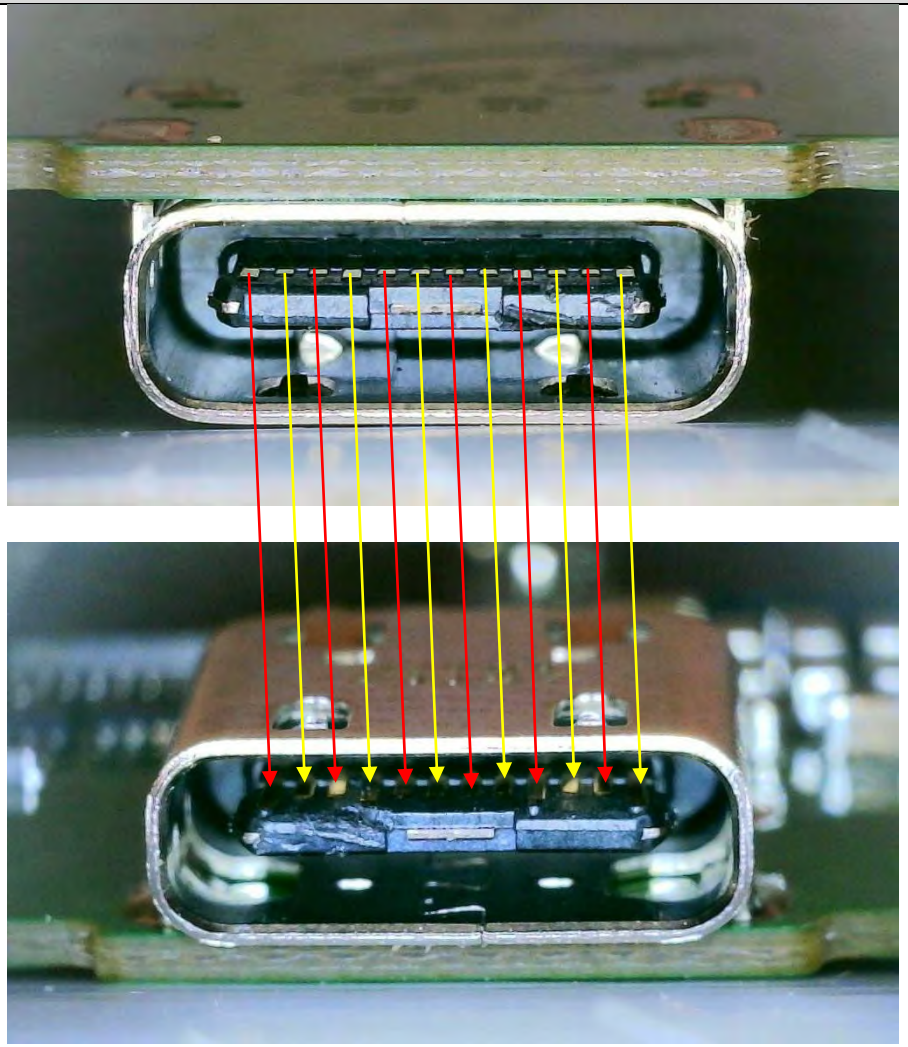
Claim 132 of the '307 Patent	Evidence of Infringement
thereby configured for reversable connection such that:	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

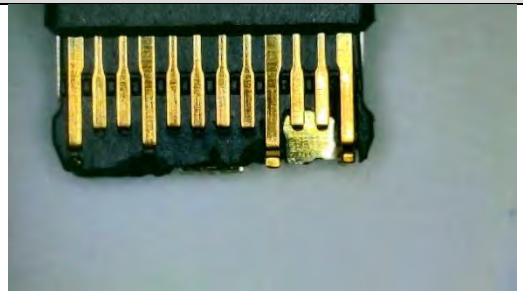
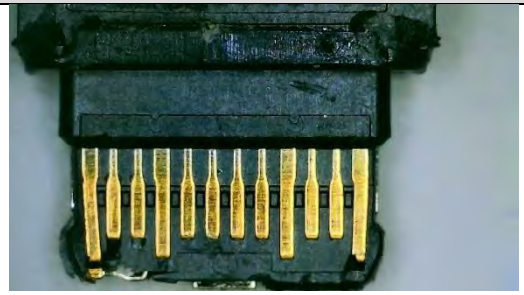
Claim 132 of the '307 Patent	Evidence of Infringement
	  In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement

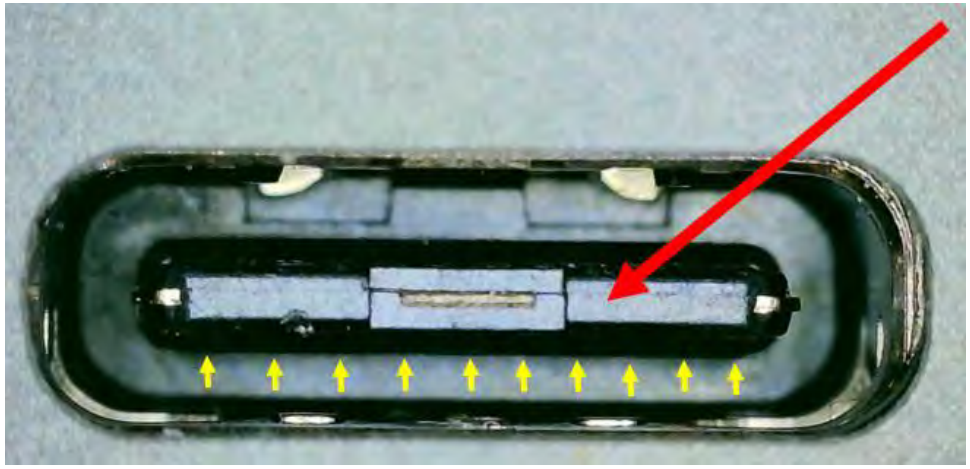
Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	See also Element [**34J**] The socket structure is thereby configured for reversable connection, as described below in connection with elements [**132K**] through [**132L**].
[**132K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

Claim 132 of the '307 Patent	Evidence of Infringement
	  (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**132L**] when the plug is oppositely	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

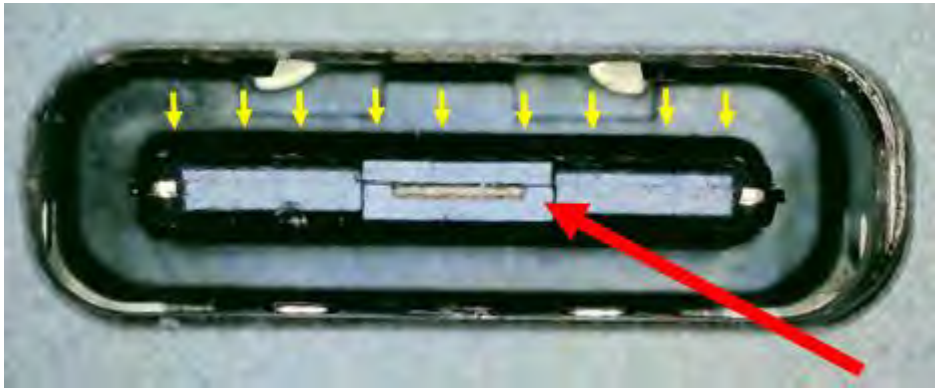
Claim 132 of the '307 Patent	Evidence of Infringement
inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.  *See also* Element [**34M**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Samsung, EX1004, p. 432

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
[**133A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

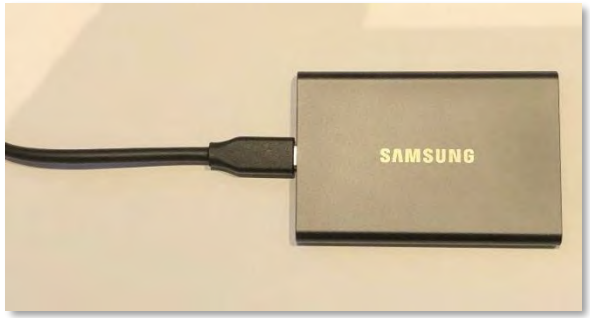
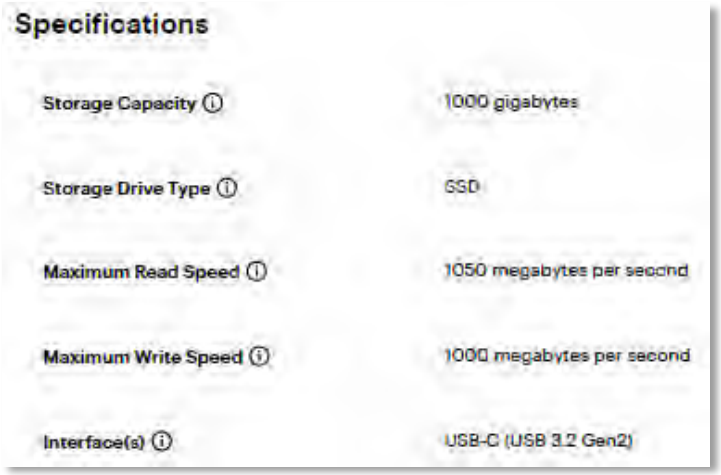
Claim 133 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**133B**] through [**133N**]. *See also* Element [**34A**].
[**133B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

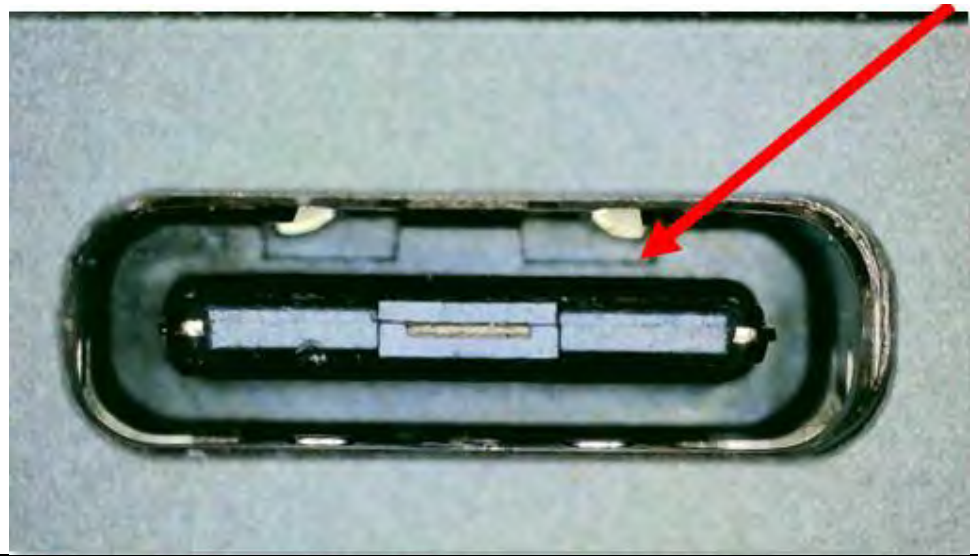
Claim 133 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34B**].
[**133C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

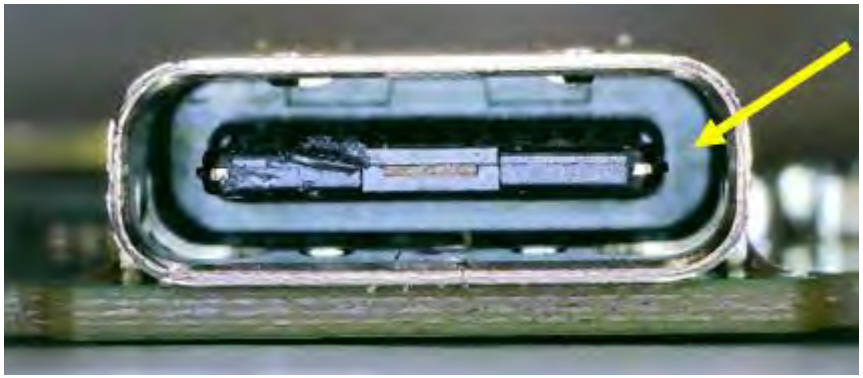
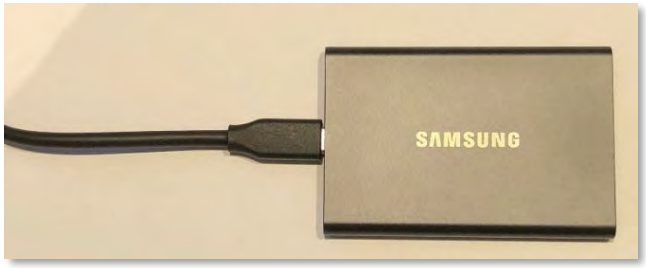
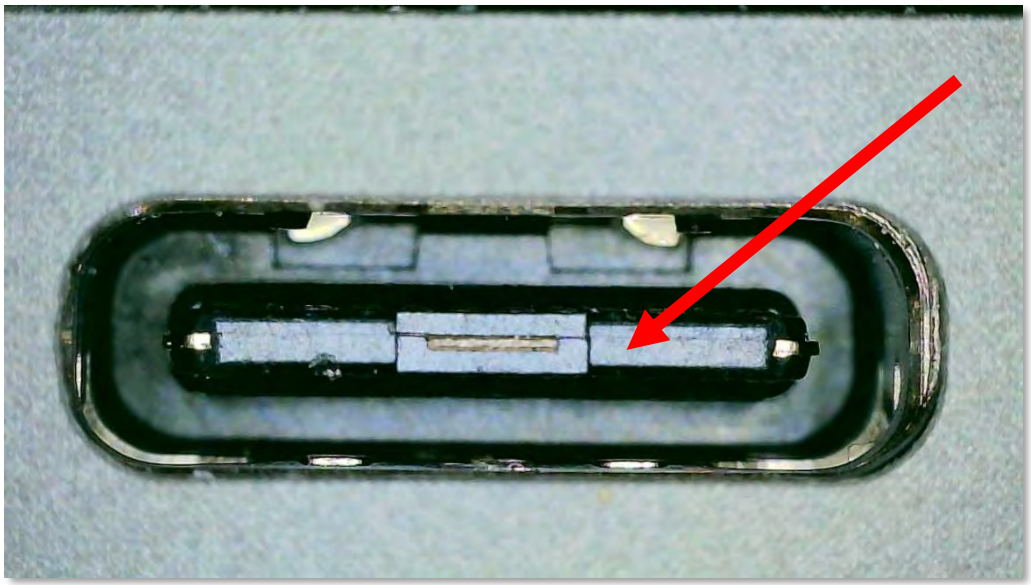
Claim 133 of the '307 Patent	Evidence of Infringement
	The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow.  The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**133D**] a tongue, which has a first surface with recesses, and a second surface with recesses, the second surface disposed opposite the first surface,	The Samsung T7 includes a tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 440

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

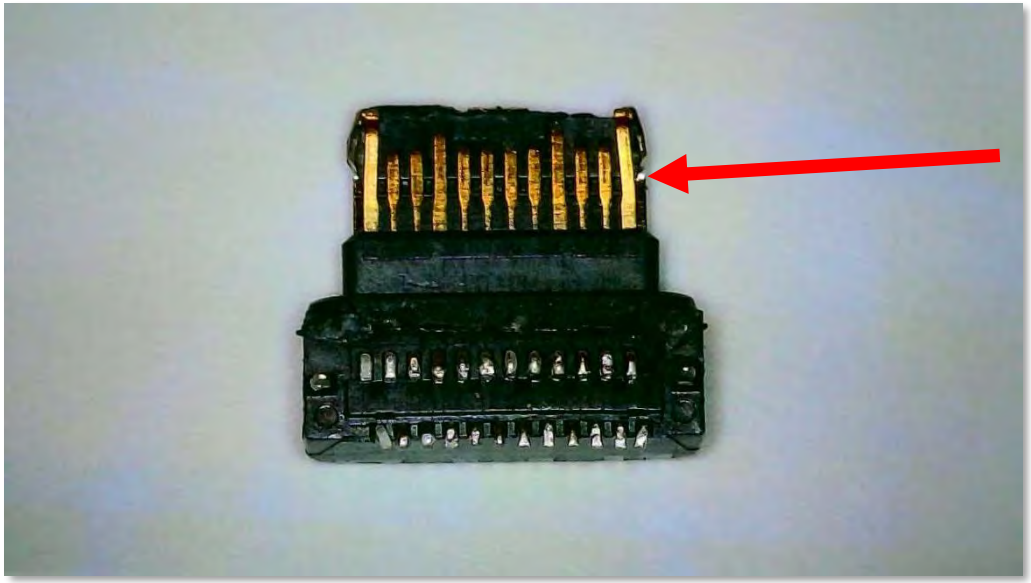
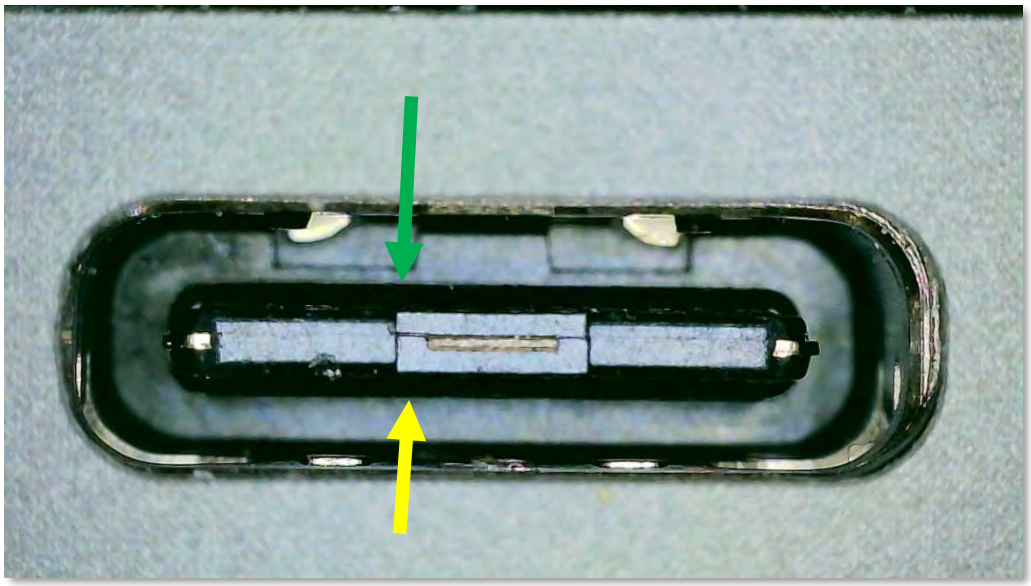
Claim 133 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has recesses.

Samsung, EX1004, p. 442

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

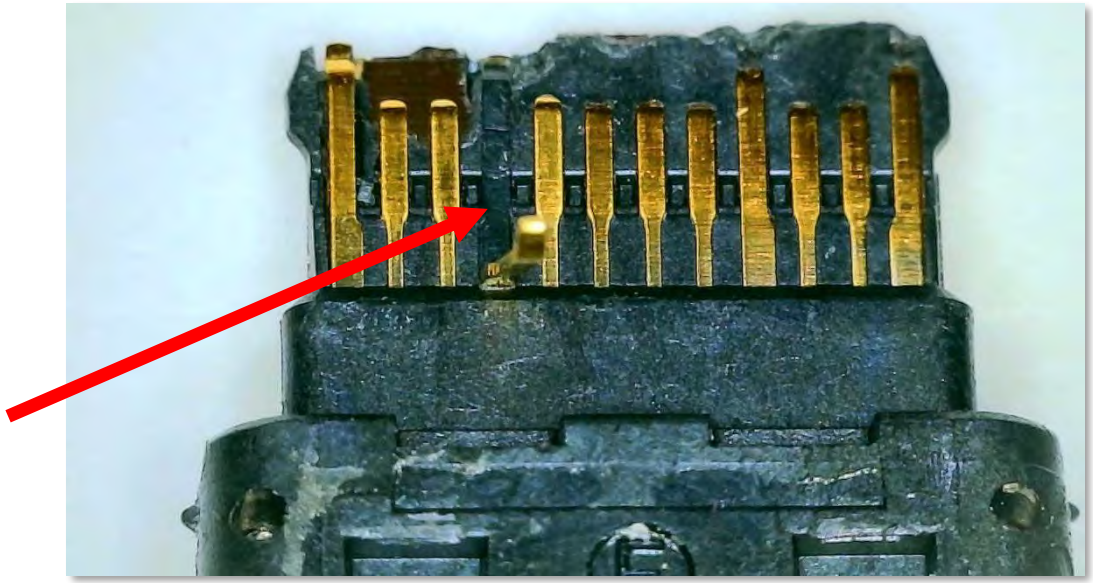
Claim 133 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**130D**]
[**133E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

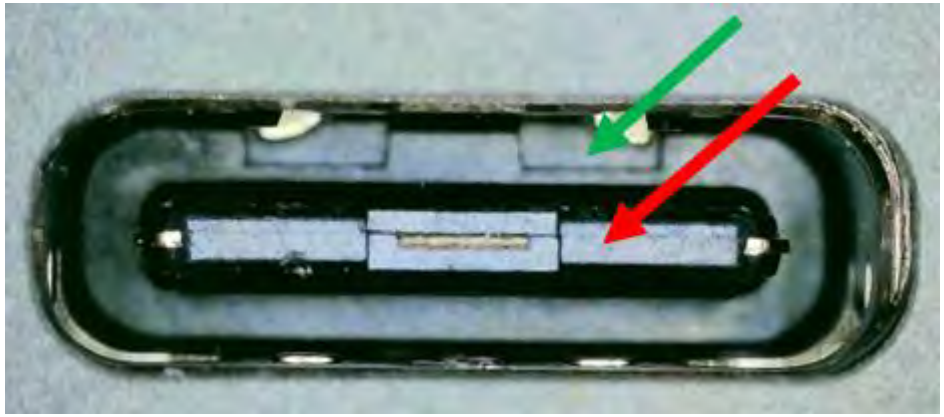
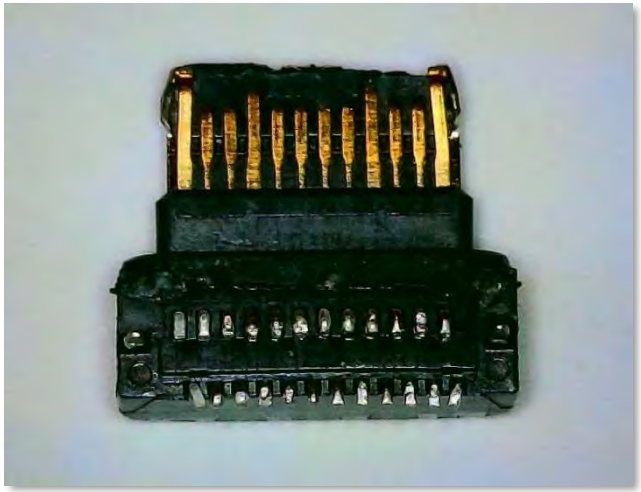
Claim 133 of the '307 Patent	Evidence of Infringement
and positioned into the connection slot;	  The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

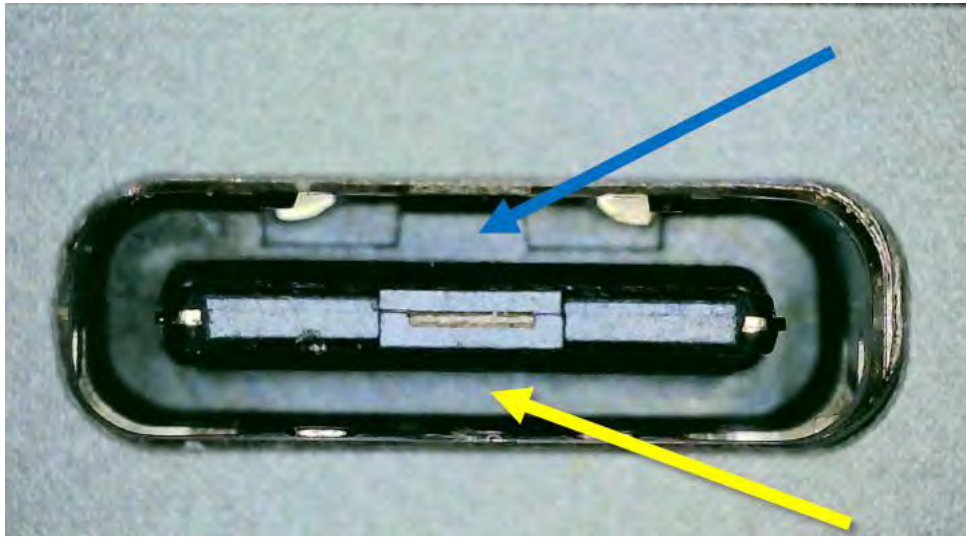
Claim 133 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**133F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

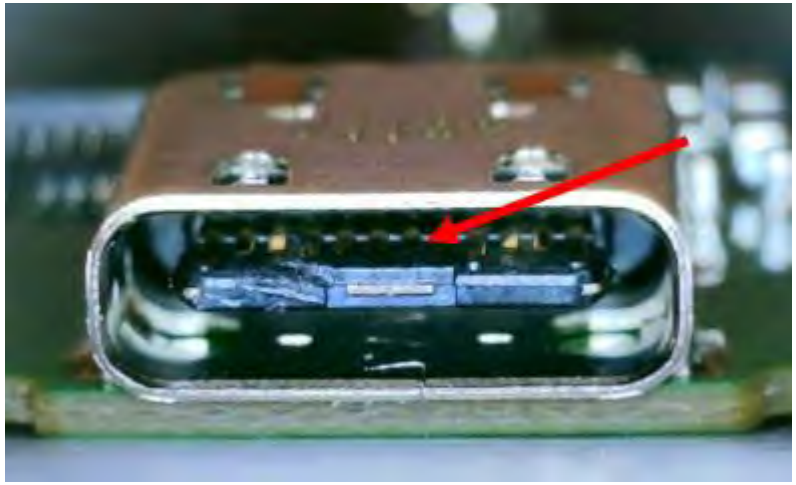
Claim 133 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

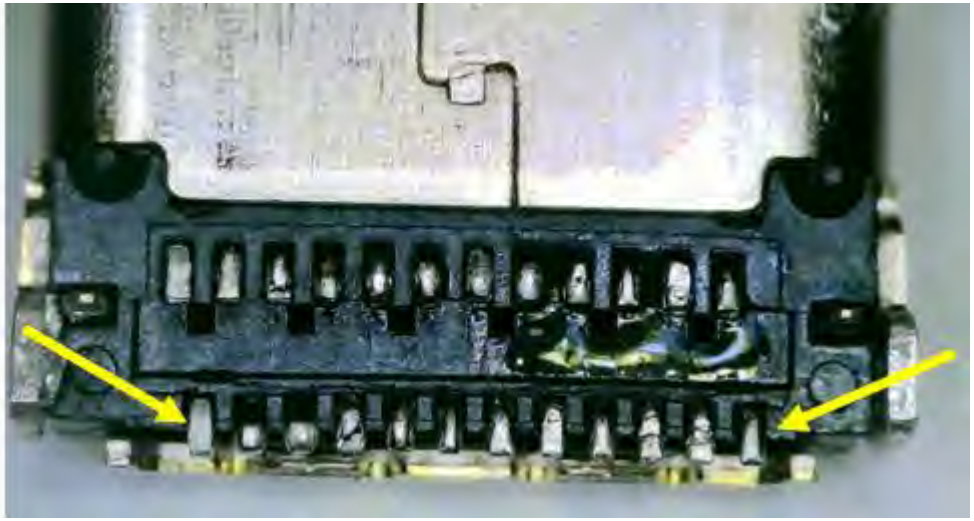
Claim 133 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).  (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34F**].
[**133G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

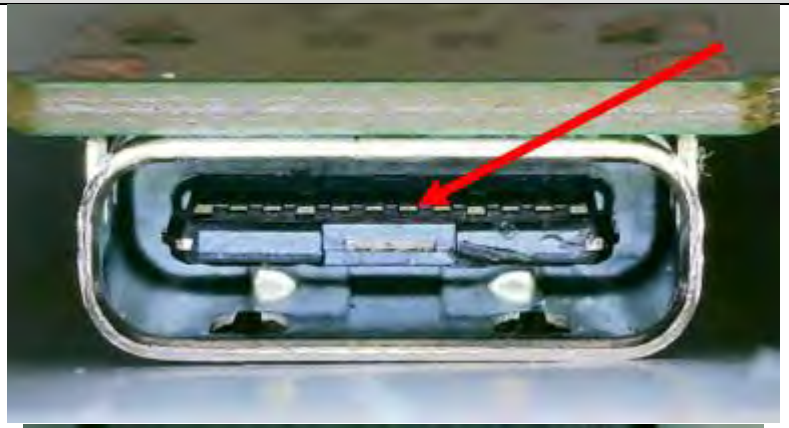
Claim 133 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34G**].
[**133H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**133G**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

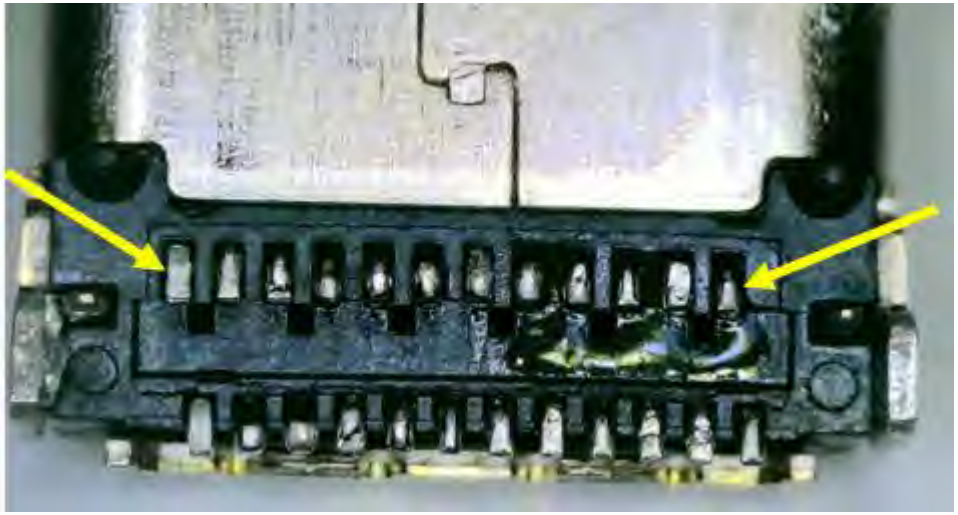
Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34H**].
[**133I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

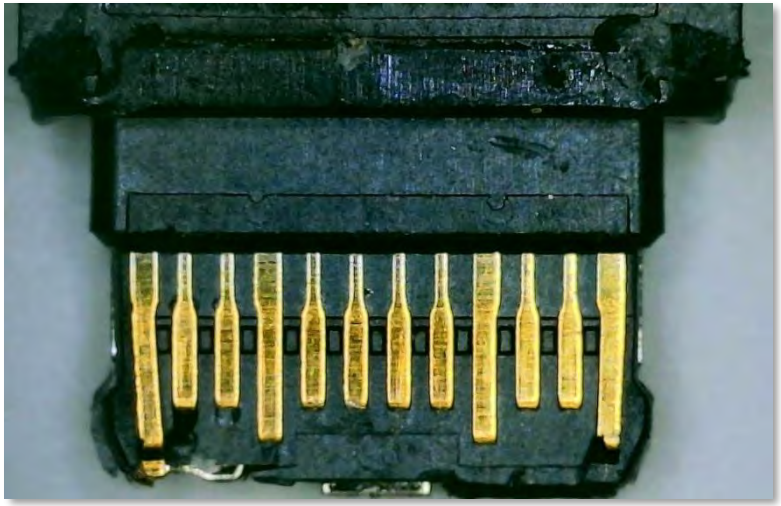
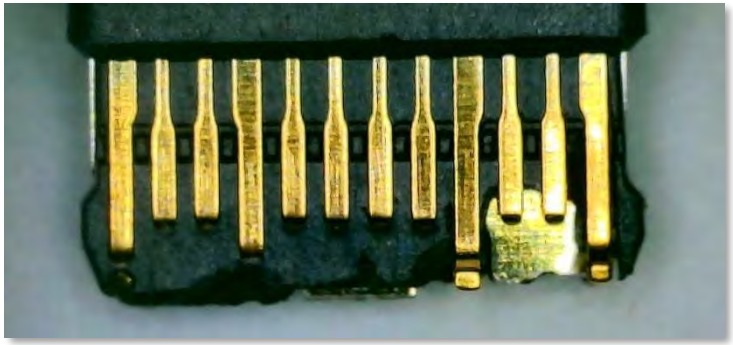
Claim 133 of the '307 Patent	Evidence of Infringement
	  The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**133J**] some of the at least one row of first contacts has a functional reverse mirror configuration relative to some of the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

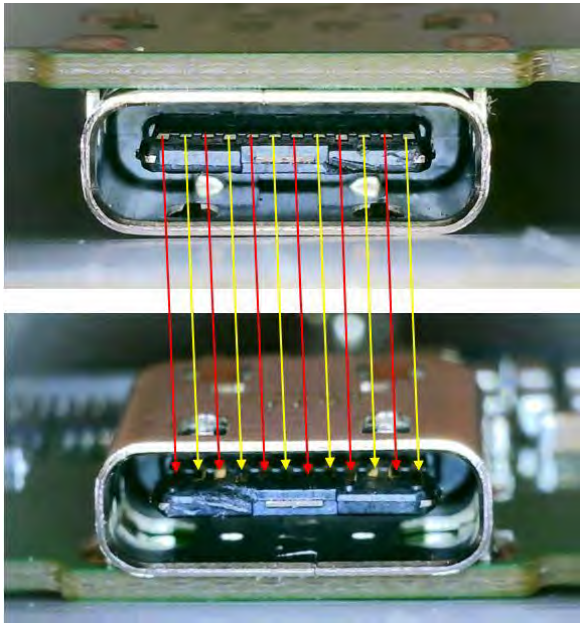
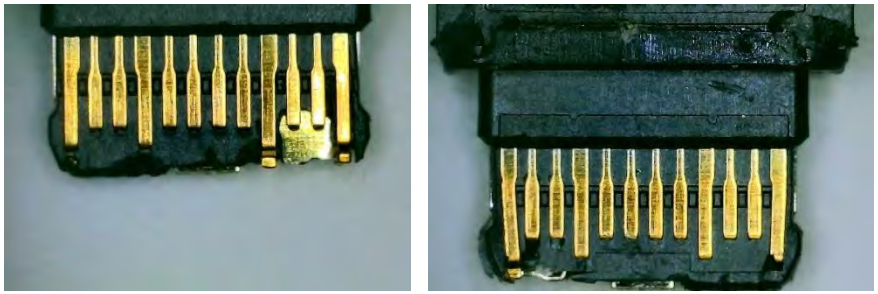
Claim 133 of the '307 Patent	Evidence of Infringement
	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.  In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement

Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

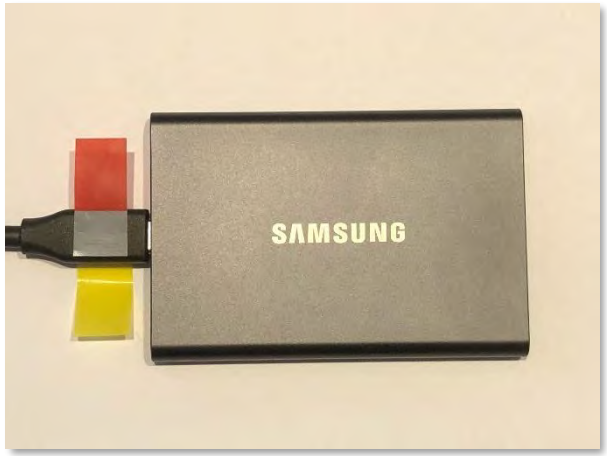
Claim 133 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**133K**] through [**133N**]. *See also* Element [**34J**].
[**133K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed within the connection slot,	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

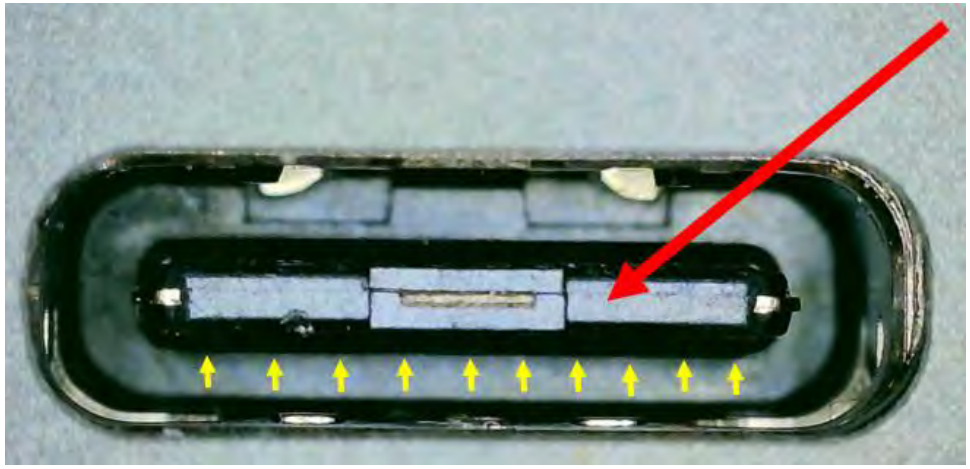
Claim 133 of the '307 Patent	Evidence of Infringement
	  (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34K**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

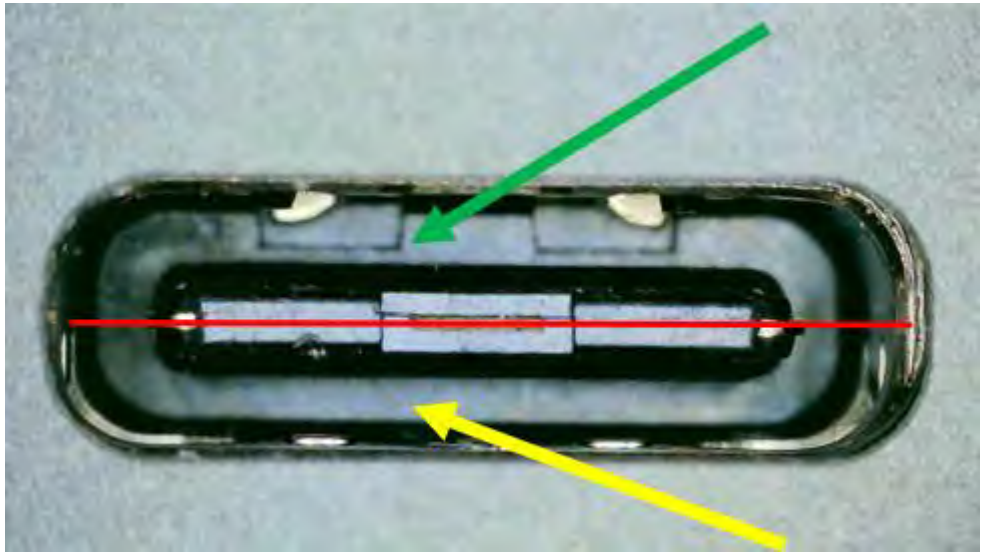
Claim 133 of the '307 Patent	Evidence of Infringement
[**133L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung T7 is configured for a first operational state as described above in connection with element [**133K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.  The left and right chambers are separated by red lines, and are indicated by blue and orange arrows respectively, in the image below.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

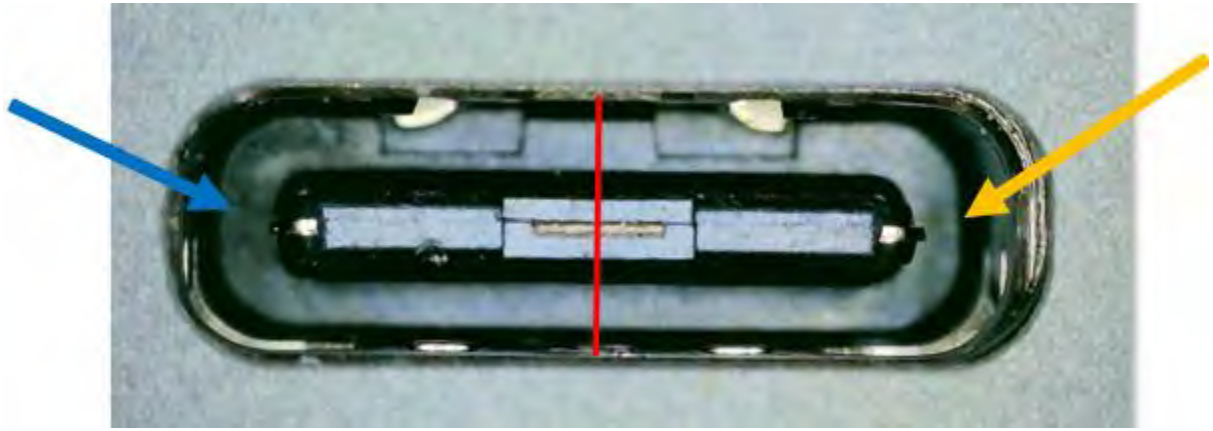
Claim 133 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**].
[**133M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

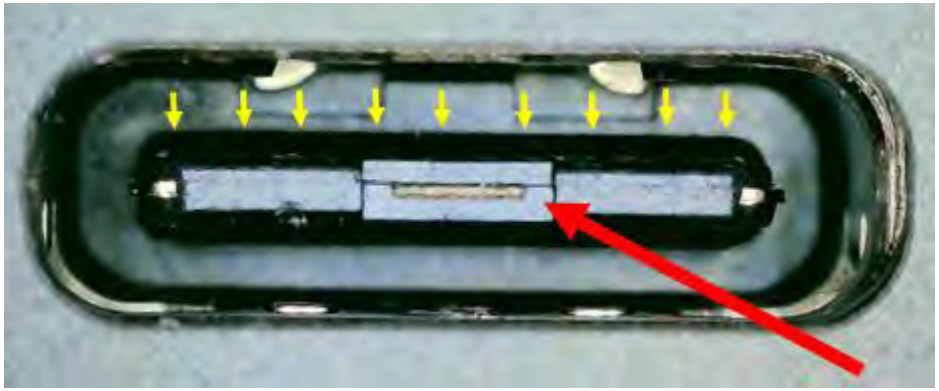
Claim 133 of the '307 Patent	Evidence of Infringement
least one row of first contacts, and the tongue is disposed within the connection slot,	at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.  *See also* Element [**34M**].
[**133N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**133L**]. *See also* Element [**34N**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
[**134A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung T7 is a solid state drive that includes a socket structure with duplex electrical connection. In particular, the Samsung T7 provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/computing/memory-storage/portable-solid-state-drives/portable-ssd-t7-usb-3-2-1tb--gray--mu-pc1t0t-am/ (accessed April 9, 2025). The Samsung T7 is packaged with, among other things, a USB-C to USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image from box for Samsung T7.) The port on the Samsung T7 is compatible with the USB-C cable.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

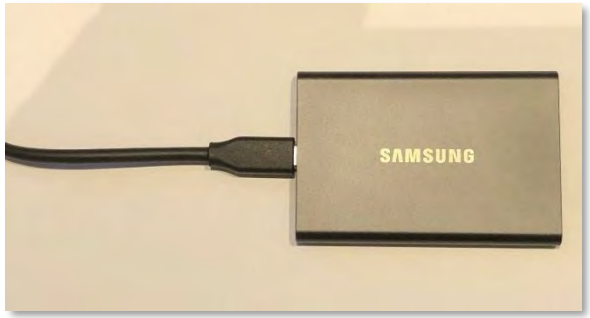
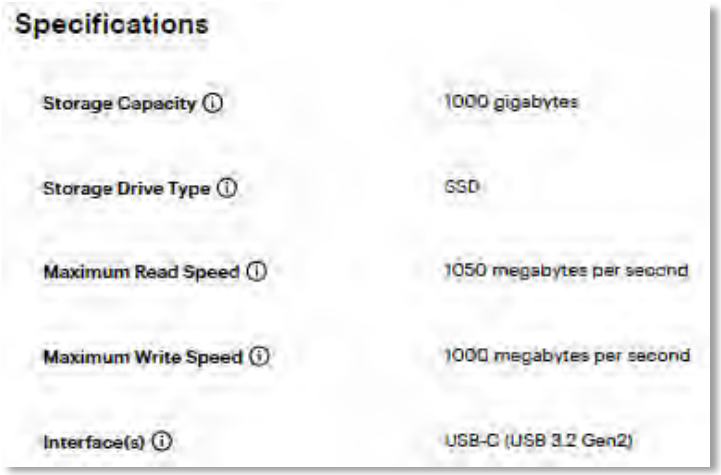
Claim 134 of the '307 Patent	Evidence of Infringement
	 Furthermore, sellers of the Samsung T7 advertise that the Samsung T7 has a USB-C interface.  *See* https://www.bestbuy.com/site/samsung-t7-1tb-external-usb-3-2-gen-2-portable-ssd-with-hardware-encryption-titan-gray/6408299.p?skuId=6408299 (accessed April 23, 2025).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	• Provides more productive performance and superior data storage for a variety of files • Provides additional and convenient backup of your files and data • Store as many documents, pictures and videos as you need with 2 TB capacity • The high-read speed of 1050 MB/s maximizes system performance and saves time while you are doing complex tasks • With the high-write speed of 1000 MB/s, get a quick response when updating or transferring files • USB 3.2 (Gen 2) Type C host interface ensures dependable data transfer for maximum efficiency • 256-bit encryption protects your PC from hackers and thieves by encoding all your data *See* https://www.dell.com/en-us/shop/samsung-t7-mu-pc2t0t-am-2-tb-portable-solid-state-drive-external-pci-express-nvme-titan-gray/apd/ab149756/storage-drives-media (accessed April 23, 2025). Further details regarding the socket structure are described below in connection with elements [**134B**] through [**134L**]. *See also* Element [**34A**].
[**134B**] a plastic base;	The Samsung T7 has a socket structure including a plastic base. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

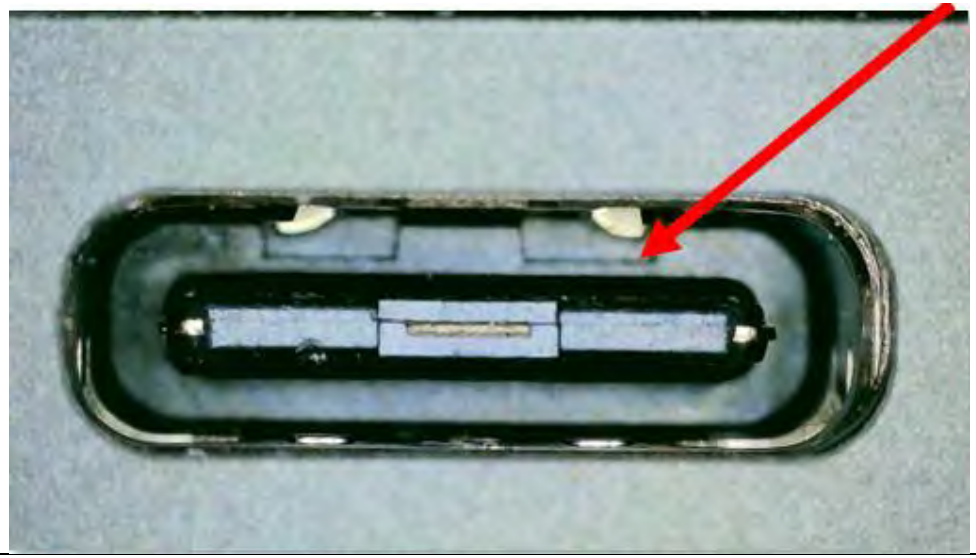
Claim 134 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34B**].
[**134C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The Samsung T7 has a socket structure including a connection slot. The connection slot is defined by a metal housing. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

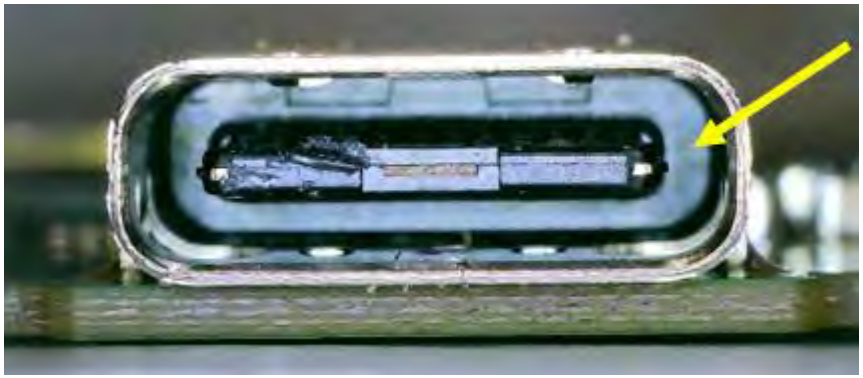
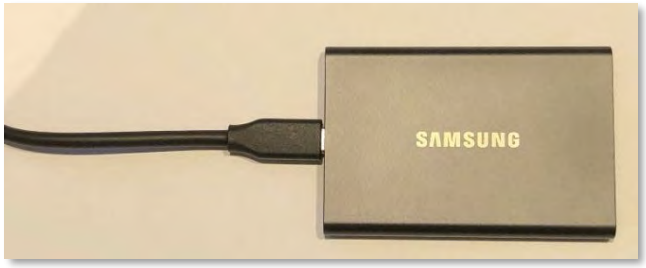
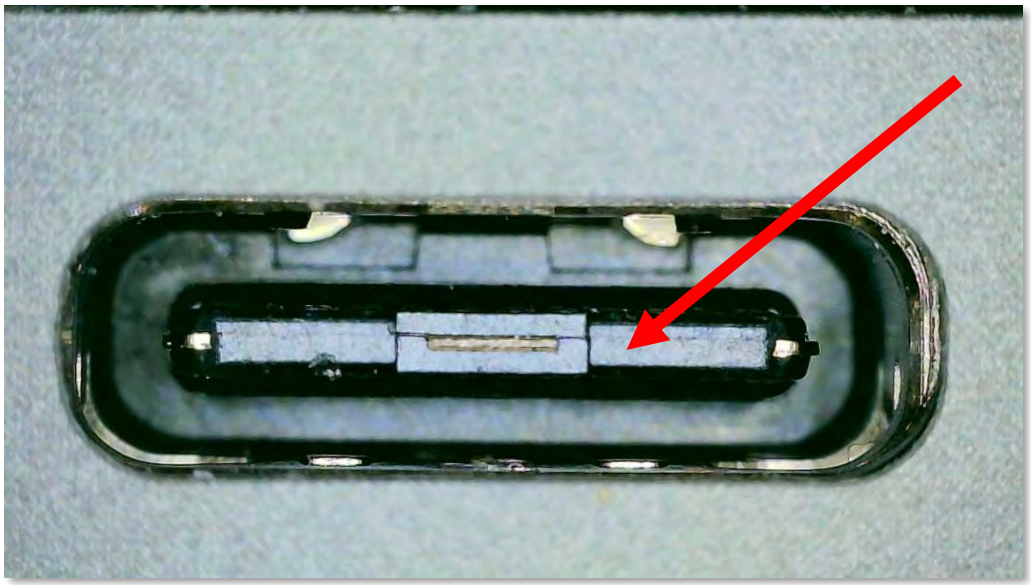
Claim 134 of the '307 Patent	Evidence of Infringement
	The connection slot is disposed in front of the plastic base, which is indicated by a yellow arrow.  The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to the included USB-C plug which has at least one row of connection terminals.  (Image showing USB-C cable connected to Samsung SSD T7 via the connection slot.)

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**134D**] a tongue, which has a top side with a first surface with grooves, and bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The Samsung T7 includes a tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 468

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

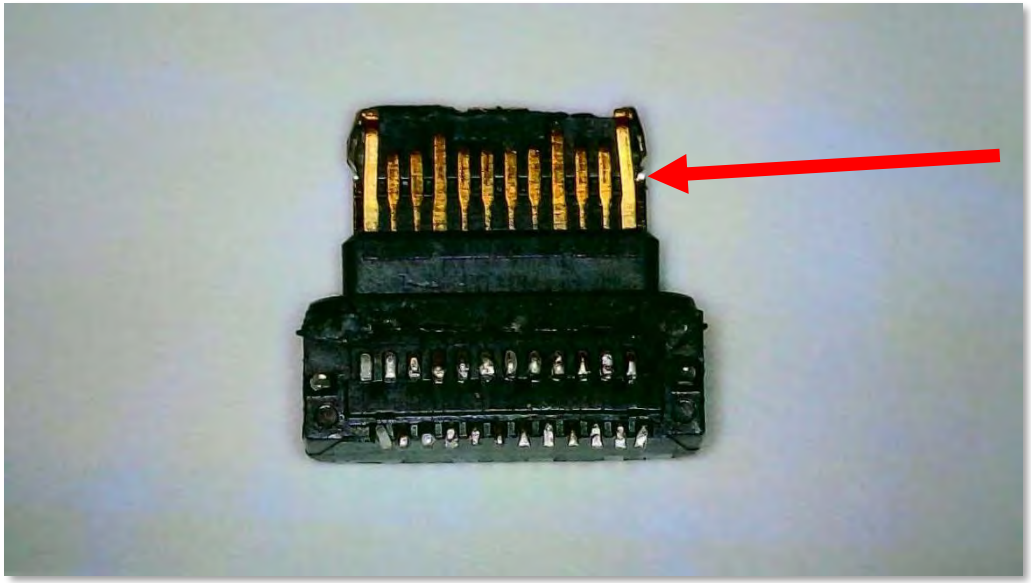
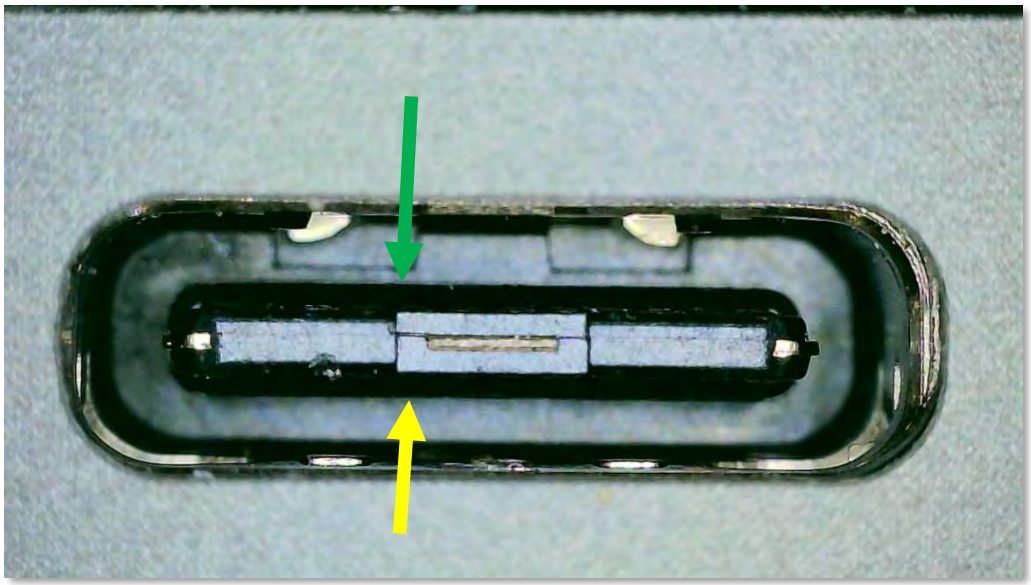
Claim 134 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

Samsung, EX1004, p. 470

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

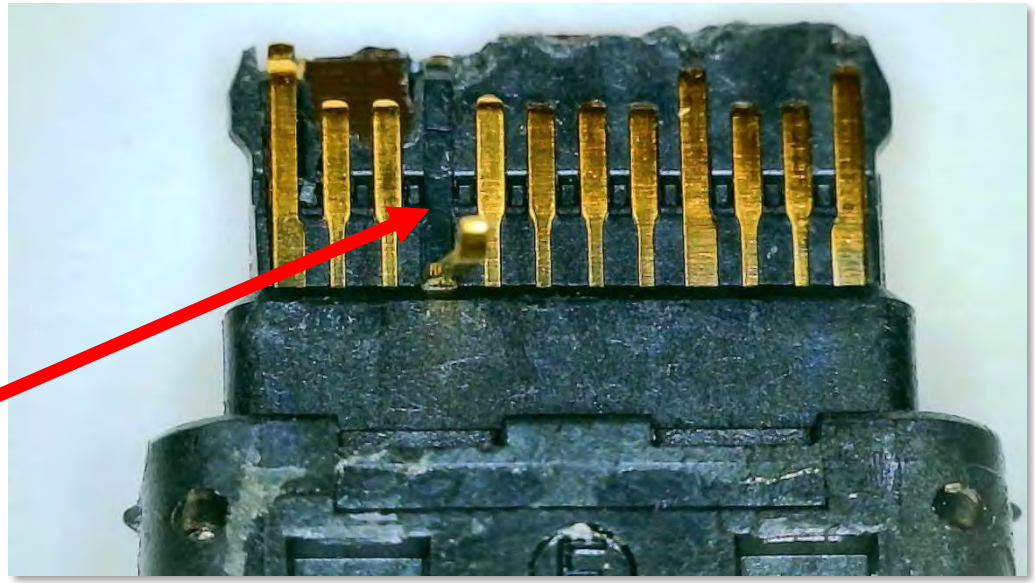
Claim 134 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponds to the side with the second surface as described in element [**34D**].
[**134E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and	The tongue of the Samsung T7 (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

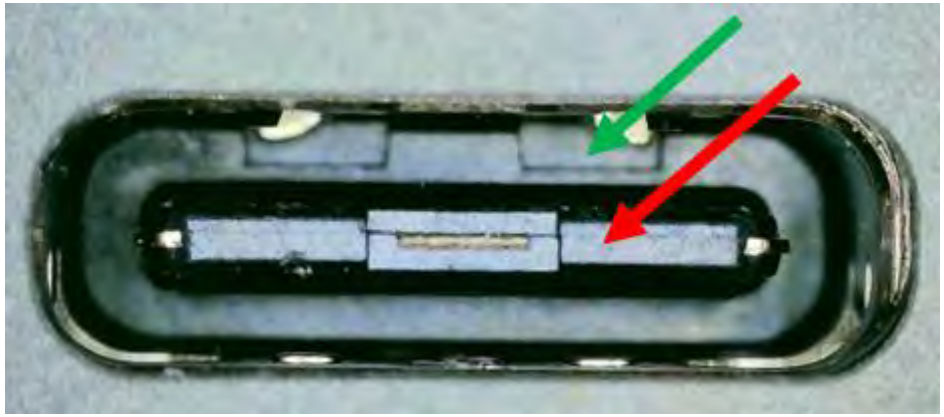
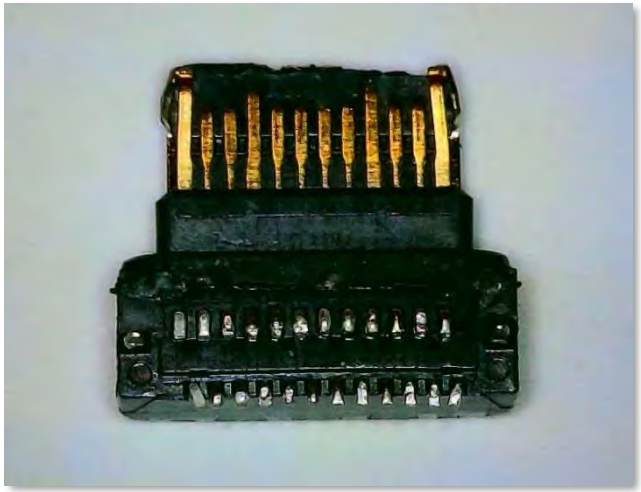
Claim 134 of the '307 Patent	Evidence of Infringement
oppositely inserted and positioned into the connection slot;	  The placement of the tongue within the connection slot provides a chamber on a first (top) side of the connection slot (indicated by a blue arrow) and a chamber on a second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

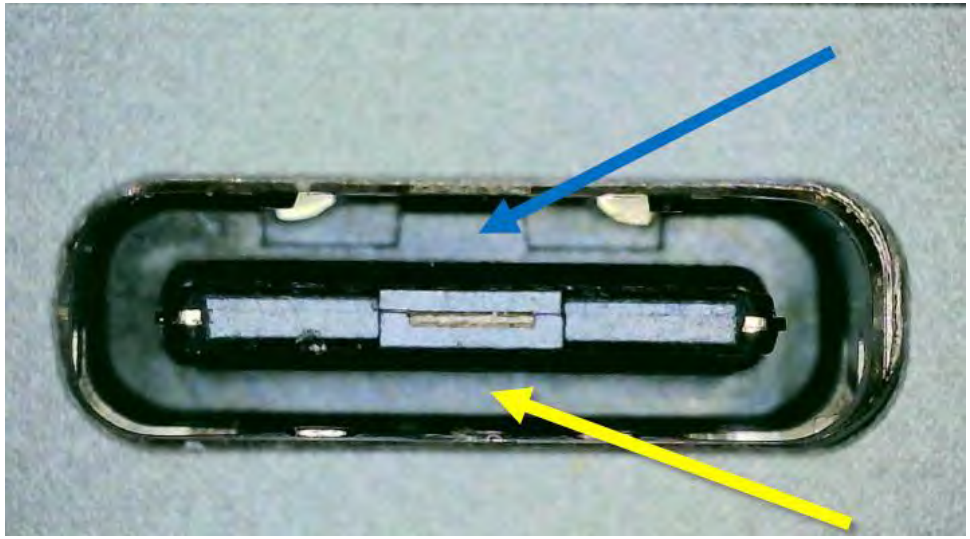
Claim 134 of the '307 Patent	Evidence of Infringement
	 These chambers allow the USB-C plug to be inserted and positioned into the connection slot both normally and oppositely. 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug, showing that the plug can be connected to the socket structure of the Samsung T7 when the side of the plug indicated with the red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**134F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a first pin extending out of the plastic base; and	The Samsung T7 includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

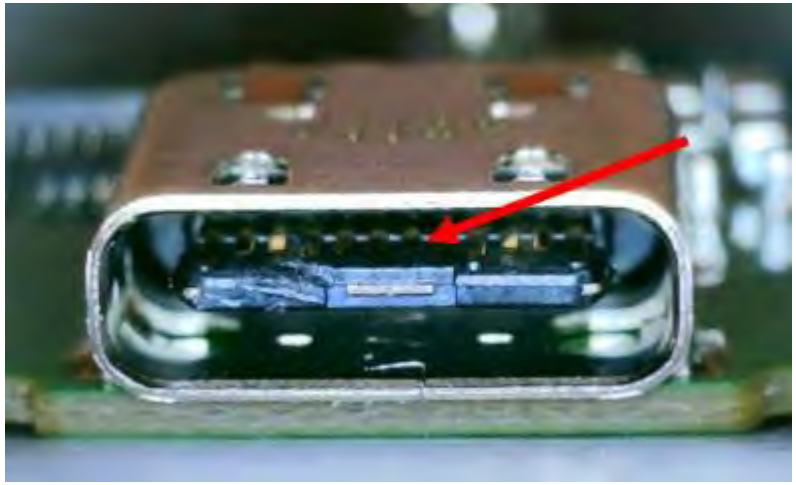
Claim 134 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

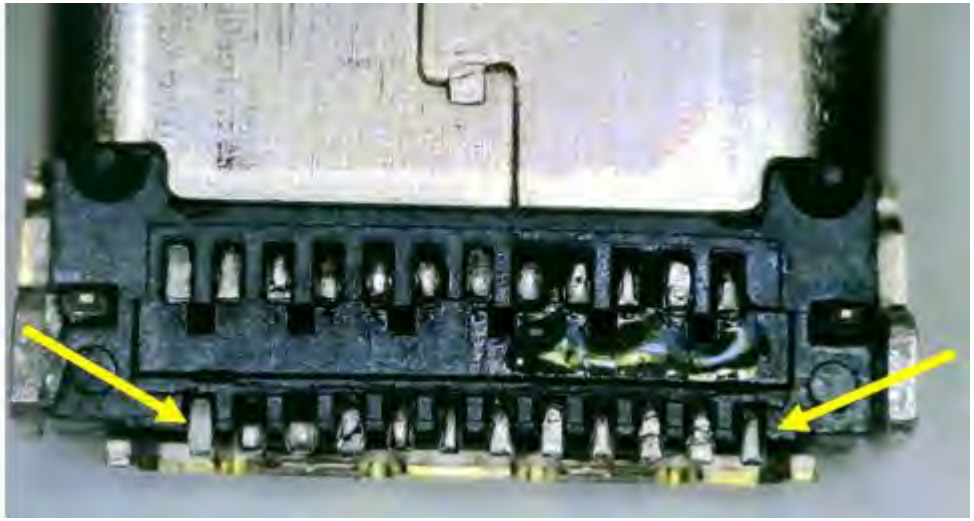
Claim 134 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, on information and belief, the outer first contacts (indicated by the green arrows) are electrically connected to the outer first pins extending out of the plastic base (indicated by the yellow arrows).  (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34F**].
[**134G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung T7 includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

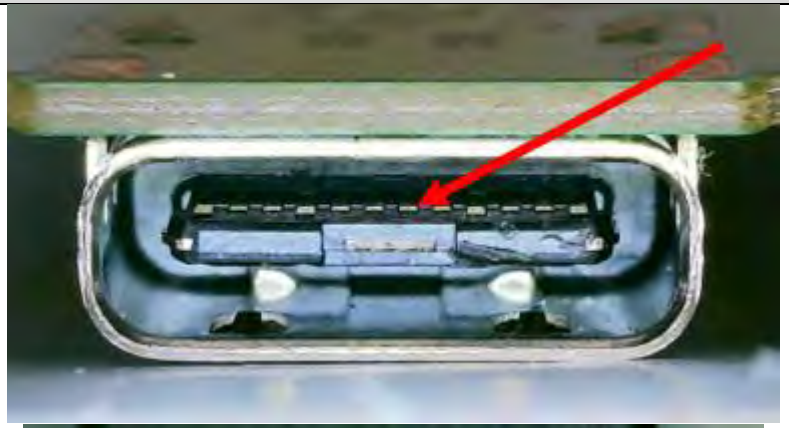
Claim 134 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34G**].
[**134H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, on information and belief, the outermost second contacts (indicated with the green arrows in element [**134G**] above) are electrically connected to the respective outermost pins extending out of the plastic base (indicated with yellow arrows in the image below).

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

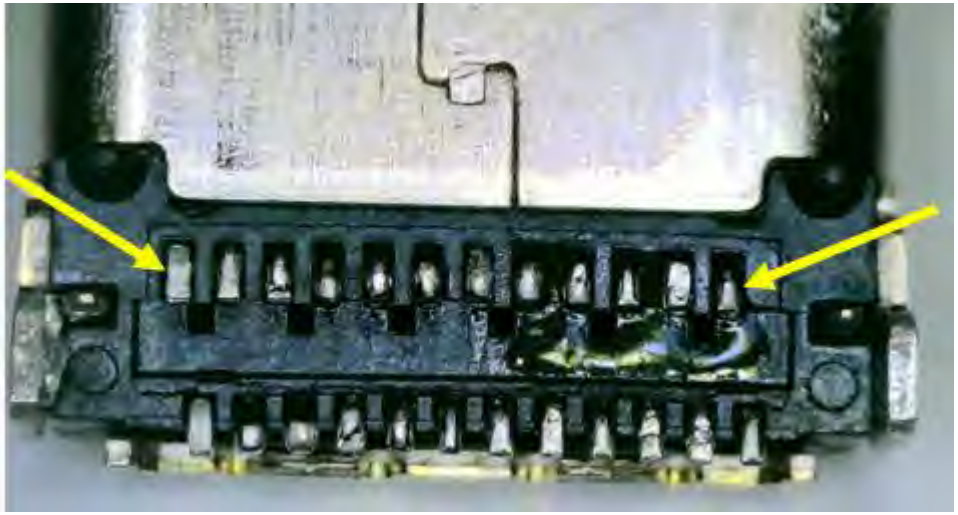
Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image of bottom of USB socket, i.e., the side adjacent to the PCB.) Furthermore, testing confirms that each of the contacts is electrically connected to one of the pins extending out of the plastic base. *See also* Element [**34H**].
[**134I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung T7 is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung T7 has electrical contacts on the top and bottom of the tongue.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

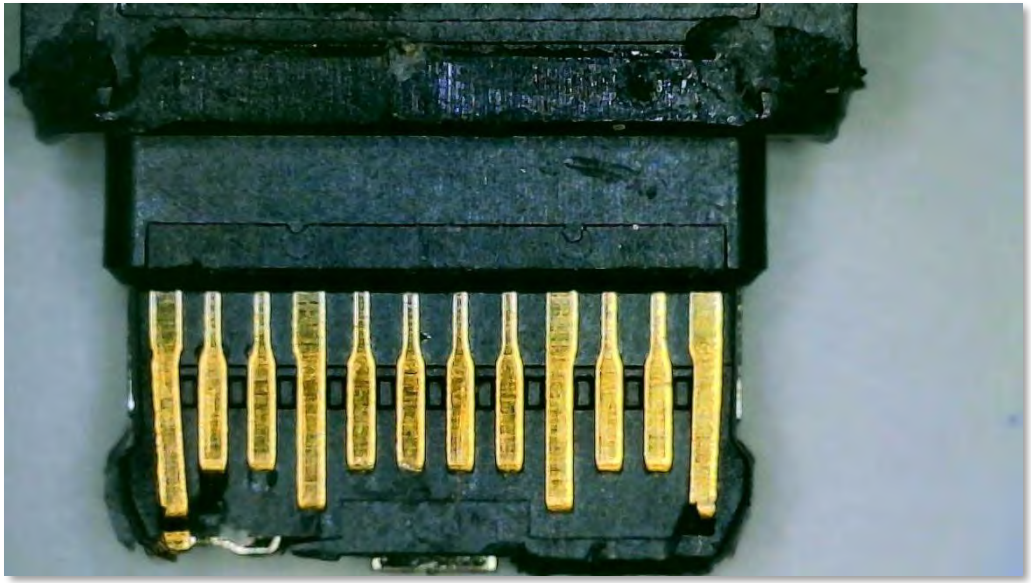
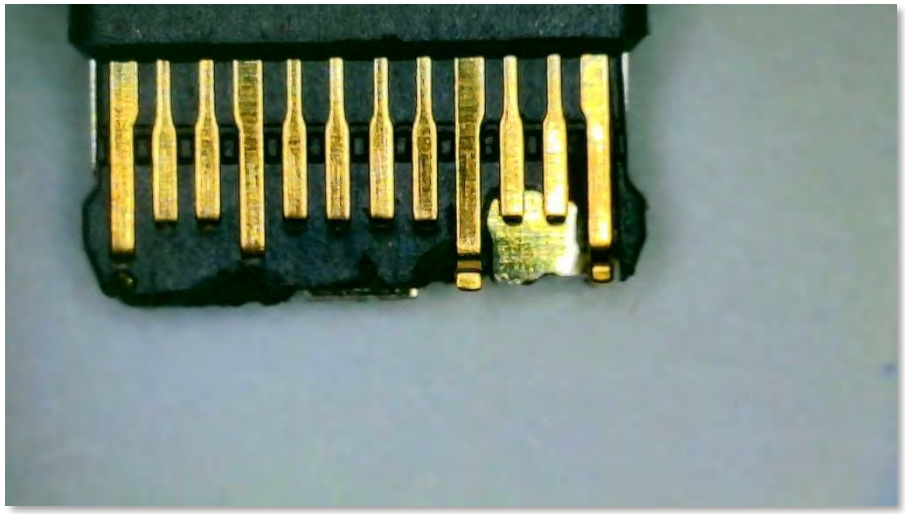
Claim 134 of the '307 Patent	Evidence of Infringement
	 

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the Samsung T7 is advertised as a USB-C interface. Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**134J**] at least some of the at least one row of first contacts has a functional reverse mirror configuration relative to at least some of the at least one row of second contacts,	The row of first contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

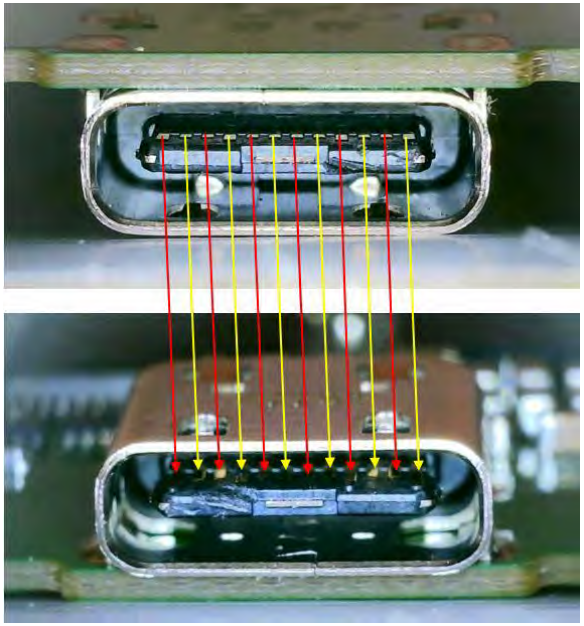
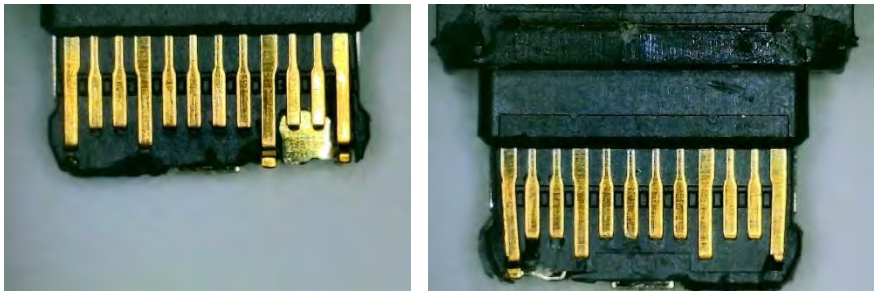
Claim 134 of the '307 Patent	Evidence of Infringement
and the socket structure is thereby configured such that:	 The first row of contacts (right image) and the second row of contacts (left image) are also shown below.  In addition, as noted above in connection with element [**34A**], the Samsung T7 is packaged with a USB-C to USB-C cable which connects to the Samsung T7 through the socket structure and the socket structure of the

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement

Samsung T7 is advertised as a USB-C interface. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

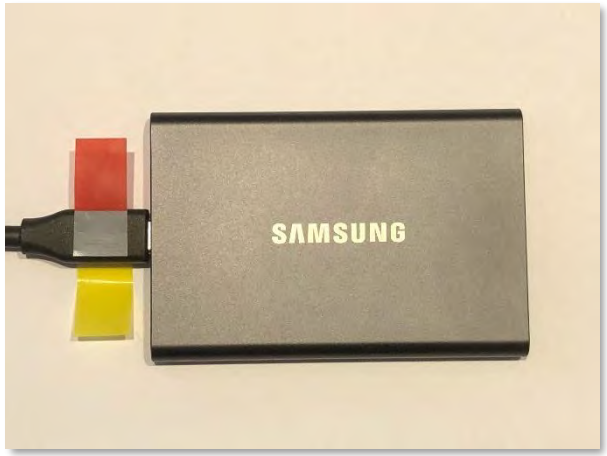
Claim 134 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured as described below in connection with elements [**134K**] through [**134L**]. *See also* Element [**34J**].
[**134K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung Portable SSD T7 is configured for a first operational state when the USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as yellow arrows in the image below. In this normal insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

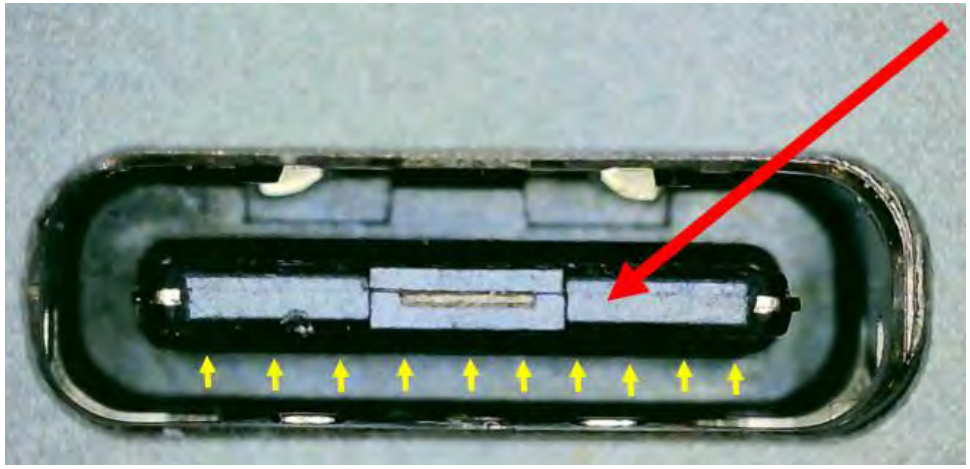
Claim 134 of the '307 Patent	Evidence of Infringement
	  (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34K**].

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
[**134L**] when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts.	The Samsung T7 is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the yellow flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as yellow arrows in the image below. In this opposite insertion state, the tongue (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 6 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

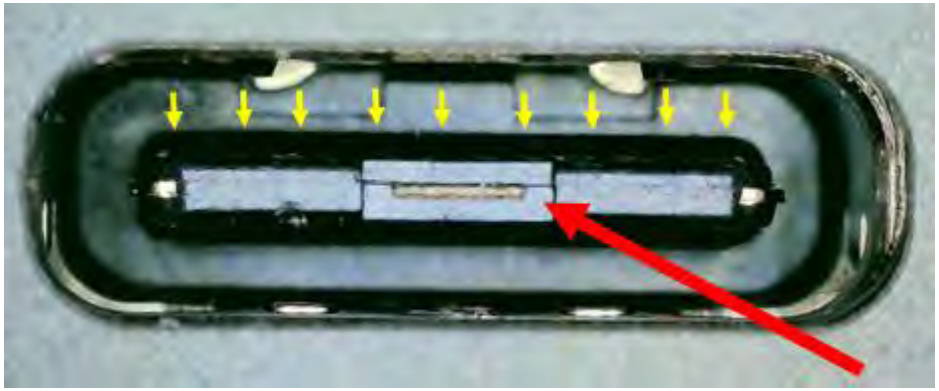
Claim 134 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

U.S. Patent No. RE50,307

Title: Socket Structure with Duplex Electrical Connection

Inventor: Chou Hsien Tsai

The following chart provides evidence showing that the Samsung Galaxy Tab S9 FE Plus ("S9 FE Plus" or the "Accused Instrumentalities") being made, used, sold, imported, and/or offered for sale in the United States by Samsung Electronics Co., Ltd., Samsung Electronics America, Inc, and/or their affiliates and subsidiaries ("Samsung") infringe claims of the '307 Patent. The below chart is based on publicly available information currently known to KIWI. KIWI reserves the right to supplement or otherwise modify this preliminary claim chart as additional information becomes available.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
[**34A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Galaxy Tab S9 FE Plus is a tablet that includes a socket structure with duplex electrical connection. In particular, the Galaxy Tab S9 FE Plus provides duplex electrical connection via a USB port.  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	The USB port is a USB Type-C port. **USB** USB 2.0 **Earjack** USB Type-C *See* https://web.archive.org/web/20250311143051/https://www.samsung.com/us/tablets/galaxy-tab-s9-fe/buy/galaxy-tab-s9-fe-plus-128gb-gray-wi-fi-sm-x610nzaaxar/ (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Gal[illegible] tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C to USB-C cable.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

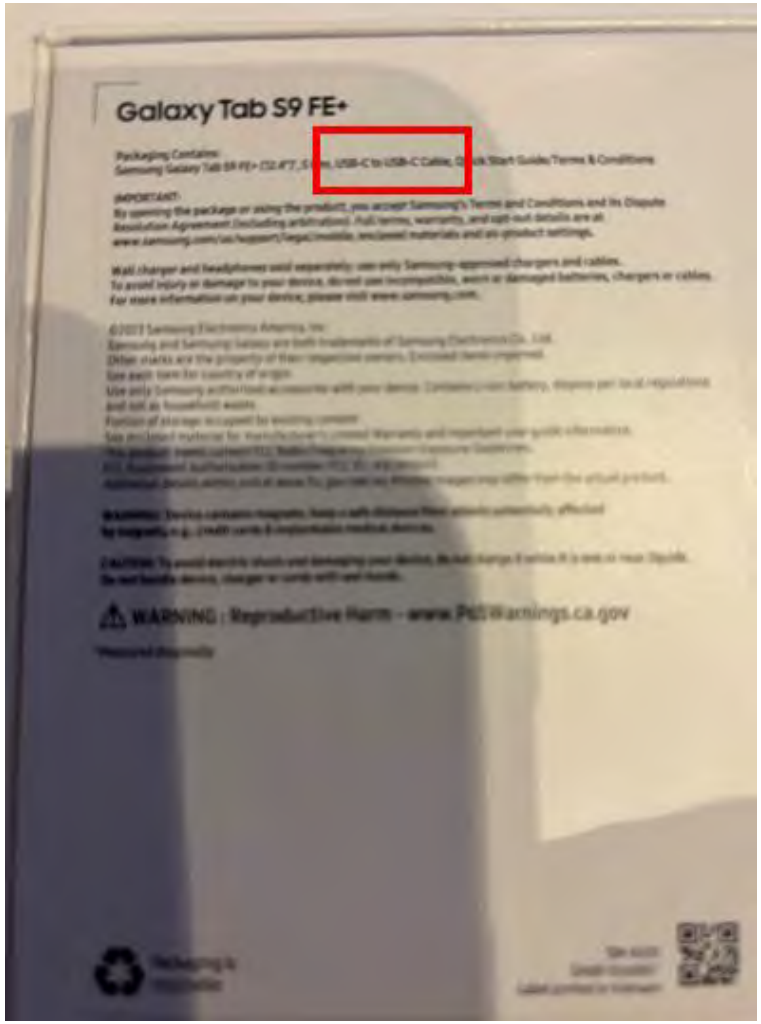
Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image of device packaging.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

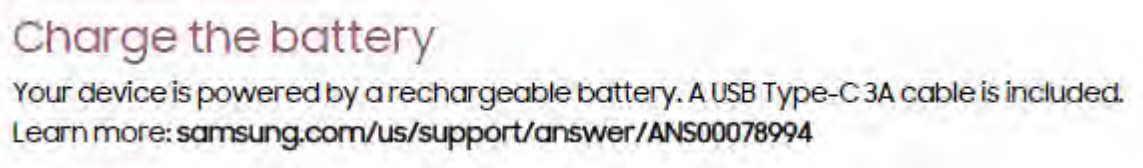
Claim 34 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).  (Image of USB-C cable included in packaging.) Further details regarding the socket structure are described below in connection with elements [**34B**] through [**34N**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

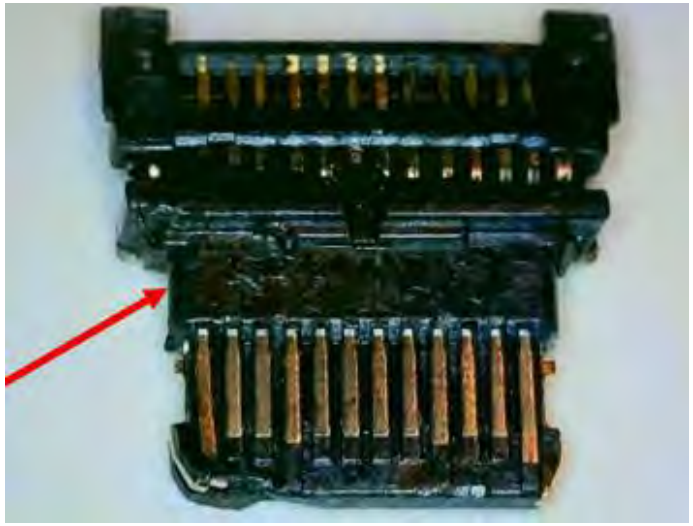
Claim 34 of the '307 Patent	Evidence of Infringement
[**34B**] a plastic base;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a plastic base.   (Images of socket structure of Galaxy Tab S9 FE Plus.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

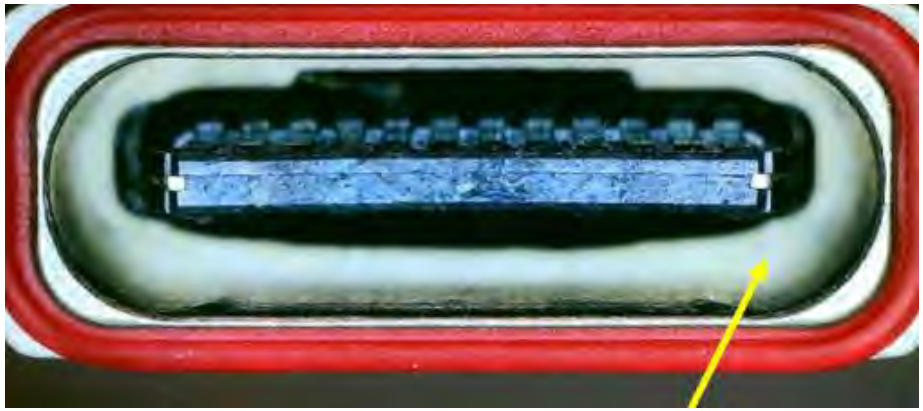
Claim 34 of the '307 Patent	Evidence of Infringement
[**34C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a connection slot.  The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

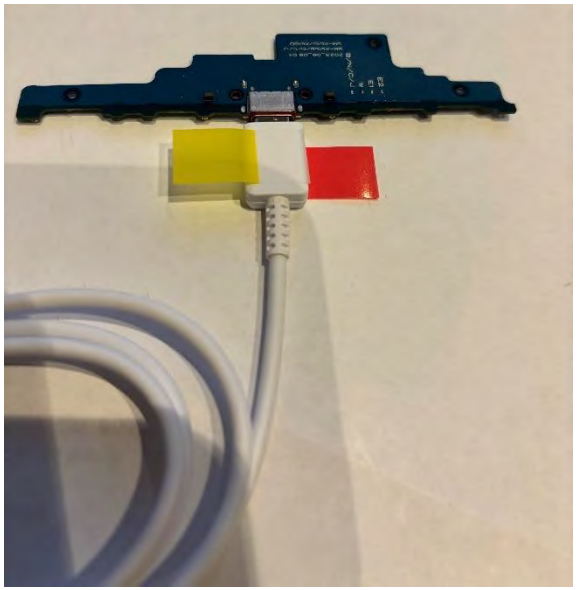
Claim 34 of the '307 Patent	Evidence of Infringement
	The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung Galaxy Tab S9 FE Plus, as described above in connection with element [**34A**].  USB-C cables include a plug with at least one row of connection terminals.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

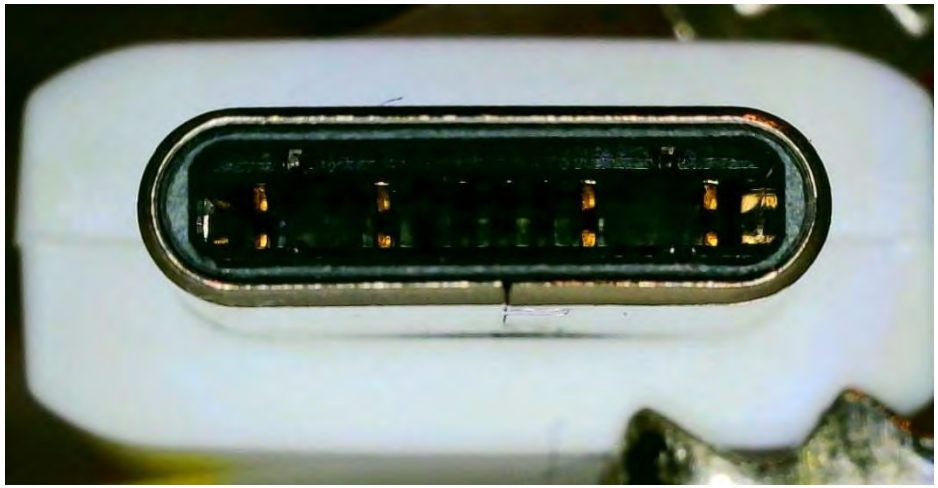
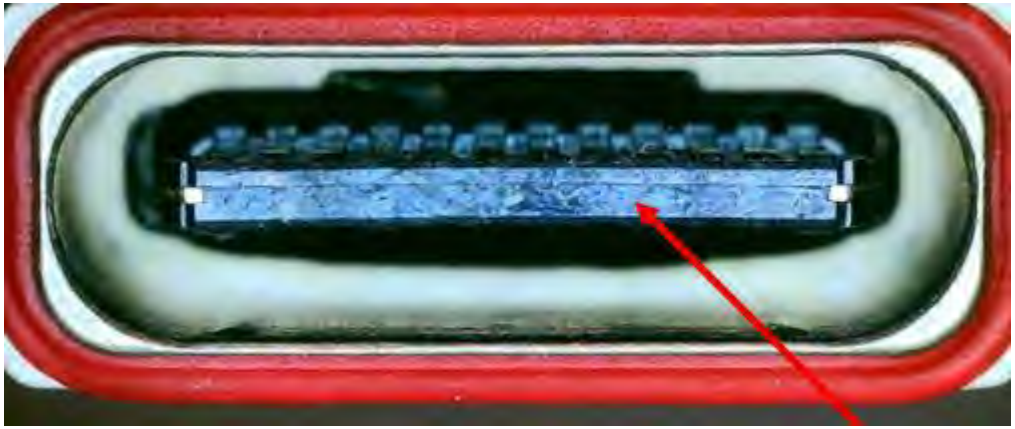
Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.)
[**34D**] a tongue, which has a first surface with grooves, and a second surface with grooves, the second surface disposed	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
opposite the first surface,	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

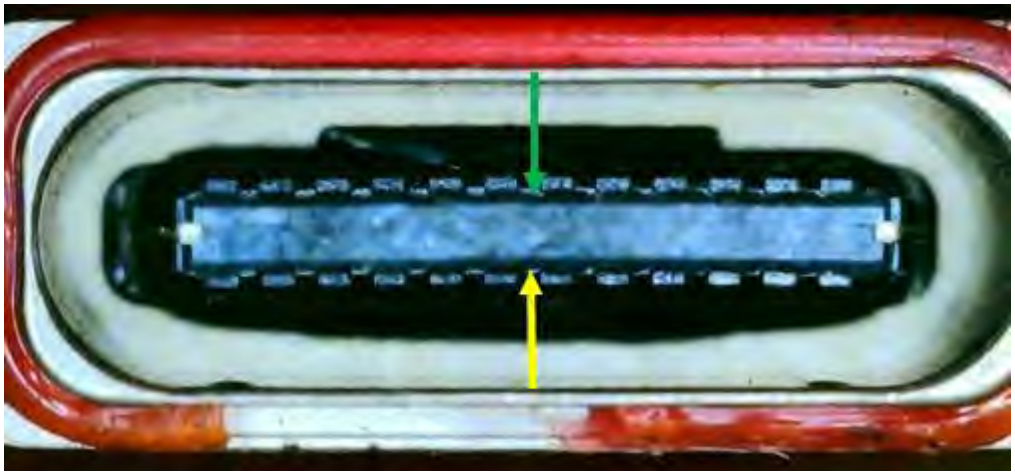
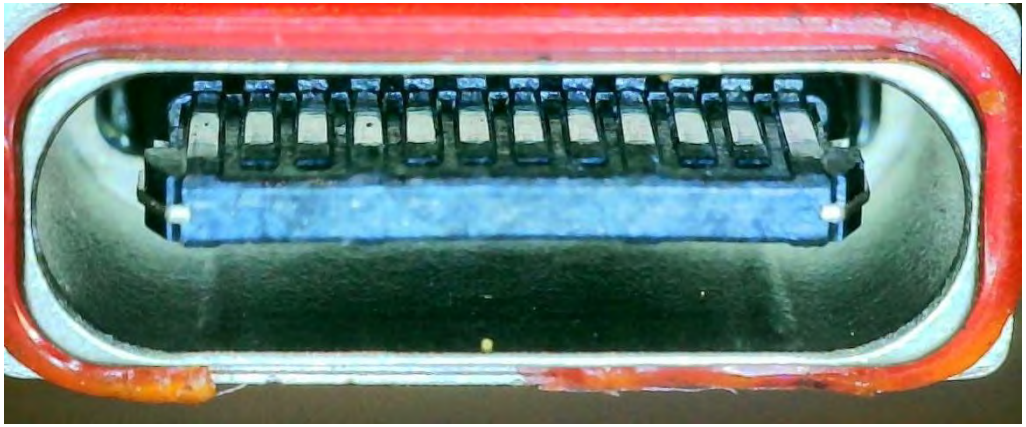
Claim 34 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

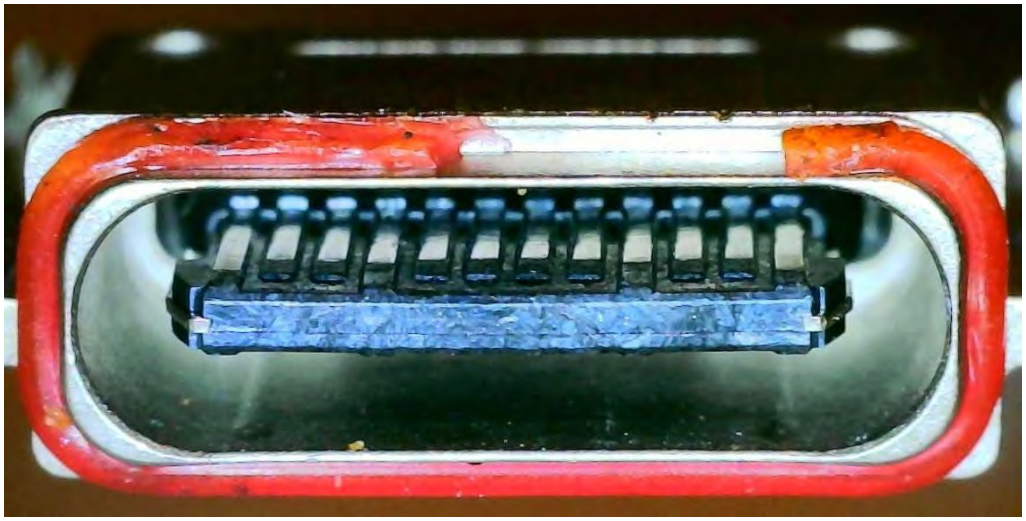
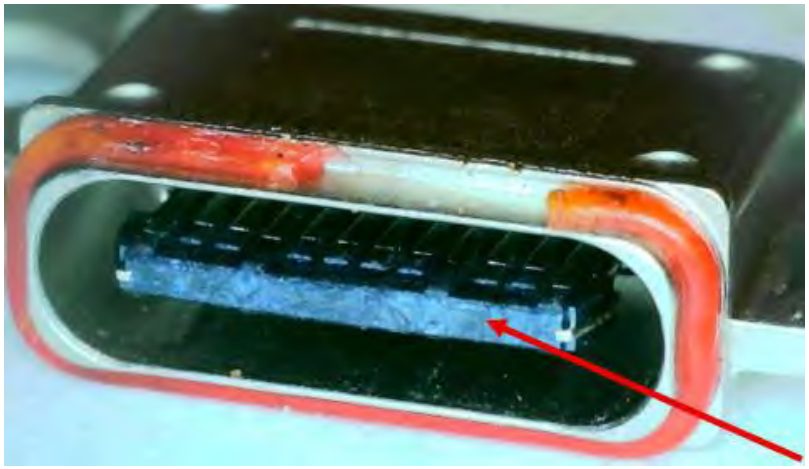
Claim 34 of the '307 Patent	Evidence of Infringement
	
[**34E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two	The tongue of the Samsung Galaxy Tab S9 FE Plus (indicated by the red arrow) is disposed within the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

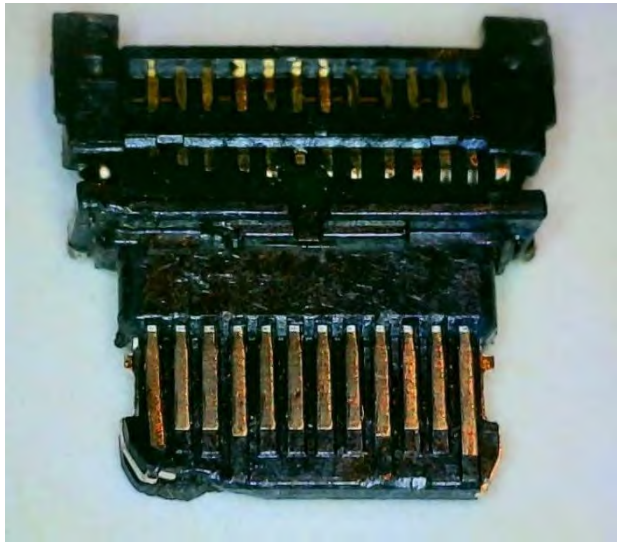
Claim 34 of the '307 Patent	Evidence of Infringement
sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	The tongue is located on one end of the plastic base.  The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by the yellow arrow).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

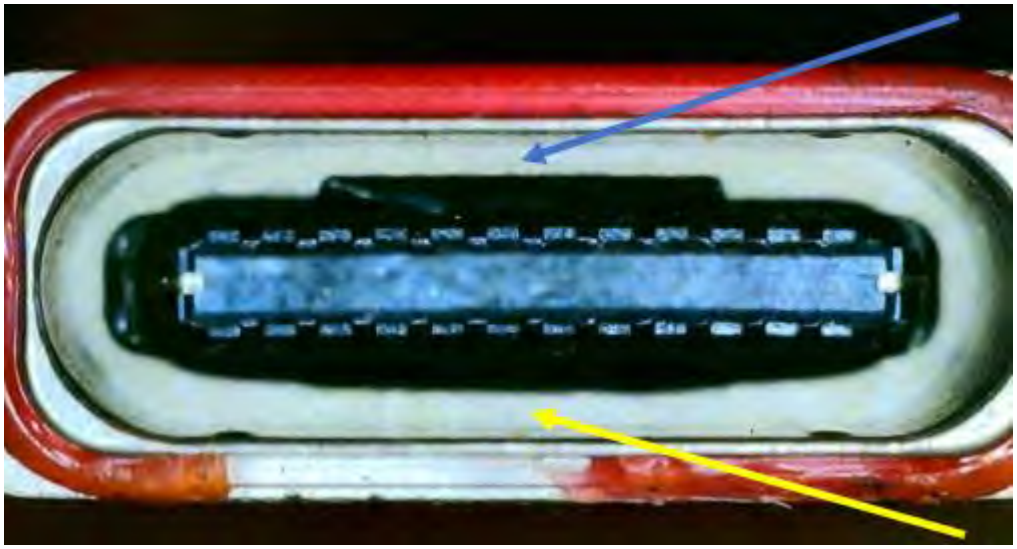
Claim 34 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

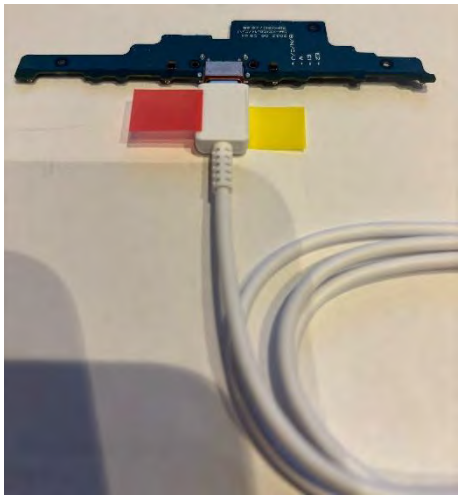
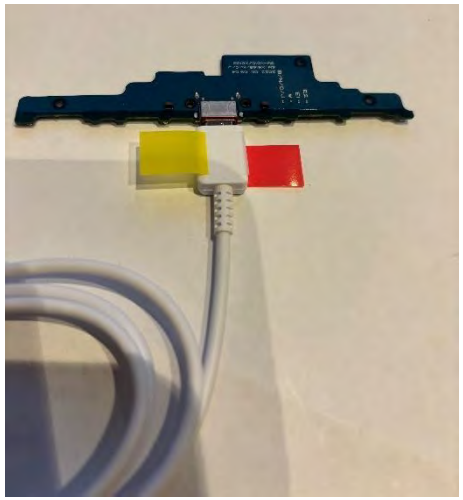
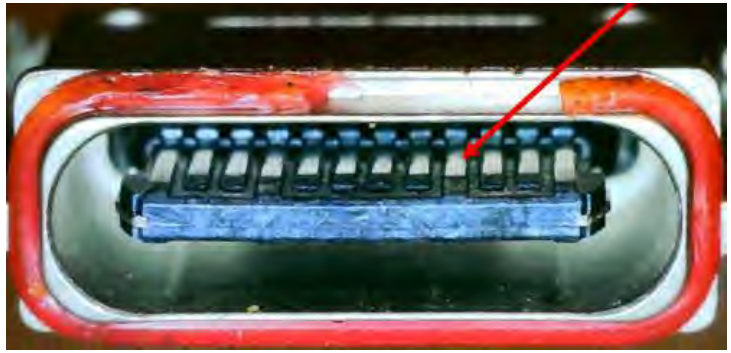
Claim 34 of the '307 Patent	Evidence of Infringement
	  The red and yellow flags are attached to the same side of the plug in both images, showing that the plug can be connected to the socket structure of the Samsung Galaxy Tab S9 FE Plus when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image).
[**34F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first	The Samsung Galaxy Tab S9 FE Plus includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

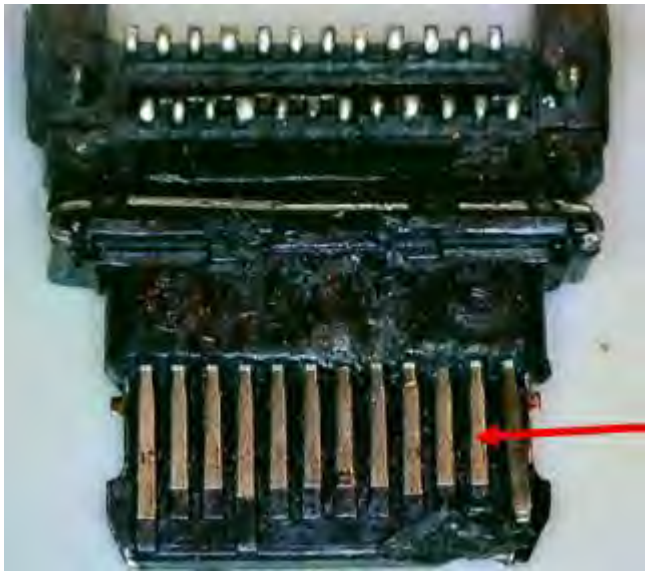
Claim 34 of the '307 Patent	Evidence of Infringement
contacts is electrically connected to a respective first pin extending out of the plastic base; and	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image above, the Samsung Galaxy Tab S9 FE Plus further includes two rows of twelve pins extending out of the plastic base. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

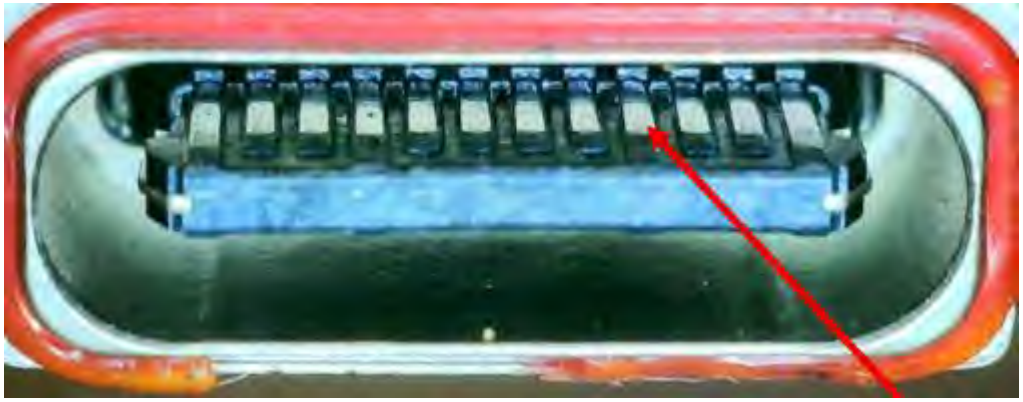
Claim 34 of the '307 Patent	Evidence of Infringement
	In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.
[**34G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung Galaxy Tab S9 FE Plus includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

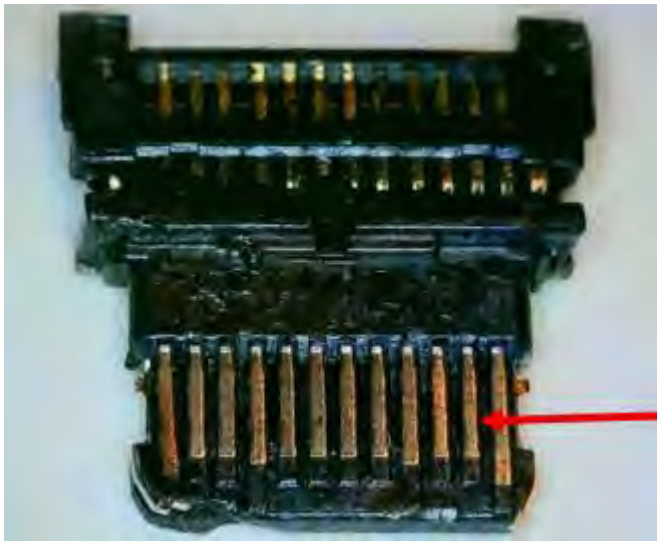
Claim 34 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Galaxy Tab S9 FE Plus).
[**34H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung Galaxy Tab S9 FE Plus includes two rows of twelve pins extending out of the plastic base. On information and belief, the row identified by the arrow corresponds to the second pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

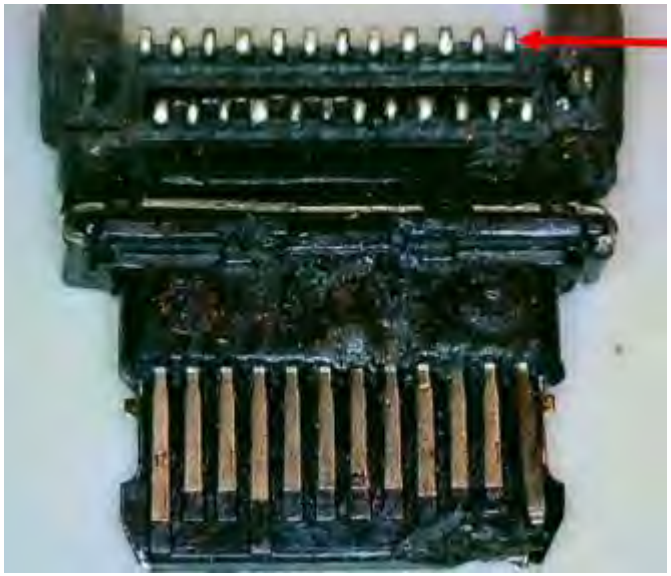
Claim 34 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

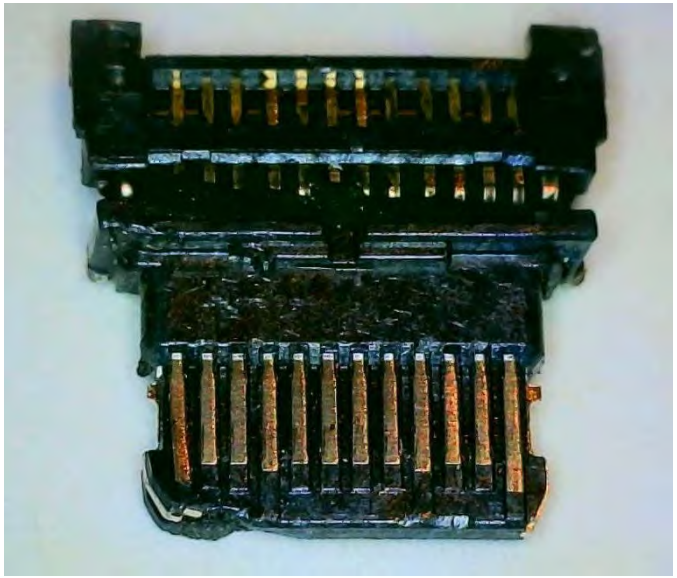
Claim 34 of the '307 Patent	Evidence of Infringement
	In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base.
[**34I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

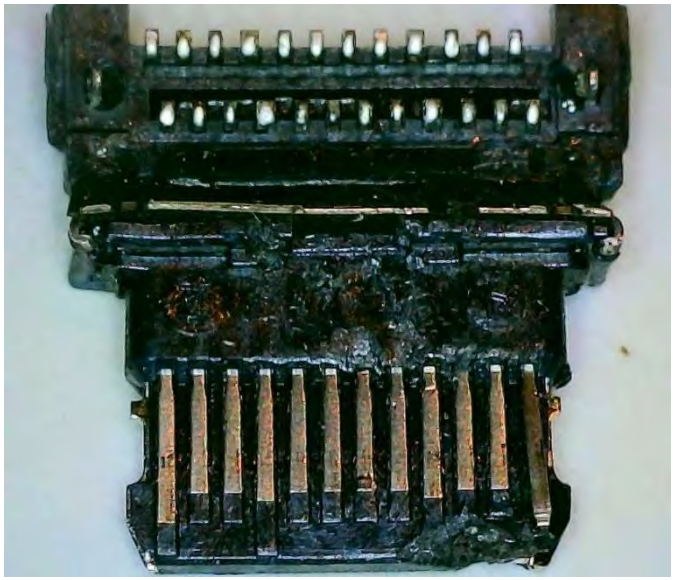
Claim 34 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

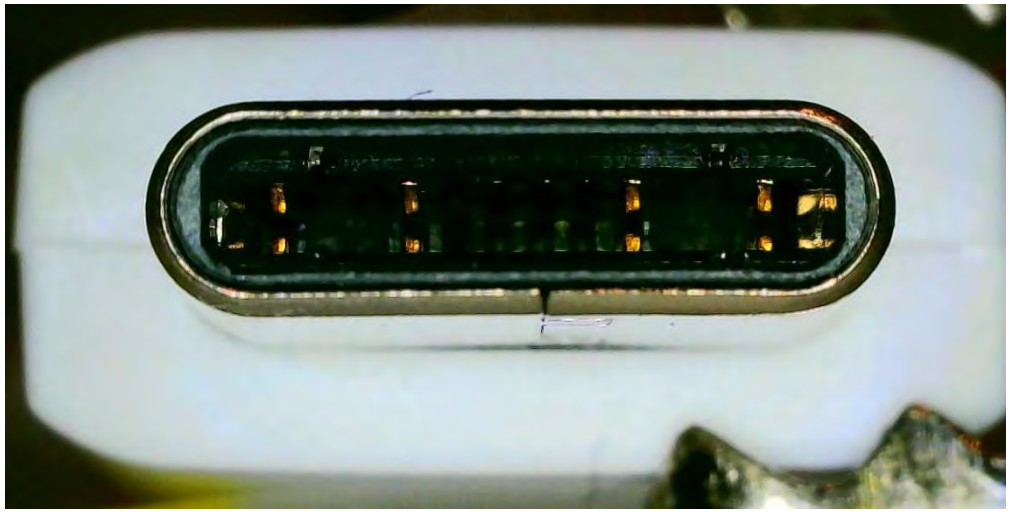
Claim 34 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15.
[**34J**] the at least one row of first contacts has a functional	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

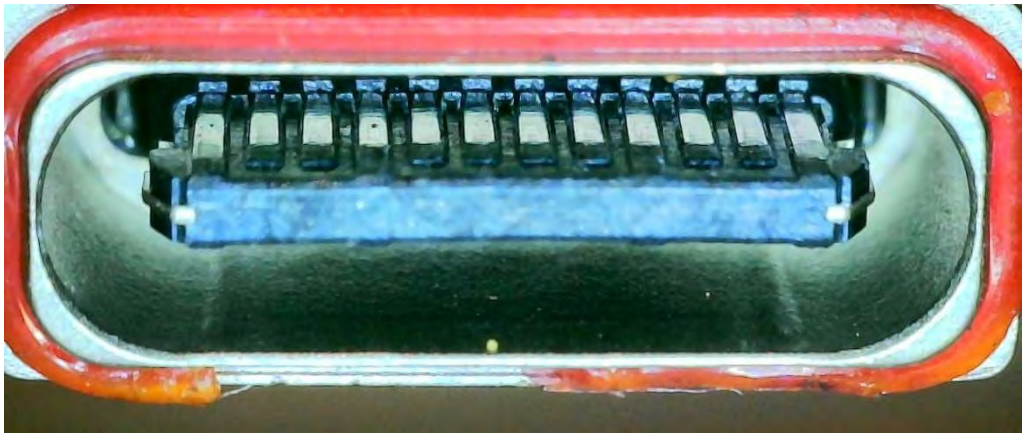
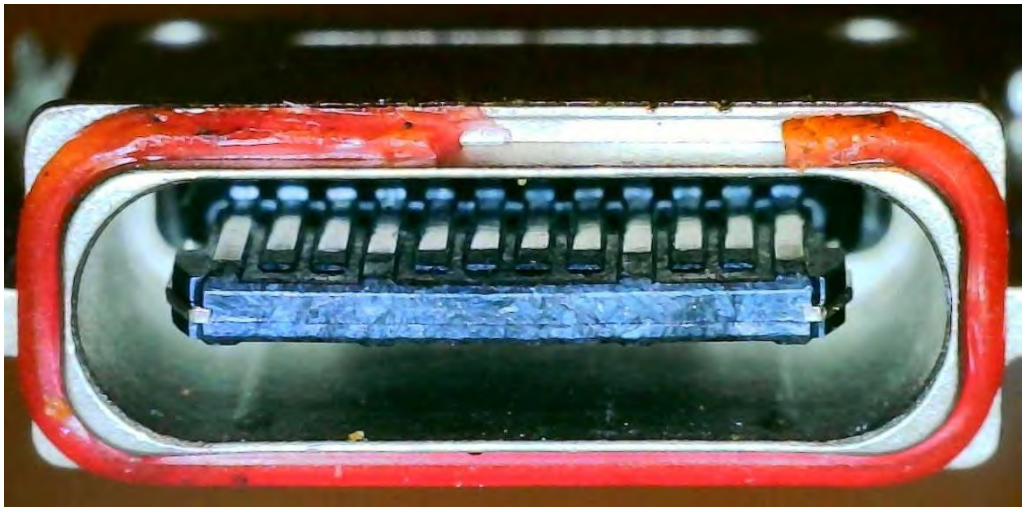
Claim 34 of the '307 Patent	Evidence of Infringement
reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	  In addition, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

<table>
<tr><th>Claim 34 of the ‘307 Patent</th><th>Evidence of Infringement</th></tr>
<tr><td></td><td>
Table 3-4 USB Type-C Receptacle Interface Pin Assignments
<table>
<tr><th>Pin</th><th>Signal Name</th><th>Description</th><th>Mating Sequence</th><th>Pin</th><th>Signal Name</th><th>Description</th><th>Mating Sequence</th></tr>
<tr><td>A1</td><td>GND</td><td>Ground return</td><td>First</td><td>B12</td><td>GND</td><td>Ground return</td><td>First</td></tr>
<tr><td>A2</td><td>TXp1</td><td>Positive half of first TX differential pair</td><td>Second</td><td>B11</td><td>RXp1</td><td>Positive half of first RX differential pair</td><td>Second</td></tr>
<tr><td>A3</td><td>TXn1</td><td>Negative half of first TX differential pair</td><td>Second</td><td>B10</td><td>RXn1</td><td>Negative half of first RX differential pair</td><td>Second</td></tr>
<tr><td>A4</td><td>VBUS</td><td>Bus Power</td><td>First</td><td>B9</td><td>VBUS</td><td>Bus Power</td><td>First</td></tr>
<tr><td>A5</td><td>CC1</td><td>Configuration Channel</td><td>Second</td><td>B8</td><td>SBU2</td><td>Sideband Use (SBU)</td><td>Second</td></tr>
<tr><td>A6</td><td>Dp1</td><td>Positive half of the USB 2.0 differential pair – Position 1</td><td>Second</td><td>B7</td><td>Dn2</td><td>Negative half of the USB 2.0 differential pair – Position 2</td><td>Second</td></tr>
<tr><td>A7</td><td>Dn1</td><td>Negative half of the USB 2.0 differential pair – Position 1</td><td>Second</td><td>B6</td><td>Dp2</td><td>Positive half of the USB 2.0 differential pair – Position 2</td><td>Second</td></tr>
<tr><td>A8</td><td>SBU1</td><td>Sideband Use (SBU)</td><td>Second</td><td>B5</td><td>CC2</td><td>Configuration Channel</td><td>Second</td></tr>
<tr><td>A9</td><td>VBUS</td><td>Bus Power</td><td>First</td><td>B4</td><td>VBUS</td><td>Bus Power</td><td>First</td></tr>
<tr><td>A10</td><td>RXn2</td><td>Negative half of second RX differential pair</td><td>Second</td><td>B3</td><td>TXn2</td><td>Negative half of second TX differential pair</td><td>Second</td></tr>
<tr><td>A11</td><td>RXp2</td><td>Positive half of second RX differential pair</td><td>Second</td><td>B2</td><td>TXp2</td><td>Positive half of second TX differential pair</td><td>Second</td></tr>
<tr><td>A12</td><td>GND</td><td>Ground return</td><td>First</td><td>B1</td><td>GND</td><td>Ground return</td><td>First</td></tr>
</table>
Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

The socket structure is thereby configured for two operational states, as described below in connection with elements [34K] through [34N].
</td></tr>
<tr><td>[34K] a first operational</td><td>The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.</td></tr>
</table>

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

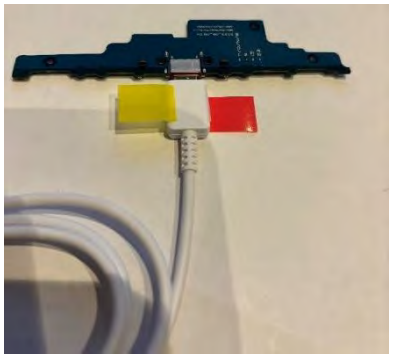
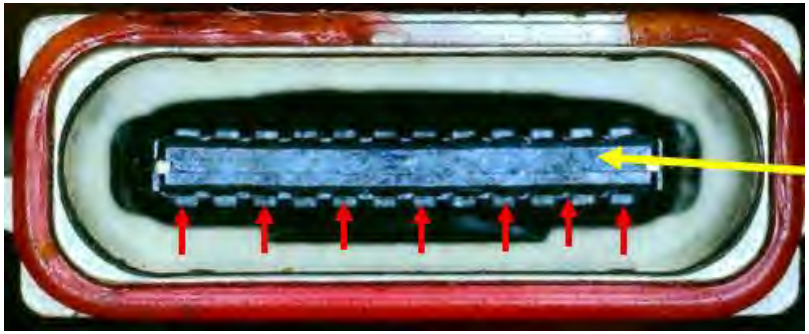
Claim 34 of the '307 Patent	Evidence of Infringement
state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed	 When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the second surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

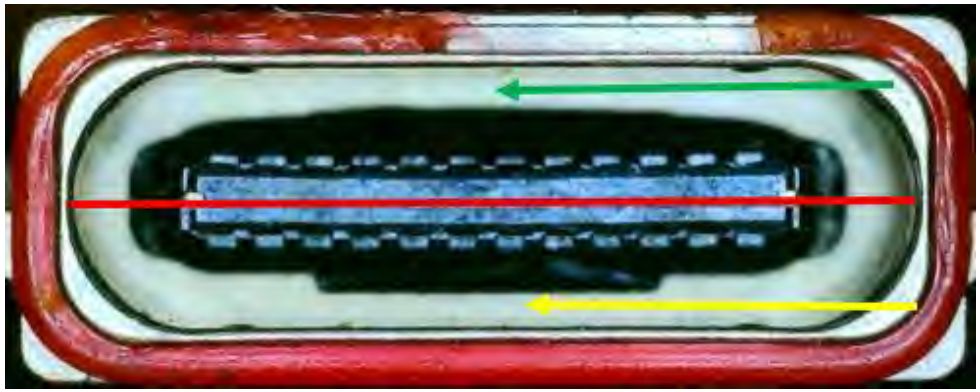
Claim 34 of the '307 Patent	Evidence of Infringement
within the connection slot,	 (Image of USB-C plug showing top and bottom rows of connection terminals.)
[**34L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state as described above in connection with element [**34K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric right and left chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

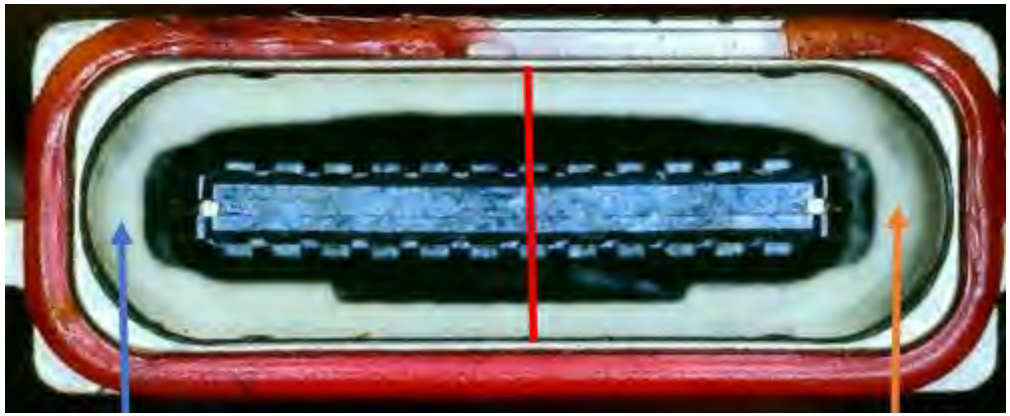
Claim 34 of the '307 Patent	Evidence of Infringement
	The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below. 
[**34M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the	The Samsung Galaxy Tab S9 FE Plus is further configured for a second operational state when the USB-C plug is oppositely inserted into the communication slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

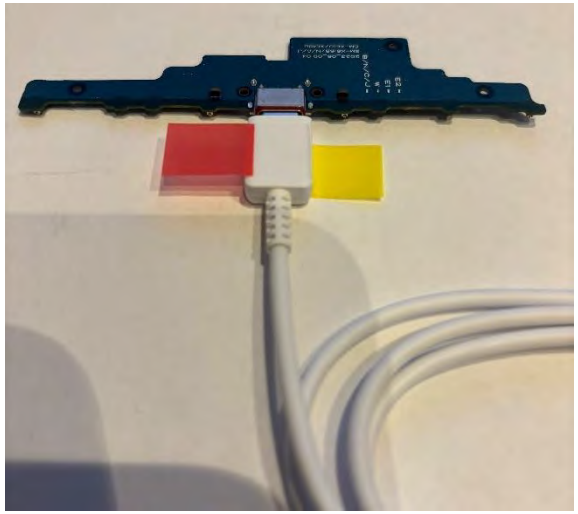
Claim 34 of the '307 Patent	Evidence of Infringement
first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the red flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

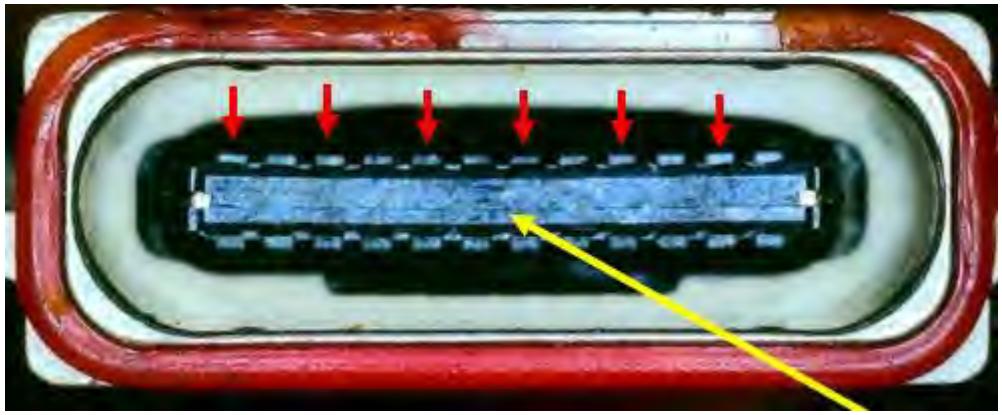
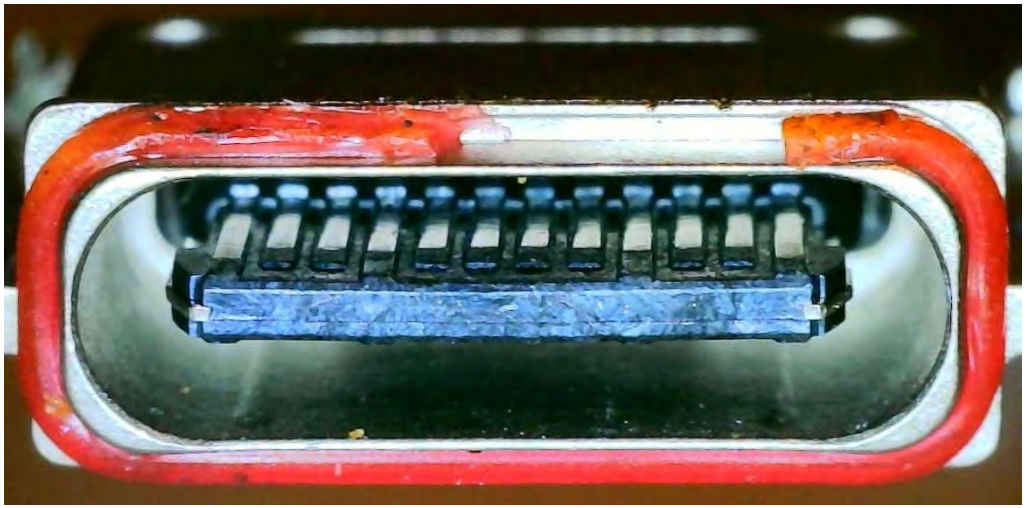
Claim 34 of the '307 Patent	Evidence of Infringement
	
[**34N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**34L**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
[**35A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**35B**] wherein the tongue only contacts an interior portion of the plug when the plug is inserted.	The tongue of the Samsung Galaxy Tab S9 FE Plus only contacts an interior portion of the plug when the plug is inserted. In particular, the tongue of the Samsung Galaxy Tab S9 FE Plus is designed to fit inside the USB plug such that the electrical contacts on the top and bottom of the tongue come into contact with the electrical contacts on the interior top and bottom of the USB plug. 

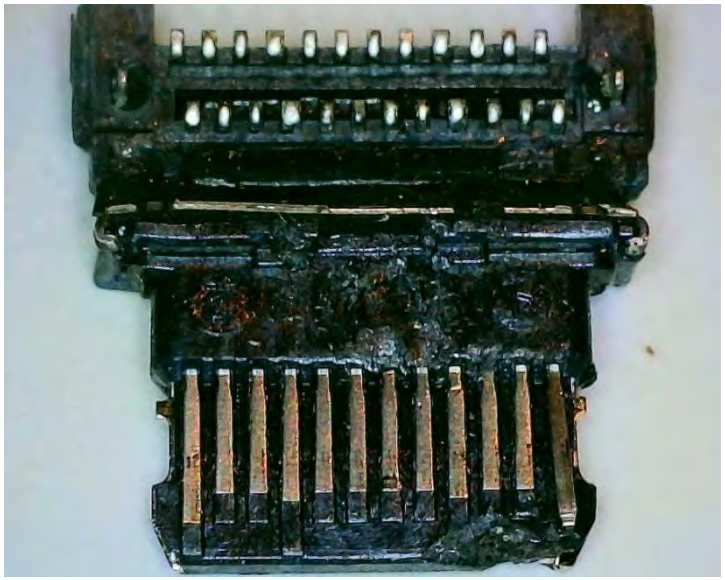
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Images showing contacts on surface of tongue.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

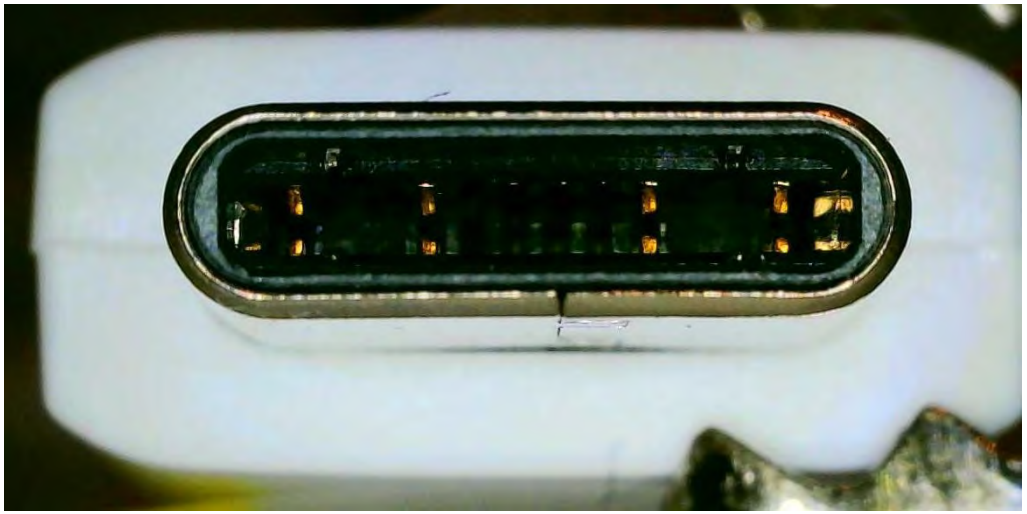
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C plug showing top and bottom rows of connection terminals.)
[**36A**] The socket structure of claim 35,	This Accused Instrumentality includes a socket structure as described in claim 35, as described above in connection with elements [**35A**] through [**35B**].
[**36B**] wherein a thickness of the tongue is less than a third of a height of the connection slot.	The Samsung Galaxy Tab S9 FE Plus includes a USB-C port and is compatible with USB-C cables, as further described above in connection with element [**34A**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

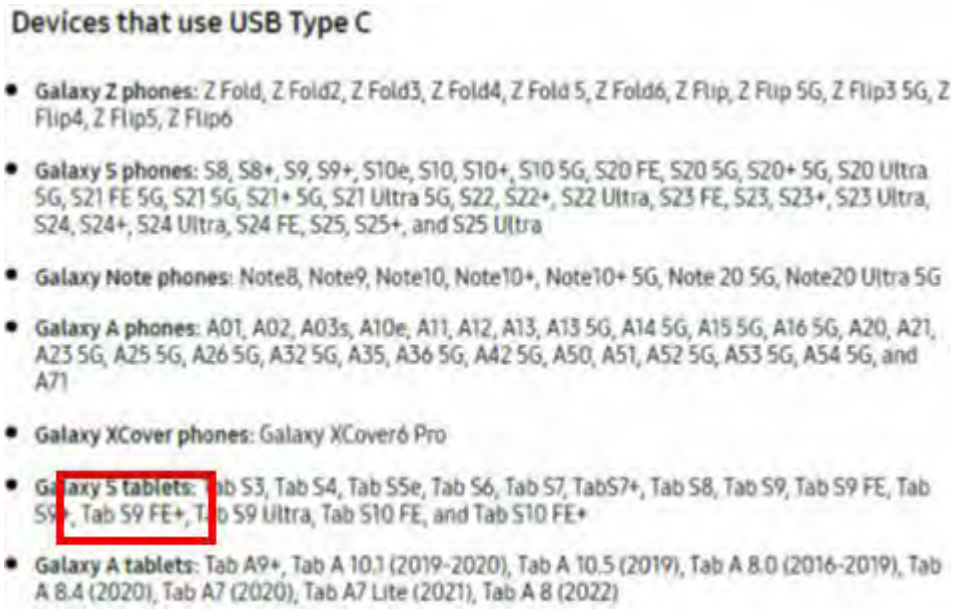
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). The USB-C standard specifies that the width of the tongue is 0.7 mm and that the width of the receptacle is at least 2.5 mm, meaning that the thickness of the tongue is less than a third of the thickness of the connection slot (0.7/2.5=0.28<0.33).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

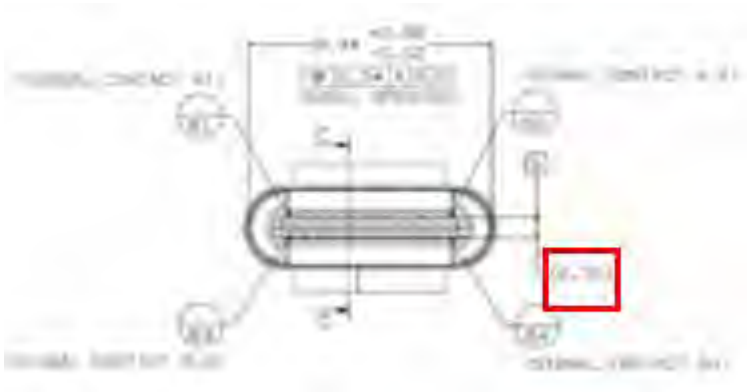
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	Id.  *Id.* In addition, testing confirms that a thickness of the tongue is less than a third of a height of the connection slot.
[**39A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**39B**] further comprising a metal housing at least partially covering the plastic base.	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a metal housing that covers the plastic base at least in part.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

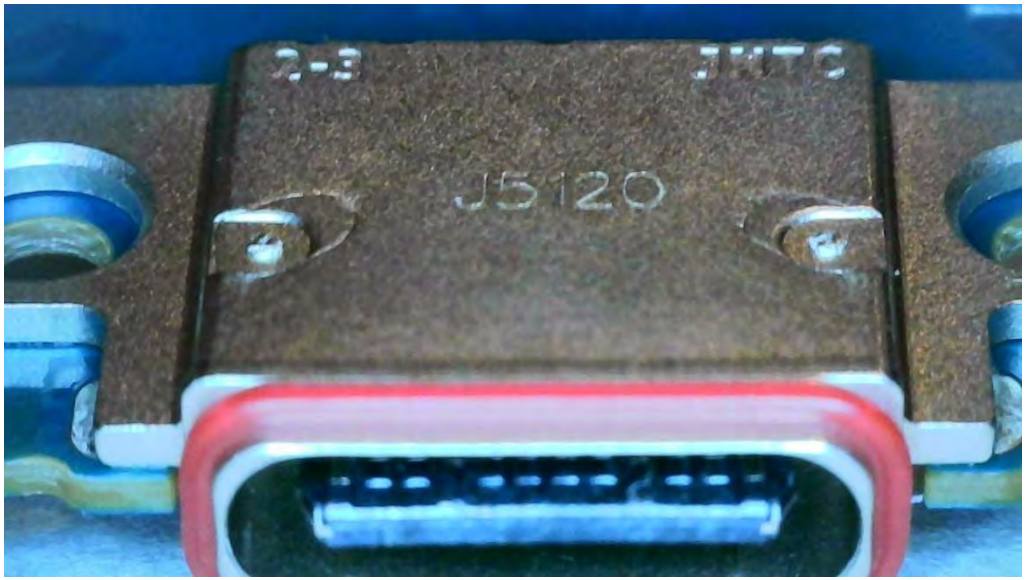
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure of Samsung Galaxy Tab S9 FE Plus.)
[**40A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**40B**] wherein the socket structure is a universal serial bus	The socket structure of the Samsung Galaxy Tab S9 FE is a universal serial bus, or USB, socket structure.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
socket structure.	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	USB USB 2.0 **Earjack** USB Type-C *See* https://web.archive.org/web/20250311143051/https://www.samsung.com/us/tablets/galaxy-tab-s9-fe/buy/galaxy-tab-s9-fe-plus-128gb-gray-wi-fi-sm-x610nzaaxar/ (accessed July 23, 2025).

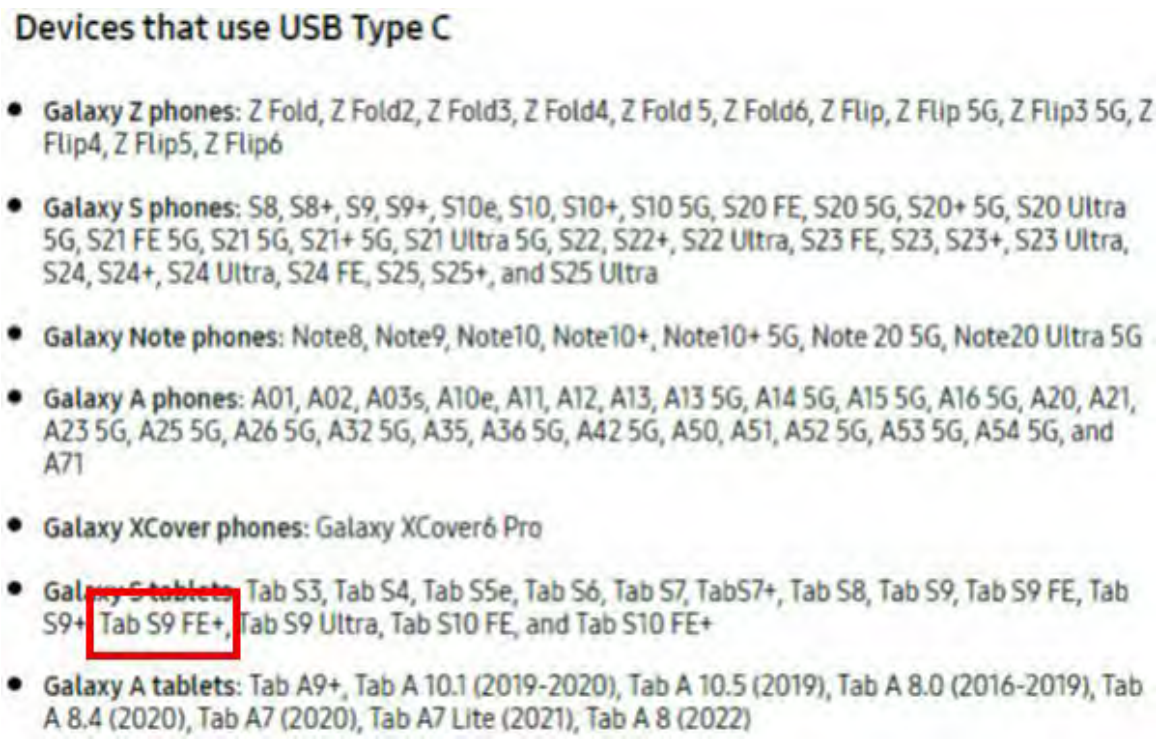
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). *See also* element [**34A**].
[**41A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

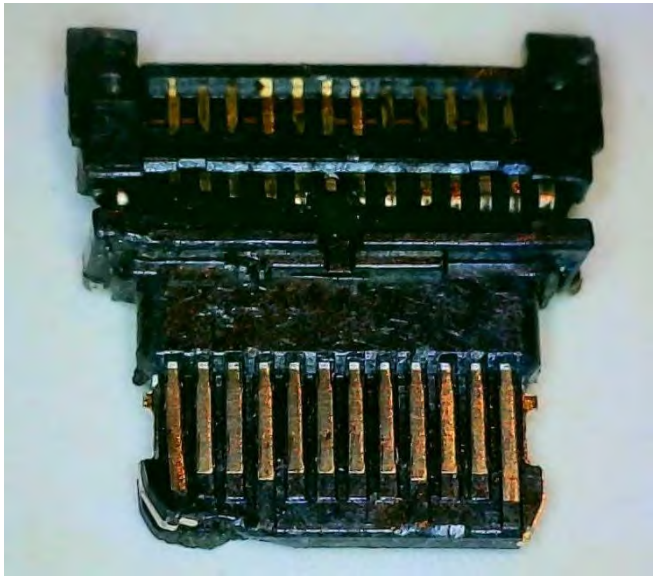
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
[**41B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base are integrally formed. 
[**42A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**42B**] wherein each contact of the first and second contacts is a portion of a	Each contact of the first and second contacts of the Samsung Galaxy Tab S9 FE Plus is a portion of a respective terminal.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

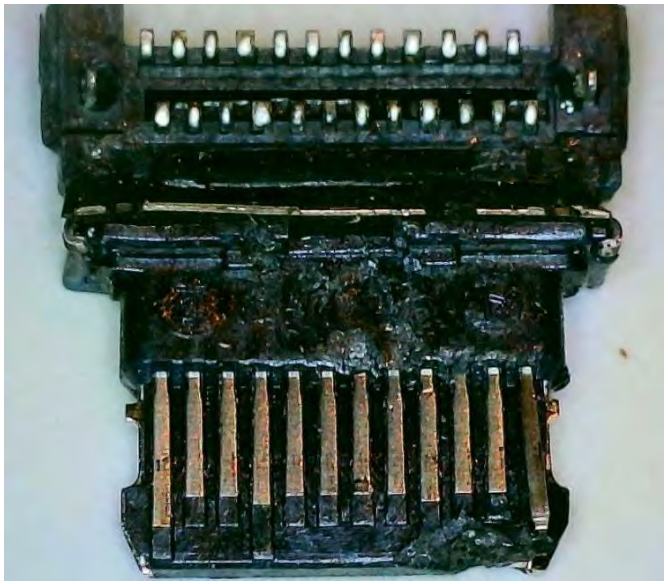
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
respective terminal.	
[**43A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**]..
[**43B**] wherein each of the first contacts is electrically connected to the	Each of the first and second contacts is electrically connected to a respective first and second pins extending of the plastic base. As demonstrated above in connection with elements [**34F**] and [**34G**], the socket structure of the Samsung Galaxy Tab S9 FE Plus includes twelve first contacts and twelve second contacts corresponding to the 24 pins extending out from the plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

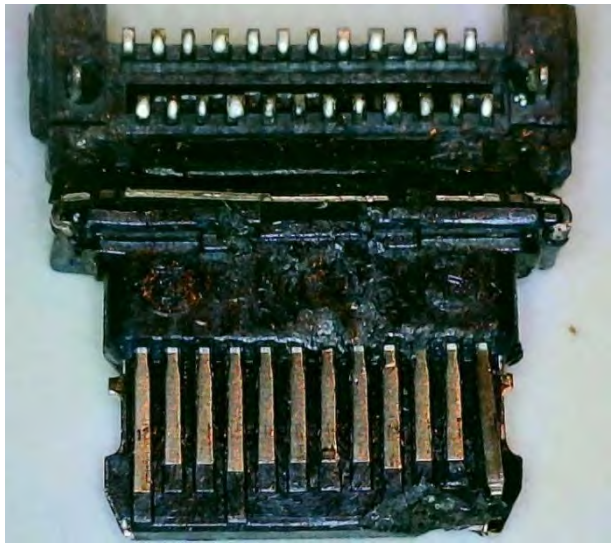
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
respective first pin extending out of the plastic base through a rear cover and each of the second contacts is electrically connected to the respective second pin extending out of the plastic base through the rear cover.	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

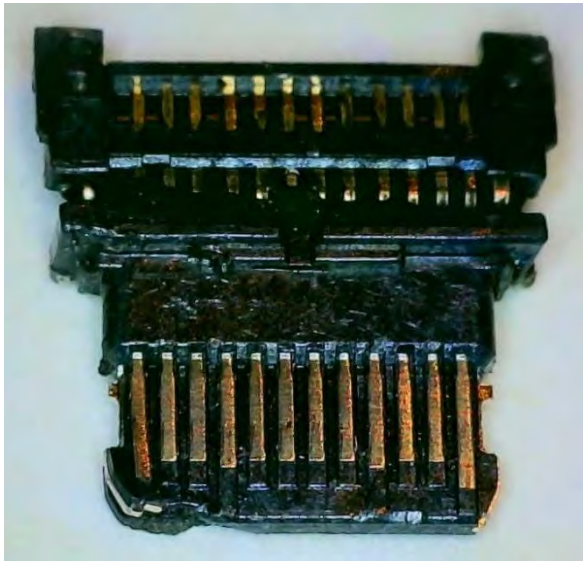
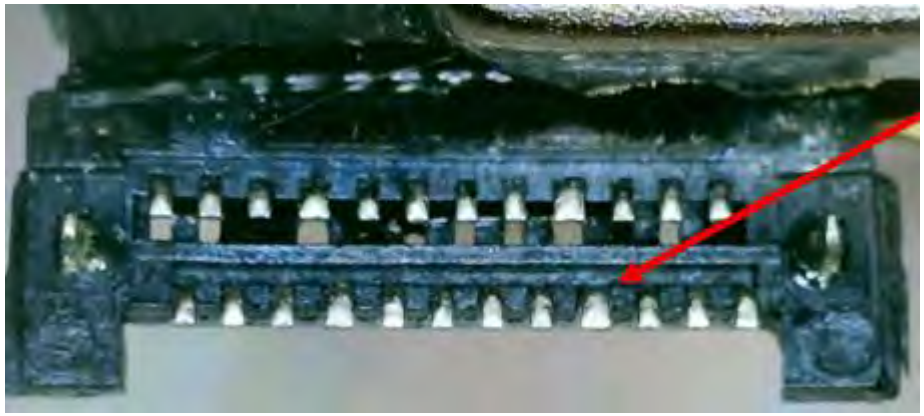
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Samsung Galaxy Tab S9 FE Plus.) The pins extend out of the plastic base through a rear cover.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure of the Samsung Galaxy Tab S9 FE Plus.)
[**44A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**44B**] wherein at least two of the first contacts are not in electrical communication with one another, and at least two	At least one of each of the first and second contacts of the Samsung Galaxy Tab S9 FE Plus are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung Galaxy Tab S9 FE Plus includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
of the second contacts are not in electrical communication with one another.	

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The Samsung Galaxy Tab S9 FE Plus would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

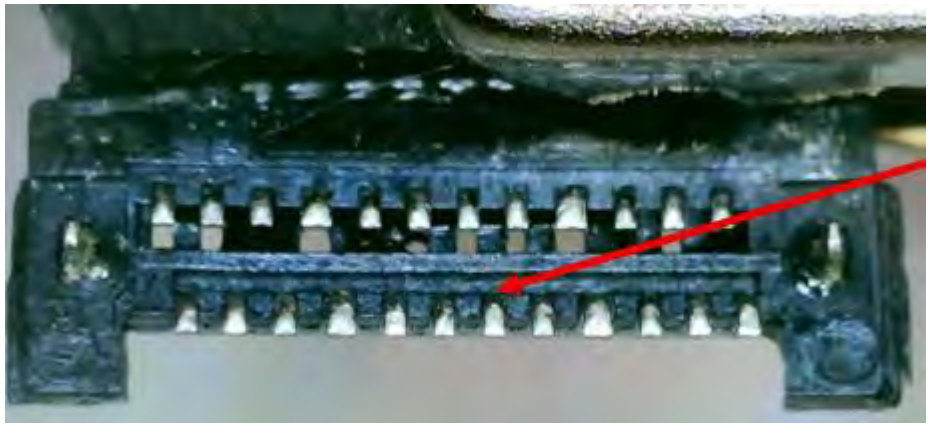
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	Furthermore, test results confirm that at least some of the contacts on each side are not in electrical communication with others of the contacts on the same side.
[**45A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**45B**] further comprising a rear cover attached to the plastic base.	The Samsung Galaxy Tab S9 FE Plus includes a rear cover attached to the plastic base. 
[**46A**] The socket structure of claim 45,	This Accused Instrumentality includes a socket structure as described in claim 45, as described above in connection with elements [**45A**] through [**45B**].
[**46B**] wherein each of the first contacts is	Each of the first and second contacts is electrically connected to a respective first and second pins extending of the plastic base. As demonstrated above in connection with elements [**34F**] and [**34G**], the socket structure of the Samsung Galaxy Tab S9 FE Plus includes twelve first contacts and twelve second contacts corresponding to the 24 pins extending out from the plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

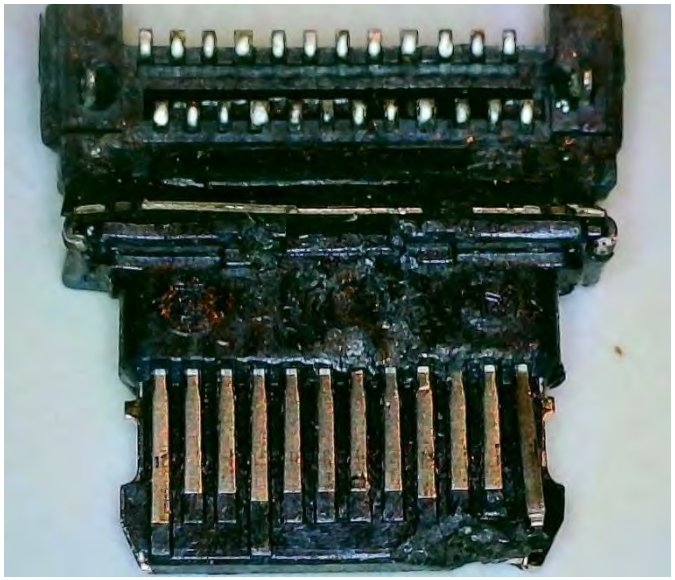
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
electrically connected to the respective first pin extending out of the plastic base through the rear cover.	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

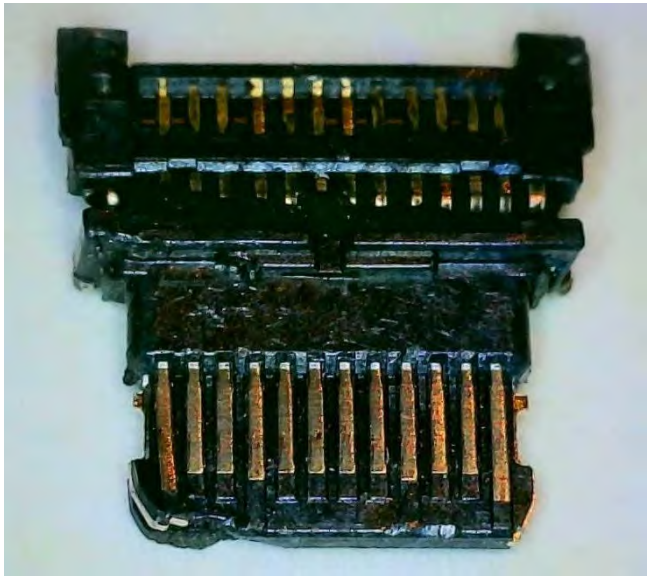
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Samsung Galaxy Tab S9 FE Plus.) The pins extend out of the plastic base through a rear cover.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

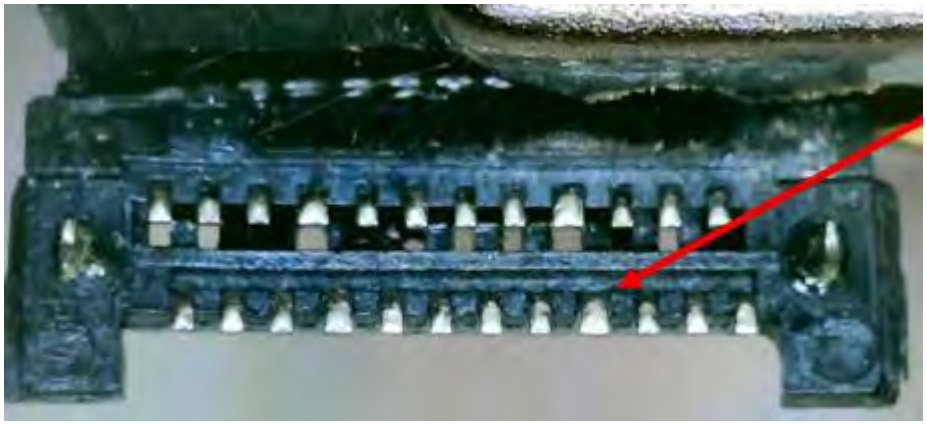
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 (Image of socket structure of the Samsung Galaxy Tab S9 FE Plus.) *See also* Element [**43B**].
[**47A**] The socket structure of claim 45,	This Accused Instrumentality includes a socket structure as described in claim 45, as described above in connection with elements [**45A**] through [**45B**].
[**47B**] wherein each of the second contacts is electrically connected to the respective	Each of the first and second contacts is electrically connected to a respective first and second pins extending of the plastic base. As demonstrated above in connection with elements [**34F**] and [**34G**], the socket structure of the Samsung Galaxy Tab S9 FE Plus includes twelve first contacts and twelve second contacts corresponding to the 24 pins extending out from the plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

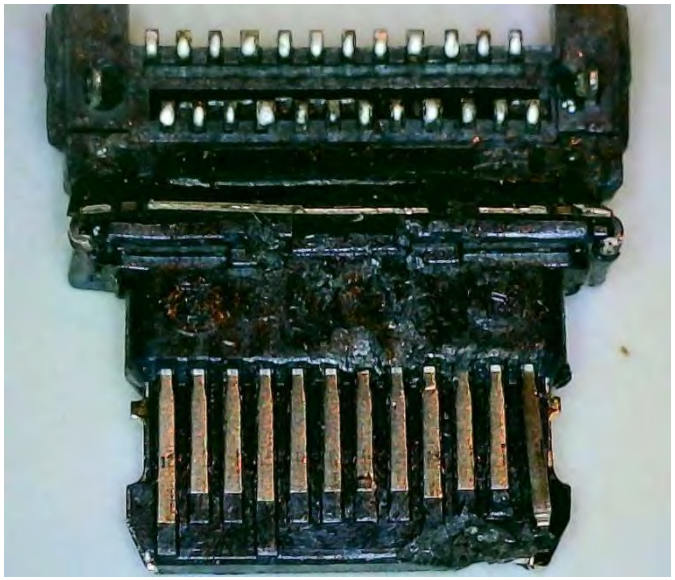
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
second pin extending out of the plastic base through the rear cover.	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

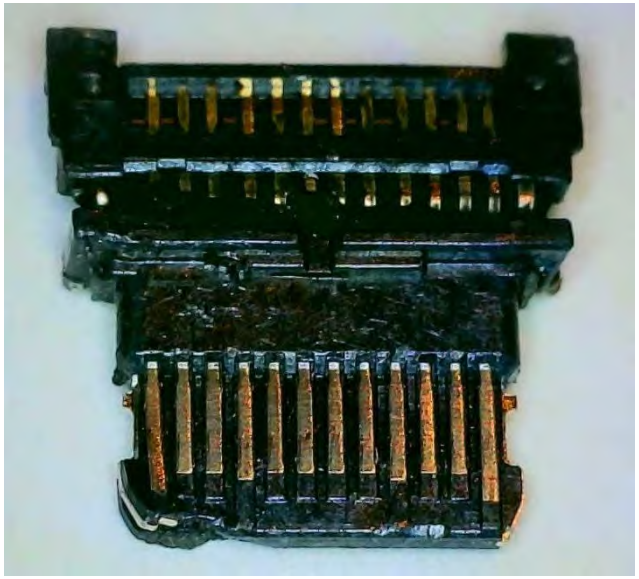
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Samsung Galaxy Tab S9 FE Plus.) The pins extend out of the plastic base through a rear cover.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

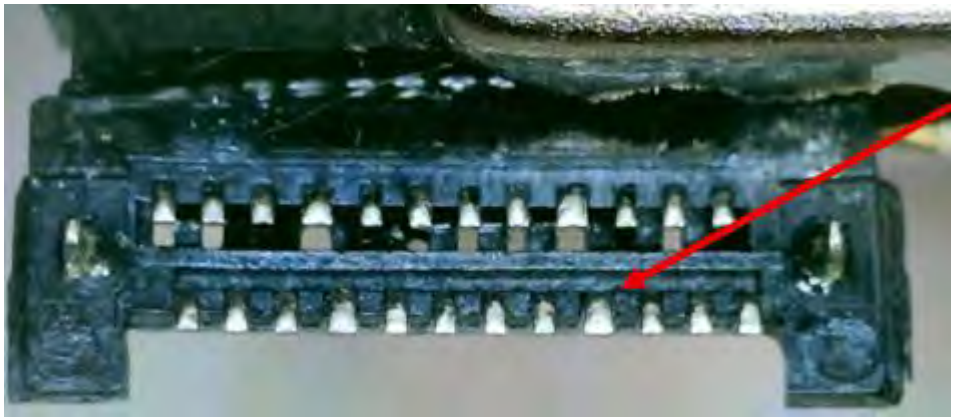
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 (Image of socket structure of the Samsung Galaxy Tab S9 FE Plus.) *See also* Element [**43B**].
[**48A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**48B**] wherein the socket structure is operatively connected to the plug, and wherein the socket	When the cable is connected to the Samsung Galaxy Tab S9 FE Plus, the socket structure is operative connected to the plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

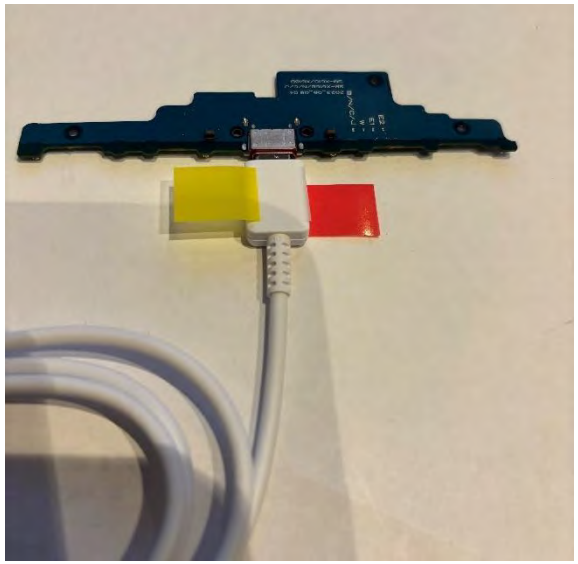
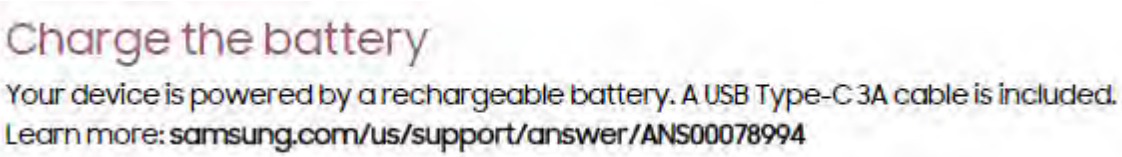
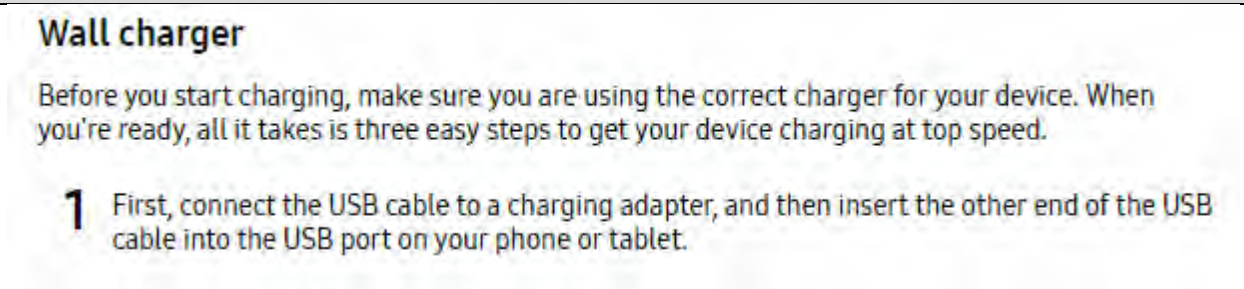
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
structure is operative to simultaneously electrically connect with the first and second contacts.	 The Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C cable, as further described above in connection with element [**34A**].  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025). Samsung provides instructions to its customers to insert the USB cable into the USB port of a phone or tablet for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Notably, this is the webpage where a user is redirected when the URL in the User Guide is entered into a web browser. Indeed, the entire purpose of the socket structure of the Samsung Galaxy Tab S9 FE Plus is to connect a USB cable to the Samsung Galaxy Tab S9 FE Plus which, among other things, permits a connection to the rechargeable battery for charging and thereby enables the use of the Galaxy Tab S9 FE Plus. In this configuration, the socket structure is operative to simultaneously electrically connect with the first and second contacts, as described above in connection with Element [**34I**].
[**49A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**49B**] wherein at least two of the first contacts are not in electrical communication with one another.	At least one of each of the first and second contacts of the Samsung Galaxy Tab S9 FE Plus are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung Galaxy Tab S9 FE Plus includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Claims 35 through 55 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The Samsung Galaxy Tab S9 FE Plus would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	Furthermore, test results confirm that at least some of the contacts on each side are not in electrical communication with others of the contacts on the same side. *See also* Element [**44B**].
[**50A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**50B**] wherein at least two of the second contacts are not in electrical communication with one another.	At least one of each of the first and second contacts of the Samsung Galaxy Tab S9 FE Plus are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung Galaxy Tab S9 FE Plus includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Claims 35 through 55 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The Samsung Galaxy Tab S9 FE Plus would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

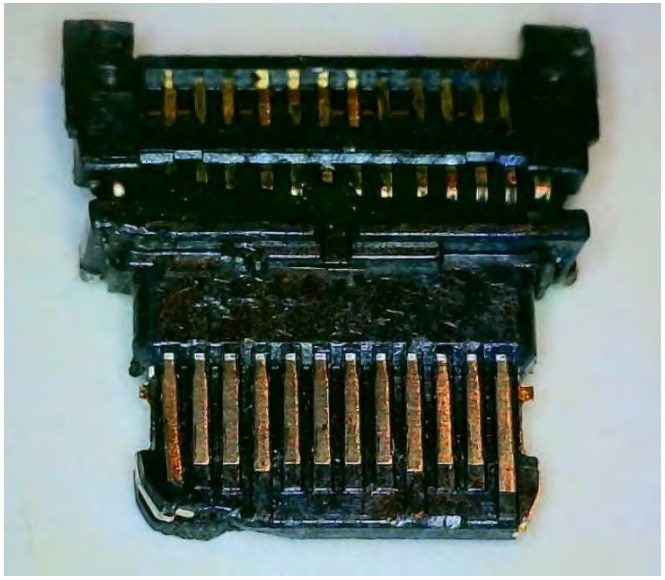
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	Furthermore, test results confirm that at least some of the contacts on each side are not in electrical communication with others of the contacts on the same side. *See also* Element [**44B**].
[**51A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**51B**] wherein the at least one row of first contacts and respective first pins are located at ends of respective ones of a row of first terminals and the at least one row of second contacts and respective second pins	The contacts and pins in the Samsung Galaxy Tab S9 FE Plus are each located at the ends of a corresponding terminal. In particular, each of the first contacts and the second contacts is located at one end of a row of terminals. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
are located at ends of respective ones of a row of second terminals.	 The respective first and second pins are located at the other end of each terminal.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	
[**52A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**52B**] wherein a portion of a first contact projects beyond one surface of the tongue,	A portion of each of the contacts of the Samsung Galaxy Tab S9 FE Plus projects beyond the surfaces of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

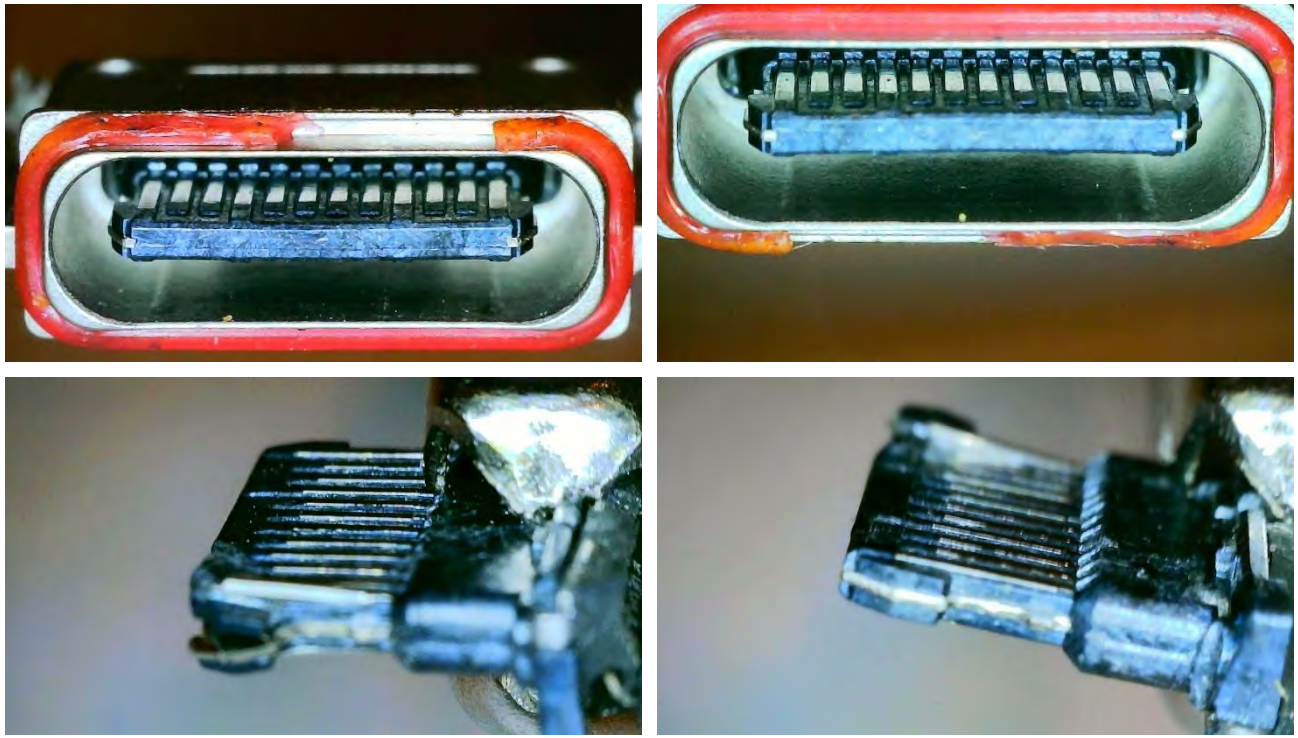
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
and a portion of a second contact projects beyond another surface of the tongue.	 In addition, the Samsung Galaxy Tab S9 FE Plus includes a USB-C port and is comparable with the included USB-C cable, as further described above in connection with element [**34A**]. The USB-C standard indicates that the contacts should be proud of plastic.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

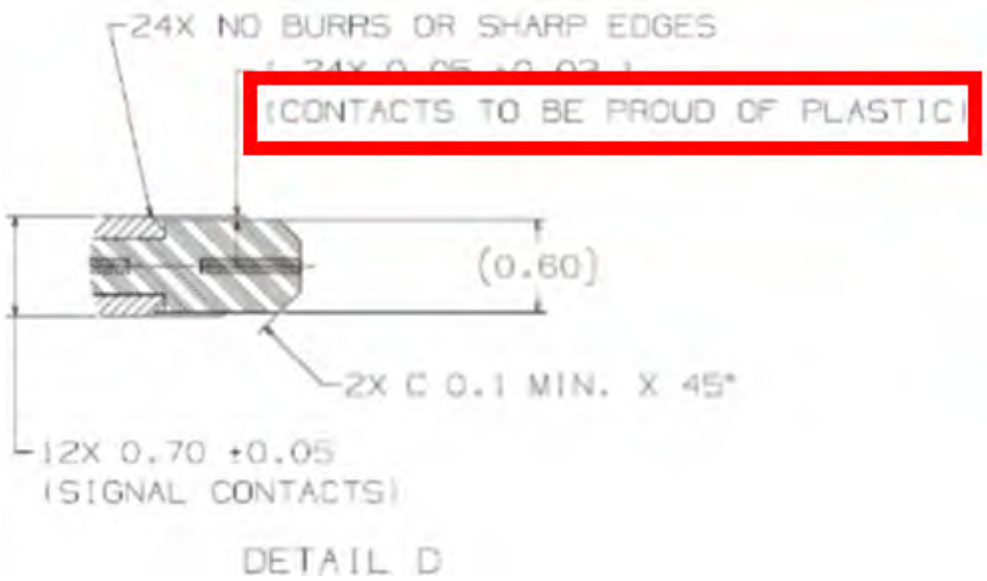
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1.
[**55A**] An electrical connection system comprising	The Samsung Galaxy Tab S9 FE Plus and a USB-C plug such as the plug on the included USB-C cable form an electrical connection system.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

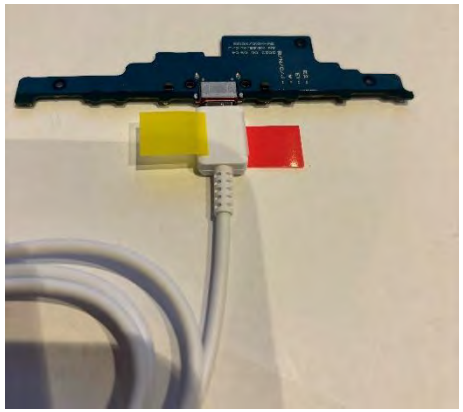
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 The socket structure of the Samsung Galaxy TabS9 FE Plus is specifically designed (and intended) to be connected with a USB-C plug such as the included USB-C cable, and indeed Samsung provides instructions to its customers to insert the USB-C plug into the USB port of the Samsung Galaxy Tab S9 FE Plus. For example, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C cable, as further described above in connection with element [**34A**]. Charge the battery Your device is powered by a rechargeable battery. A USB Type-C 3A cable is included. Learn more: samsung.com/us/support/answer/ANS00078994 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025). Samsung provides instructions to its customers to insert the USB cable into the USB port of a phone or tablet for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

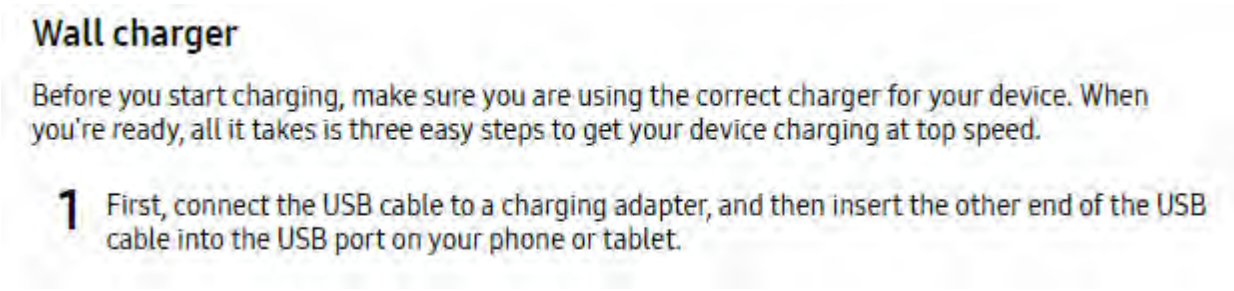
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Notably, this is the webpage where a user is redirected when the URL in the User Guide is entered into a web browser. Indeed, the entire purpose of the socket structure of the Samsung Galaxy Tab S9 FE Plus is to connect a USB cable to the Samsung Galaxy Tab S9 FE Plus which, among other things, permits a connection to the rechargeable battery for charging and thereby enables the use of the Galaxy Tab S9 FE Plus. *See also* Element [**48B**].
[**55B**] the socket structure with the duplex electrical connection of claim 34 and	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**55C**] the plug.	The Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C cable which includes a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

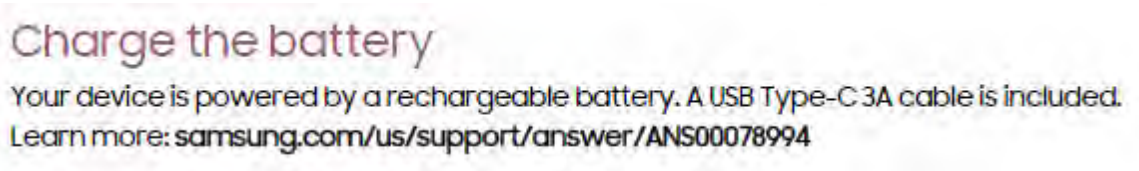
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).  (Image of USB-C cable included in packaging.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
[**56A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Galaxy Tab S9 FE Plus is a tablet that includes a socket structure with duplex electrical connection. In particular, the Galaxy Tab S9 FE Plus provides duplex electrical connection via a USB port.  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	The USB port is a USB Type-C port. **USB** USB 2.0 **Earjack** USB Type-C *See* https://web.archive.org/web/20250311143051/https://www.samsung.com/us/tablets/galaxy-tab-s9-fe/buy/galaxy-tab-s9-fe-plus-128gb-gray-wi-fi-sm-x610nzaaxar/ (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones**: Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones**: S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones**: Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones**: A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones**: Galaxy XCover6 Pro • **Gal[illegible] tablets**: Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets**: Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C to USB-C cable.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

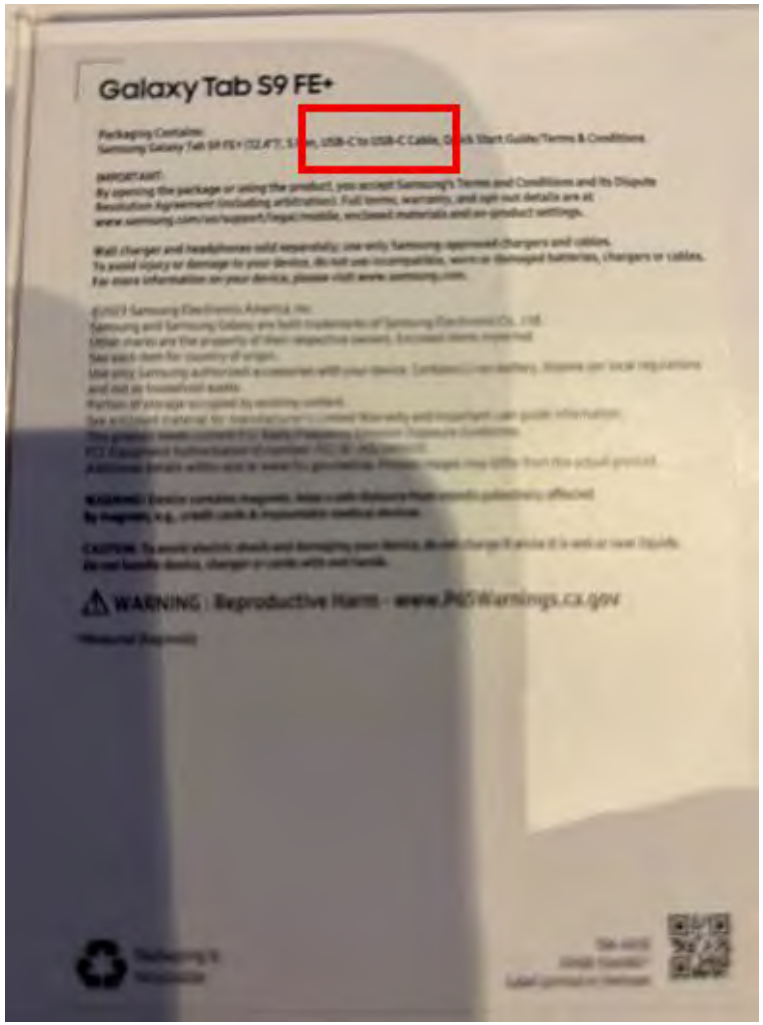
Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image of device packaging.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

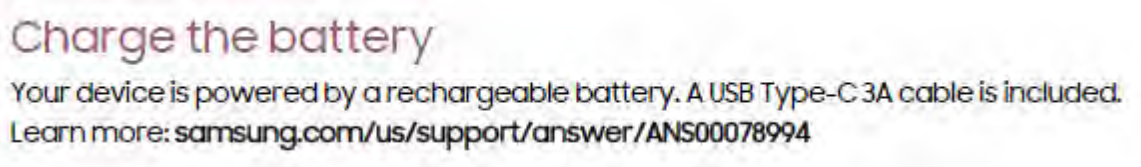
Claim 56 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).  (Image of USB-C cable included in packaging.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	See also Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**56B**] through [**56L**].
[**56B**] a plastic base;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a plastic base. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

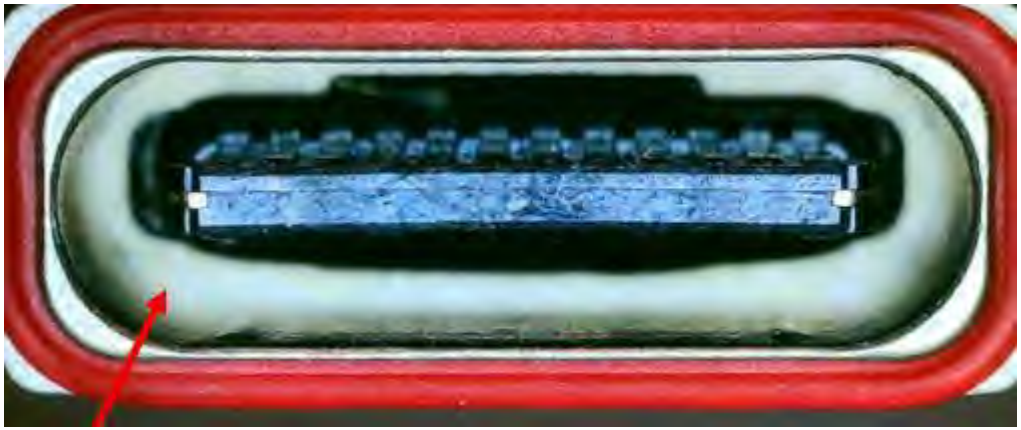
Claim 56 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34B**].
[**56C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

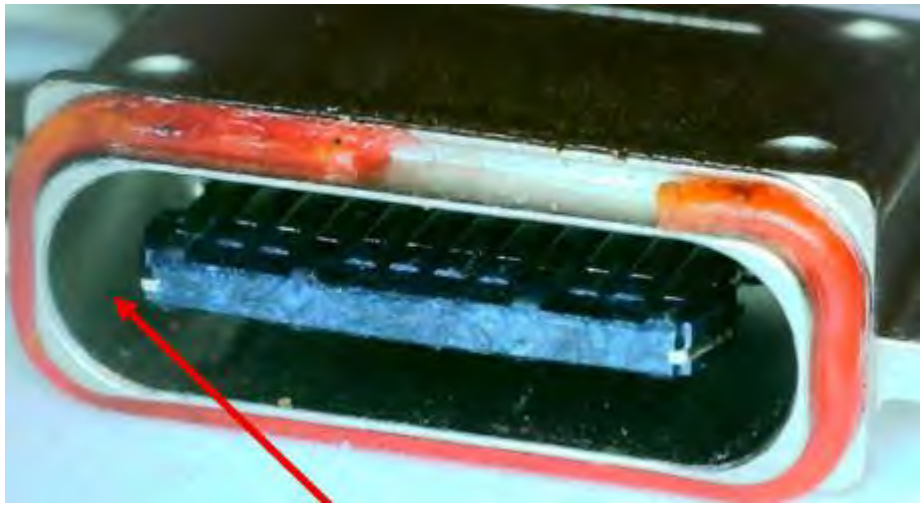
Claim 56 of the '307 Patent	Evidence of Infringement
connection terminals;	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

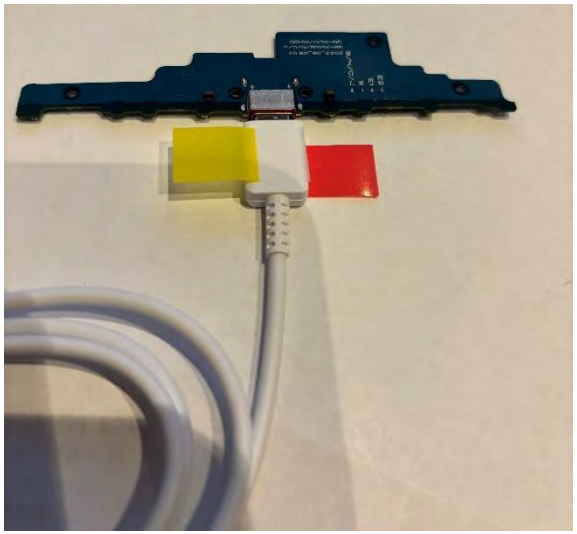
Claim 56 of the '307 Patent	Evidence of Infringement
	The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung Galaxy Tab S9 FE Plus, as described above in connection with element [**34A**].  USB-C cables include a plug with at least one row of connection terminals.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

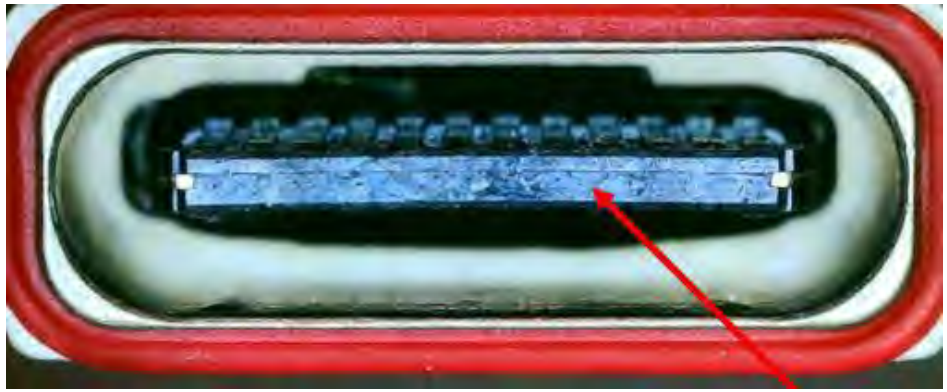
Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**56D**] a tongue, which has a top side with a first surface with grooves, and bottom side with a second surface with grooves, the	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

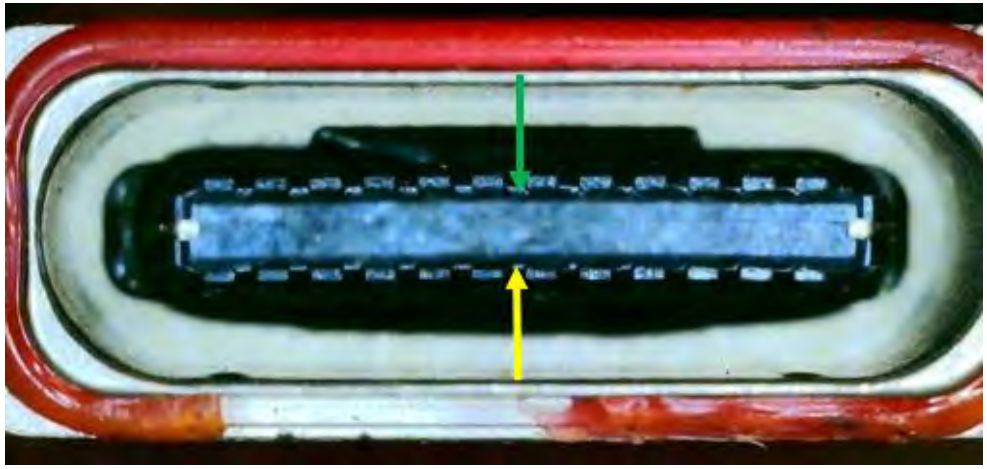
Claim 56 of the '307 Patent	Evidence of Infringement
second surface disposed opposite the first surface,	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

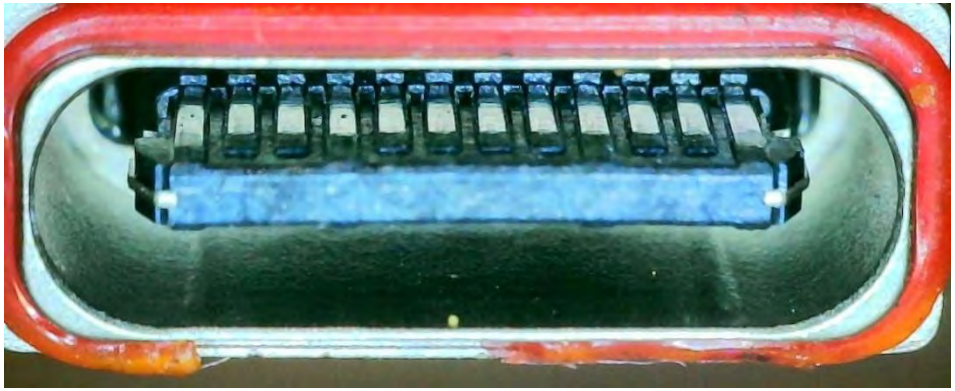
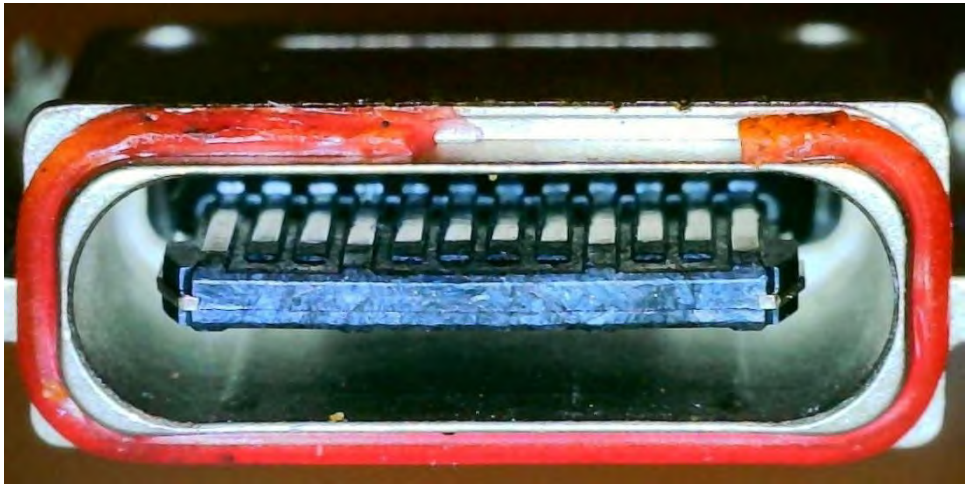
Claim 56 of the '307 Patent	Evidence of Infringement
	Each of the first and second surfaces has grooves.   *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponding to the side with the second surface as described in element [**34D**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

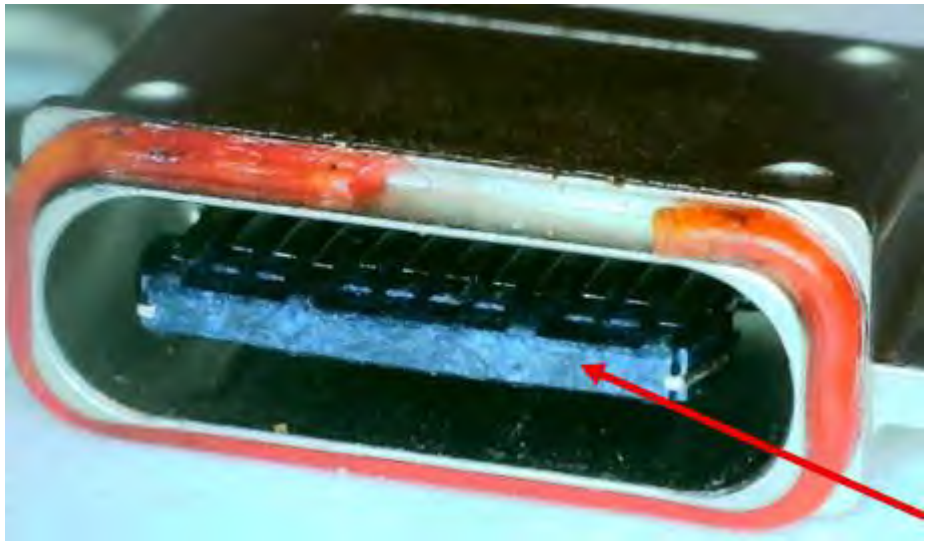
Claim 56 of the '307 Patent	Evidence of Infringement
[**56E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	The tongue of the Samsung Galaxy Tab S9 FE Plus (indicated by the red arrow) is disposed within the connection slot.  The tongue is located on one end of the plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

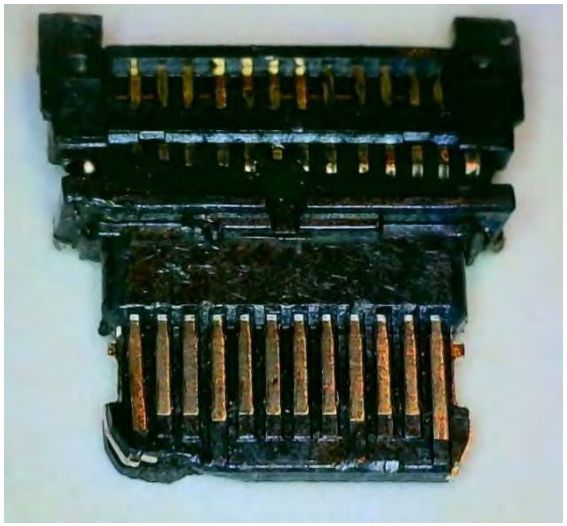
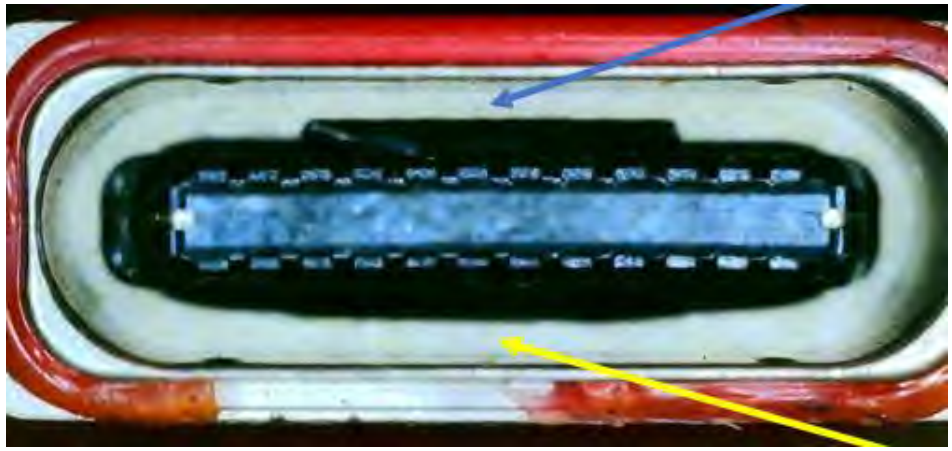
Claim 56 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by the yellow arrow). 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

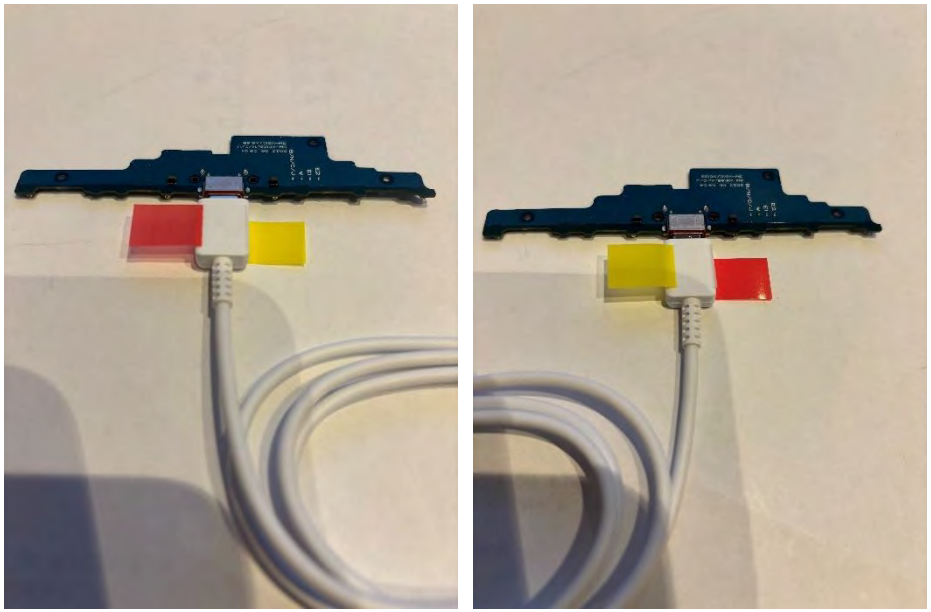
Claim 56 of the '307 Patent	Evidence of Infringement
	These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.  The red and yellow flags are attached to the same side of the plug in both images, showing that the plug can be connected to the socket structure of the Samsung Galaxy Tab S9 FE Plus when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**56F**] at least one row of first contacts separately arranged on	The Samsung Galaxy Tab S9 FE Plus includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

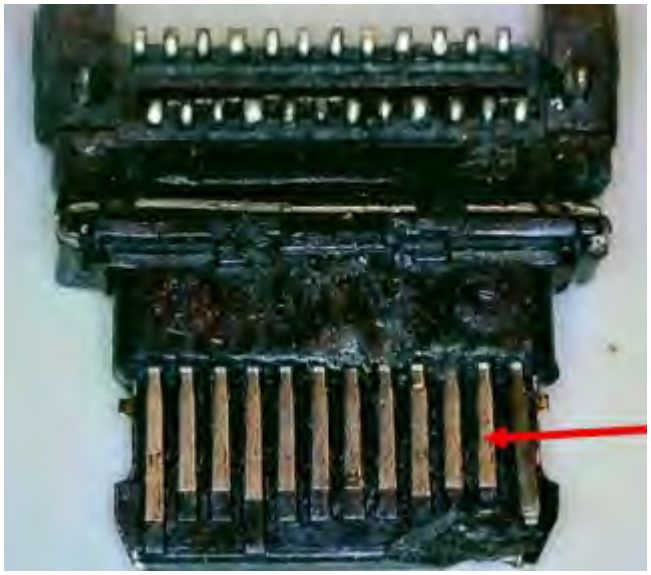
Claim 56 of the '307 Patent	Evidence of Infringement
the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image above, the Samsung Galaxy Tab S9 FE Plus further includes two rows of twelve pins extending out of the plastic base. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

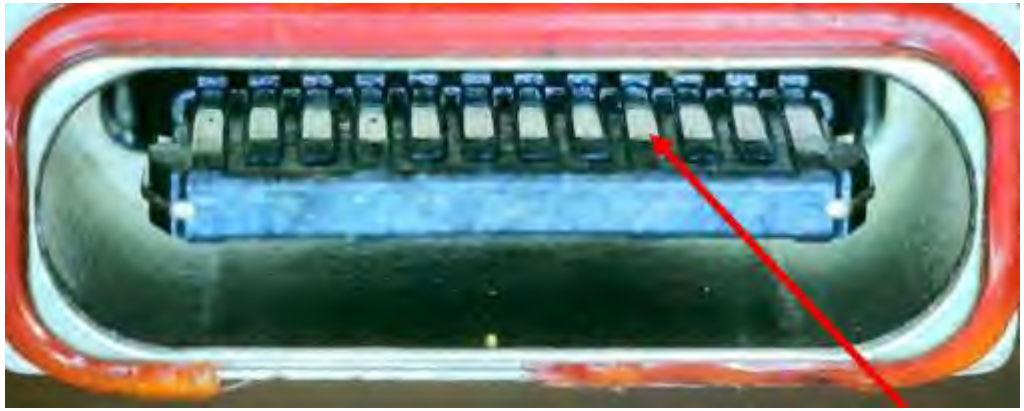
Claim 56 of the '307 Patent	Evidence of Infringement
	In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. *See also* Element [**34F**].
[**56G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung Galaxy Tab S9 FE Plus includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

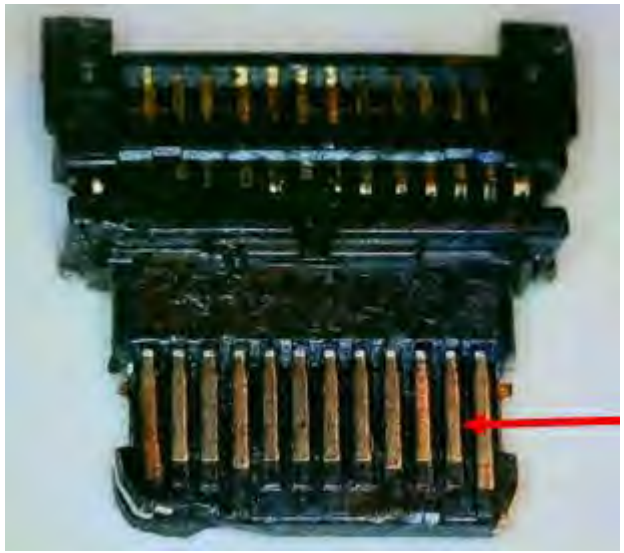
Claim 56 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34G**].
[**56H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung Galaxy Tab S9 FE Plus includes two rows of twelve pins extending out of the plastic base. On information and belief, the row identified by the arrow corresponds to the second pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

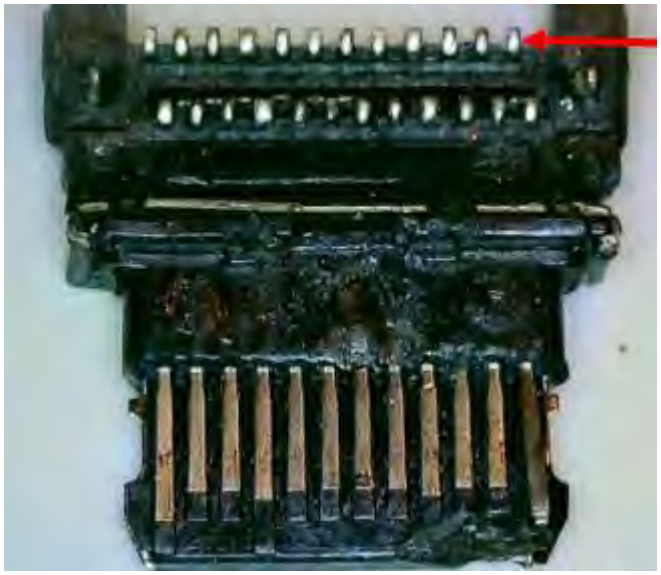
Claim 56 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

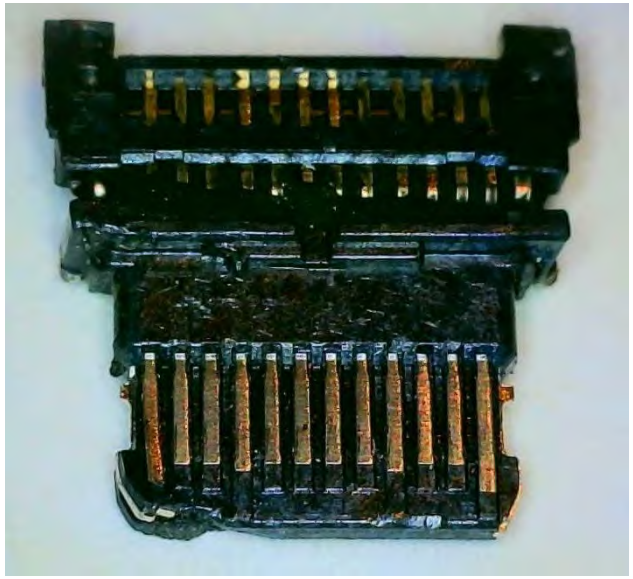
Claim 56 of the '307 Patent	Evidence of Infringement
	In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**56I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

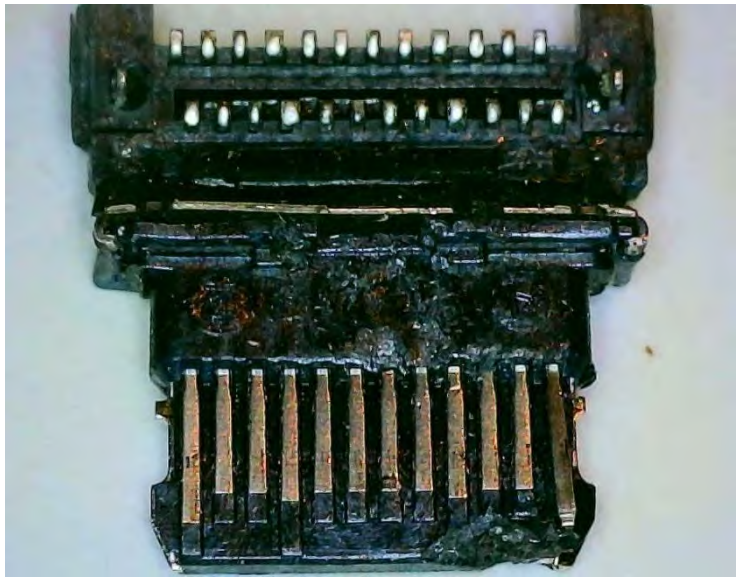
Claim 56 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

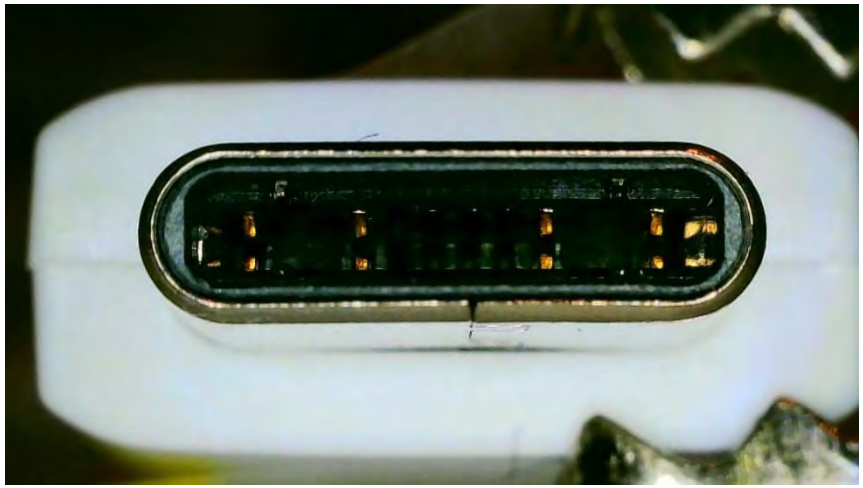
Claim 56 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

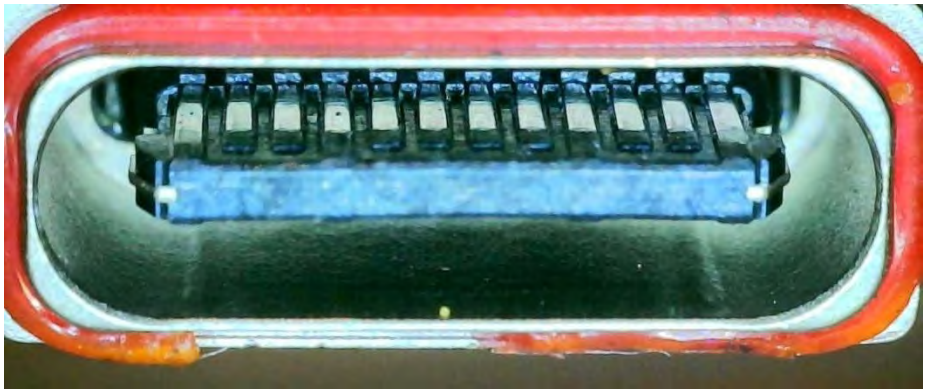
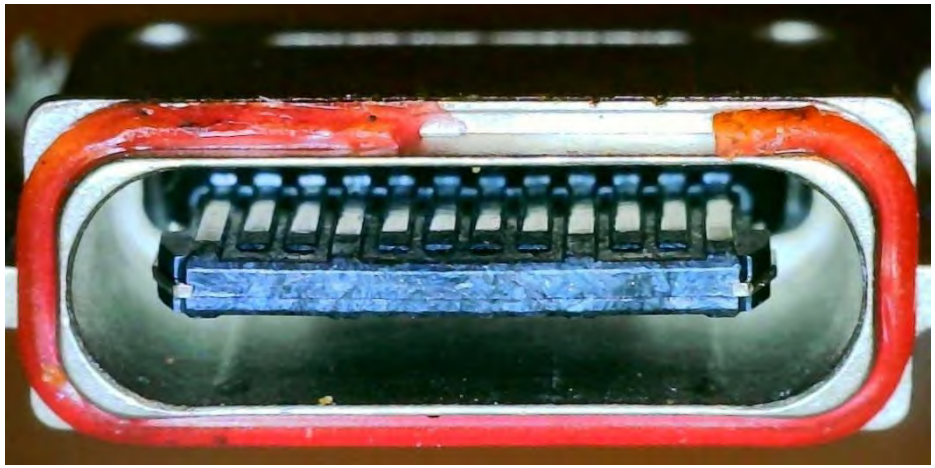
EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**56J**] the at least one row of first contacts has a functional	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	  In addition, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Claim 56 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

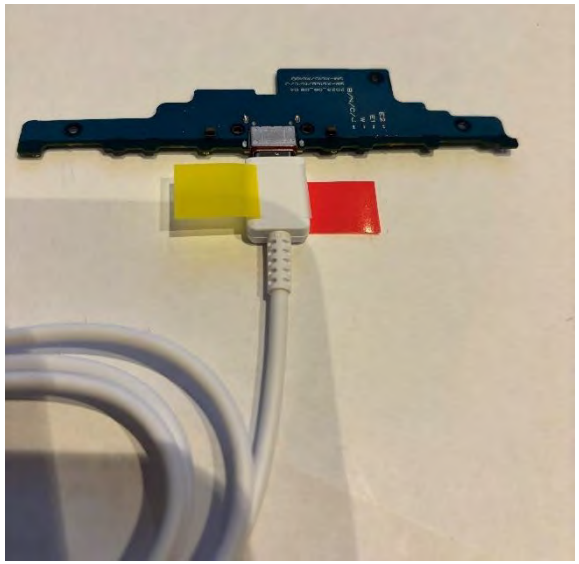
Claim 56 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**56K**] through [**56L**].
[**56K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the second surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

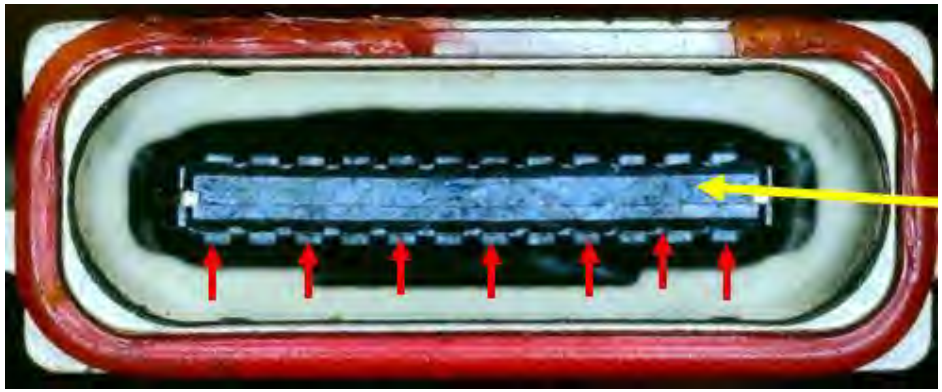
Claim 56 of the '307 Patent	Evidence of Infringement
second contacts; and	  (Image of USB-C plug showing top and bottom rows of connection terminals.) *See also* Element [**34K**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

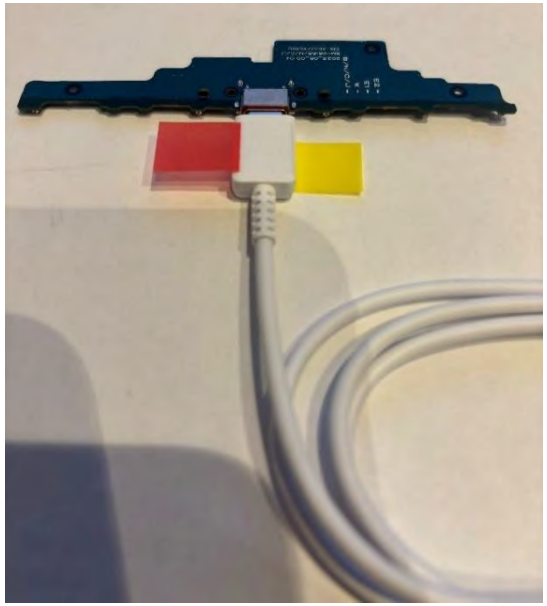
Claim 56 of the '307 Patent	Evidence of Infringement
[**56L**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of	The Samsung Galaxy Tab S9 FE Plus is further configured for a second operational state when the USB-C plug is oppositely inserted into the communication slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the red flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

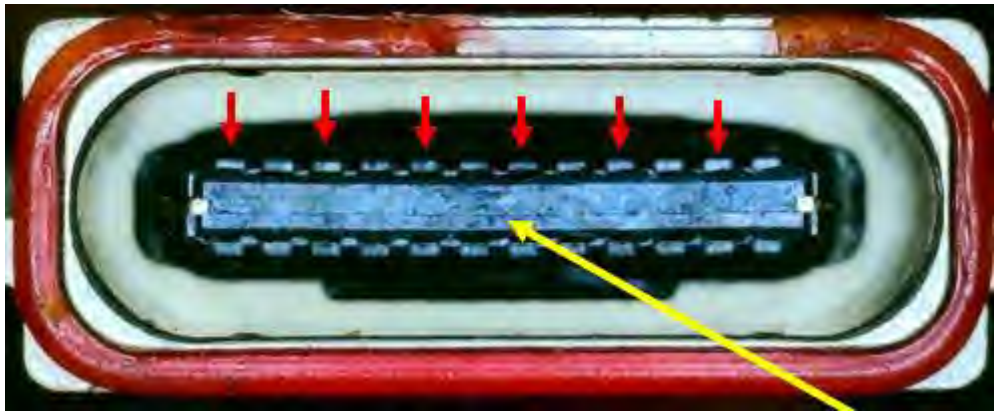
Claim 56 of the '307 Patent	Evidence of Infringement
first contacts.	 *See also* Element [**34M**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

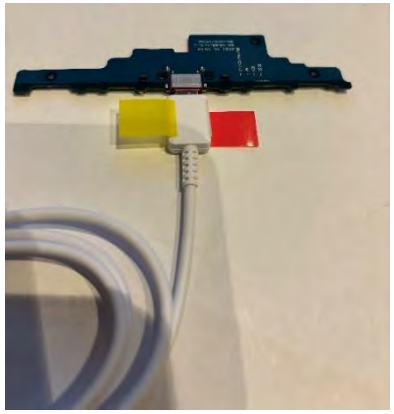
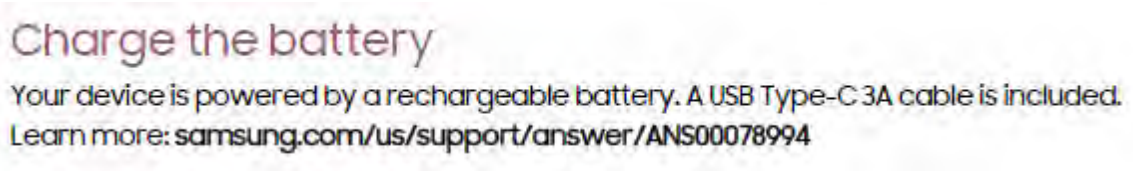
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
[**57A**] An electrical connection system comprising	The Samsung Galaxy Tab S9 FE Plus and a USB-C plug such as the plug on the included USB-C cable form an electrical connection system.  The socket structure of the Samsung Galaxy TabS9 FE Plus is specifically designed (and intended) to be connected with a USB-C plug such as the included USB-C cable, and indeed Samsung provides instructions to its customers to insert the USB-C plug into the USB port of the Samsung Galaxy Tab S9 FE Plus. For example, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C cable, as further described above in connection with element [**34A**].  Charge the battery Your device is powered by a rechargeable battery. A USB Type-C 3A cable is included. Learn more: samsung.com/us/support/answer/ANS00078994 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

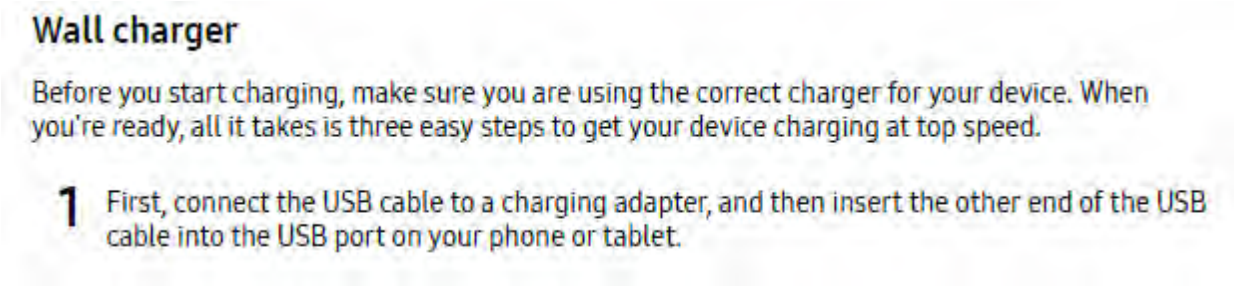
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	Samsung provides instructions to its customers to insert the USB cable into the USB port of a phone or tablet for charging.  *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Notably, this is the webpage where a user is redirected when the URL in the User Guide is entered into a web browser. Indeed, the entire purpose of the socket structure of the Samsung Galaxy Tab S9 FE Plus is to connect a USB cable to the Samsung Galaxy Tab S9 FE Plus which, among other things, permits a connection to the rechargeable battery for charging and thereby enables the use of the Galaxy Tab S9 FE Plus. *See also* Elements [**48B**], [**55A**].
[**57B**] the socket structure with the duplex electrical connection of claim 56 and	This Accused Instrumentality includes a socket structure as described in claim 56, as described above in connection with elements [**56A**] through [**56L**].
[**57C**] the plug, wherein the	The Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C cable which includes a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

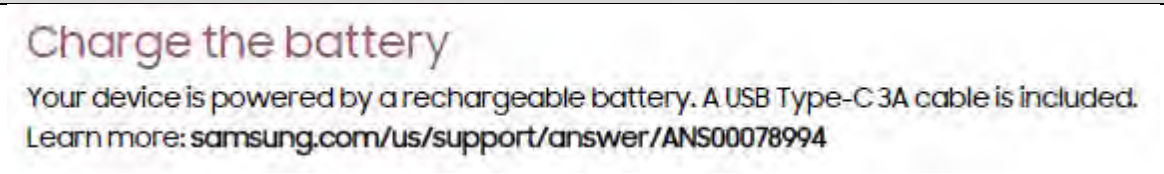
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
socket structure is operatively connected to the plug, and	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).  (Image of USB-C cable included in packaging.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 When the cable is connected to the Samsung Galaxy Tab S9 FE Plus, the socket structure is operative connected to the plug.  *See also* Elements [**48B**], [**55C**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

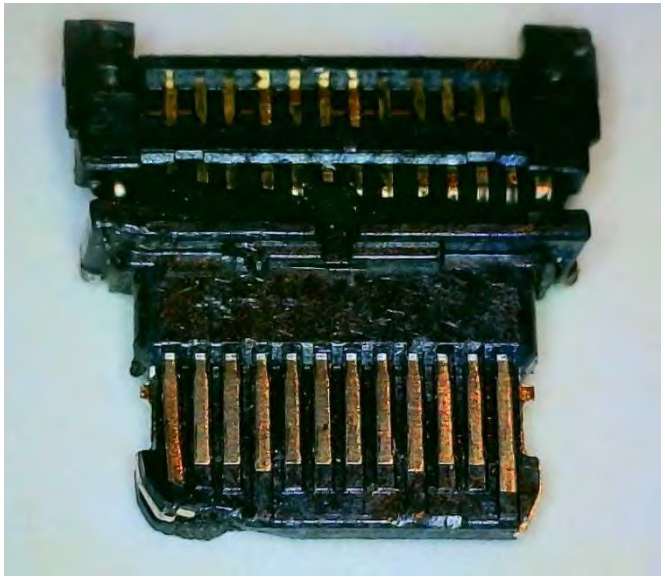
Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
[**57D**] wherein the socket structure is operative to simultaneously electrically connect via the first and second contacts.	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

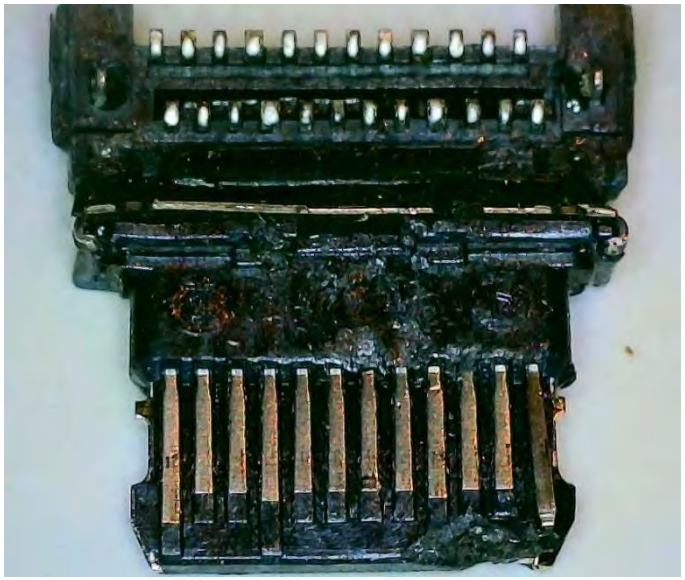
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

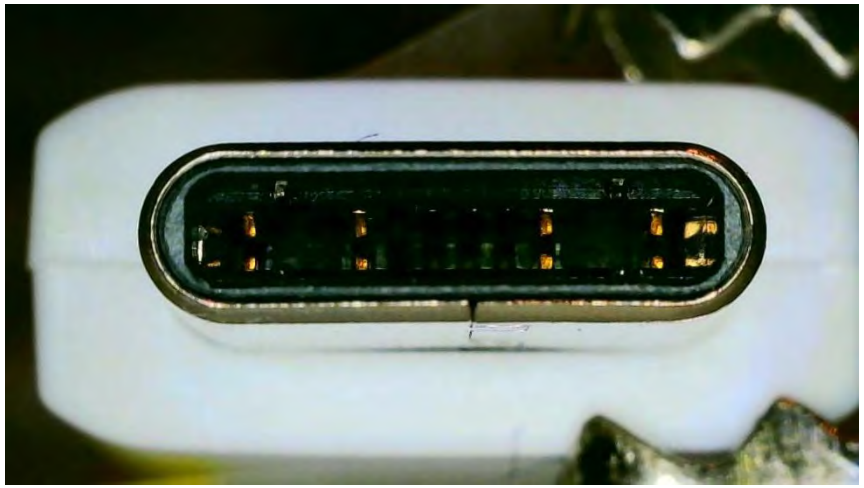
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

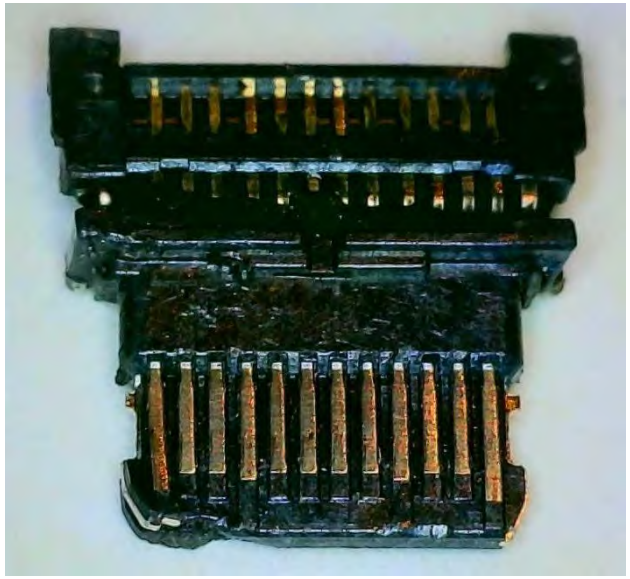
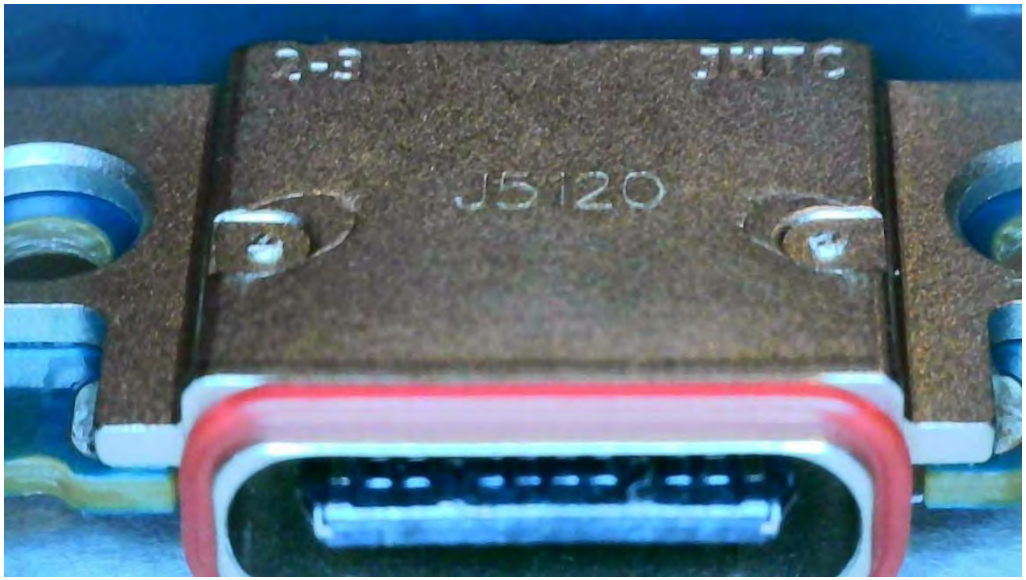
Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
[**58A**] The socket structure of claim 56,	This Accused Instrumentality includes a socket structure as described in claim 56, as described above in connection with elements [**56A**] through [**56L**].
[**58B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base are integrally formed.  *See also* Element [**41B**].
[**59A**] The socket structure of claim 58,	This Accused Instrumentality includes a socket structure as described in claim 58, as described above in connection with elements [**58A**] through [**58B**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
[**59B**] further comprising a metal housing at least partially covering the plastic base.	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a metal housing that covers the plastic base at least in part.  (Image of socket structure of Samsung Galaxy Tab S9 FE Plus.) *See also* Element [**39B**].
[**60A**] The socket structure of claim 59,	This Accused Instrumentality includes a socket structure as described in claim 59, as described above in connection with elements [**59A**] through [**59B**].
[**60B**] wherein at least two of the first	At least one of each of the first and second contacts of the Samsung Galaxy Tab S9 FE Plus are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung Galaxy Tab S9 FE Plus includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
contacts are not in electrical communication with one another, and at least two of the second contacts are not in electrical communication with one another.	

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The Samsung Galaxy Tab S9 FE Plus would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	Furthermore, test results confirm that at least some of the contacts on each side are not in electrical communication with others of the contacts on the same side. *See also* Element [**44B**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
[**98A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Galaxy Tab S9 FE Plus is a tablet that includes a socket structure with duplex electrical connection. In particular, the Galaxy Tab S9 FE Plus provides duplex electrical connection via a USB port.  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	The USB port is a USB Type-C port. **USB** USB 2.0 **Earjack** USB Type-C *See* https://web.archive.org/web/20250311143051/https://www.samsung.com/us/tablets/galaxy-tab-s9-fe/buy/galaxy-tab-s9-fe-plus-128gb-gray-wi-fi-sm-x610nzaaxar/ (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Gal[illegible] tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C to USB-C cable.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

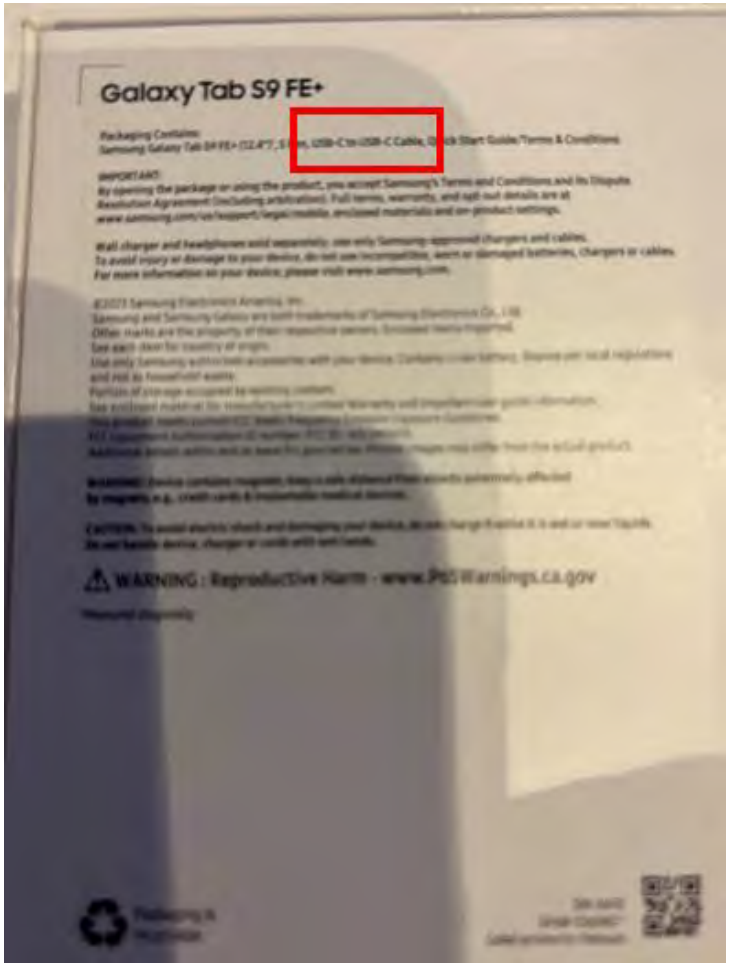
Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image of device packaging.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

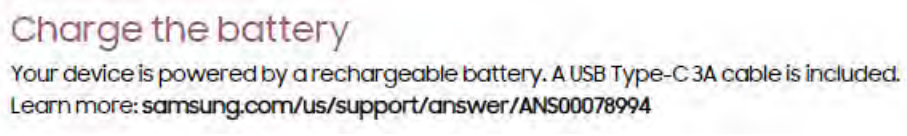
Claim 98 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).  (Image of USB-C cable included in packaging.) *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**98B**] through [**98N**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
[**98B**] a plastic base;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a plastic base.   (Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34B**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

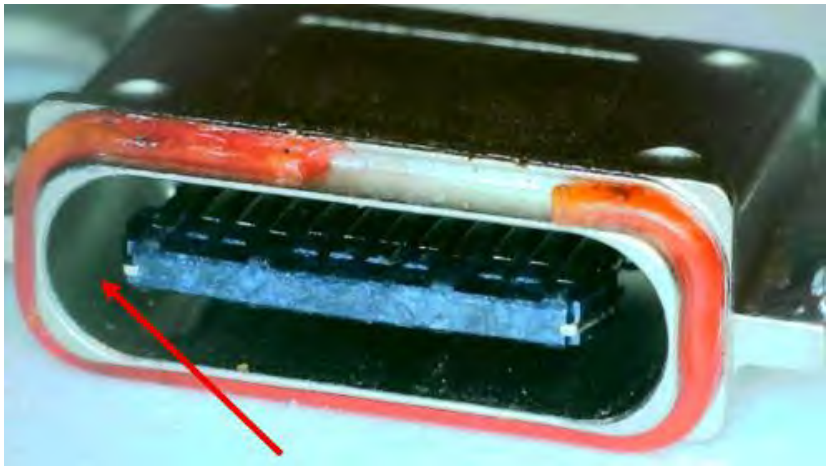
Claim 98 of the '307 Patent	Evidence of Infringement
[**98C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a connection slot.  The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

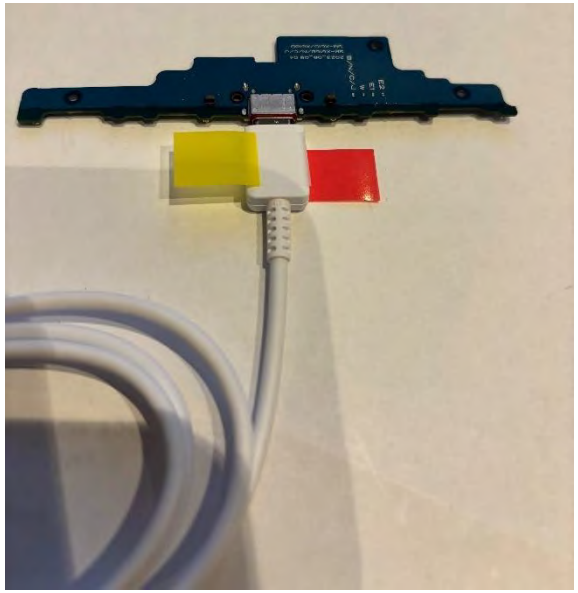
Claim 98 of the '307 Patent	Evidence of Infringement
	The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung Galaxy Tab S9 FE Plus, as described above in connection with element [**34A**].  USB-C cables include a plug with at least one row of connection terminals.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

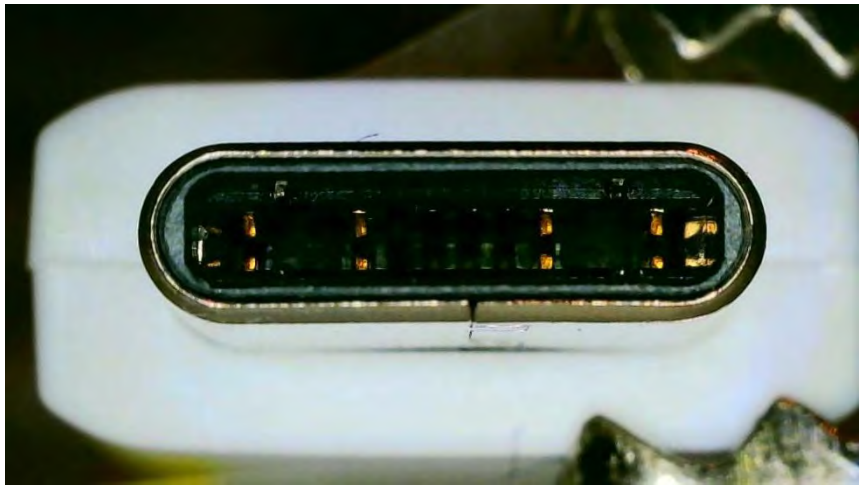
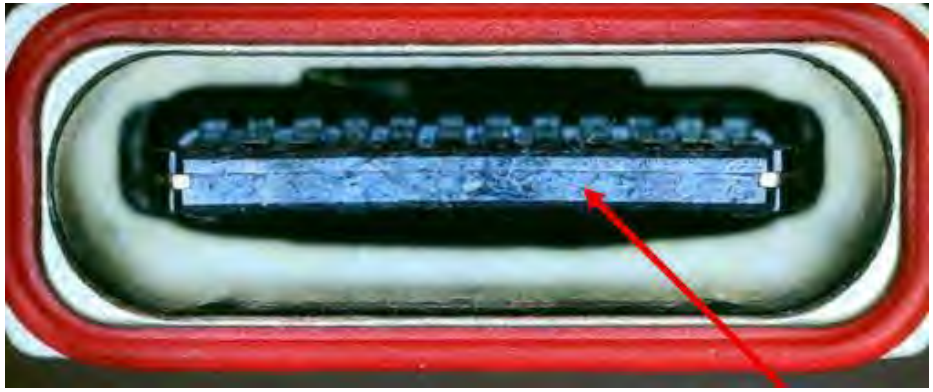
Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**98D**] a tongue, which has a first surface with grooves, and a second surface with grooves, the second surface	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

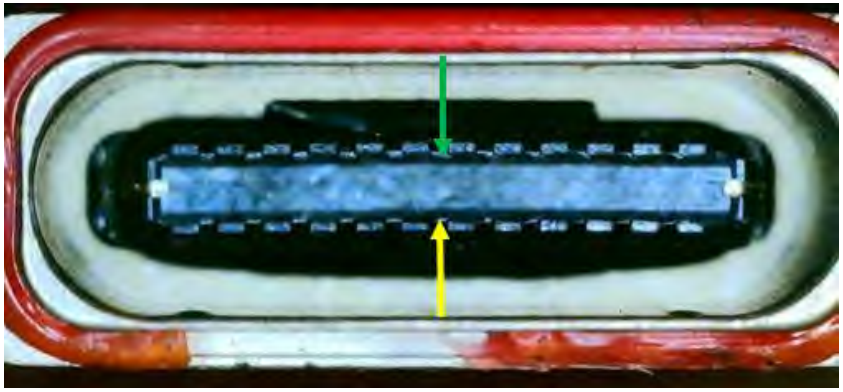
Claim 98 of the '307 Patent	Evidence of Infringement
disposed opposite the first surface,	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.  Each of the first and second surfaces has grooves.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

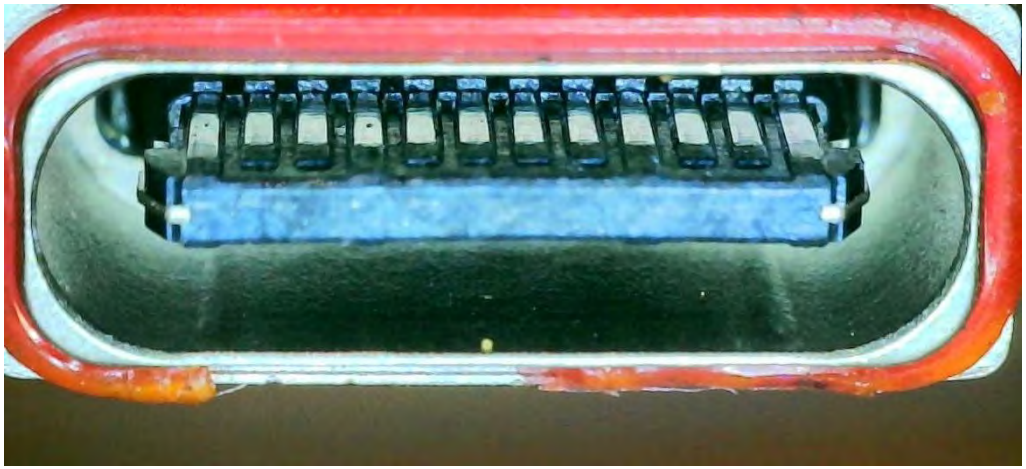
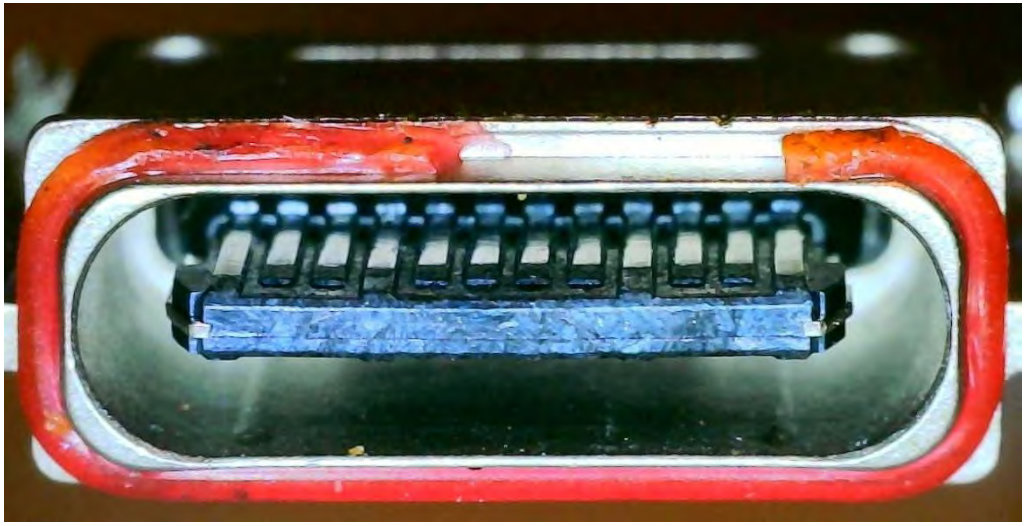
Claim 98 of the '307 Patent	Evidence of Infringement
	  *See also* Element [**34D**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

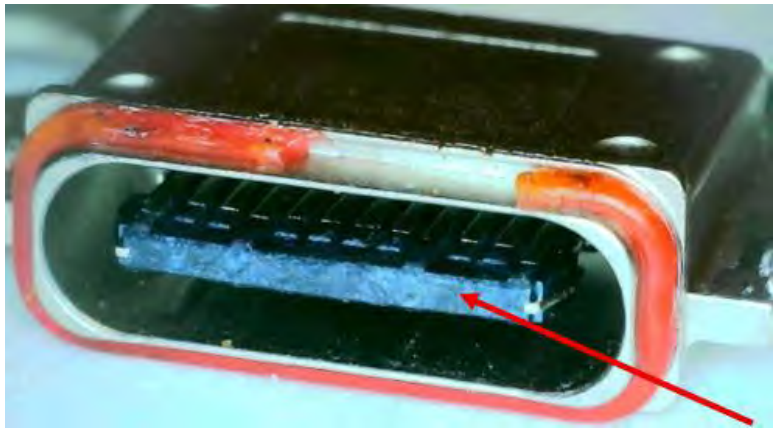
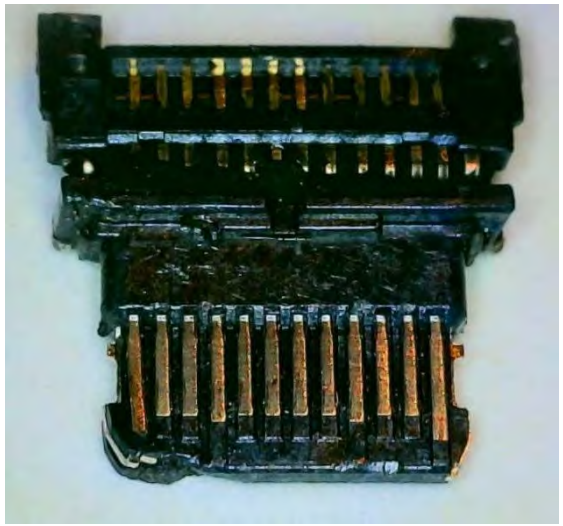
Claim 98 of the '307 Patent	Evidence of Infringement
[**98E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot based on an operational	The tongue of the Samsung Galaxy Tab S9 FE Plus (indicated by the red arrow) is disposed within the connection slot.  The tongue is located on one end of the plastic base. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

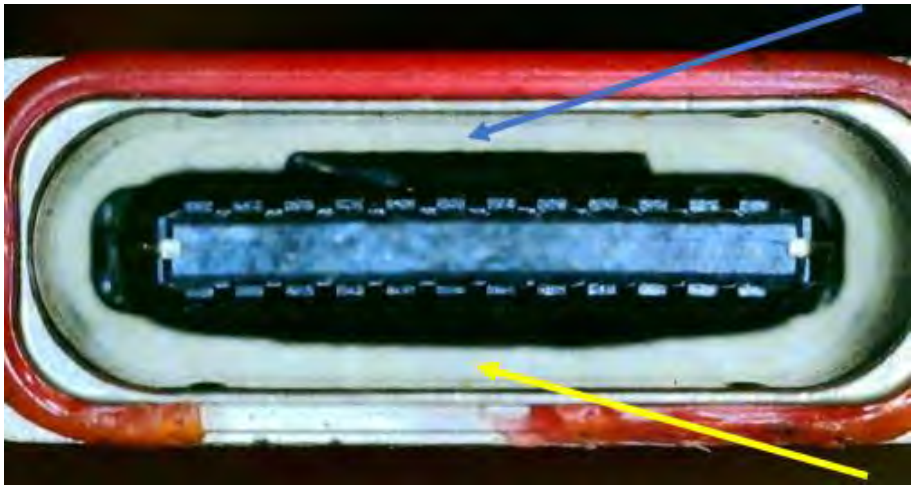
Claim 98 of the '307 Patent	Evidence of Infringement
state when the socket structure is connected to the plug;	The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by the yellow arrow).  These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

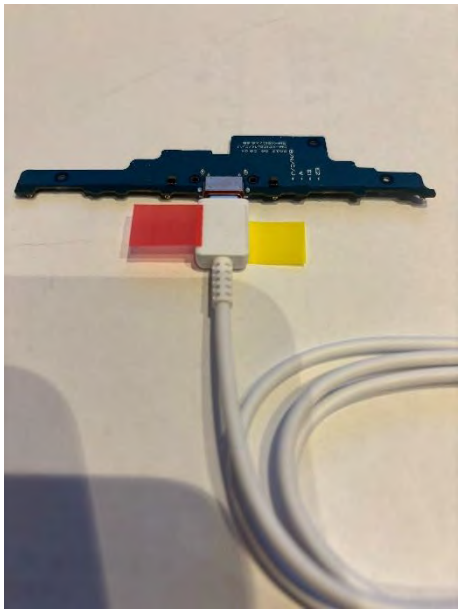
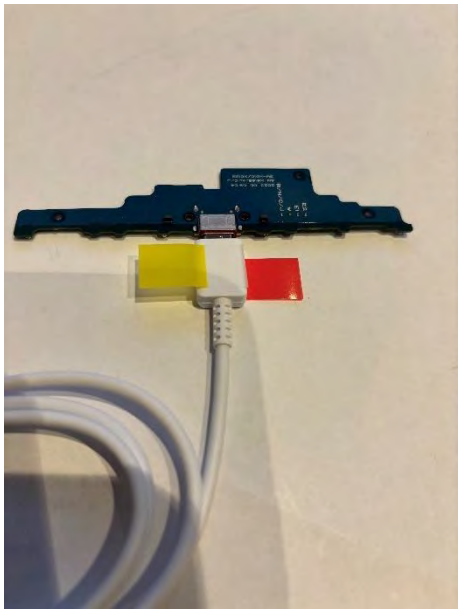
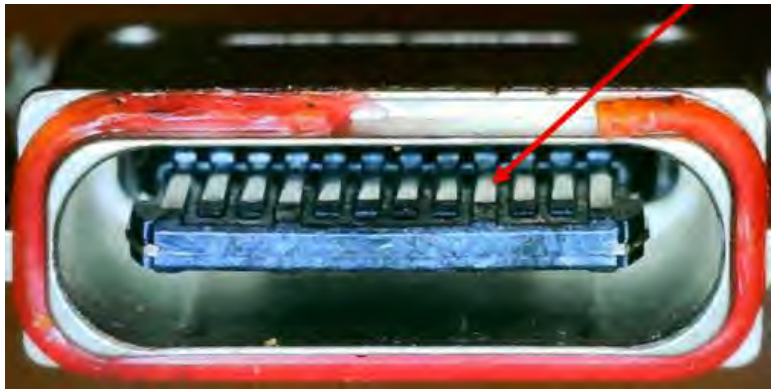
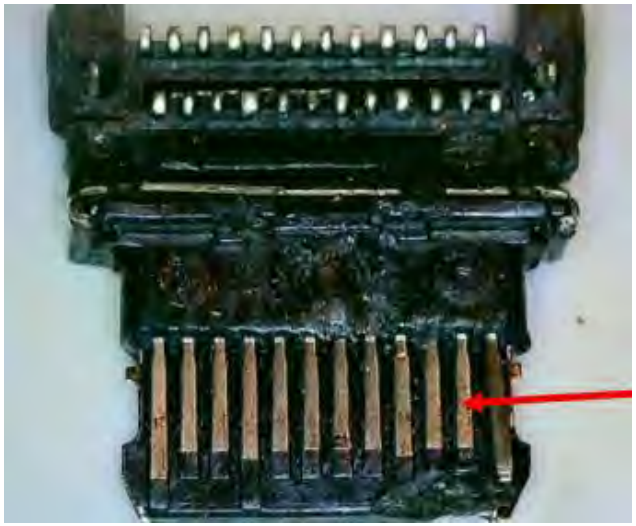
Claim 98 of the '307 Patent	Evidence of Infringement
	  The red and yellow flags are attached to the same side of the plug in both images, showing that the plug can be connected to the socket structure of the Samsung Galaxy Tab S9 FE Plus when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**98F**] at least one row of first contacts separately arranged on the first	The Samsung Galaxy Tab S9 FE Plus includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	  Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image above, the Samsung Galaxy Tab S9 FE Plus further includes two rows of twelve pins extending out of the plastic base.

Claim 98 of the '307 Patent	Evidence of Infringement
	This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

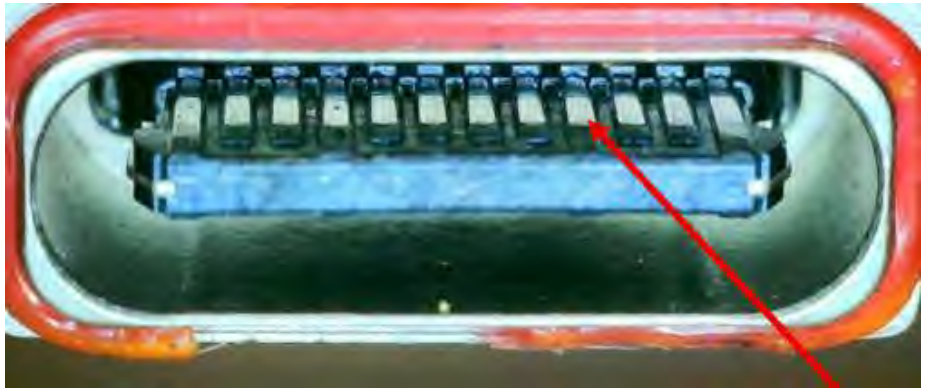
Claim 98 of the '307 Patent	Evidence of Infringement
	In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. *See also* Element [**34F**].
[**98G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung Galaxy Tab S9 FE Plus includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34G**].
[**98H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung Galaxy Tab S9 FE Plus includes two rows of twelve pins extending out of the plastic base. On information and belief, the row identified by the arrow corresponds to the second pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

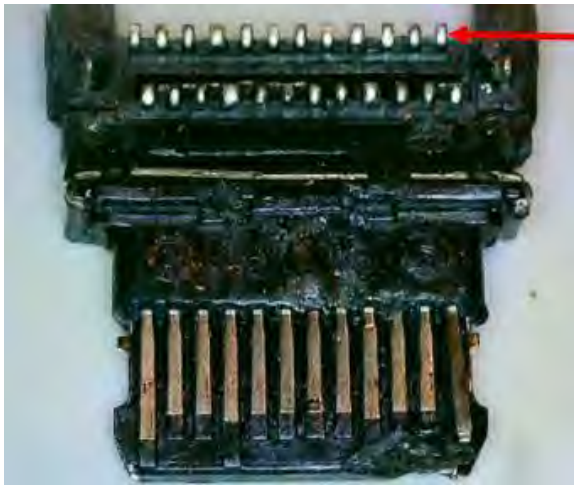
Claim 98 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

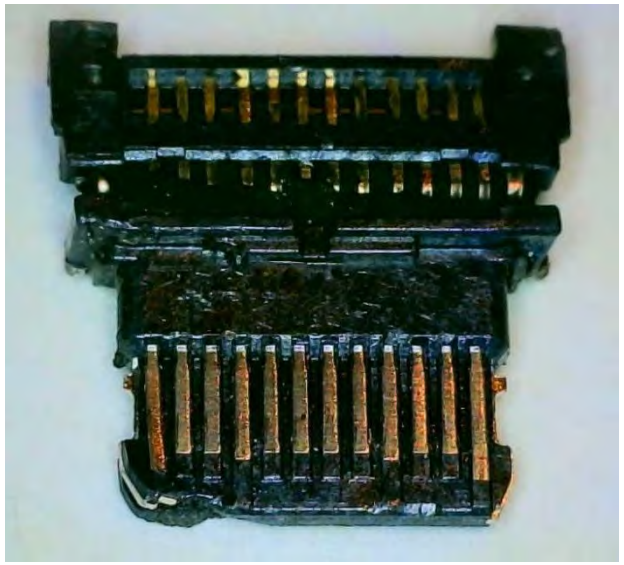
Claim 98 of the '307 Patent	Evidence of Infringement
	In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**98I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

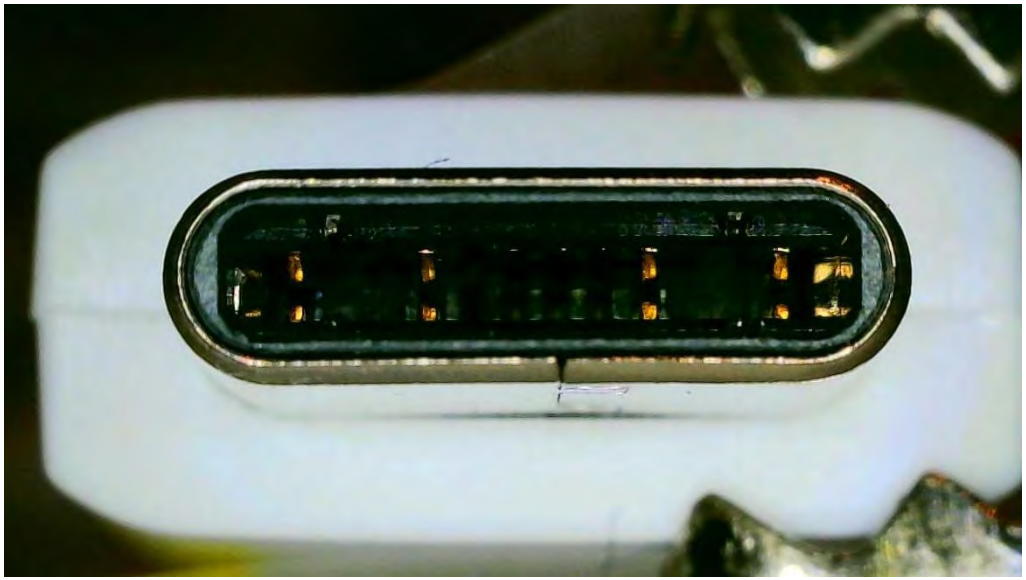
Claim 98 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement

2.4 VBUS

VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported.

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB.

12. All VBUS pins shall be connected together in the USB Type-C plug.

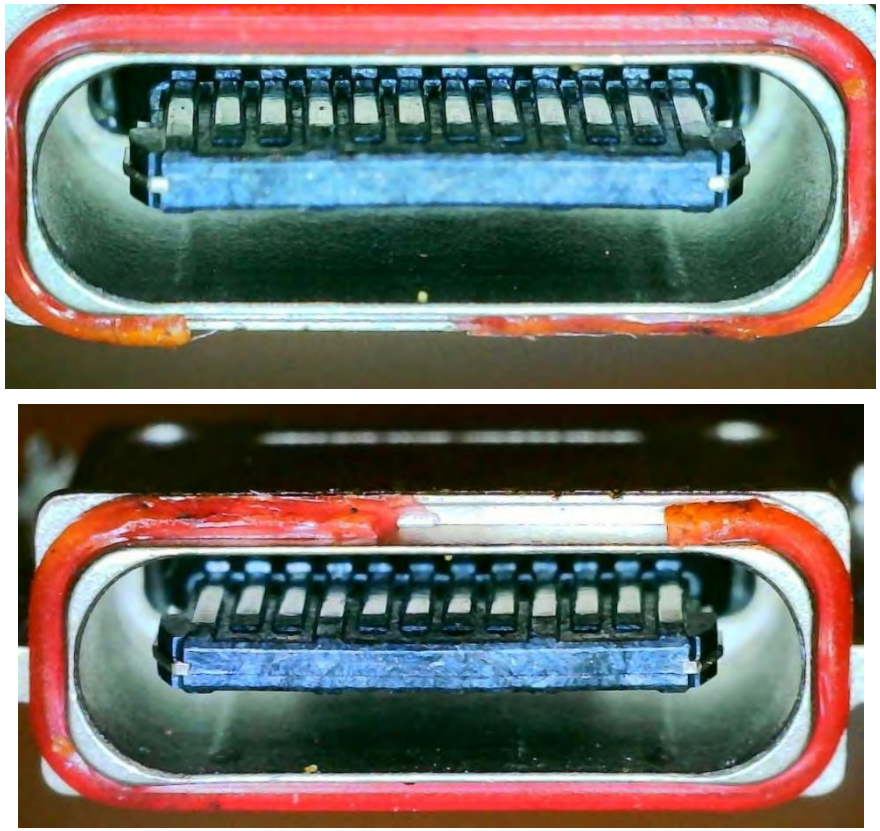
Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12.

14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB).

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15.

See also Element [**34I**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
[**98J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image).  In addition, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Claim 98 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

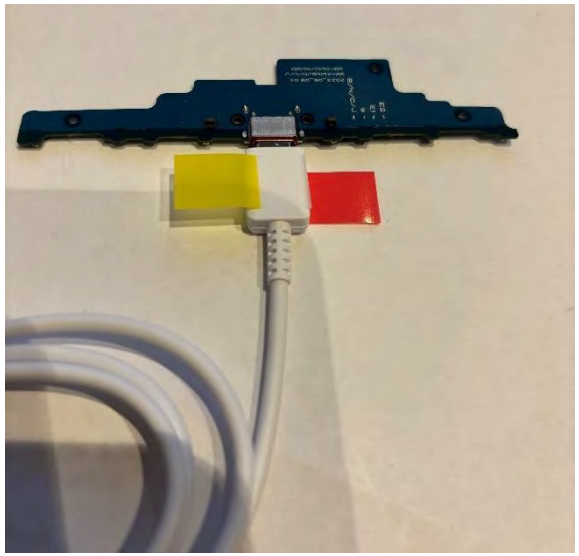
Claim 98 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**98K**] through [**98N**].
[**98K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the second surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

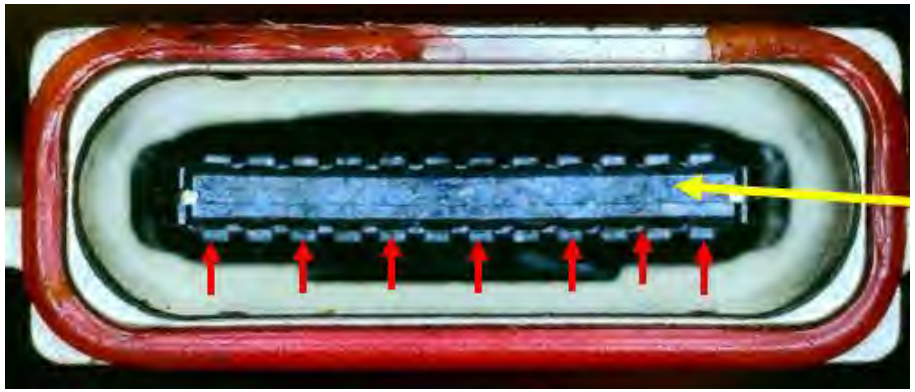
Claim 98 of the '307 Patent	Evidence of Infringement
one row of second contacts and the tongue is disposed at a central location within the connection slot,	  (Image of USB-C plug showing top and bottom rows of connection terminals.) The tongue is disposed at a central location within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

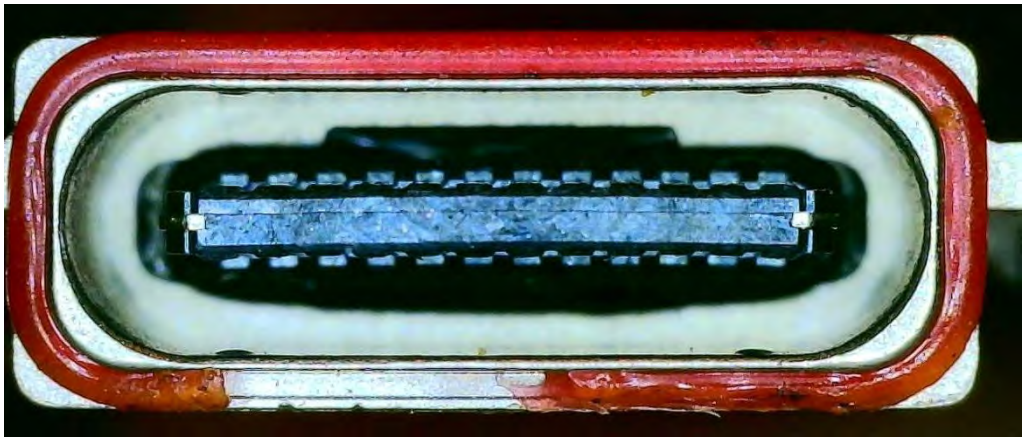
Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**].
[**98L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state as described above in connection with element [**98K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric right and left chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

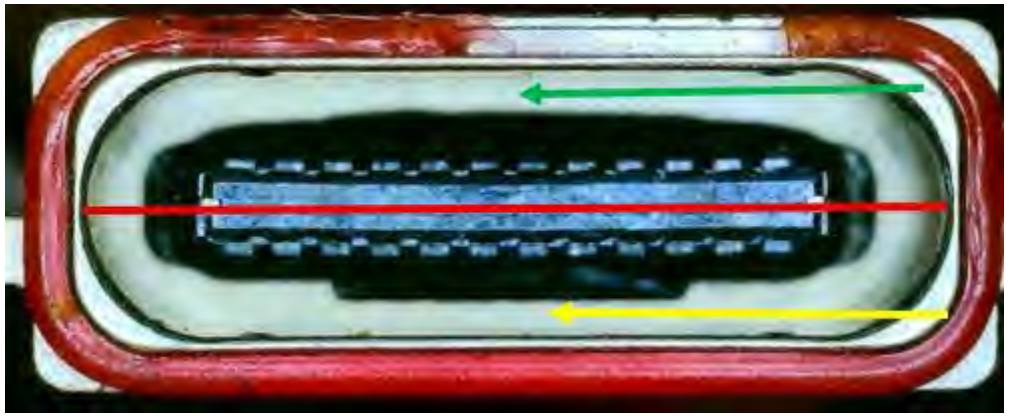
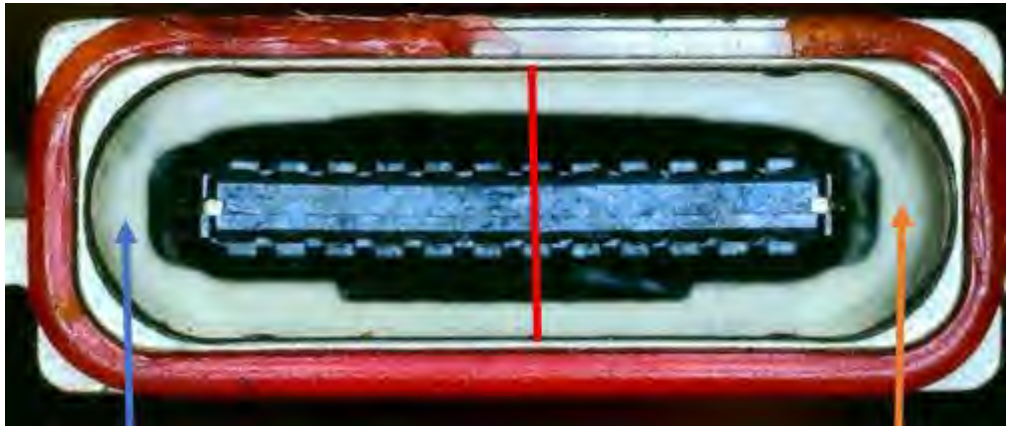
Claim 98 of the '307 Patent	Evidence of Infringement
around the tongue; and	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below.  *See also* Element [**34L**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

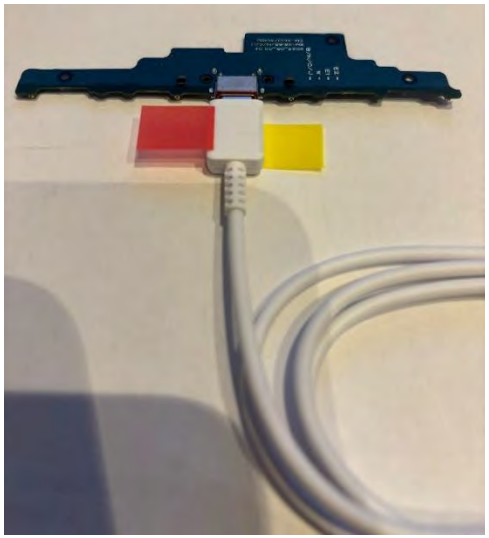
Claim 98 of the '307 Patent	Evidence of Infringement
[**98M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first	The Samsung Galaxy Tab S9 FE Plus is further configured for a second operational state when the USB-C plug is oppositely inserted into the communication slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the red flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

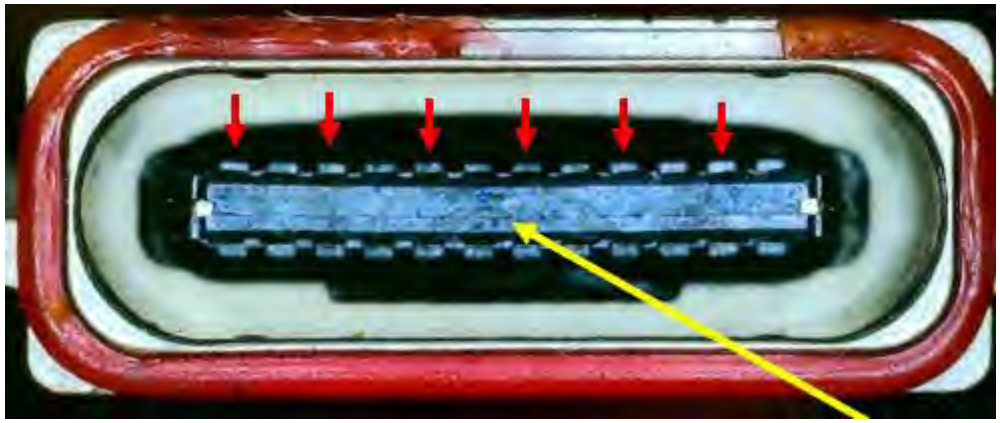
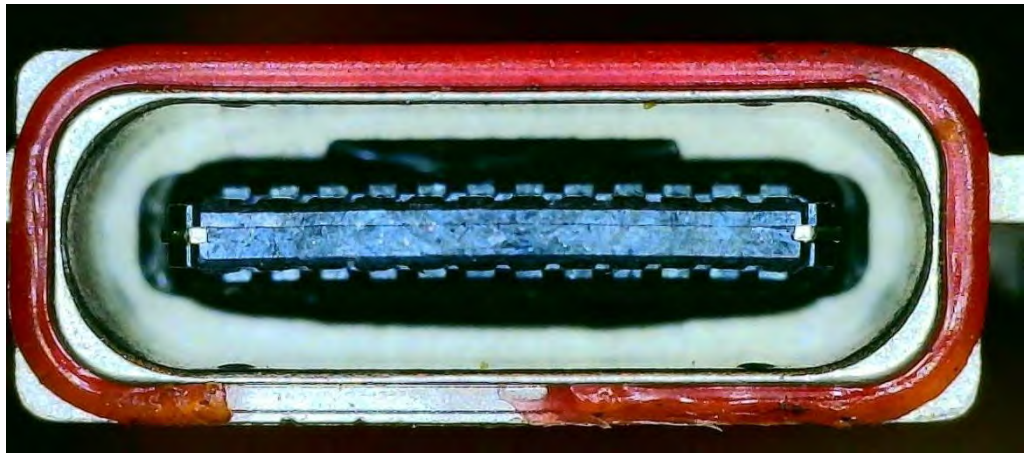
Claim 98 of the '307 Patent	Evidence of Infringement
contacts, and the tongue is disposed at a central location within the connection slot,	 The tongue is disposed at a central location within the connection slot.  *See also* Element [**34M**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
[**98N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**98L**]. *See also* Element [**34N**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

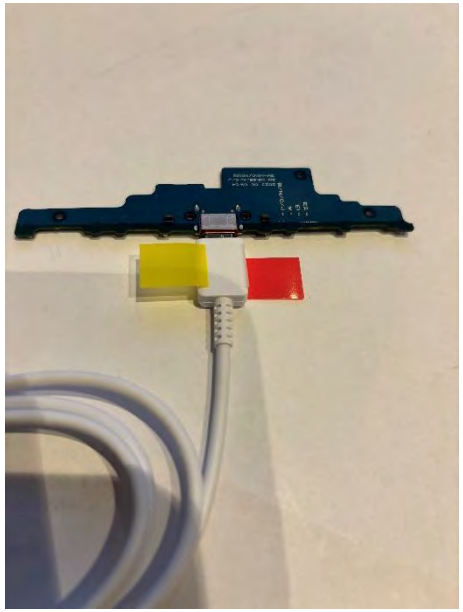
Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
[**99A**] An electrical connection system comprising	The Samsung Galaxy Tab S9 FE Plus and a USB-C plug such as the plug on the included USB-C cable form an electrical connection system.  The socket structure of the Samsung Galaxy TabS9 FE Plus is specifically designed (and intended) to be connected with a USB-C plug such as the included USB-C cable, and indeed Samsung provides instructions to its customers to insert the USB-C plug into the USB port of the Samsung Galaxy Tab S9 FE Plus. For example, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C cable, as further described above in connection with element [**34A**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

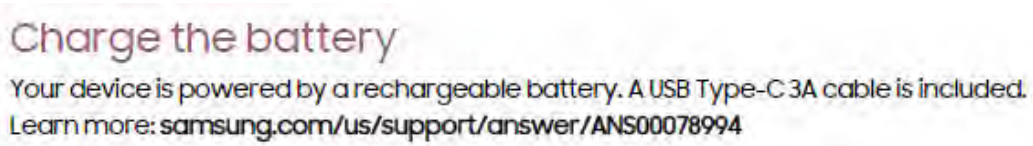
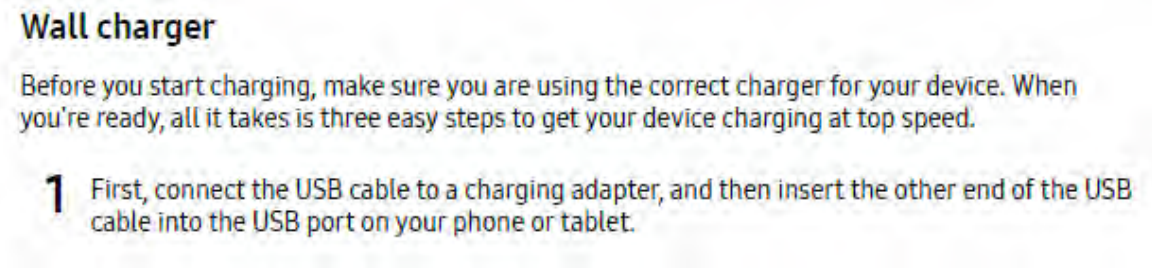
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025). Samsung provides instructions to its customers to insert the USB cable into the USB port of a phone or tablet for charging.  *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Notably, this is the webpage where a user is redirected when the URL in the User Guide is entered into a web browser. Indeed, the entire purpose of the socket structure of the Samsung Galaxy Tab S9 FE Plus is to connect a USB cable to the Samsung Galaxy Tab S9 FE Plus which, among other things, permits a connection to the rechargeable battery for charging and thereby enables the use of the Galaxy Tab S9 FE Plus. *See also* Elements [**48B**], [**55A**].
[**99B**] the socket structure with the	This Accused Instrumentality includes a socket structure as described in claim 98 as described above in connection with elements [**98A**] through [**98N**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

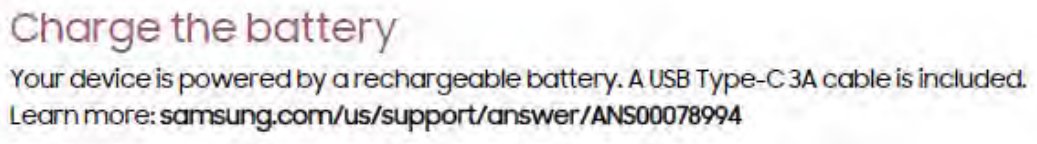
Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
duplex electrical connection of claim 98 and	
[**99C**] the plug,	The Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C cable which includes a USB-C plug.  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable included in packaging.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

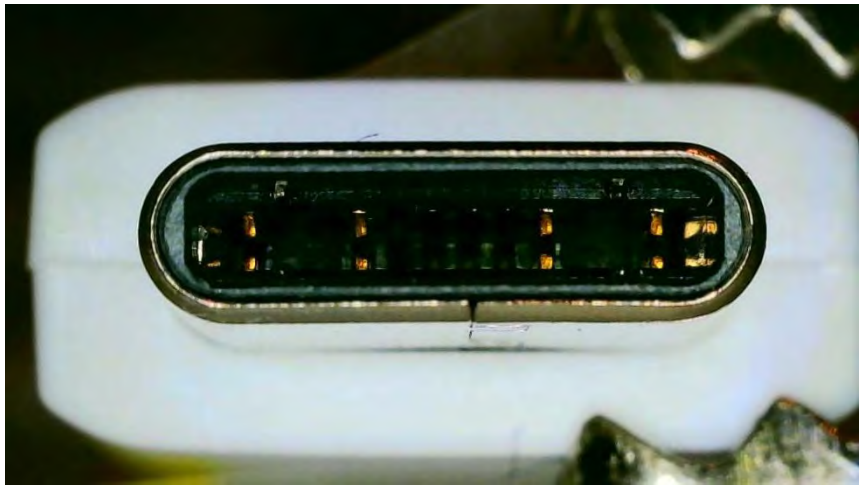
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**55C**].
[**99D**] wherein the socket structure is operatively connected to the plug,	When the cable is connected to the Samsung Galaxy Tab S9 FE Plus, the socket structure is operative connected to the plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

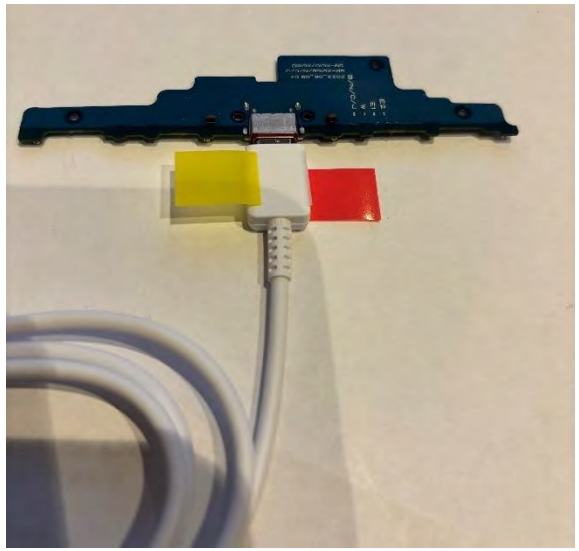
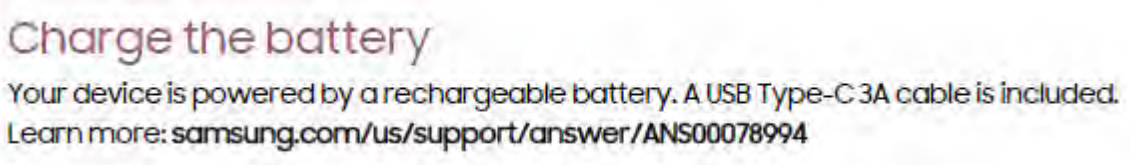
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 The Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C cable, as further described above in connection with element [**34A**].  Charge the battery Your device is powered by a rechargeable battery. A USB Type-C 3A cable is included. Learn more: samsung.com/us/support/answer/ANS00078994 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025) Samsung provides instructions to its customers to insert the USB cable into the USB port of a phone or tablet for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

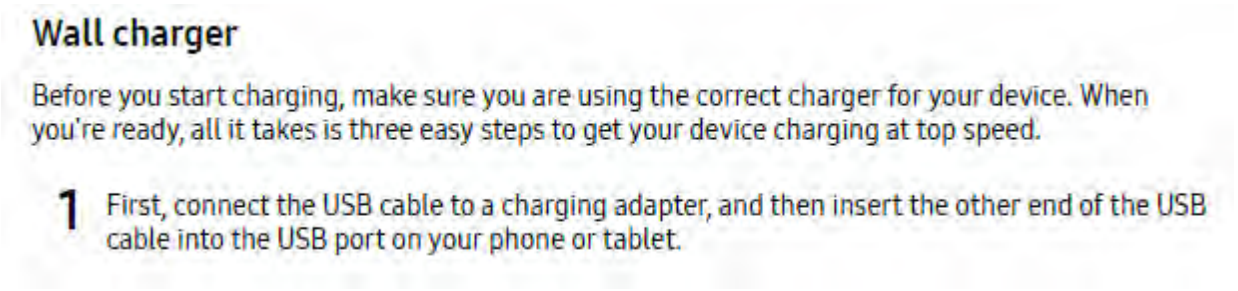
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Notably, this is the webpage where a user is redirected when the URL in the User Guide is entered into a web browser. Indeed, the entire purpose of the socket structure of the Samsung Galaxy Tab S9 FE Plus is to connect a USB cable to the Samsung Galaxy Tab S9 FE Plus which, among other things, permits a connection to the rechargeable battery for charging and thereby enables the use of the Galaxy Tab S9 FE Plus. *See also* Element [**48B**].
[**99E**] and wherein the socket structure is operative to simultaneously electrically connect via the first and second contacts.	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

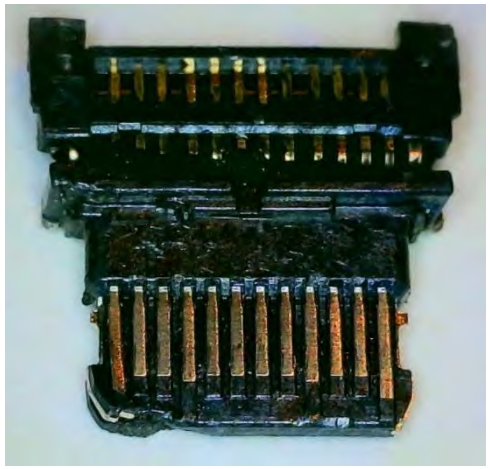
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	  The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

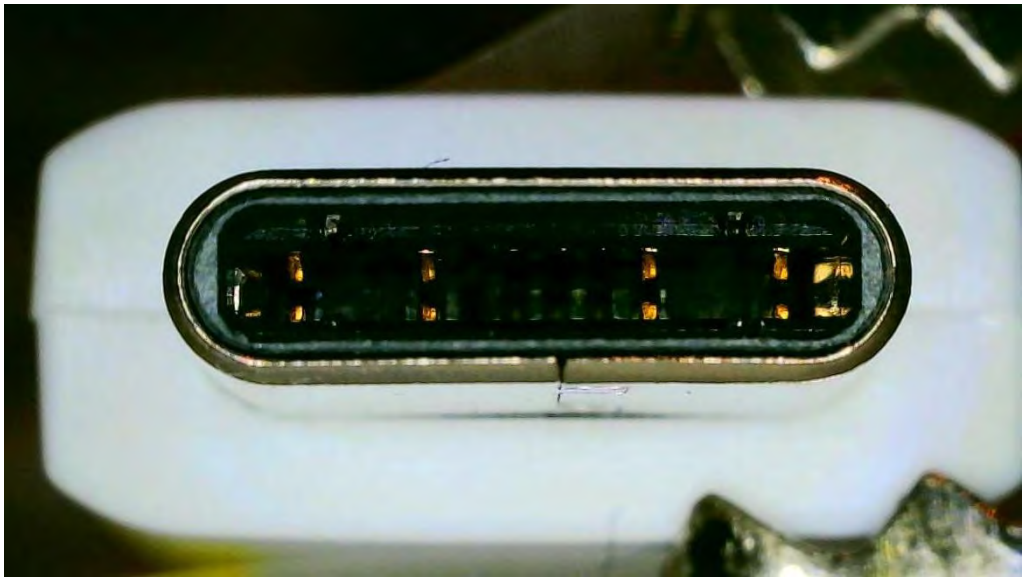
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

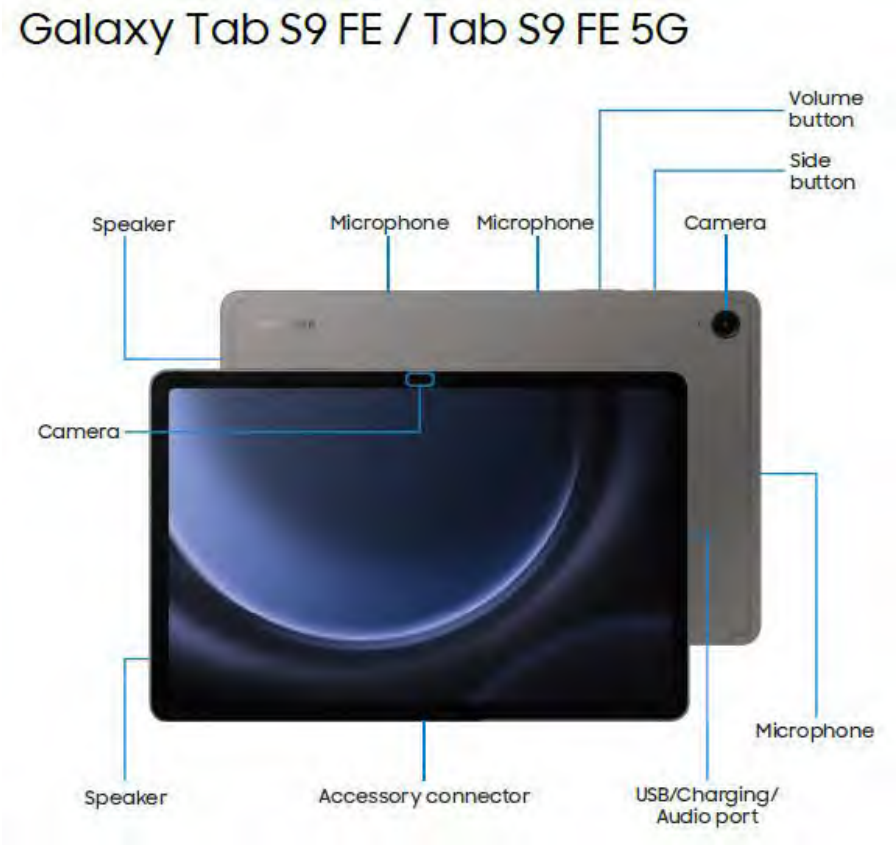
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement

2.4 VBUS

VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported.

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB.

12. All VBUS pins shall be connected together in the USB Type-C plug.

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12.

14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB).

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15.

See also Elements [**34I**], [**48B**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

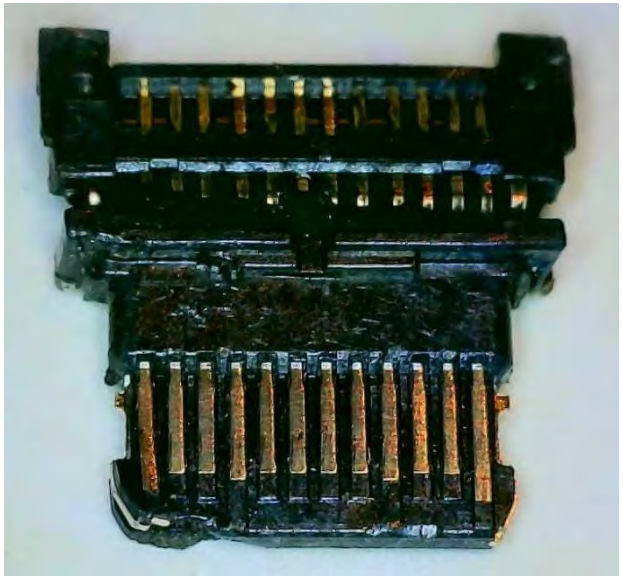
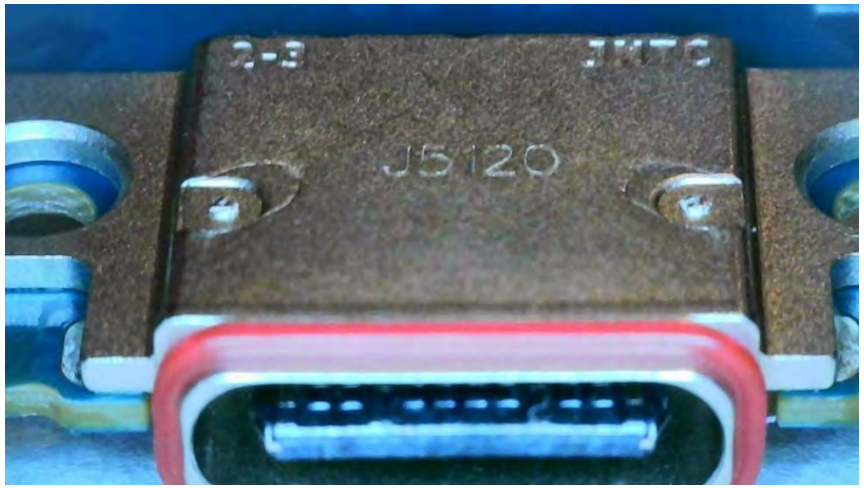
Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
[**100A**] The socket structure of claim 98,	This Accused Instrumentality includes a socket structure as described in claim 98 as described above in connection with elements [**98A**] through [**98N**].
[**100B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base are integrally formed.  *See also* Element [**41B**].
[**101A**] The socket structure of claim 100,	This Accused Instrumentality includes a socket structure as described in claim 100, as described above in connection with elements [**100A**] through [**100B**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
[**101B**] wherein the metal housing at least partially covers the plastic base.	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a metal housing that covers the plastic base at least in part.  (Image of socket structure of Samsung Galaxy Tab S9 FE Plus) *See also* Element [**39B**].
[**102A**] The socket structure of claim 101,	This Accused Instrumentality includes a socket structure as described in claim 101 as described above in connection with elements [**101A**] through [**101B**].
[**102B**] wherein at least two of the first contacts are not in	At least one of each of the first and second contacts of the Samsung Galaxy Tab S9 FE Plus are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung Galaxy Tab S9 FE Plus includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
electrical communication with one another and at least two of the second contacts are not in electrical communication with one another.	Table 3-4 USB Type-C Receptacle Interface Pin Assignments Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The Samsung Galaxy Tab S9 FE Plus would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	Furthermore, test results confirm that at least some of the contacts on each side are not in electrical communication with others of the contacts on the same side. *See also* Element [**44B**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
[**114A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Galaxy Tab S9 FE Plus is a tablet that includes a socket structure with duplex electrical connection. In particular, the Galaxy Tab S9 FE Plus provides duplex electrical connection via a USB port.  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	The USB port is a USB Type-C port. **USB** USB 2.0 **Earjack** USB Type-C *See* https://web.archive.org/web/20250311143051/https://www.samsung.com/us/tablets/galaxy-tab-s9-fe/buy/galaxy-tab-s9-fe-plus-128gb-gray-wi-fi-sm-x610nzaaxar/ (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Gal[illegible] tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C to USB-C cable.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

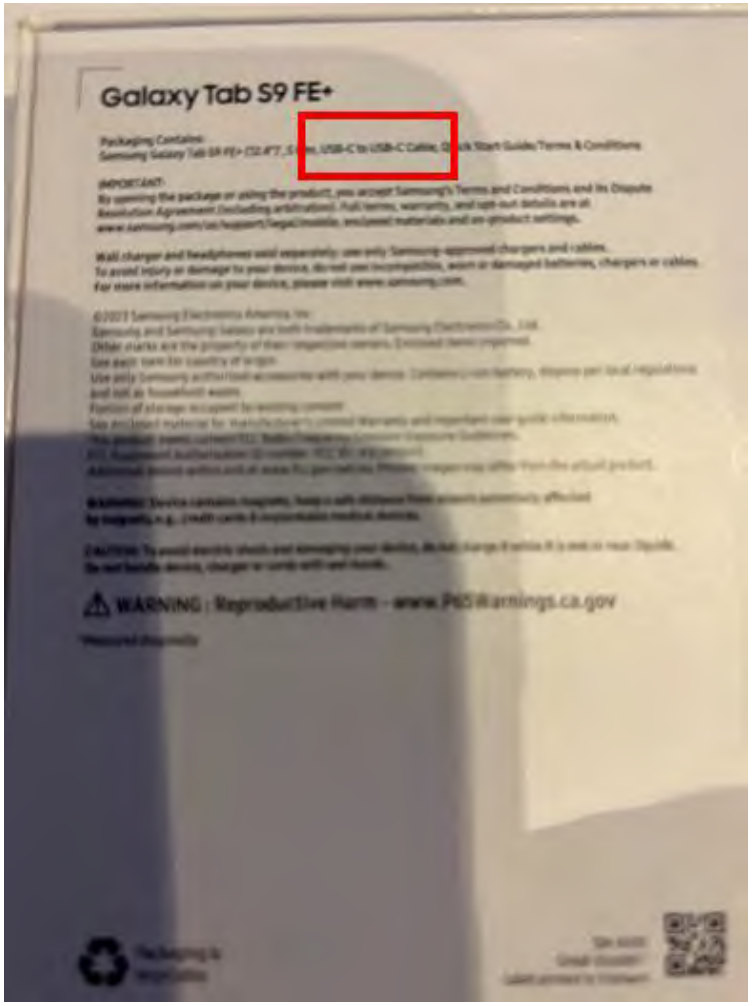
Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image of device packaging.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

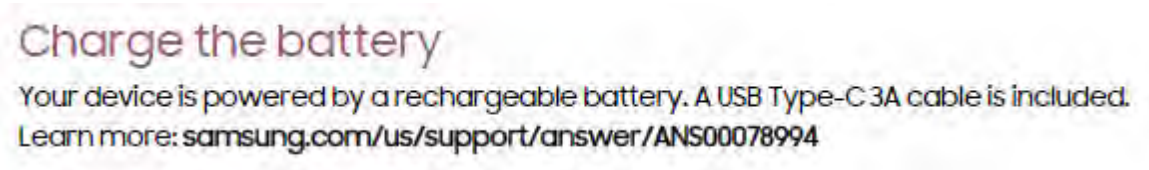
Claim 114 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).  (Image of USB-C cable included in packaging.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	See also Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**114B**] through [**114N**].
[**114B**] a plastic base;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a plastic base. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

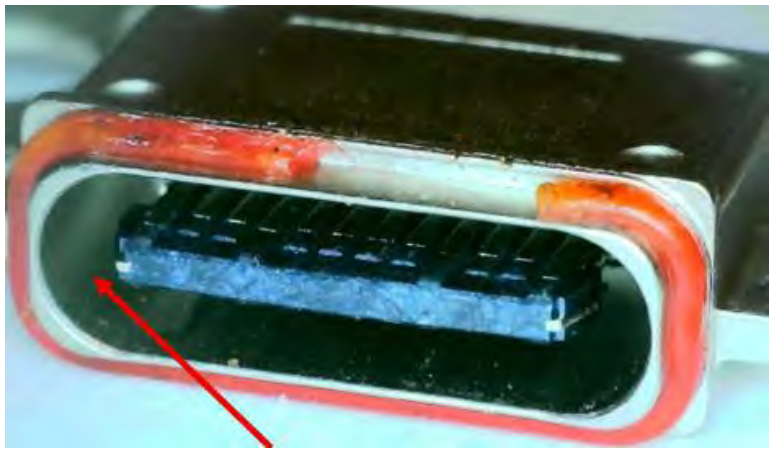
Claim 114 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34B**].
[**114C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

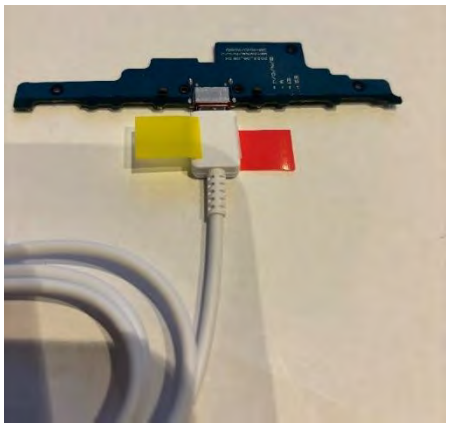
Claim 114 of the '307 Patent	Evidence of Infringement
connection terminals;	The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.  The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung Galaxy Tab S9 FE Plus, as described above in connection with element [**34A**]. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

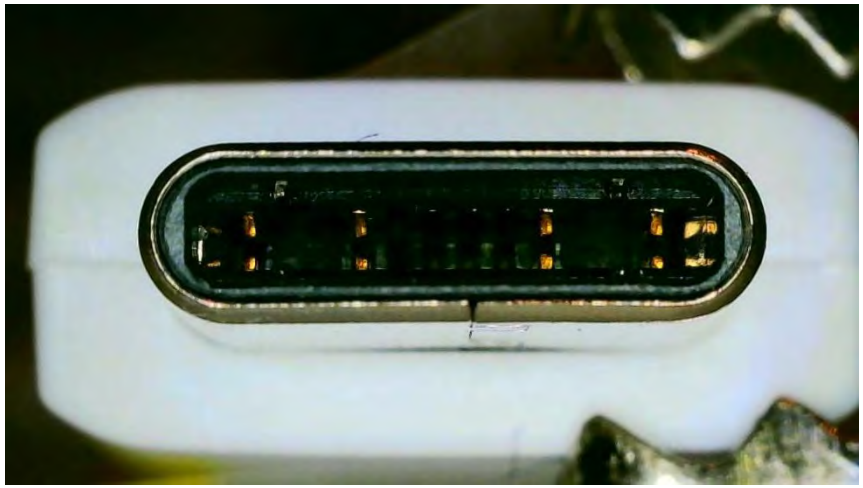
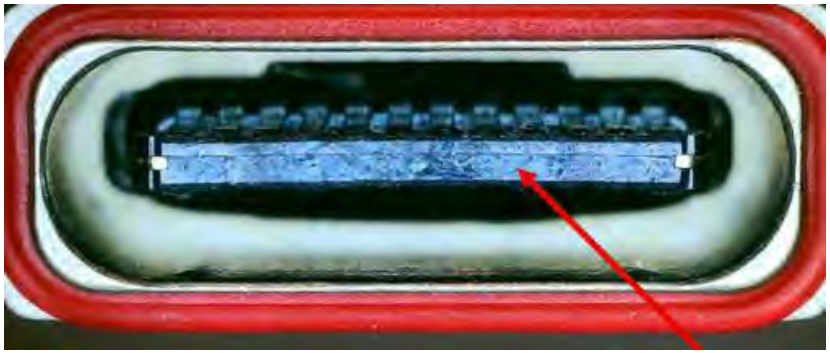
Claim 114 of the '307 Patent	Evidence of Infringement
	USB-C cables include a plug with at least one row of connection terminals.  (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**114D**] a tongue, which has a first surface and a second surface disposed opposite the first surface and	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

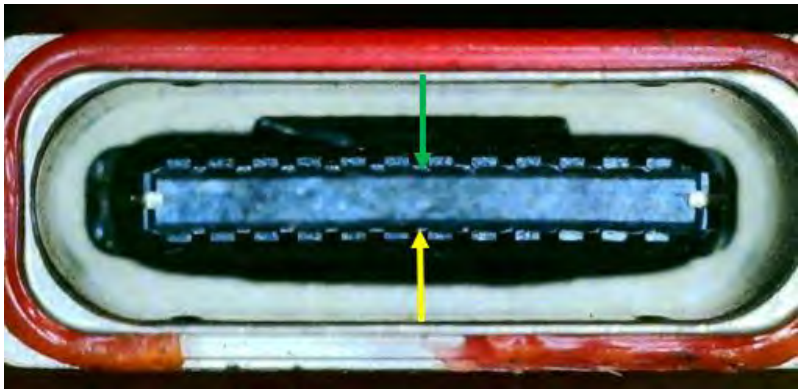
Claim 114 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

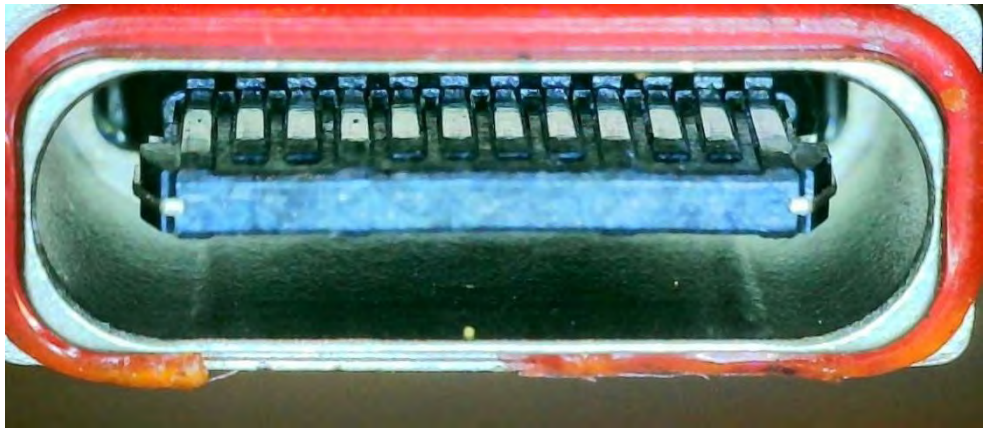
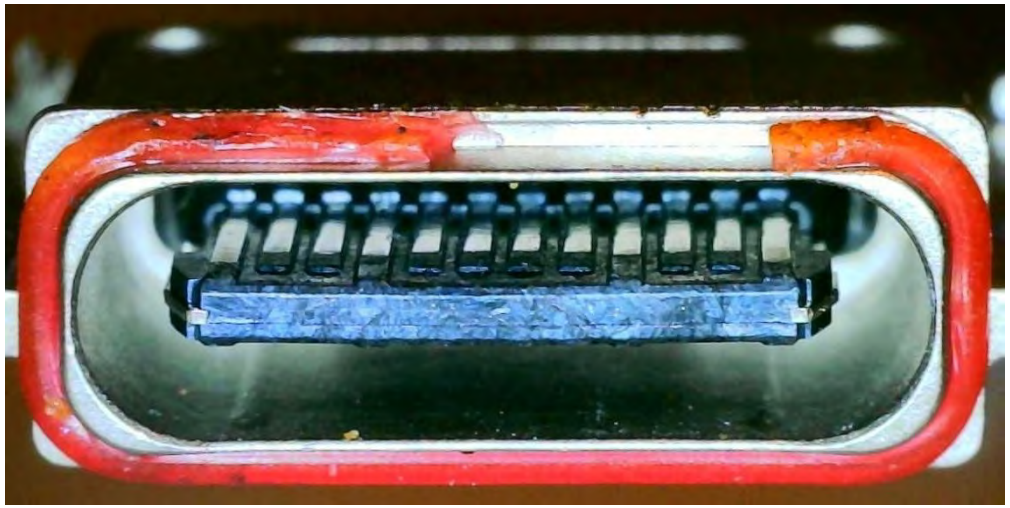
Claim 114 of the '307 Patent	Evidence of Infringement
	Each of the first and second surfaces has grooves.   *See also* Element [**34D**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

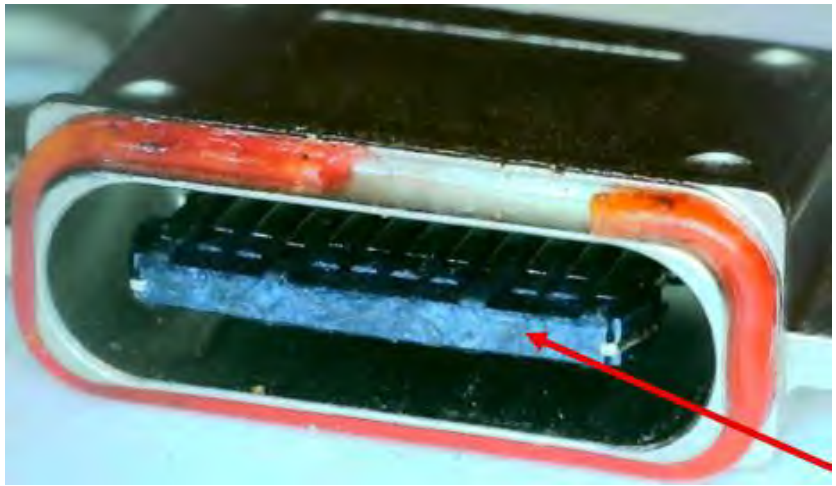
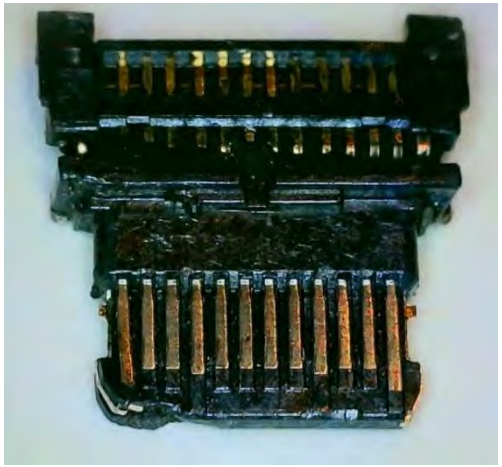
Claim 114 of the '307 Patent	Evidence of Infringement
[**114E**] is disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot based on an operational state when the socket	The tongue of the Samsung Galaxy Tab S9 FE Plus (indicated by the red arrow) is disposed within the connection slot.  The tongue is located on one end of the plastic base. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

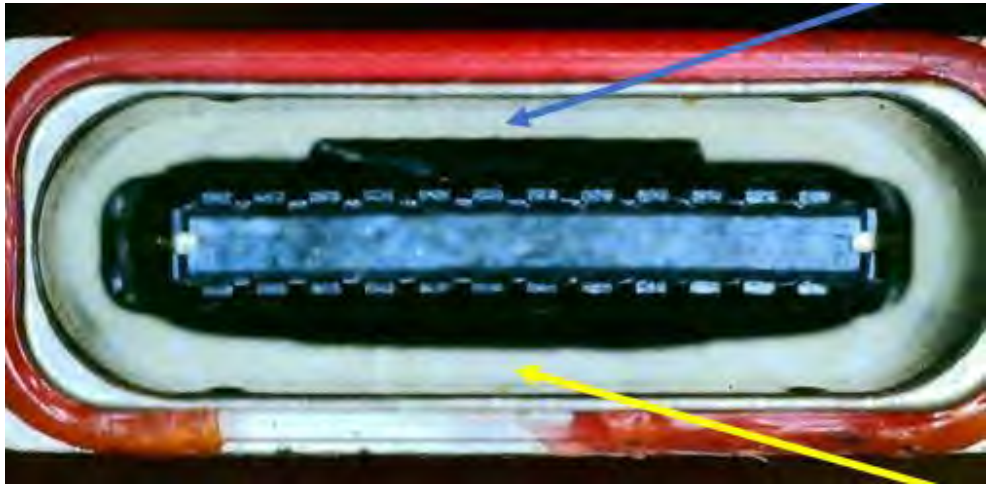
Claim 114 of the '307 Patent	Evidence of Infringement
structure is connected to the plug;	The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by the yellow arrow)  These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

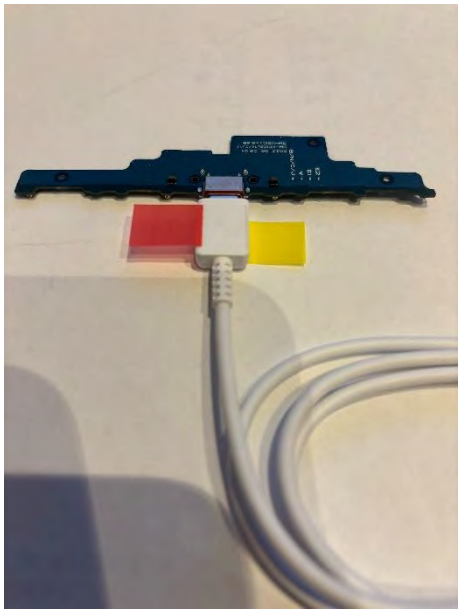
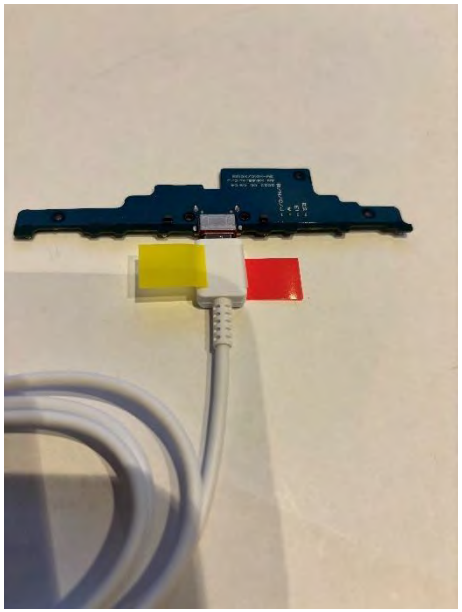
Claim 114 of the '307 Patent	Evidence of Infringement
	  The red and yellow flags are attached to the same side of the plug in both images, showing that the plug can be connected to the socket structure of the Samsung Galaxy Tab S9 FE Plus when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**114F**] at least one row of first contacts separately arranged on the first	The Samsung Galaxy Tab S9 FE Plus includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	  Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image above, the Samsung Galaxy Tab S9 FE Plus further includes two rows of twelve pins extending out of the plastic base.

Claim 114 of the '307 Patent	Evidence of Infringement

This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

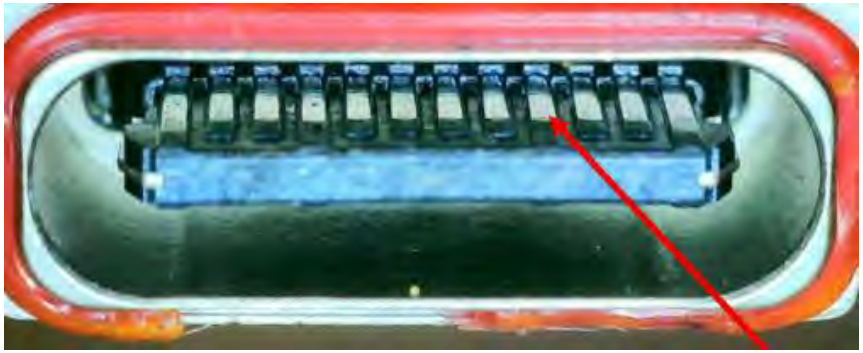
Claim 114 of the '307 Patent	Evidence of Infringement
	In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. *See also* Element [**34F**].
[**114G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung Galaxy Tab S9 FE Plus includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

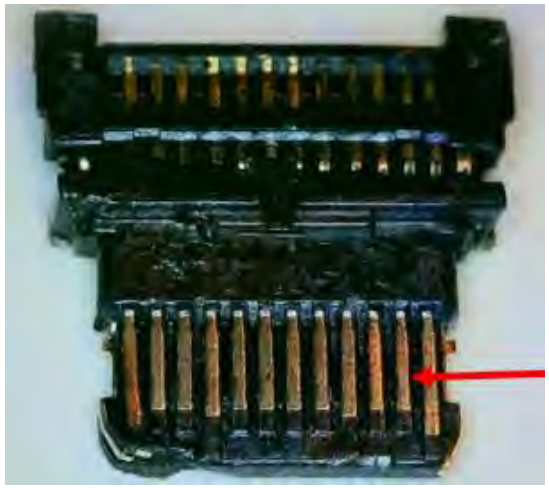
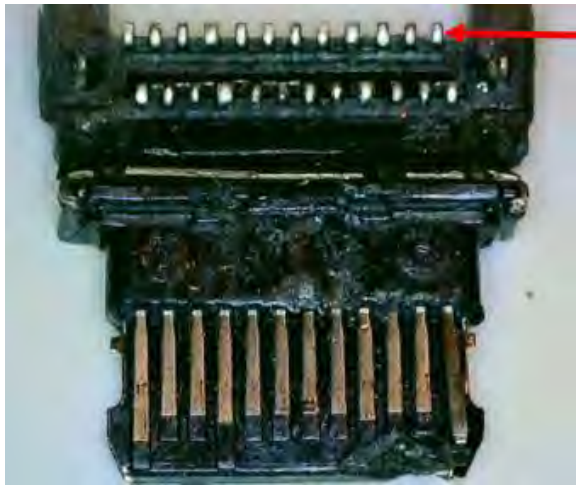
Claim 114 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34G**].
[**114H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung Galaxy Tab S9 FE Plus includes two rows of twelve pins extending out of the plastic base. On information and belief, the row identified by the arrow corresponds to the second pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

Claim 114 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

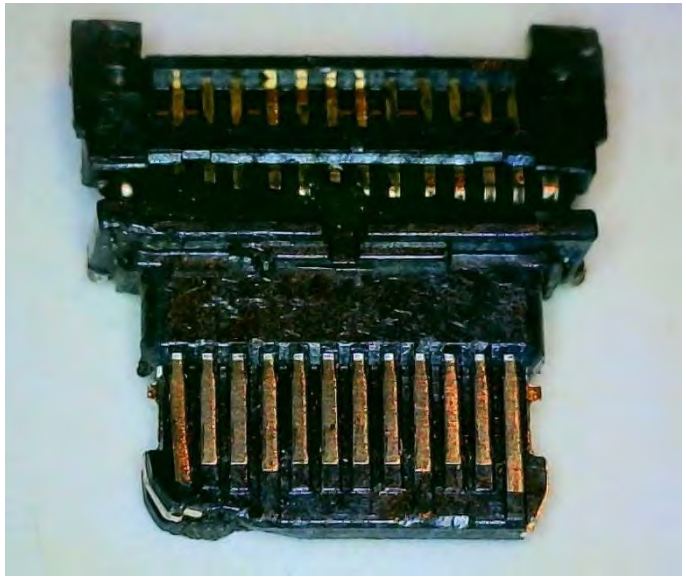
Claim 114 of the '307 Patent	Evidence of Infringement
	In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**114I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

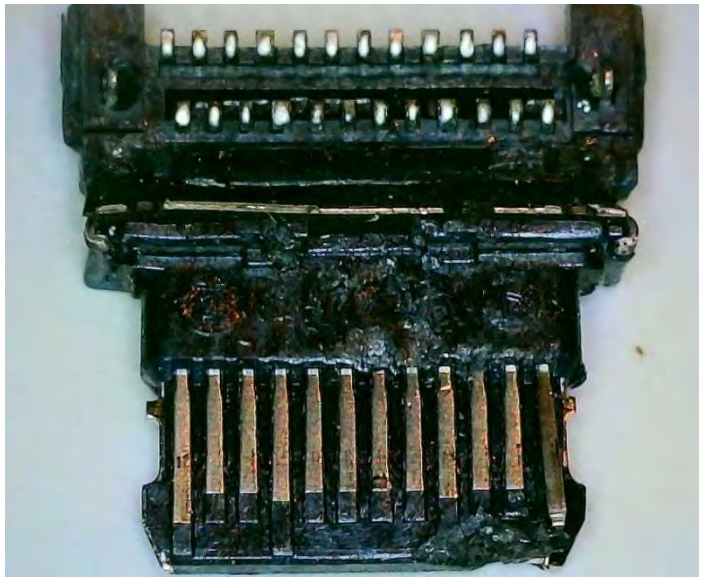
Claim 114 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

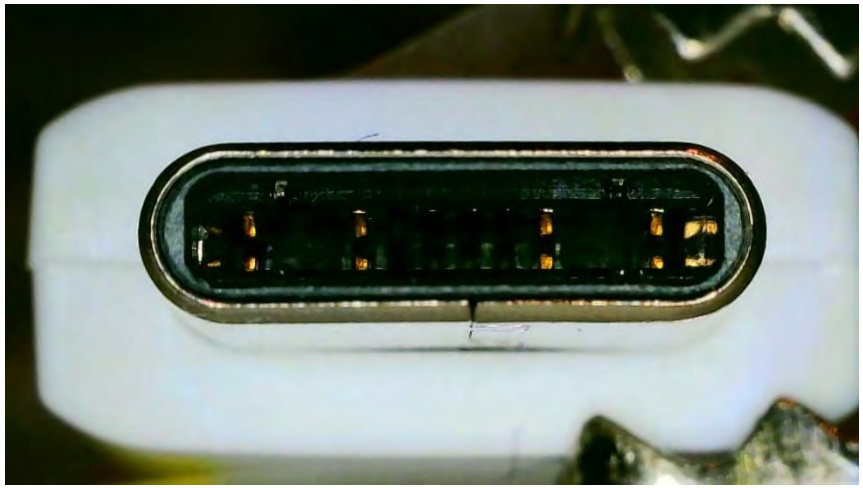
Claim 114 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

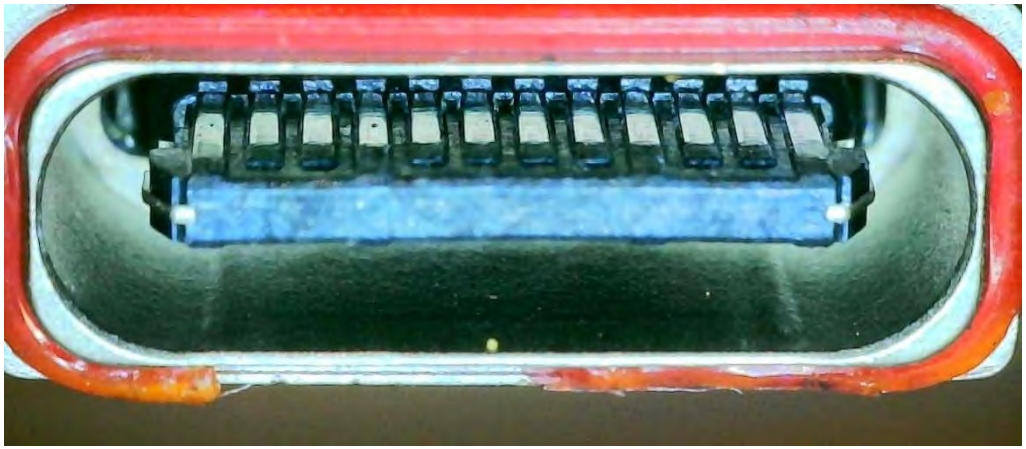
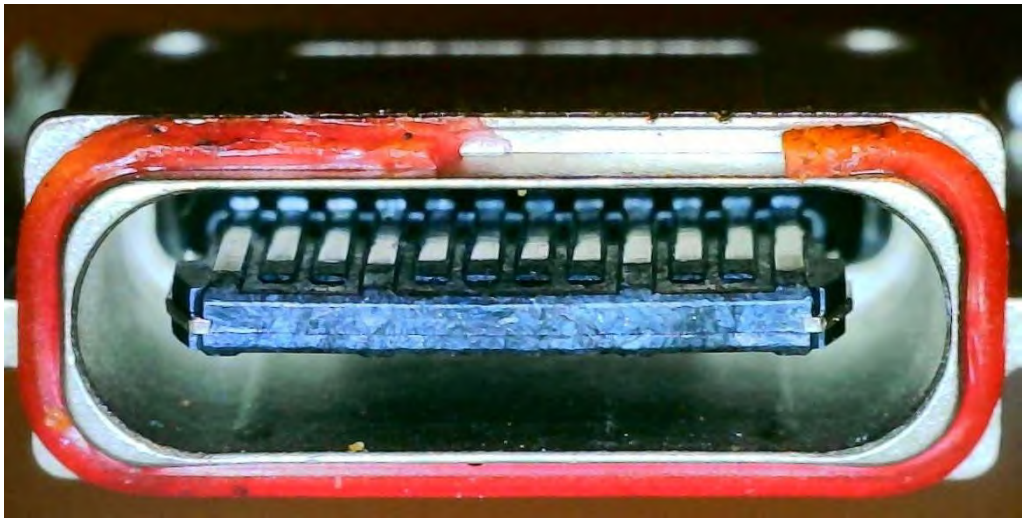
EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**114J**] the at least one row of first contacts has	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	 

Claim 114 of the '307 Patent	Evidence of Infringement
	In addition, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

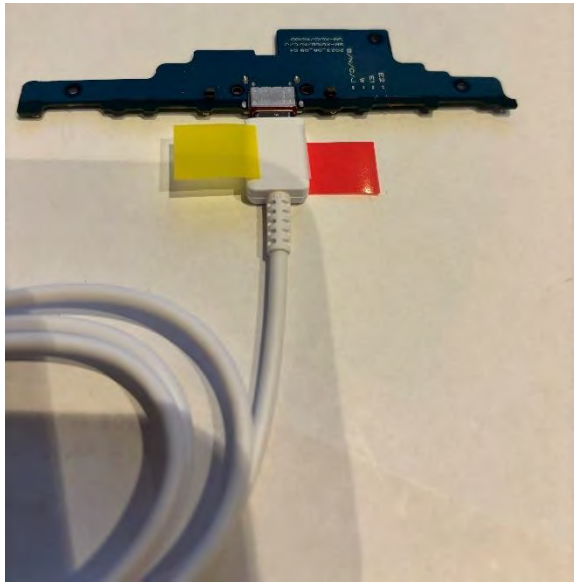
Claim 114 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**114K**] through [**114N**].
[**114K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the second surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

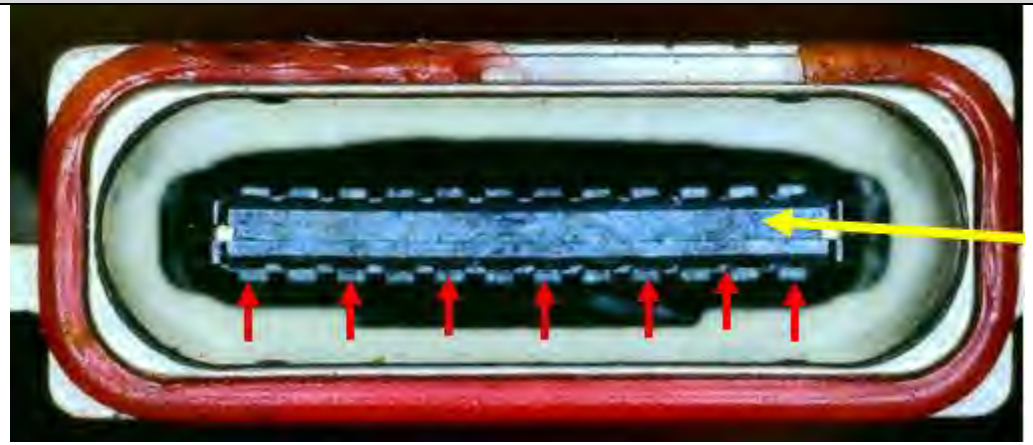
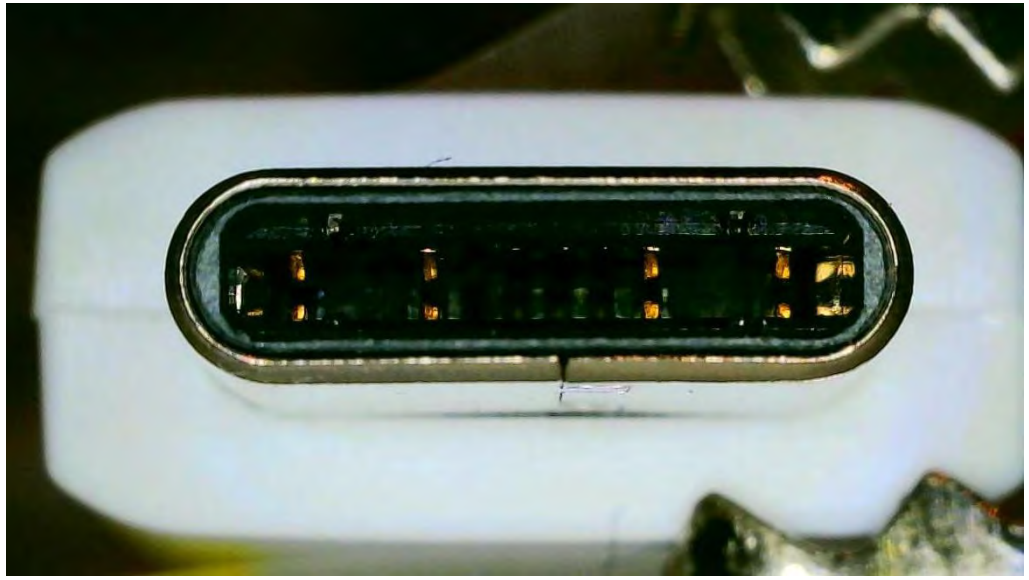
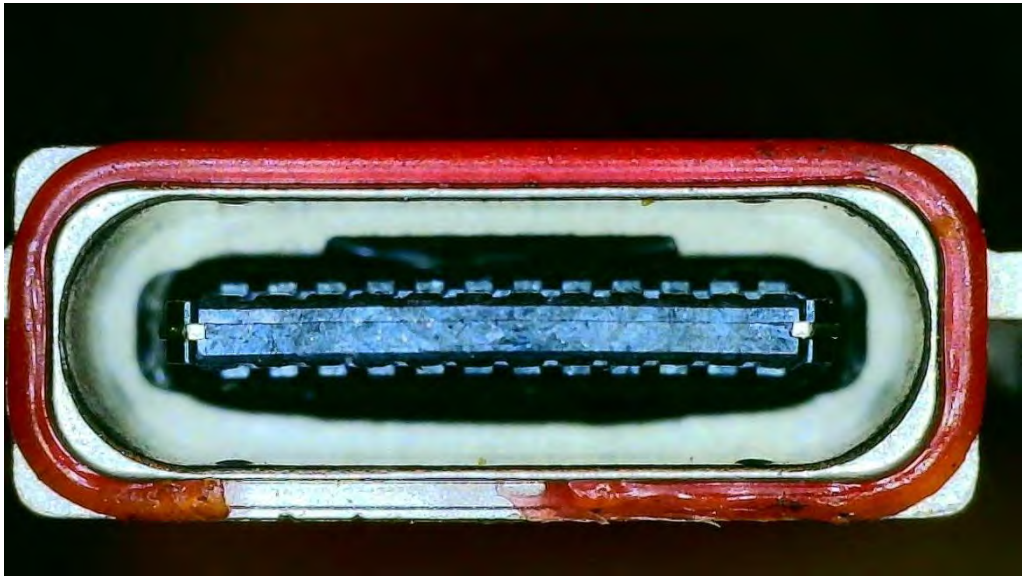
Claim 114 of the '307 Patent	Evidence of Infringement
the at least one row of second contacts and the tongue is centrally located within the connection slot,	 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	(Image of USB-C plug showing top and bottom rows of connection terminals.) The tongue is centrally located within the connection slot.  *See also* Element [**34K**]
[**114L**] wherein the connection slot is symmetric with up, down, left	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state as described above in connection with element [**114K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric right and left chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

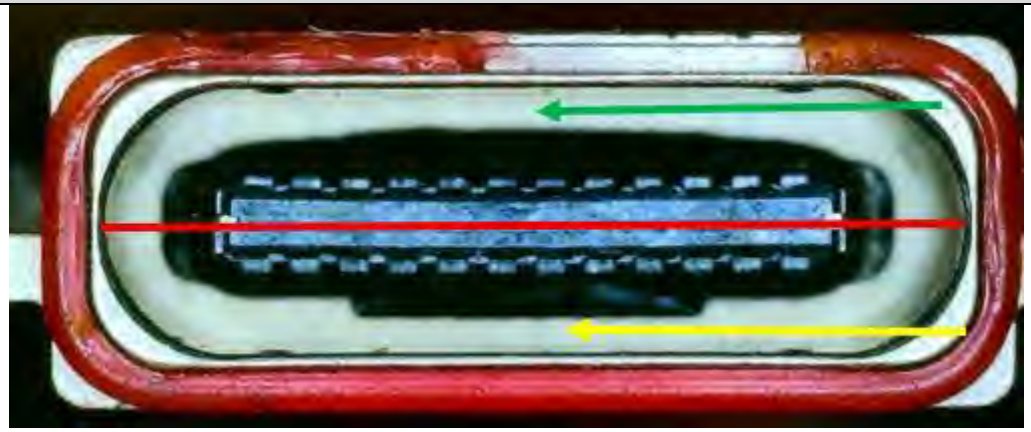
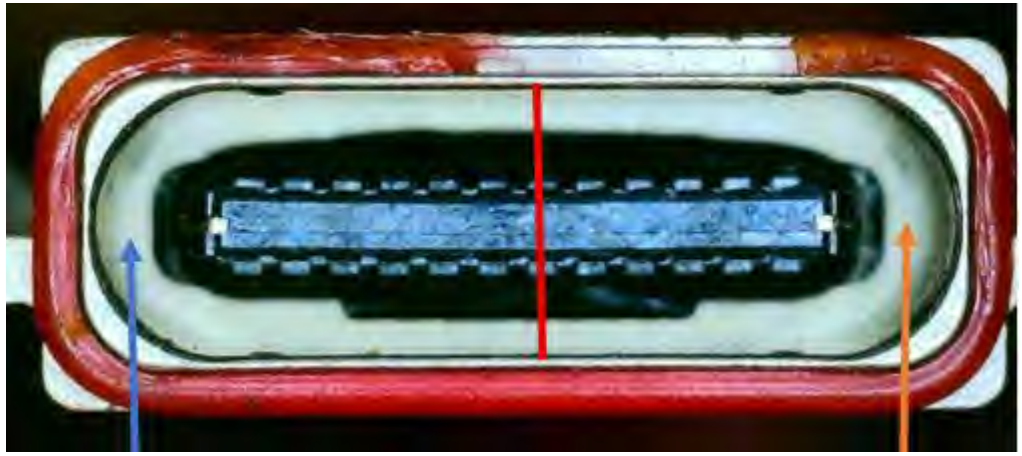
Claim 114 of the '307 Patent	Evidence of Infringement
and right chambers around the tongue; and	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below.  *See also* Element [**34L**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

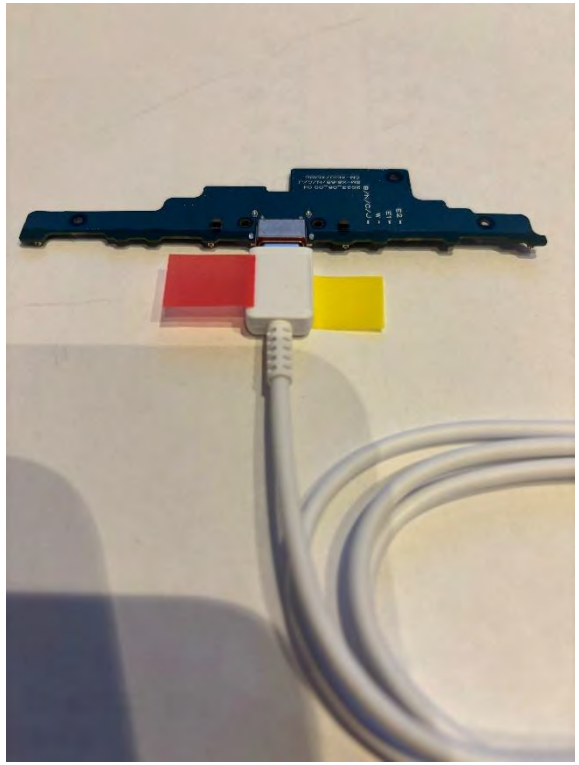
Claim 114 of the '307 Patent	Evidence of Infringement
[**114M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first	The Samsung Galaxy Tab S9 FE Plus is further configured for a second operational state when the USB-C plug is oppositely inserted into the communication slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the red flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

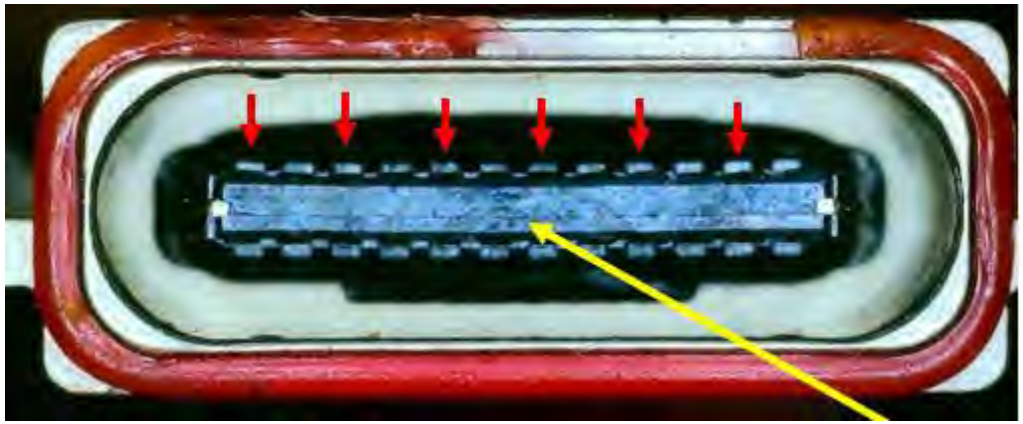
Claim 114 of the '307 Patent	Evidence of Infringement
contacts, and the tongue is centrally located within the connection slot,	red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.  The tongue is centrally located within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

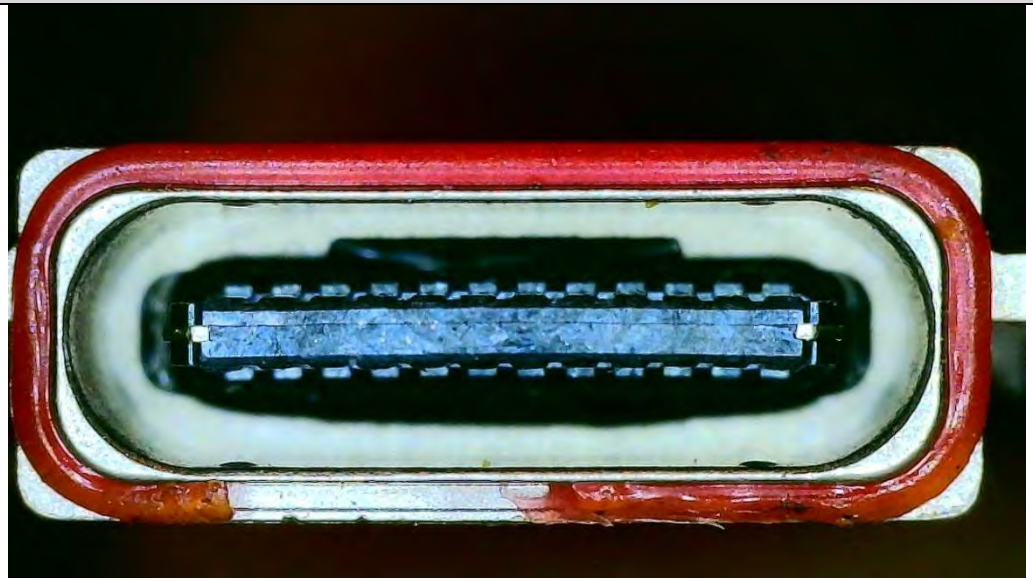
Claim 114 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].
[**114N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**114L**]. *See also* Element [**34N**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
left and right chambers around the tongue.	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
[**116A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Galaxy Tab S9 FE Plus is a tablet that includes a socket structure with duplex electrical connection. In particular, the Galaxy Tab S9 FE Plus provides duplex electrical connection via a USB port. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025) The USB port is a USB Type-C port. **USB** USB 2.0 **Earjack** USB Type-C https://web.archive.org/web/20250311143051/https://www.samsung.com/us/tablets/galaxy-tab-s9-fe/buy/galaxy-tab-s9-fe-plus-128gb-gray-wi-fi-sm-x610nzaaxar/ (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement

Devices that use USB Type C

- **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6
- **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra
- **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G
- **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71
- **Galaxy XCover phones:** Galaxy XCover6 Pro
- **Gal~~axy S tablets~~:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+
- **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022)

See https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C to USB-C cable.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

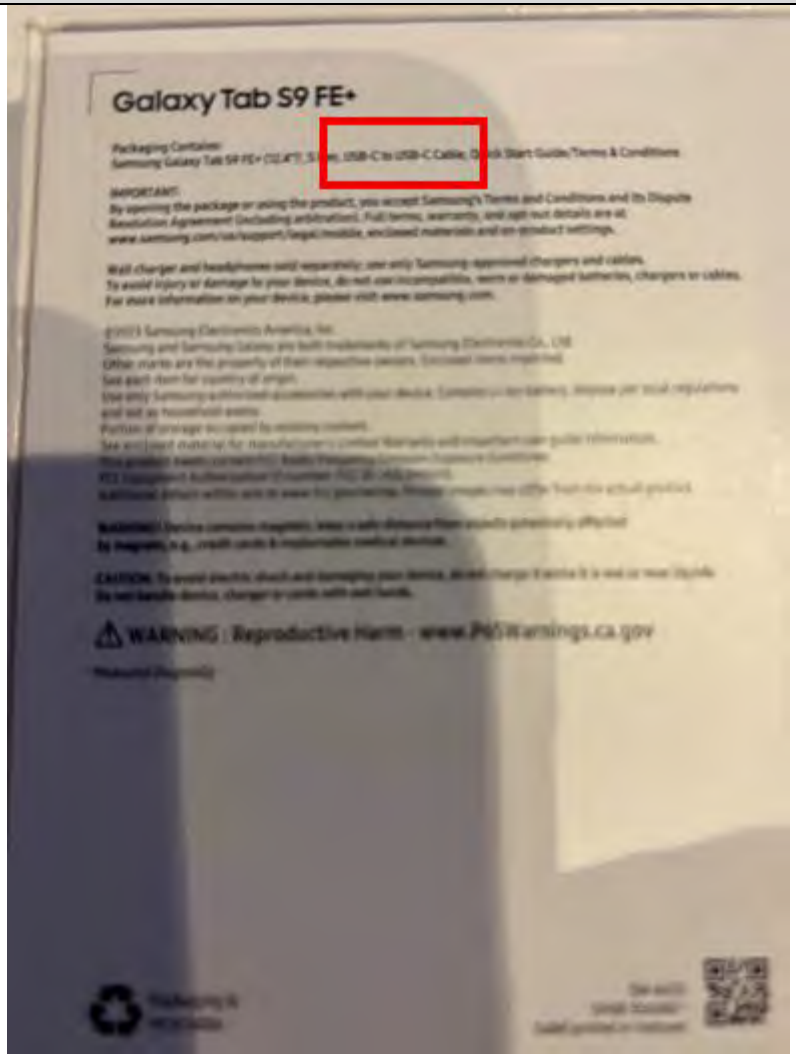
Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

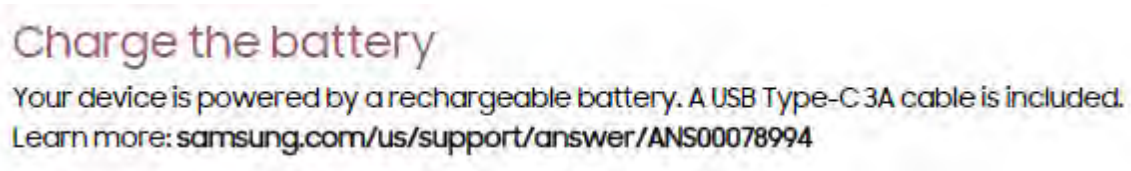
Claim 116 of the '307 Patent	Evidence of Infringement
	(Image of device packaging.)  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable included in packaging.) *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**116B**] through [**116P**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
[**116B**] a plastic base;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a plastic base.  

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

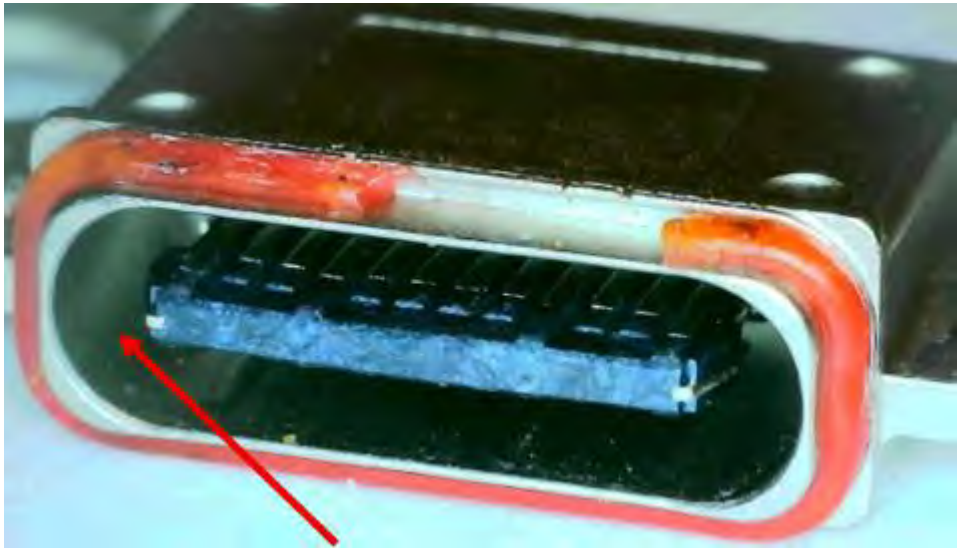
Claim 116 of the '307 Patent	Evidence of Infringement
	(Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34B**].
[**116C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a connection slot.  The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung Galaxy Tab S9 FE Plus, as described above in connection with element [**34A**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

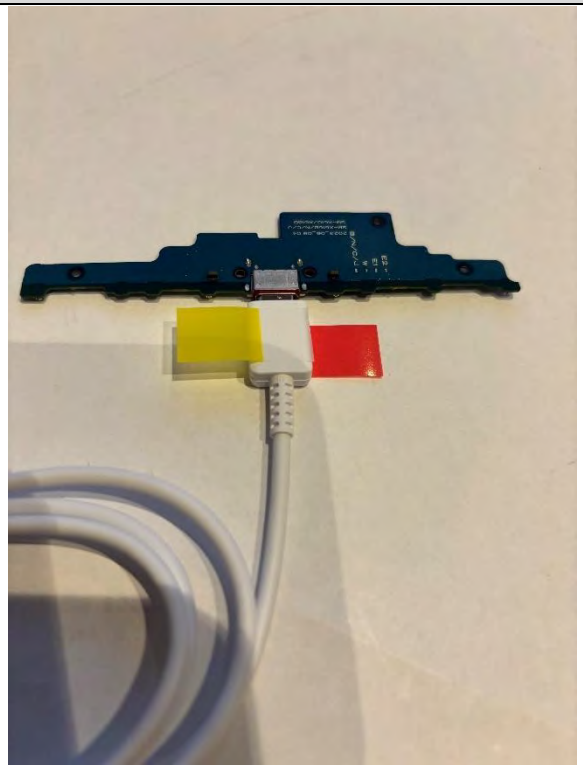
Claim 116 of the '307 Patent	Evidence of Infringement
	 USB-C cables include a plug with at least one row of connection terminals.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

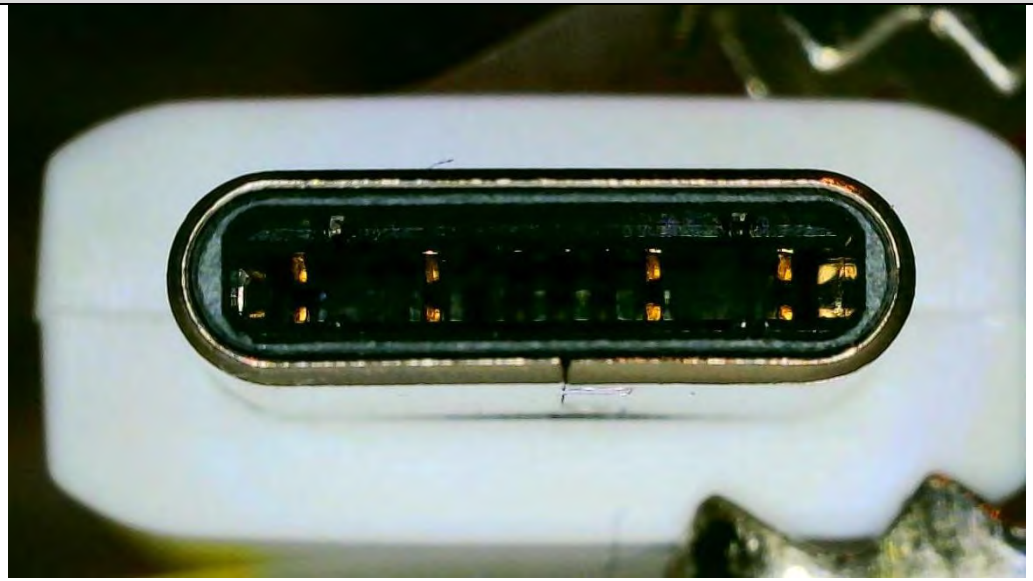
Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**]
[**116D**] a tongue, which has a first surface and a second surface disposed opposite the	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

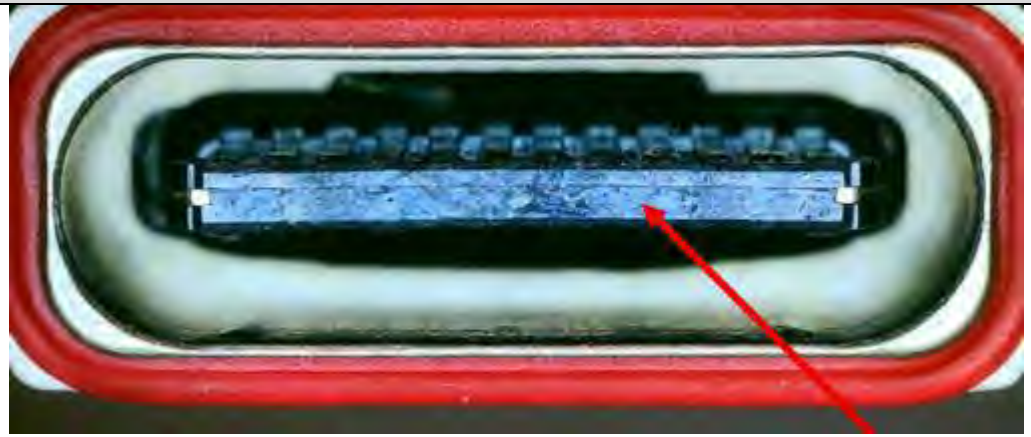
Claim 116 of the '307 Patent	Evidence of Infringement
first surface and	  The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

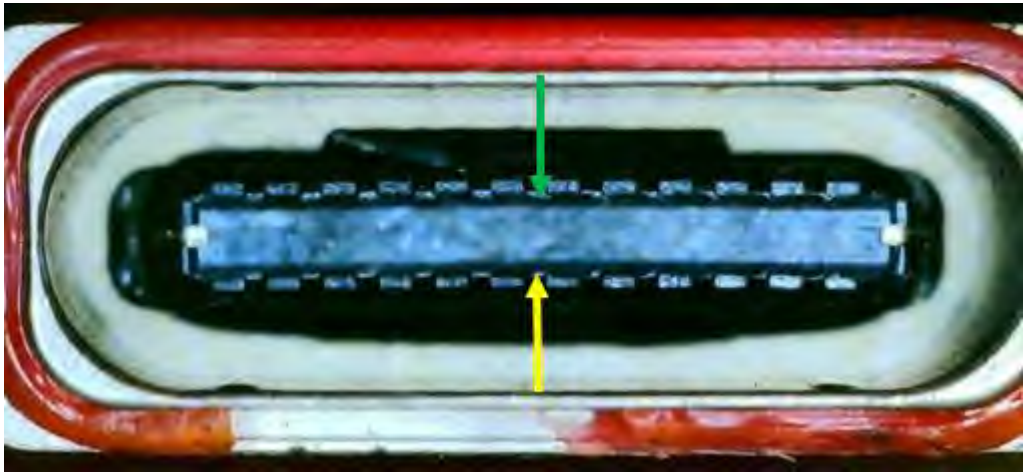
Claim 116 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

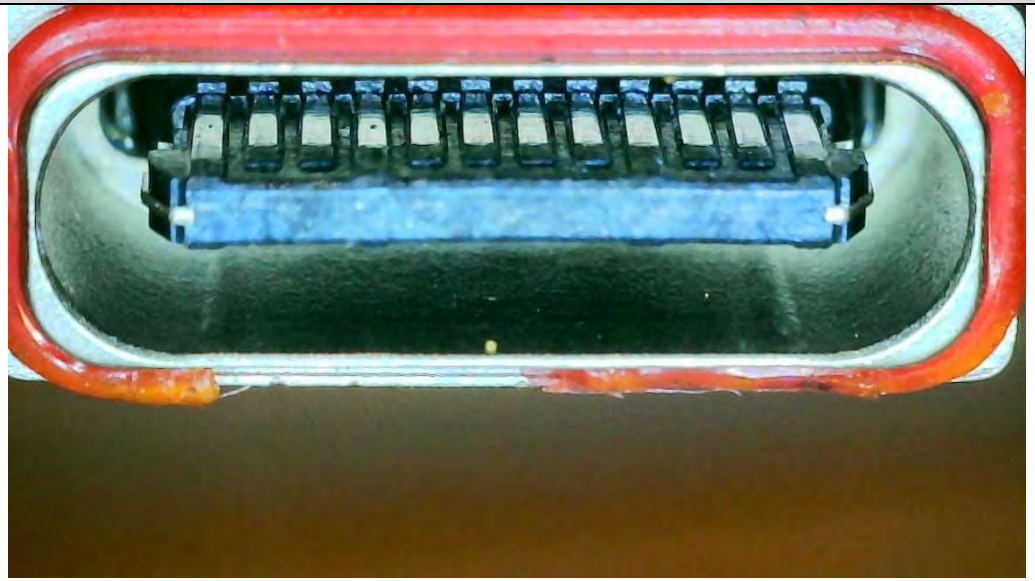
Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

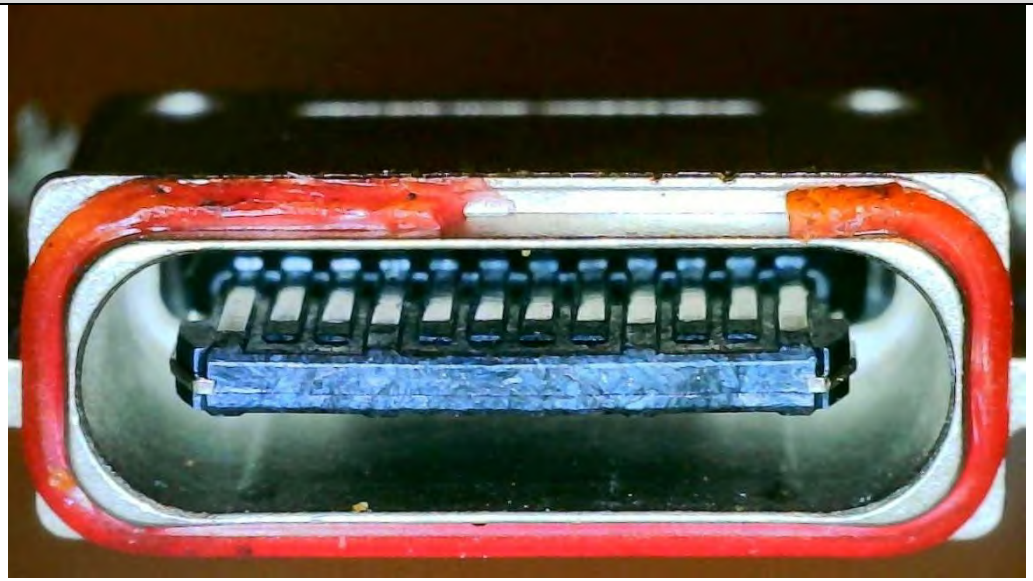
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**]
[**116E**] is disposed on one end of the plastic base and within the connection slot, such that chambers of the	The tongue of the Samsung Galaxy Tab S9 FE Plus (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

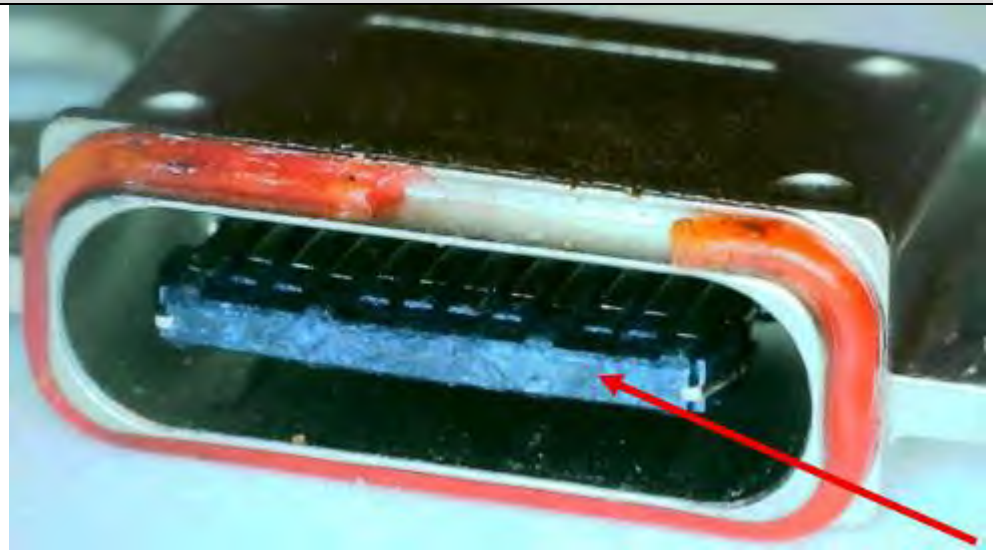
Claim 116 of the '307 Patent	Evidence of Infringement
connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot based on an operational state when the socket structure is connected to the plug;	 The tongue is located on one end of the plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

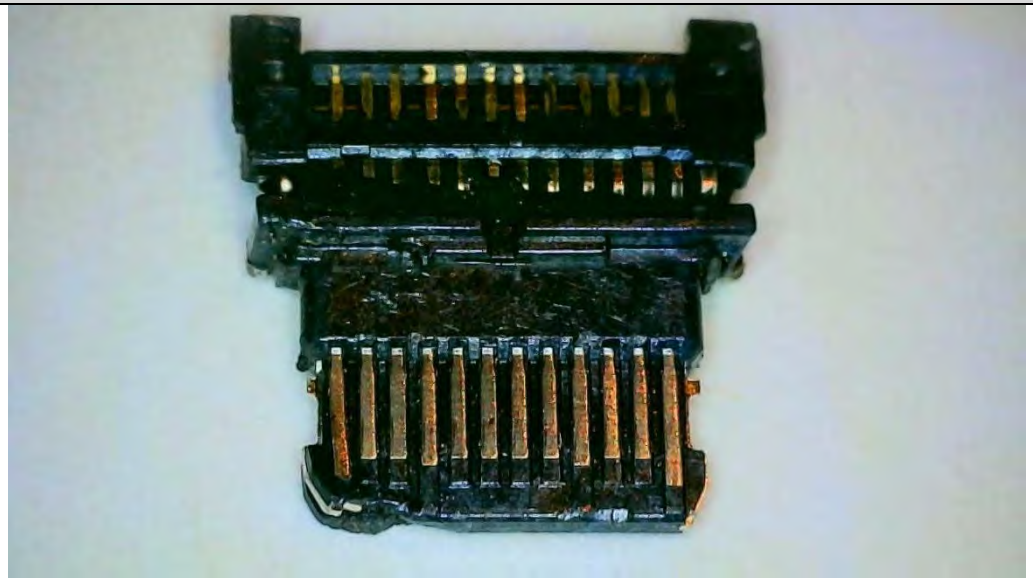
Claim 116 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by the yellow arrow)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

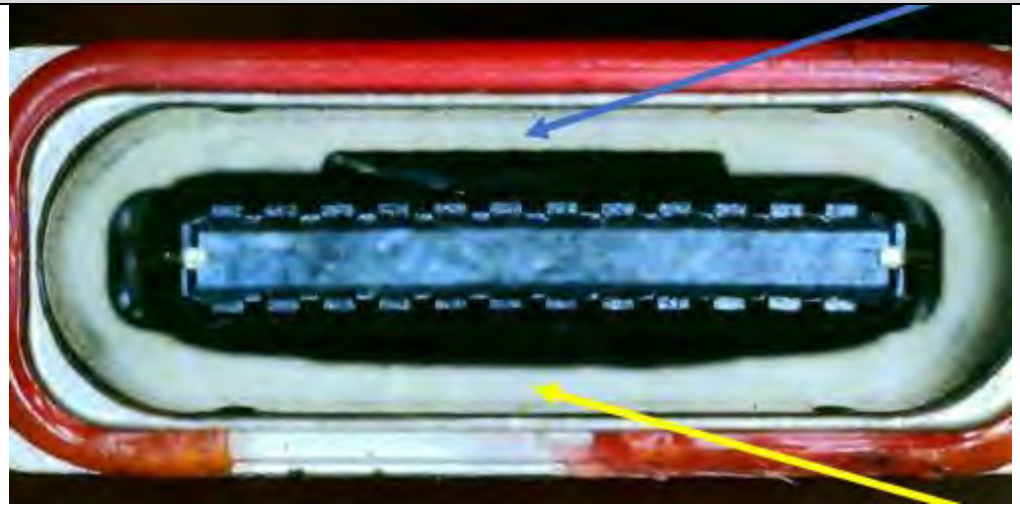
Claim 116 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

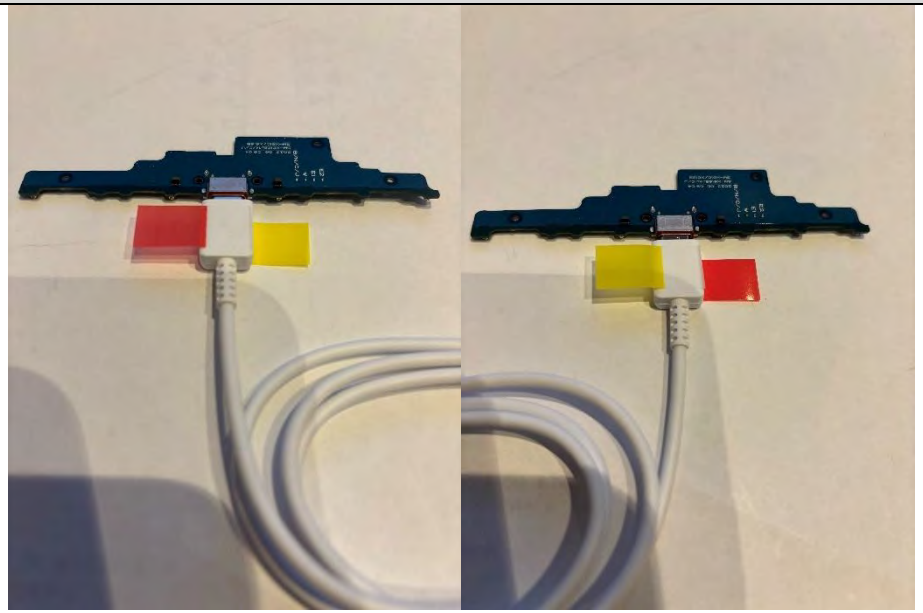
Claim 116 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags are attached to the same side of the plug in both images, showing that the plug can be connected to the socket structure of the Samsung Galaxy Tab S9 FE Plus when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**116F**] at least one row of first contacts separately arranged on the first	The Samsung Galaxy Tab S9 FE Plus includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

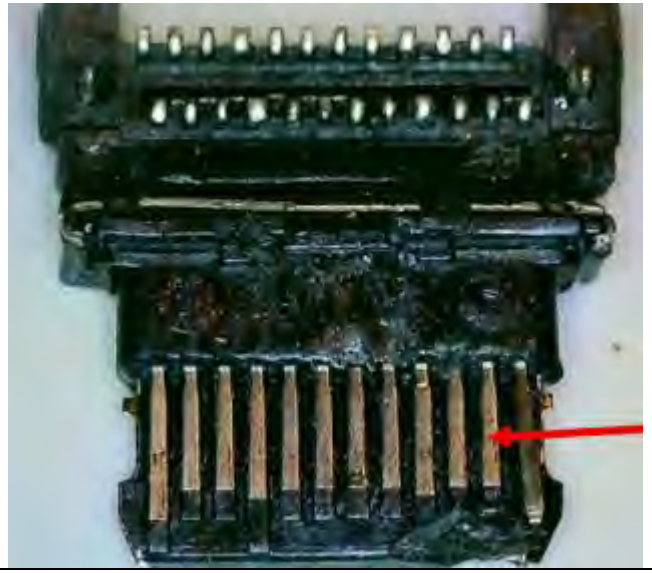
Claim 116 of the '307 Patent	Evidence of Infringement
surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base,	 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image above, the Samsung Galaxy Tab S9 FE Plus further includes two rows of twelve pins extending out of the plastic base. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

Claim 116 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

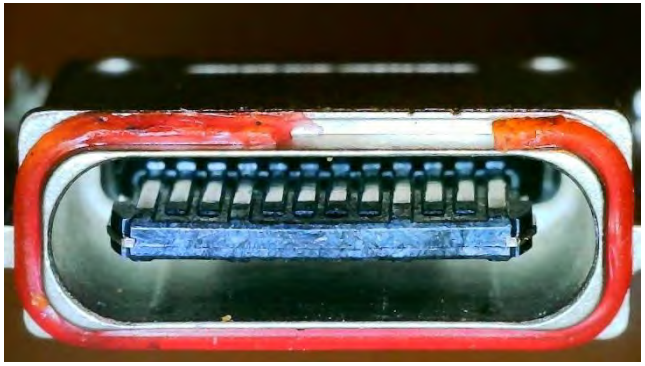
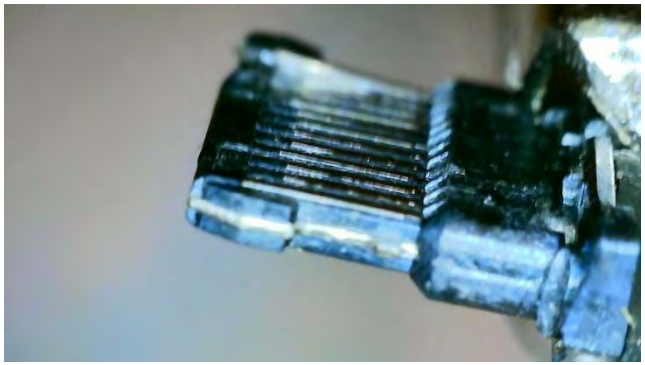
Claim 116 of the '307 Patent	Evidence of Infringement
	In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. *See also* Element [**34F**].
[**116G**] wherein a first portion of each of the first contacts is proud of a top-most surface of the tongue; and	A first portion of each of the first contacts of the Samsung Galaxy Tab S9 FE Plus is proud of a top-most surface of the tongue.  

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

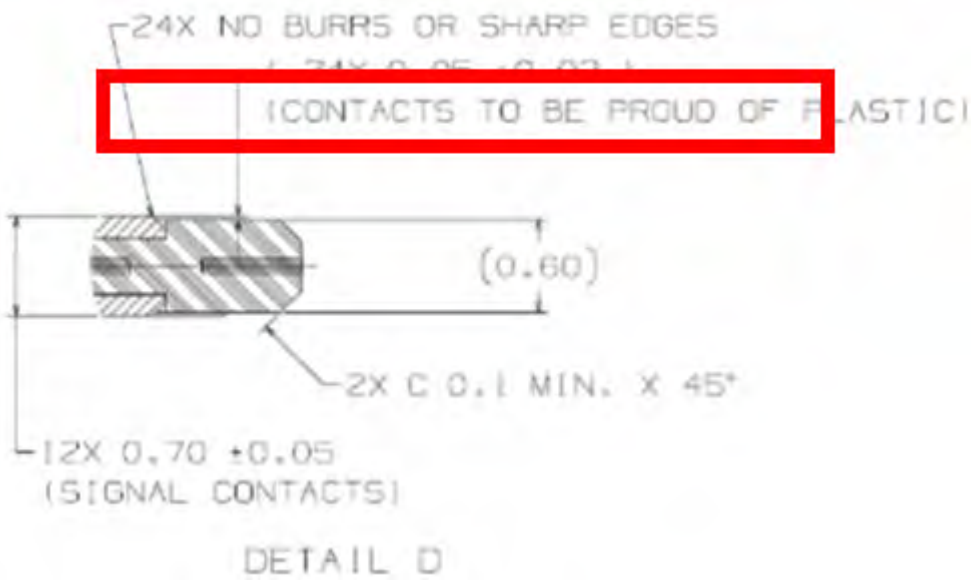
Claim 116 of the '307 Patent	Evidence of Infringement
	In addition, the Samsung Galaxy Tab S9 FE Plus includes a USB-C port and is compatible with the included USB-C cable, as further described above in connection with element [**34A**]. The USB-C standard indicates that the contacts should be proud of plastic.  Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1.
[**116H**] at least one row of second contacts separately	The Samsung Galaxy Tab S9 FE Plus includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

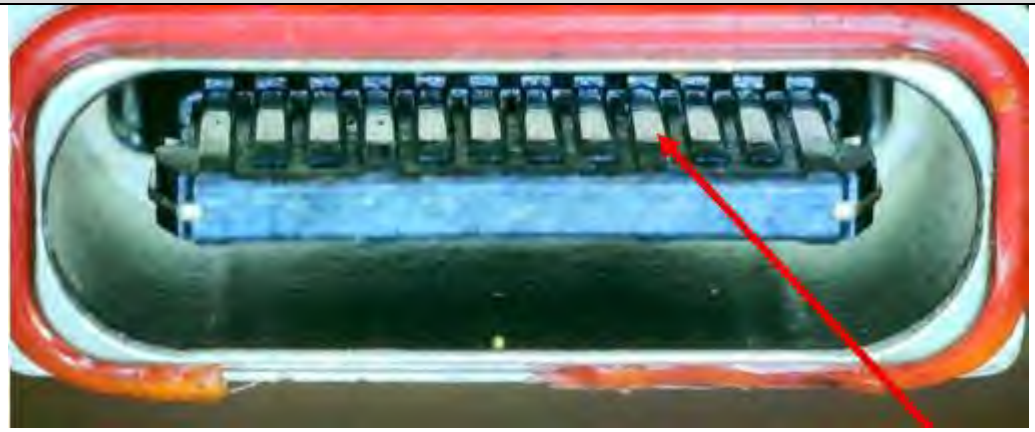
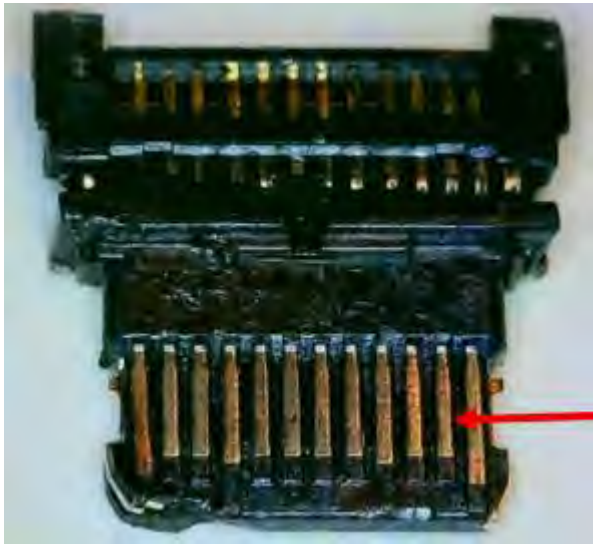
Claim 116 of the '307 Patent	Evidence of Infringement
arranged on the second surface of the tongue,	  (Images of socket structure of Galaxy Tab S9 FE Plus.)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

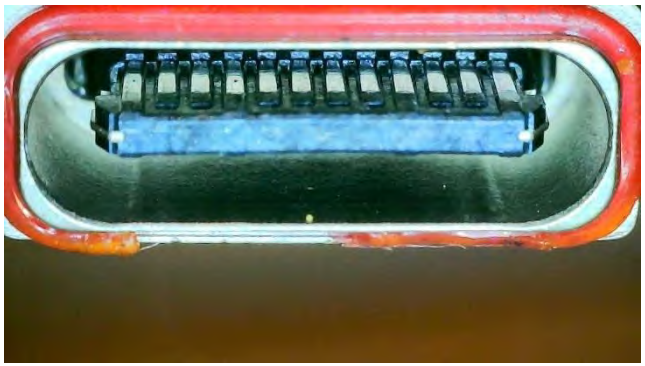
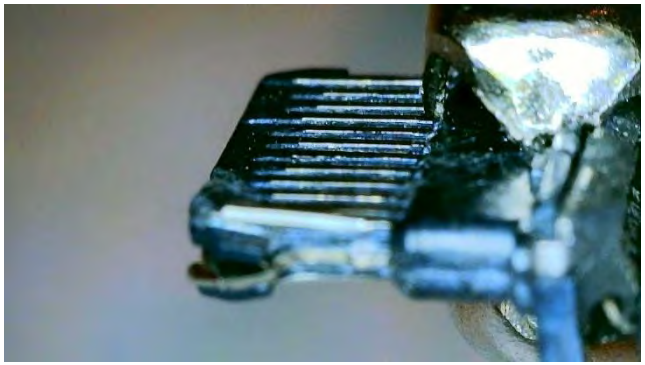
Claim 116 of the '307 Patent	Evidence of Infringement
	See also Element [**34G**].
[**116I**] wherein a second portion of each of the second contacts is proud of a bottom-most surface of the tongue, and	A second portion of each of the second contacts of the Samsung Galaxy Tab S9 FE Plus is proud of a bottom-most surface of the tongue.  

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

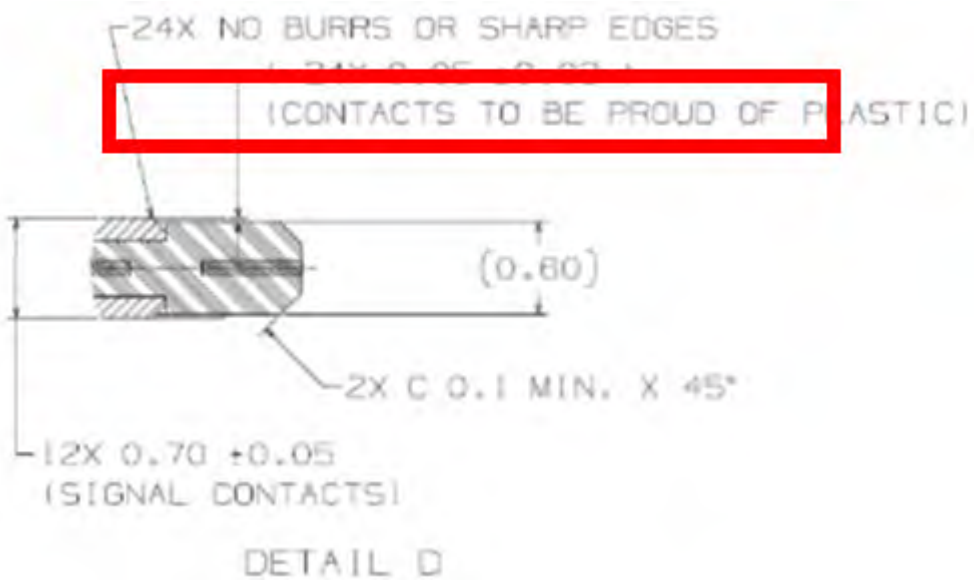
Claim 116 of the '307 Patent	Evidence of Infringement
	In addition, the Samsung Galaxy Tab S9 FE Plus includes a USB-C port and is comparable with the included USB-C cable, as further described above in connection with element [**34A**]. The USB-C standard indicates that the contacts should be proud of plastic.  Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1. *See also* Elements [**52B**], [**116G**].
[**116J**] the socket structure is operative to simultaneou	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

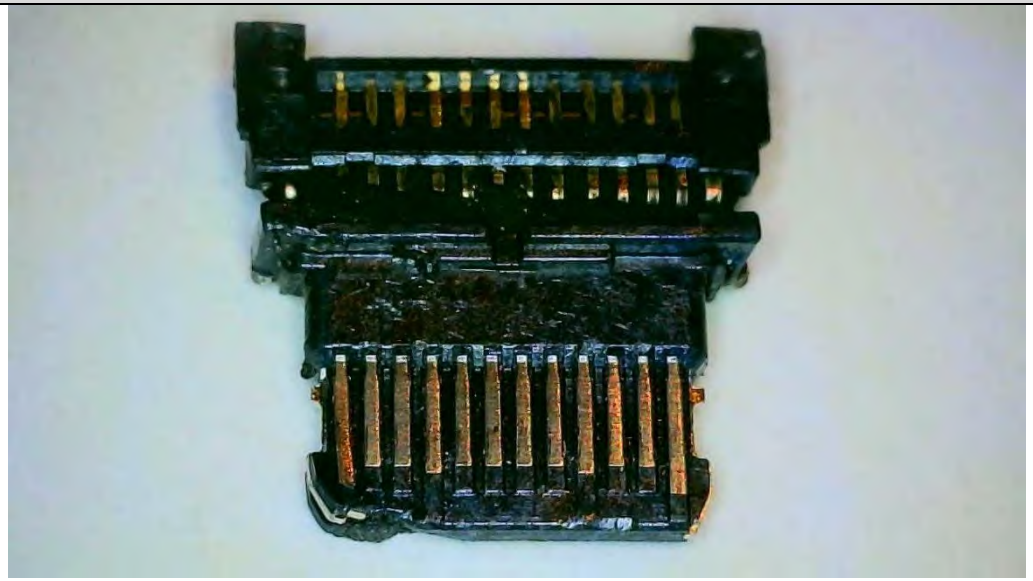
Claim 116 of the '307 Patent	Evidence of Infringement
sly electrically connect on both sides of the tongue via the first and second contacts, wherein:	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

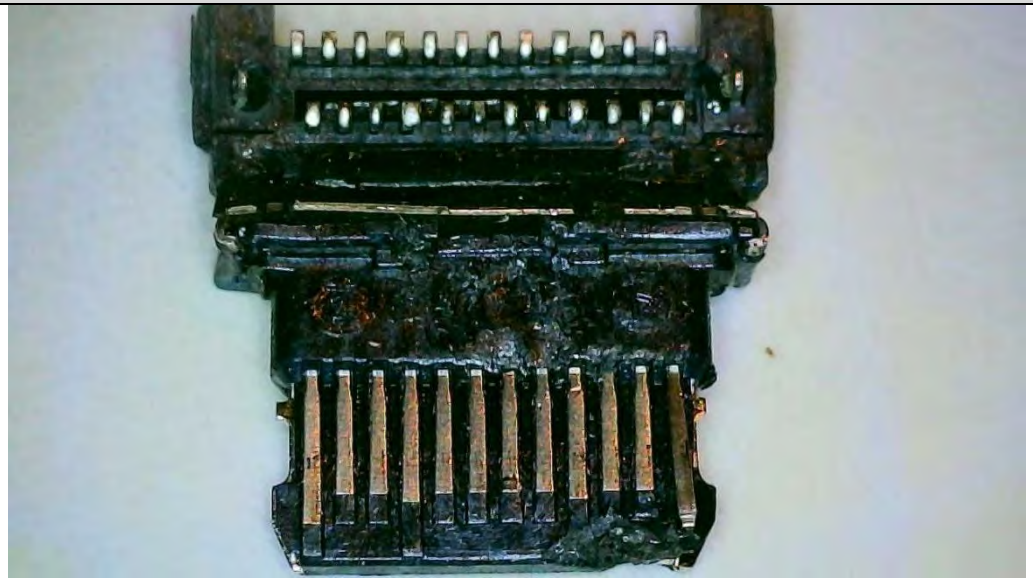
Claim 116 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

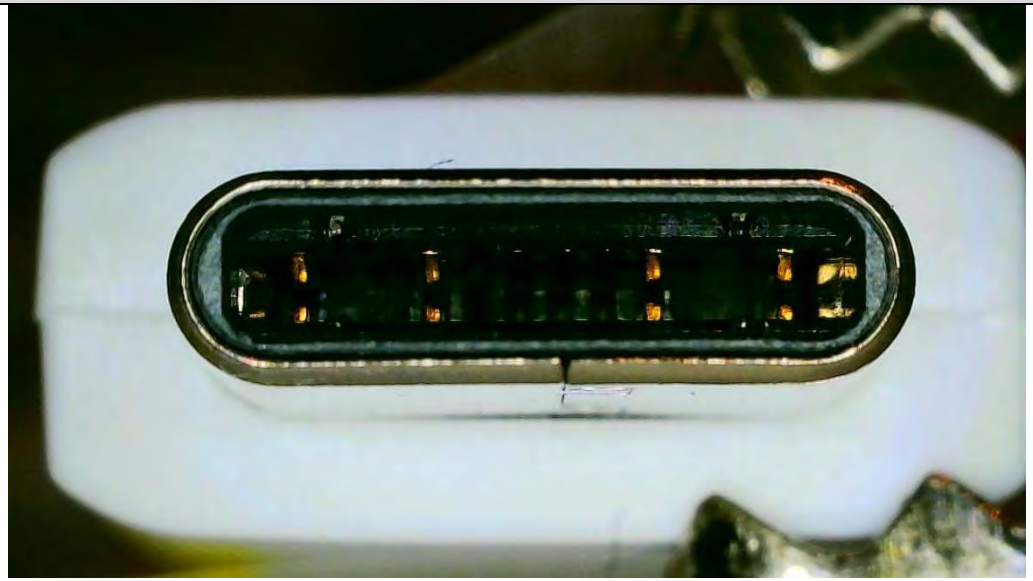
Claim 116 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

Claim 116 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**116K**] each of the second	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

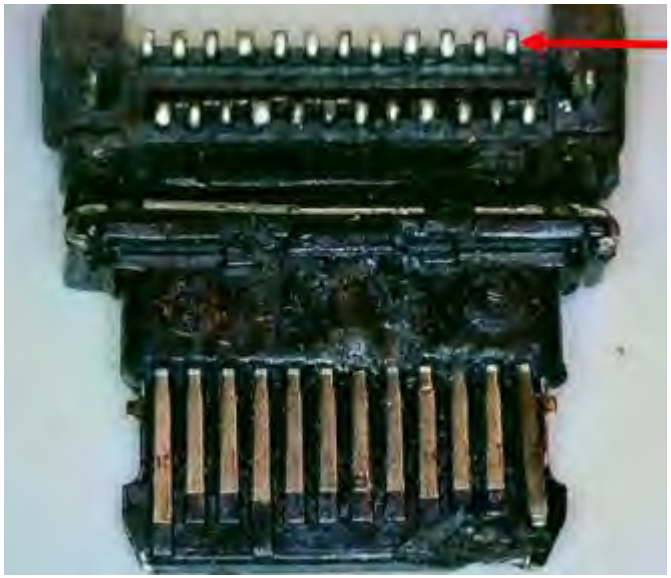
Claim 116 of the '307 Patent	Evidence of Infringement
contacts is electrically connected to a respective second pin extending out of the plastic base; and	Galaxy Tab S9 FE Plus includes two rows of twelve pins extending out of the plastic base. On information and belief, the row identified by the arrow corresponds to the second pins.  This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

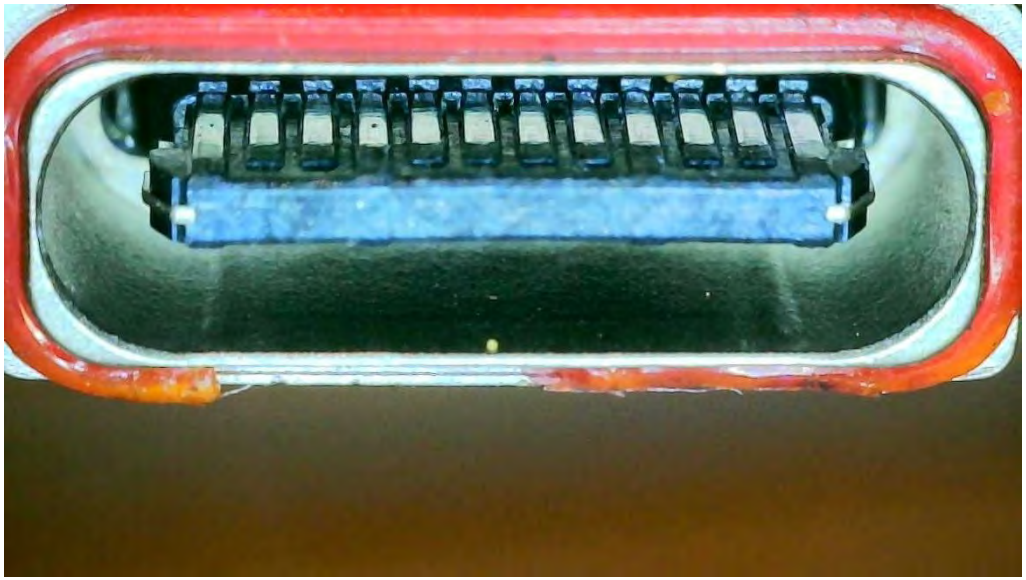
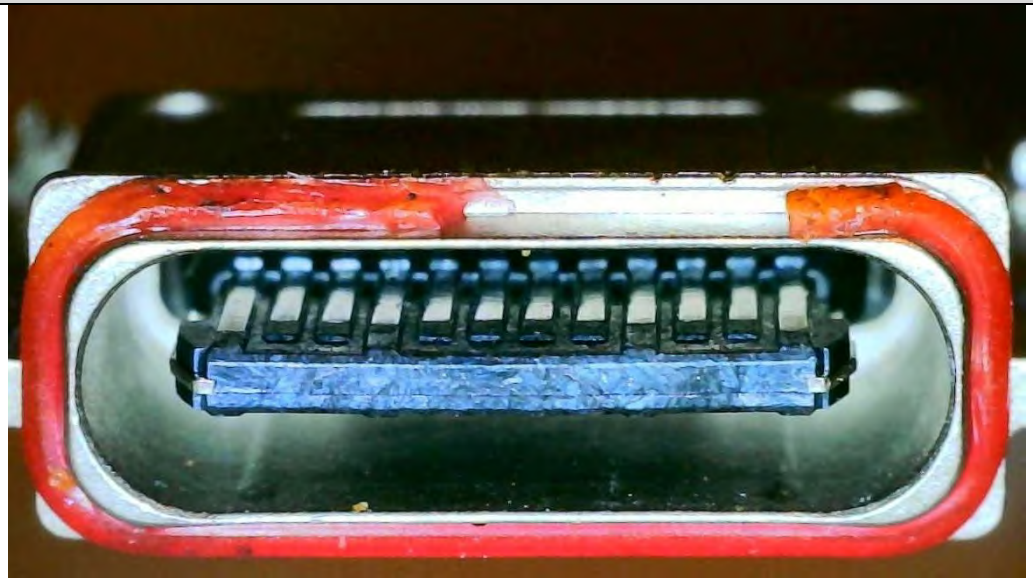
Claim 116 of the '307 Patent	Evidence of Infringement
	In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**116L**] the socket structure is thereby configured for two separate operational states:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image). 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Claim 116 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**]

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

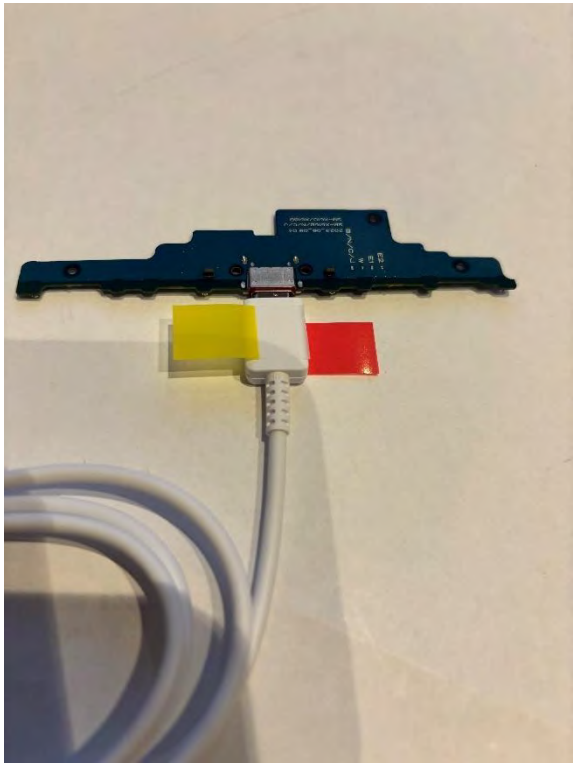
Claim 116 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**116M**] through [**116P**].
[**116M**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state when a USB-C plug is normally inserted into the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

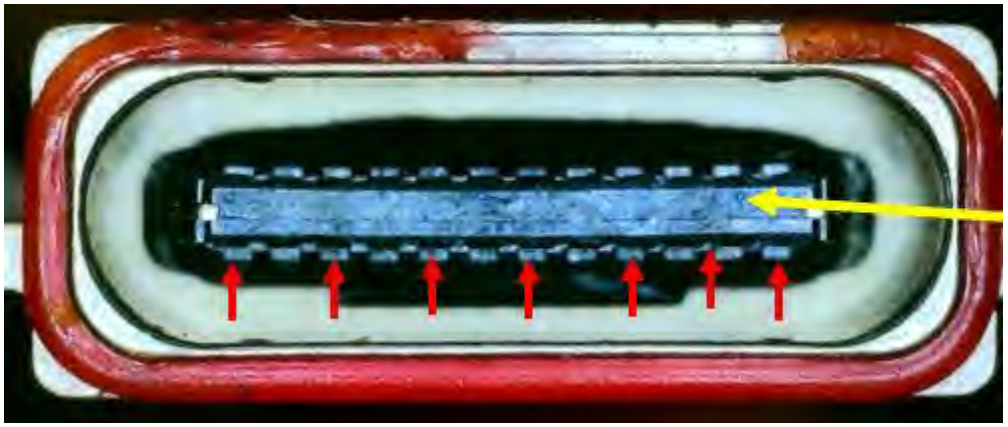
Claim 116 of the '307 Patent	Evidence of Infringement
connected to the at least one row of second contacts and the tongue is disposed at a middle within the connection slot,	When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the second surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

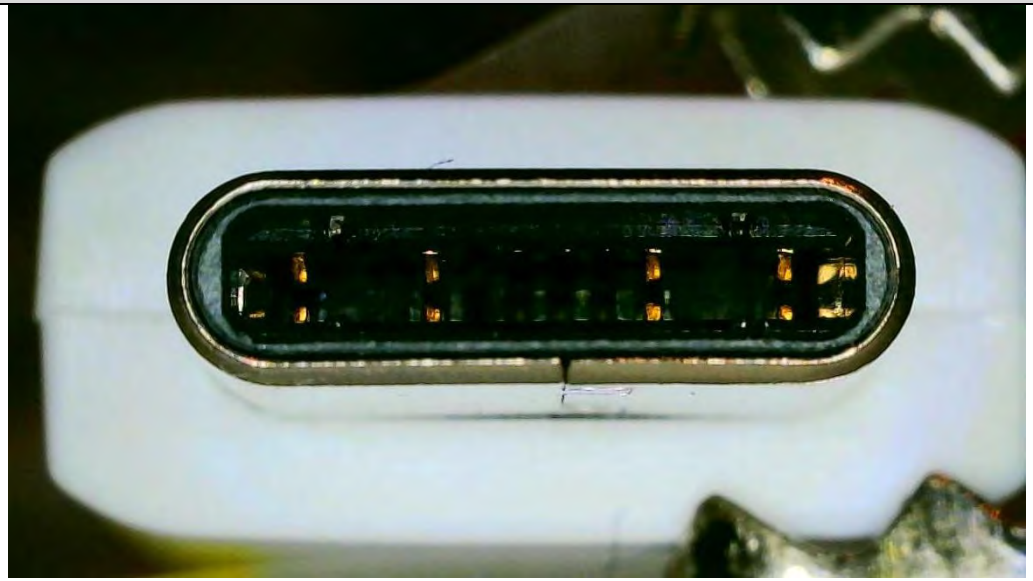
Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C plug showing top and bottom rows of connection terminals) The tongue is disposed at a middle within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

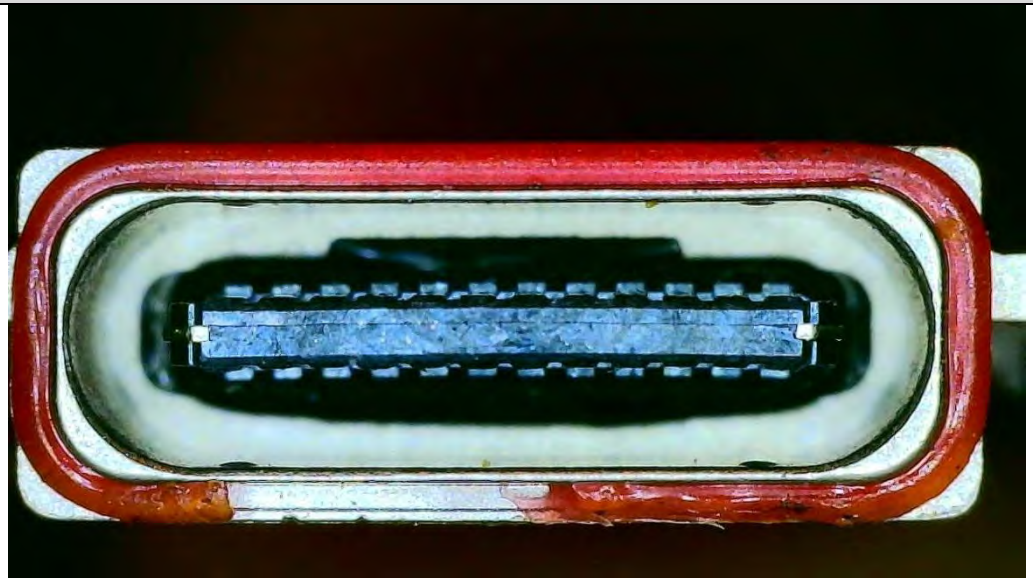
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**].
[**116N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state as described above in connection with element [**116M**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric right and left chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

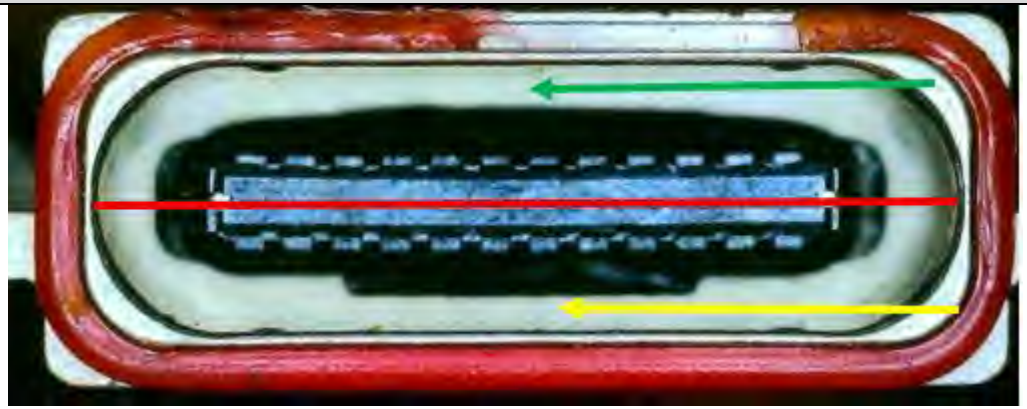
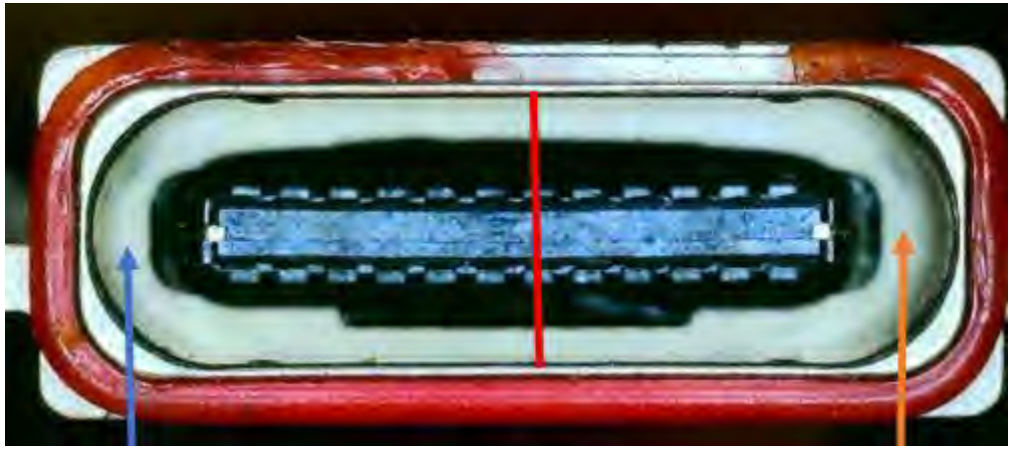
Claim 116 of the '307 Patent	Evidence of Infringement
left and right chambers around the tongue; and	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below.  *See also* Element [**34L**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

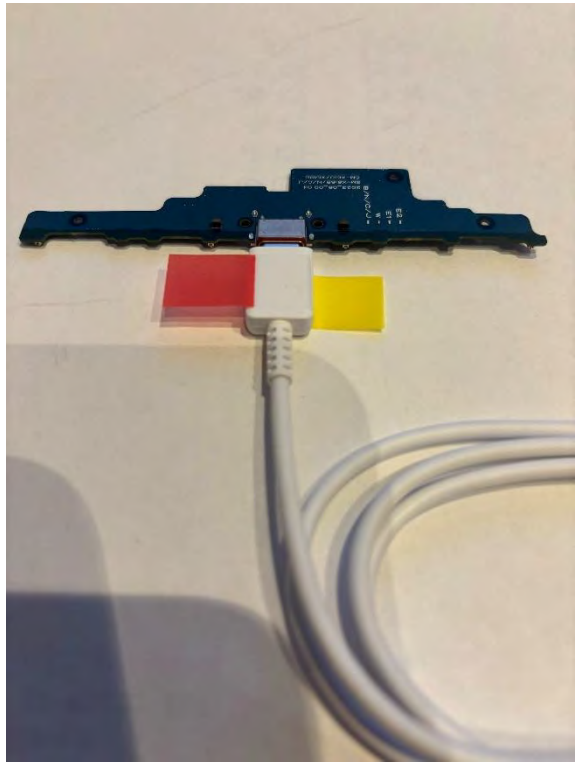
Claim 116 of the '307 Patent	Evidence of Infringement
[**116O**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first	The Samsung Galaxy Tab S9 FE Plus is further configured for a second operational state when the USB-C plug is oppositely inserted into the communication slot.  When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the red flag so as to electrically connect with the first contacts on the top surface of the tongue) are

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

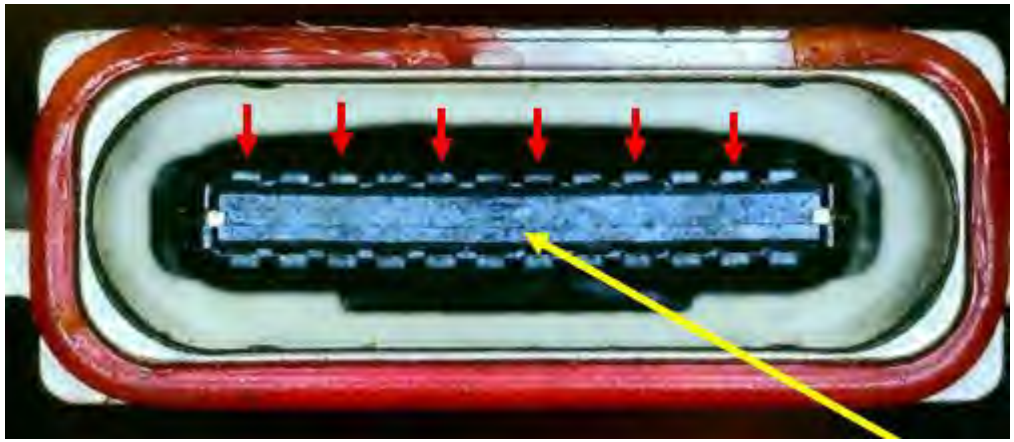
Claim 116 of the '307 Patent	Evidence of Infringement
contacts, and the tongue is disposed at within the connection slot,	represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.  *See also* Element [**34M**].
[**116P**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**116M**]. *See also* Element [**34N**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
right chambers around the tongue.	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
[**130A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Galaxy Tab S9 FE Plus is a tablet that includes a socket structure with duplex electrical connection. In particular, the Galaxy Tab S9 FE Plus provides duplex electrical connection via a USB port.  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	The USB port is a USB Type-C port. **USB** USB 2.0 **Earjack** USB Type-C https://web.archive.org/web/20250311143051/https://www.samsung.com/us/tablets/galaxy-tab-s9-fe/buy/galaxy-tab-s9-fe-plus-128gb-gray-wi-fi-sm-x610nzaaxar/ (accessed July 23, 2025).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Gal[illegible] tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C to USB-C cable.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

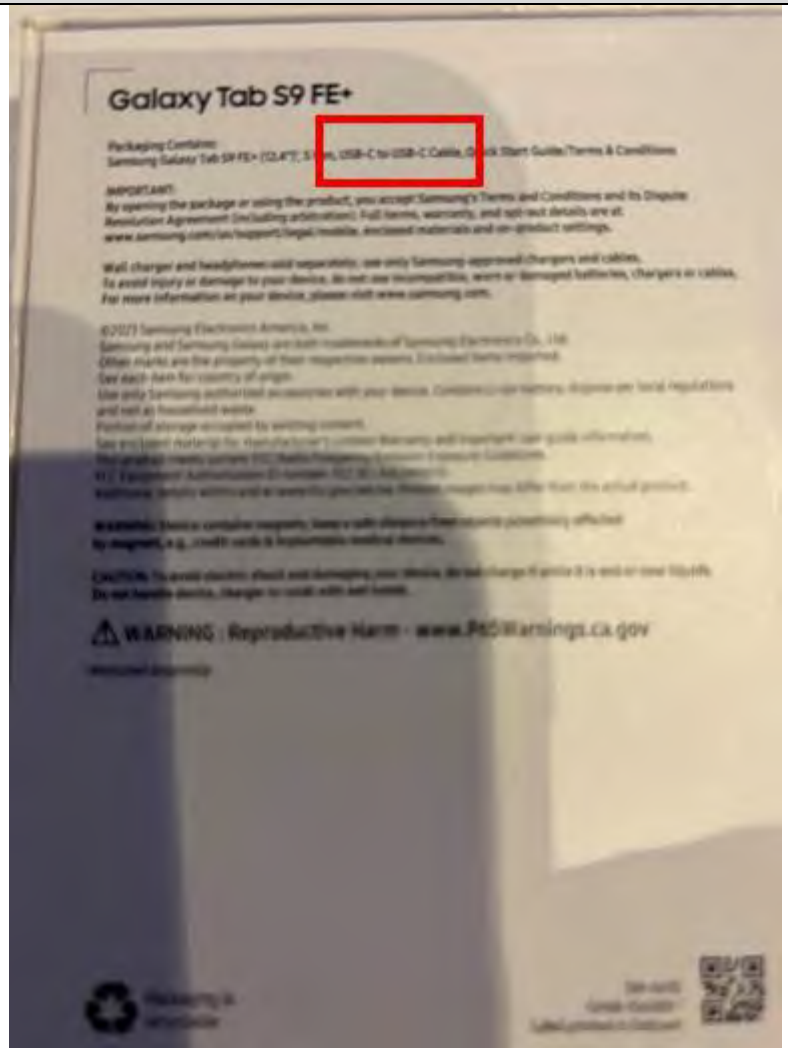
Claim 130 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

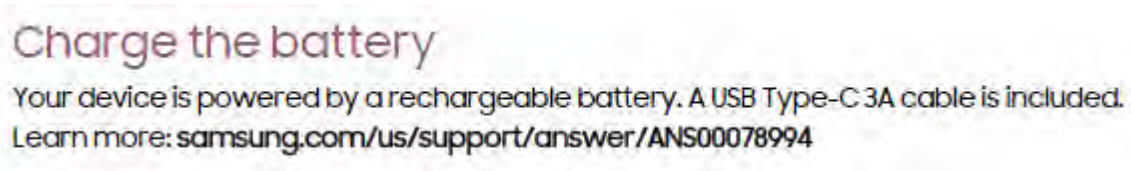
Claim 130 of the '307 Patent	Evidence of Infringement
	(Image of device packaging.)  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable included in packaging.) *See also* Element [**34A**] Further details regarding the socket structure are described below in connection with elements [**130B**] through [**130N**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

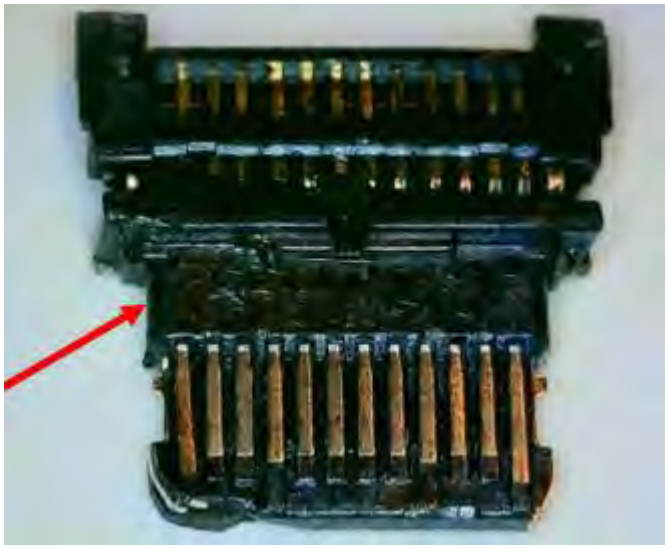
Claim 130 of the '307 Patent	Evidence of Infringement
[**130B**] a plastic base;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a plastic base.  

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

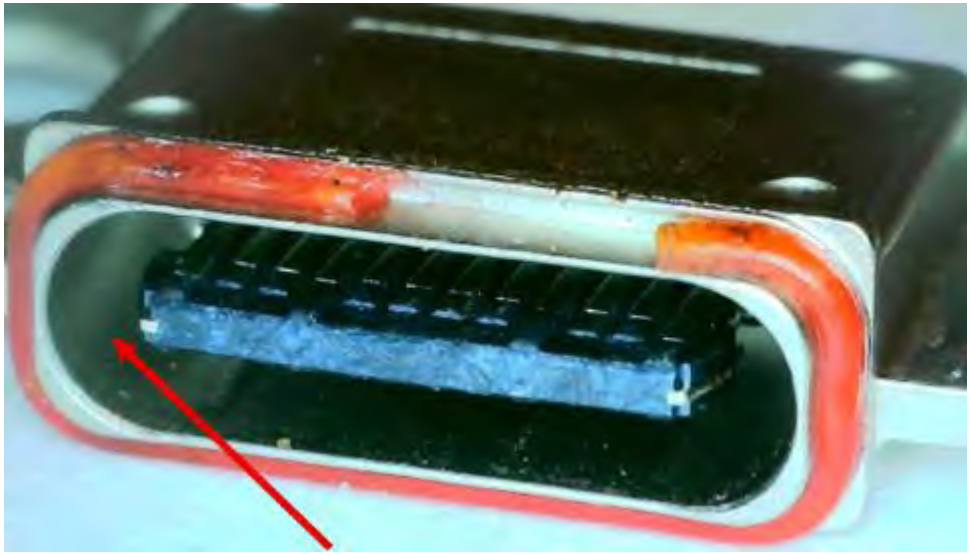
Claim 130 of the '307 Patent	Evidence of Infringement
	(Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34B**]
[**130C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a connection slot.  The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung Galaxy Tab S9 FE Plus, as described above in connection with element [**34A**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

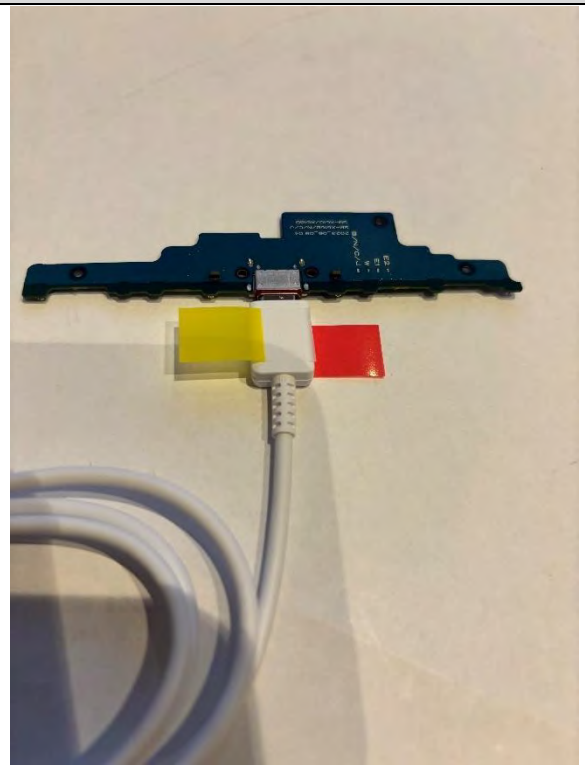
Claim 130 of the '307 Patent	Evidence of Infringement
	 USB-C cables include a plug with at least one row of connection terminals.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

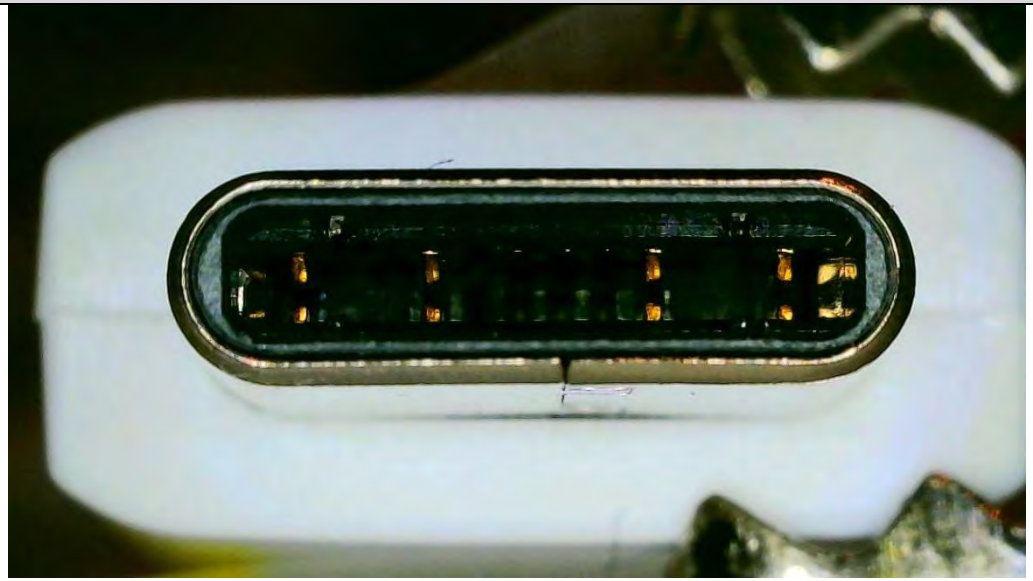
Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**]
[**130D**] a tongue, which has a first surface with recesses, and a second surface with	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

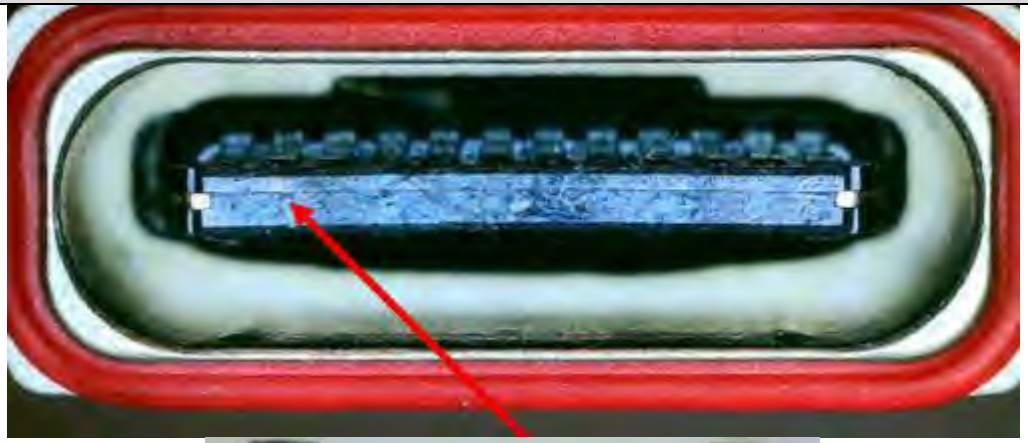
Claim 130 of the '307 Patent	Evidence of Infringement
recesses, the second surface disposed opposite the first surface,	 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

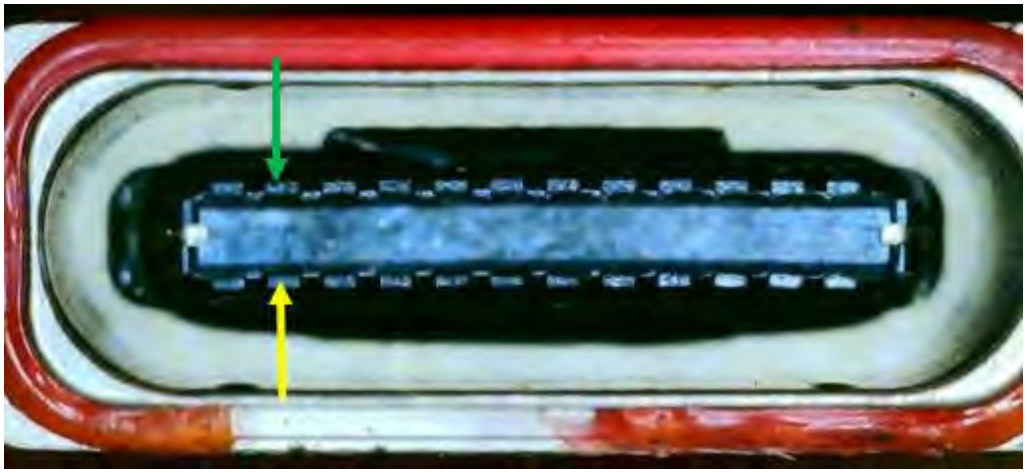
Claim 130 of the '307 Patent	Evidence of Infringement
	The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.  Each of the first and second surfaces has recesses.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

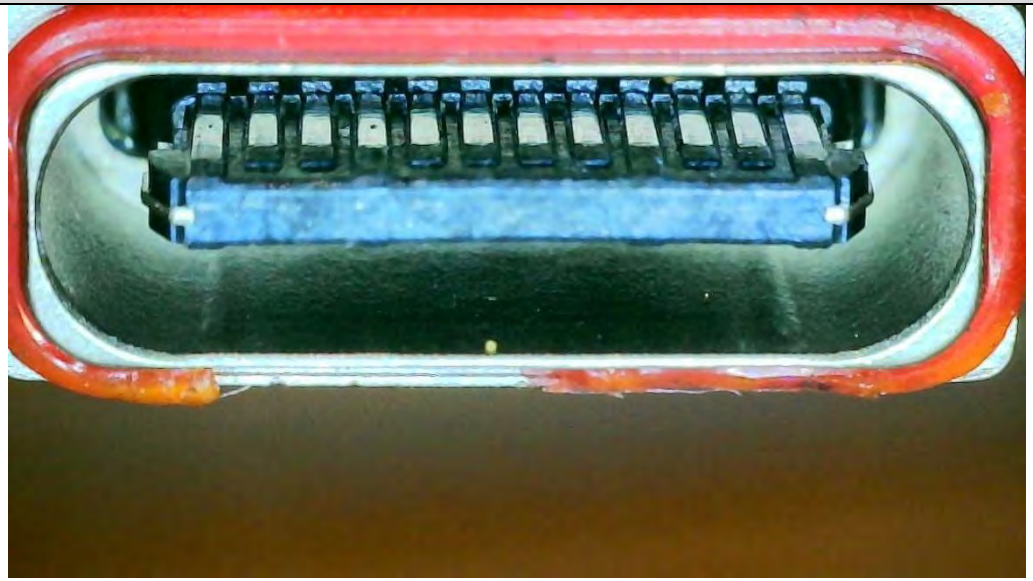
Claim 130 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

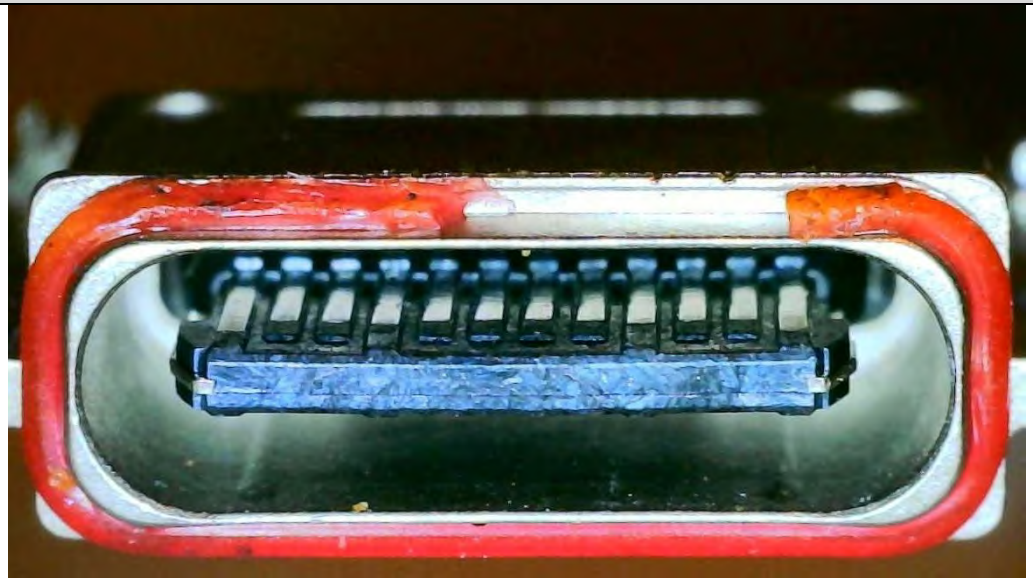
Claim 130 of the '307 Patent	Evidence of Infringement
	
[**130E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the	The tongue of the Samsung Galaxy Tab S9 FE Plus (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

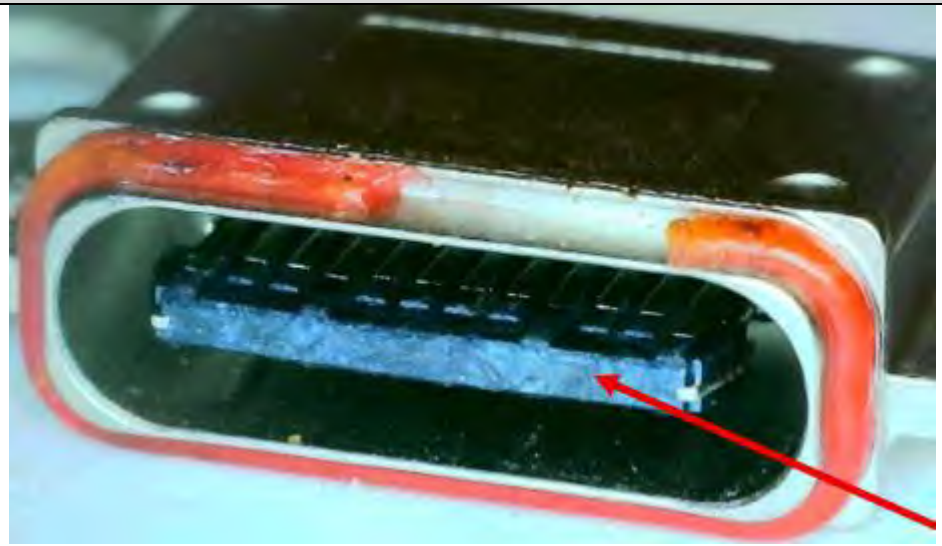
Claim 130 of the '307 Patent	Evidence of Infringement
connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The tongue is located on one end of the plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

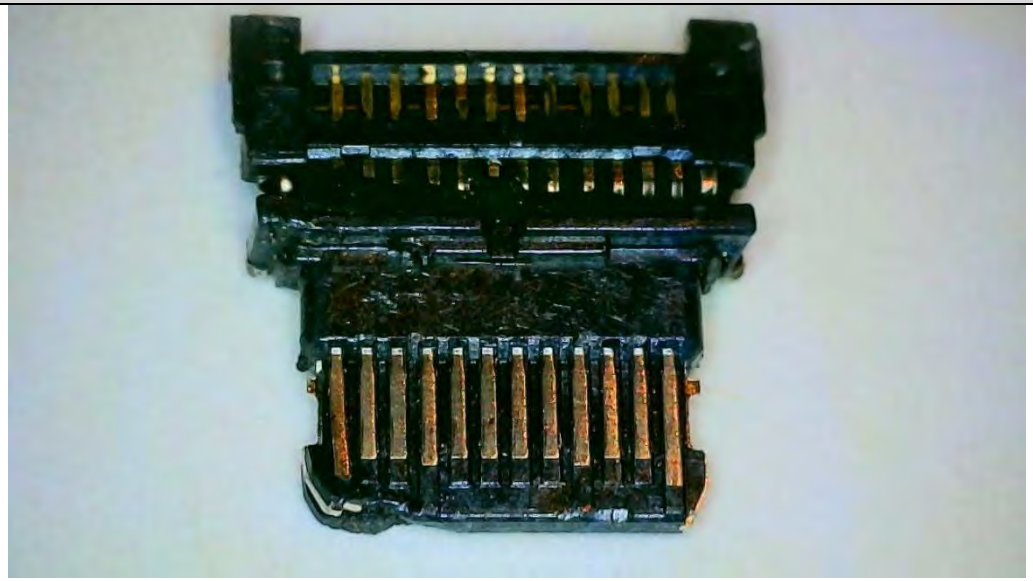
Claim 130 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by the yellow arrow)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

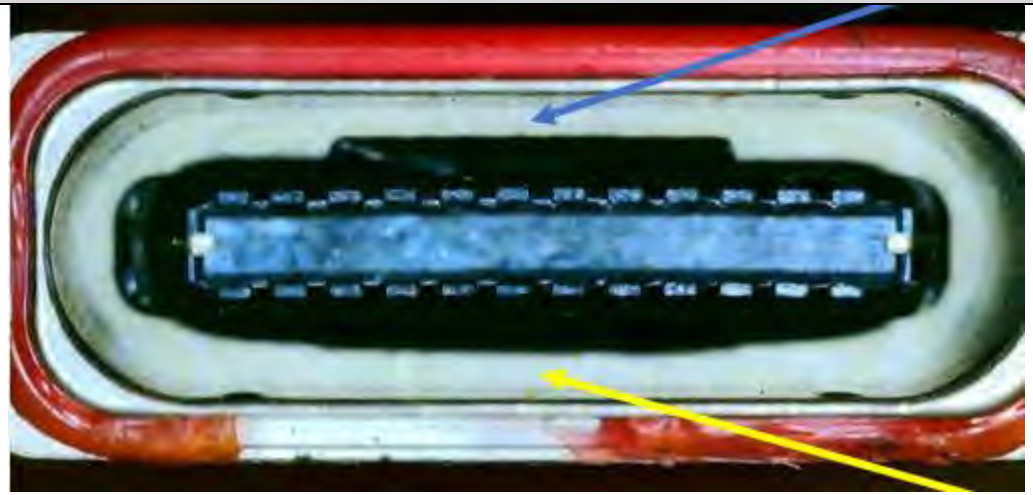
Claim 130 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

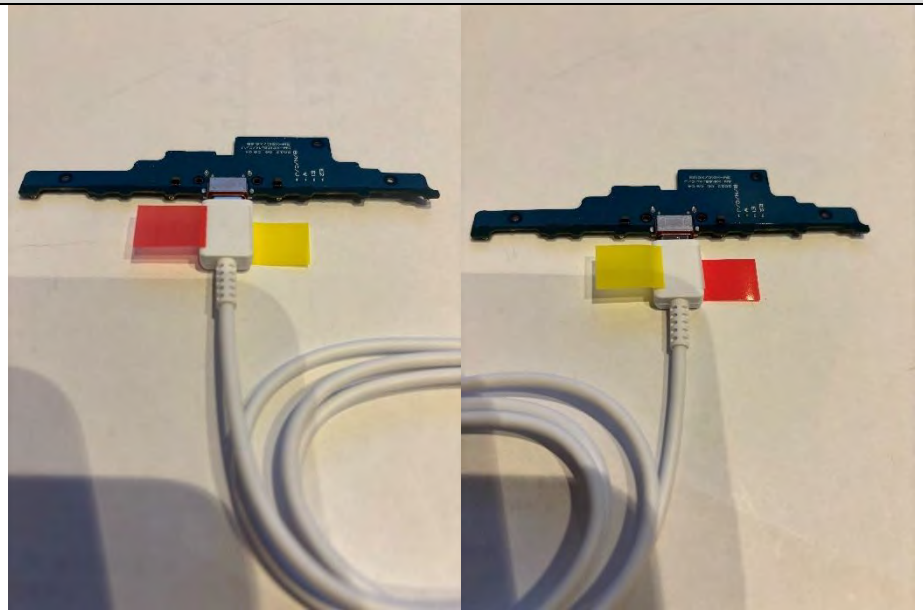
Claim 130 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags are attached to the same side of the plug in both images, showing that the plug can be connected to the socket structure of the Samsung Galaxy Tab S9 FE Plus when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**].
[**130F**] at least one row of first contacts separately arranged on the first	The Samsung Galaxy Tab S9 FE Plus includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image above, the Samsung Galaxy Tab S9 FE Plus further includes two rows of twelve pins extending out of the plastic base. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

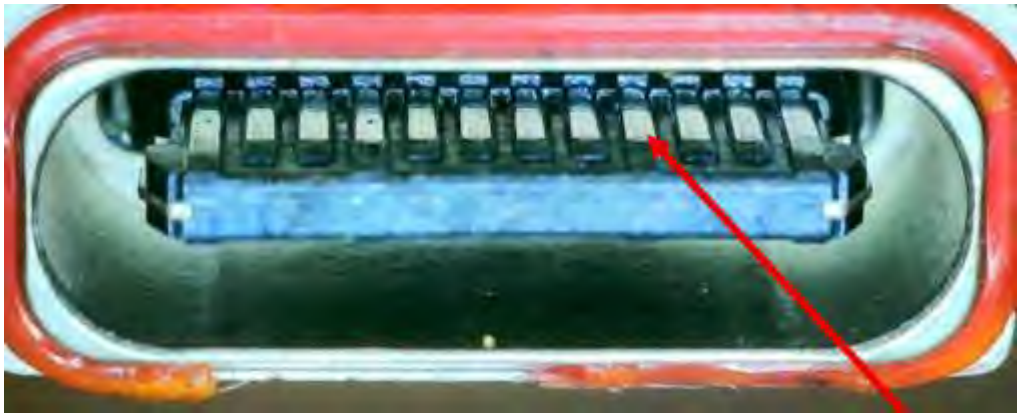
Claim 130 of the '307 Patent	Evidence of Infringement
	In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. *See also* Element [**34F**]
[**130G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung Galaxy Tab S9 FE Plus includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

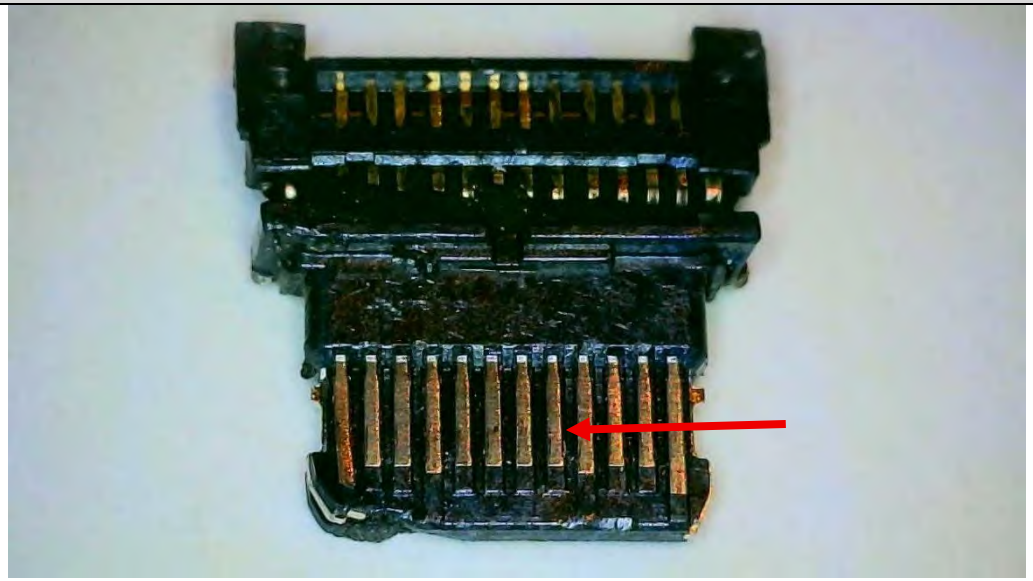
Claim 130 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Galaxy Tab S9 FE Plus) *See also* Element [**34G**]
[**130H**] each of the second contacts is electrically connected to a respective second pin extending	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung Galaxy Tab S9 FE Plus includes two rows of twelve pins extending out of the plastic base. On information and belief, the row identified by the arrow corresponds to the second pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

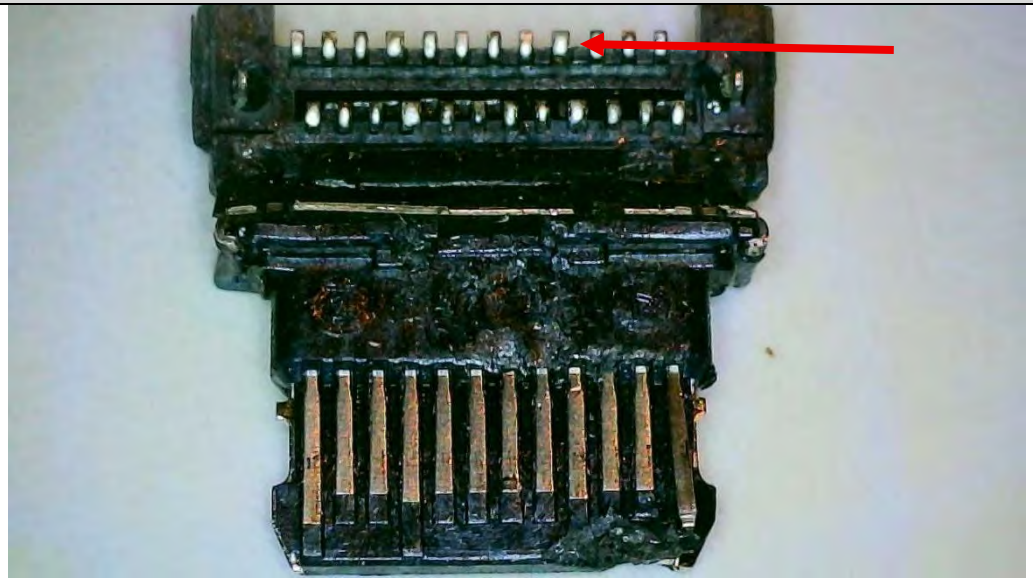
Claim 130 of the '307 Patent	Evidence of Infringement
out of the plastic base;	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

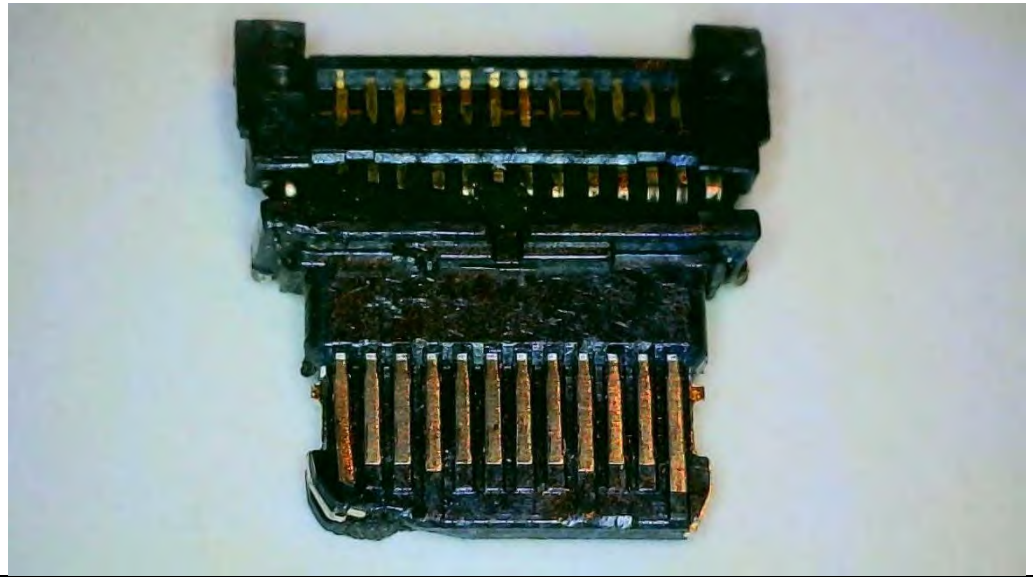
Claim 130 of the '307 Patent	Evidence of Infringement
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables). In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**]
[**130I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

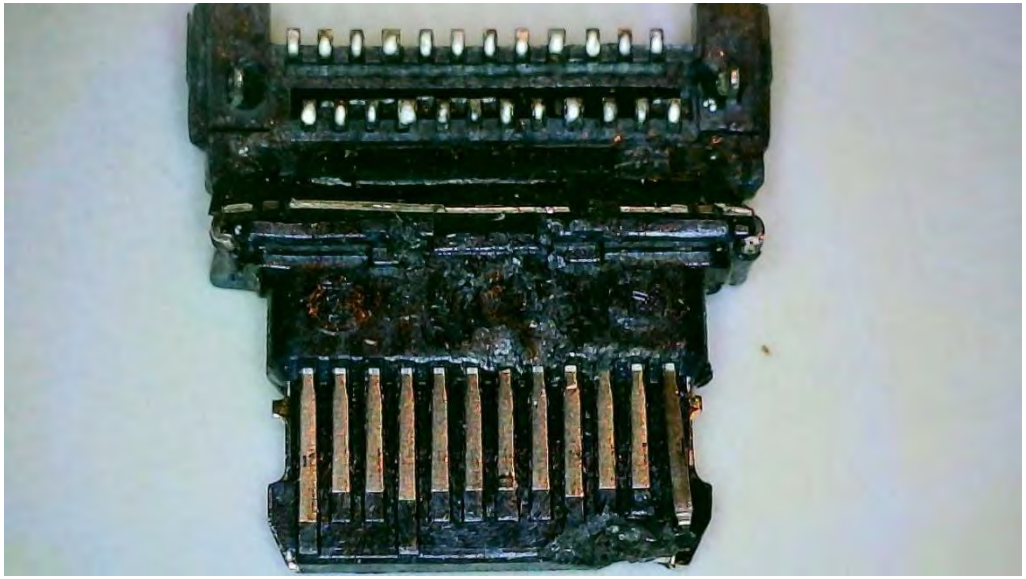
Claim 130 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

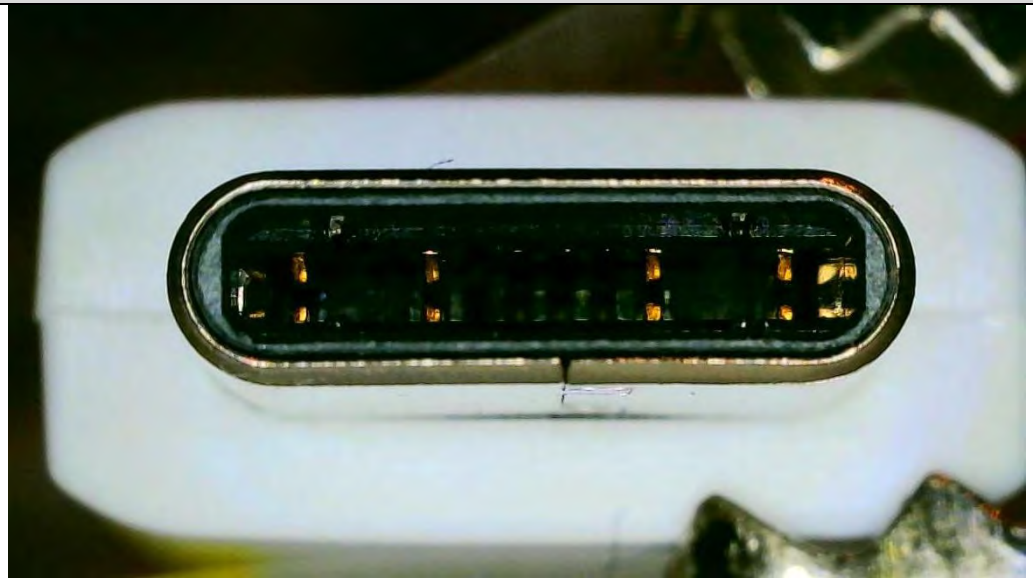
Claim 130 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**130J**] the at least one row of first	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

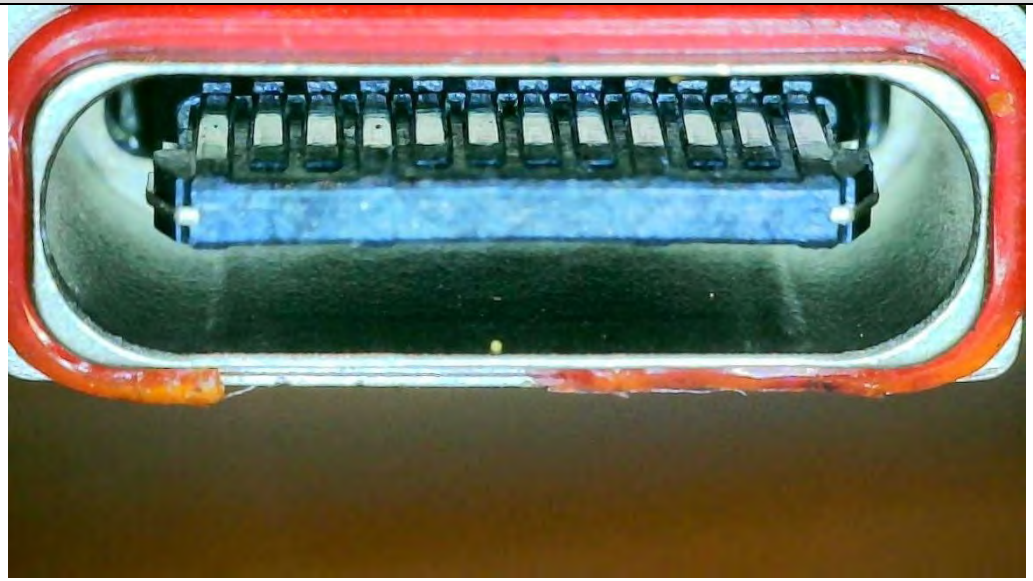
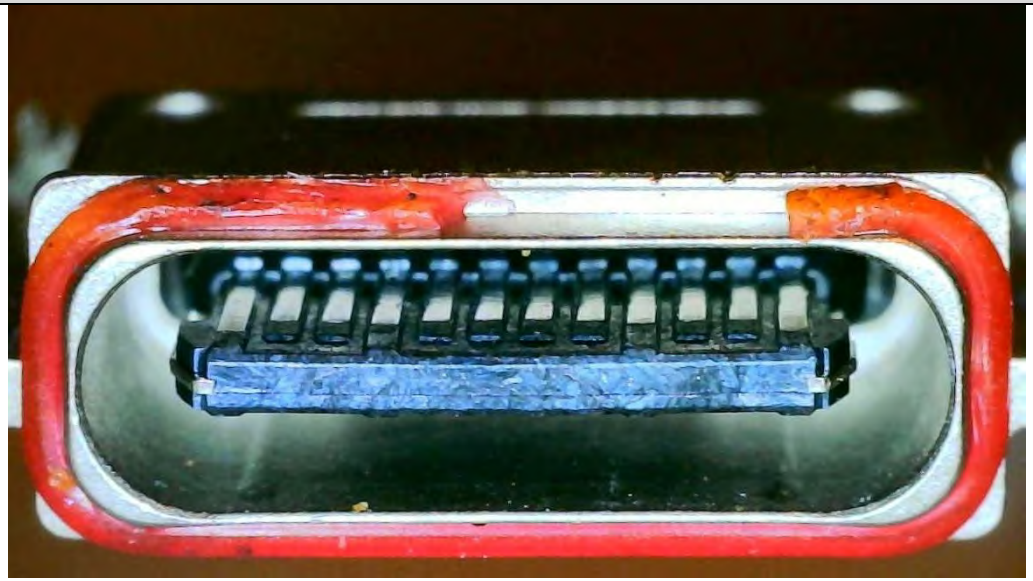
Claim 130 of the '307 Patent	Evidence of Infringement
contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two separate operational states:	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Claim 130 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**]

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

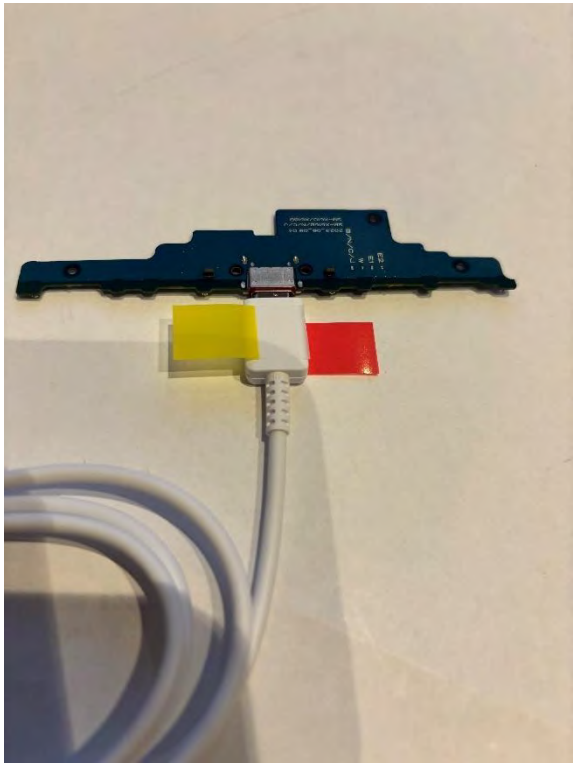
Claim 130 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two separate operational states, as described below in connection with elements [**130K**] through [**130N**].
[**130K**] a first operational states when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state when a USB-C plug is normally inserted into the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

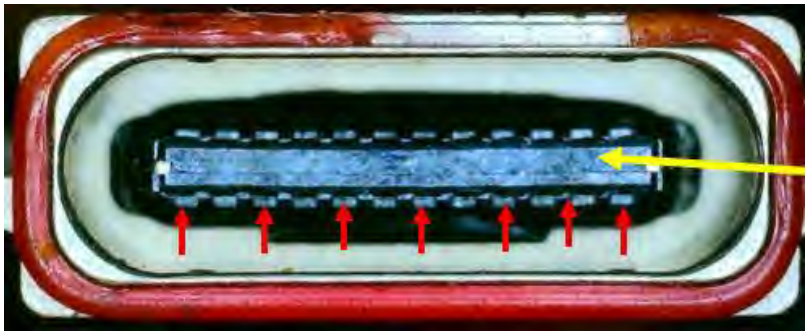
Claim 130 of the '307 Patent	Evidence of Infringement
connected to the at least one row of second contacts and the tongue is disposed within the connection slot,	When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the second surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

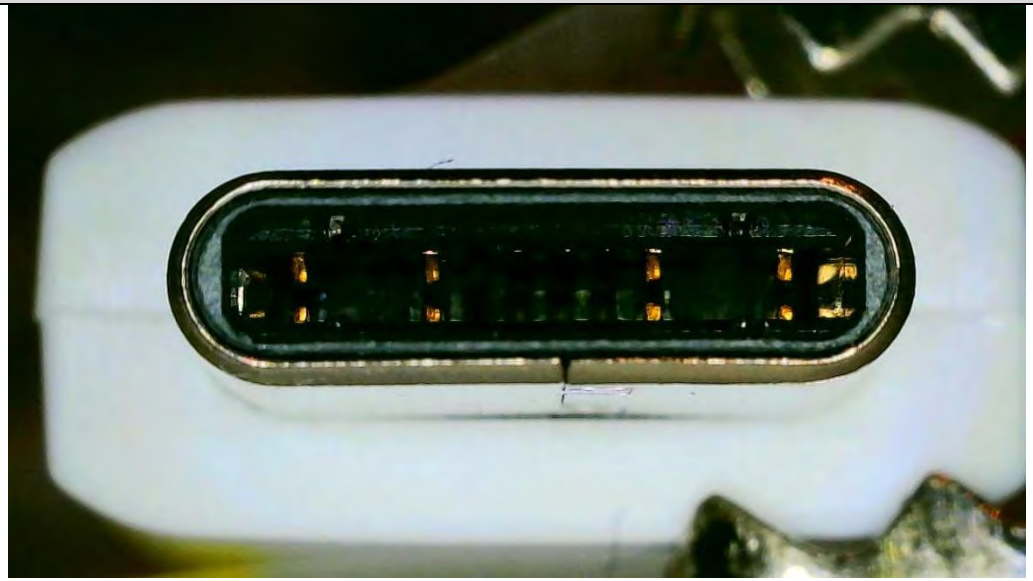
Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C plug showing top and bottom rows of connection terminals) *See also* Element [**34K**]
[**130L**] wherein the connection slot is symmetric with symmetric up and down	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state as described above in connection with element [**130K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric right and left chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

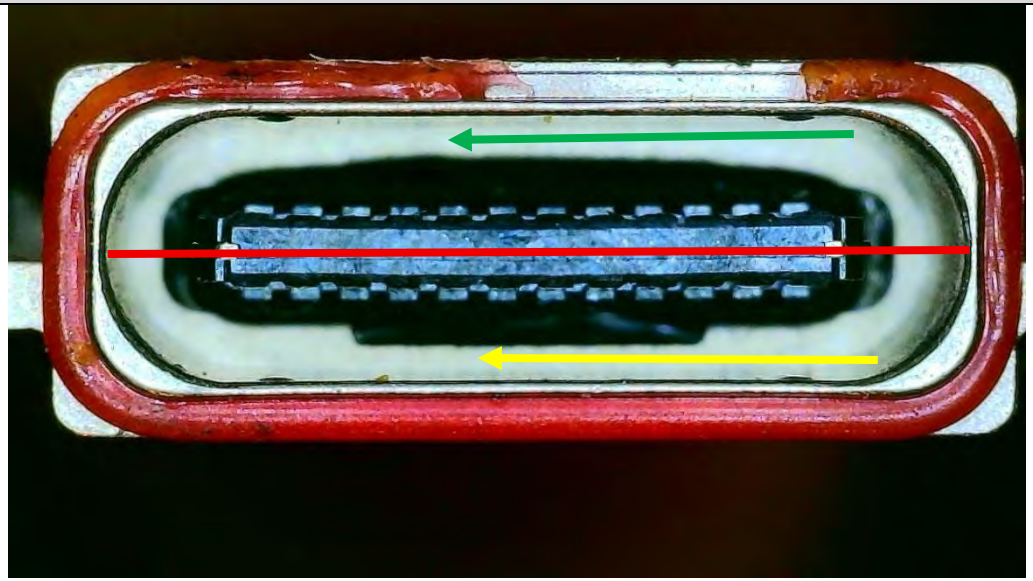
Claim 130 of the '307 Patent	Evidence of Infringement
chambers, and symmetric left and right chambers around the tongue; and	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

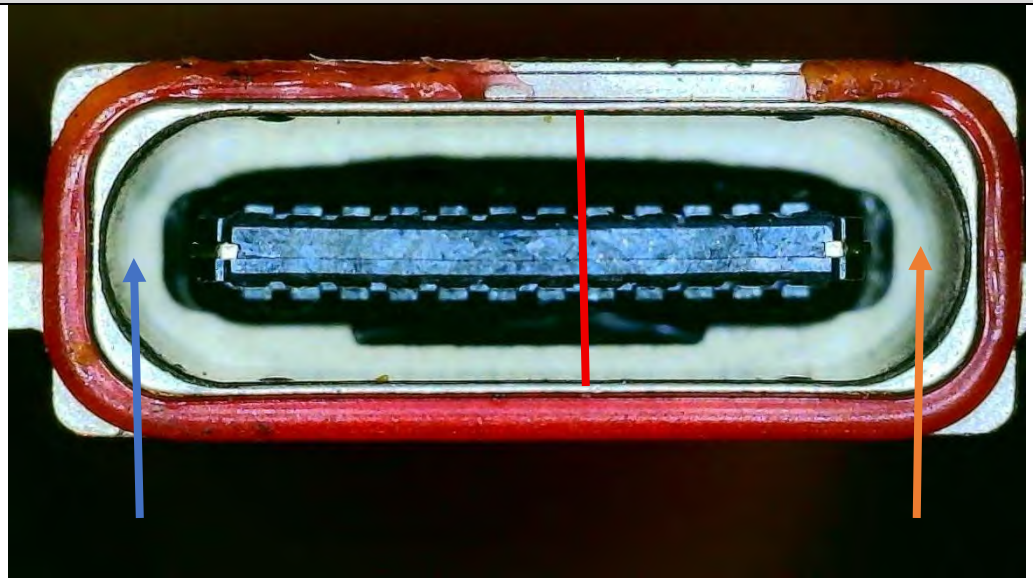
Claim 130 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**]
[**130M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one	The Samsung Galaxy Tab S9 FE Plus is further configured for a second operational state when the USB-C plug is oppositely inserted into the communication slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

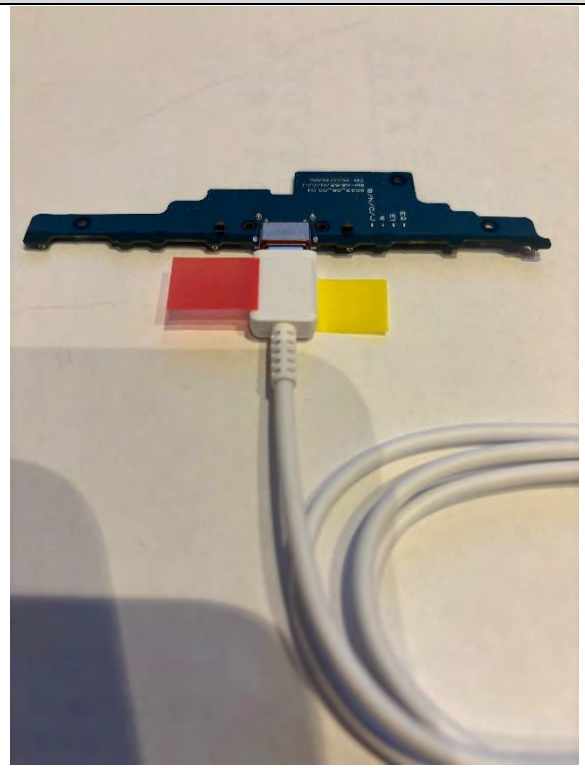
Claim 130 of the '307 Patent	Evidence of Infringement
row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the red flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

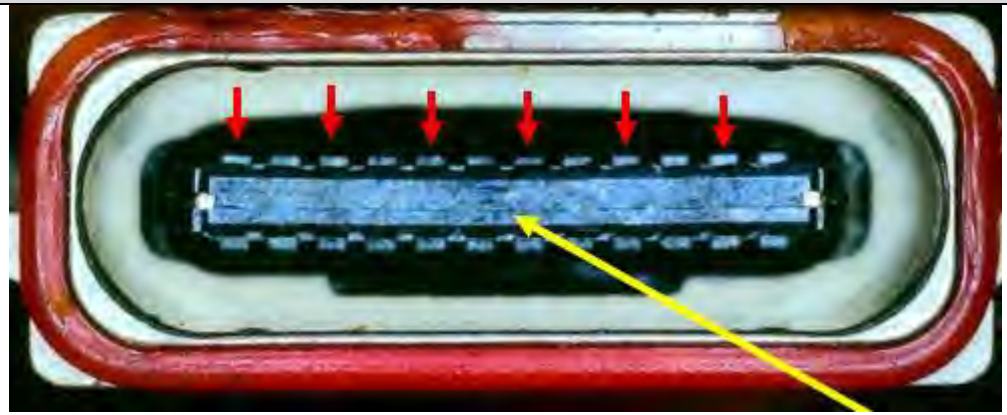
Claim 130 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**]
[**130N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**130L**]. *See also* Element [**34N**]

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
around the tongue.	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	**Evidence of Infringement**
[**131A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Galaxy Tab S9 FE Plus is a tablet that includes a socket structure with duplex electrical connection. In particular, the Galaxy Tab S9 FE Plus provides duplex electrical connection via a USB port.  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	The USB port is a USB Type-C port. **USB** USB 2.0 **Earjack** USB Type-C https://web.archive.org/web/20250311143051/https://www.samsung.com/us/tablets/galaxy-tab-s9-fe/buy/galaxy-tab-s9-fe-plus-128gb-gray-wi-fi-sm-x610nzaaxar/ (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C to USB-C cable.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

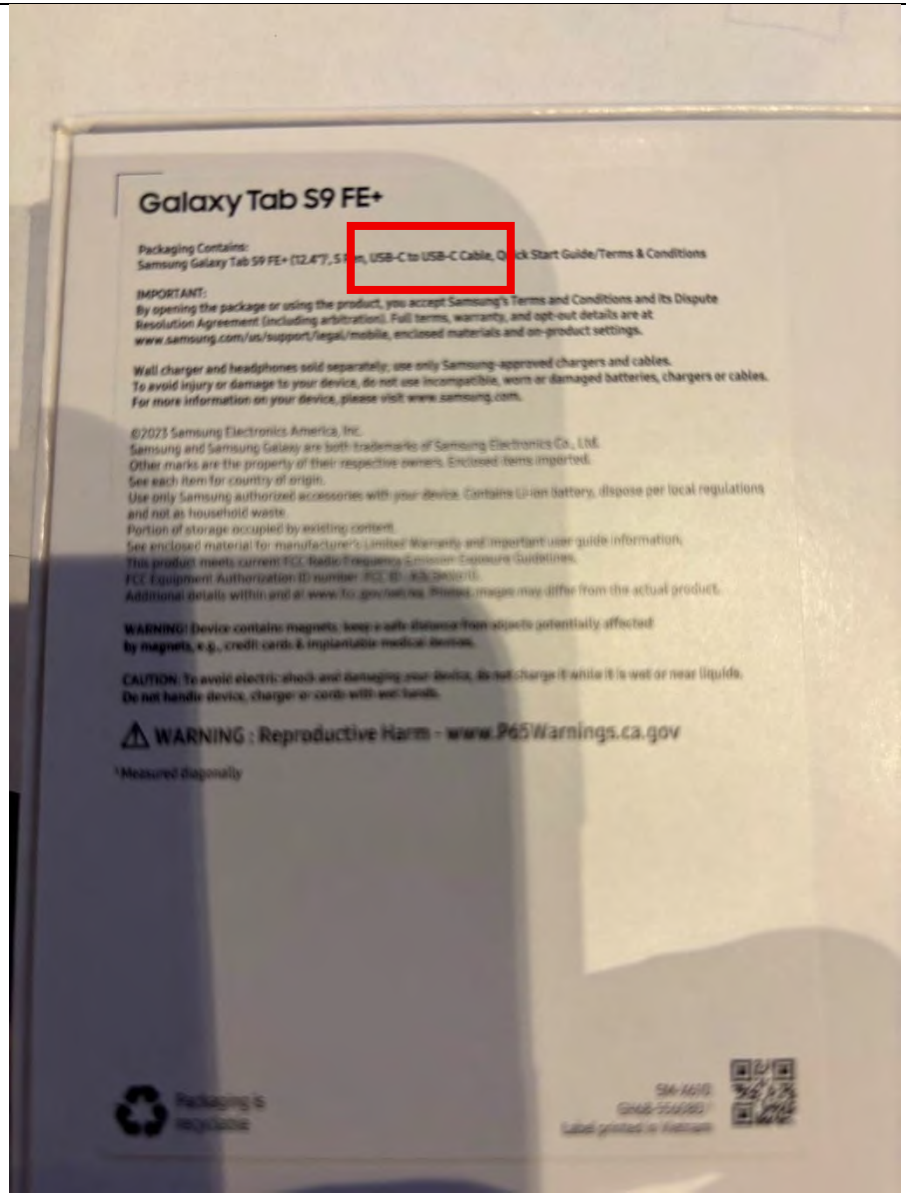


EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

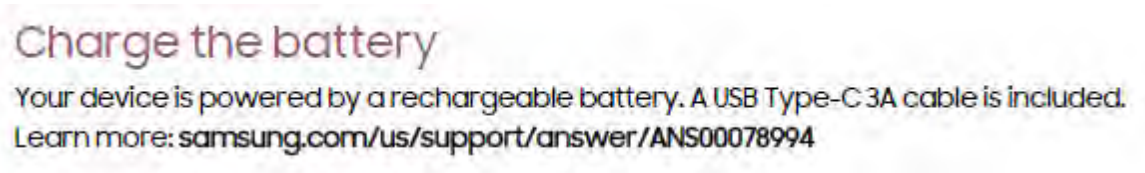
Claim 131 of the '307 Patent	Evidence of Infringement
	(Image of device packaging.)  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable included in packaging.) *See also* Element [**34A**] Further details regarding the socket structure are described below in connection with elements [**131B**] through [**131L**].
[**131B**] a plastic base;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

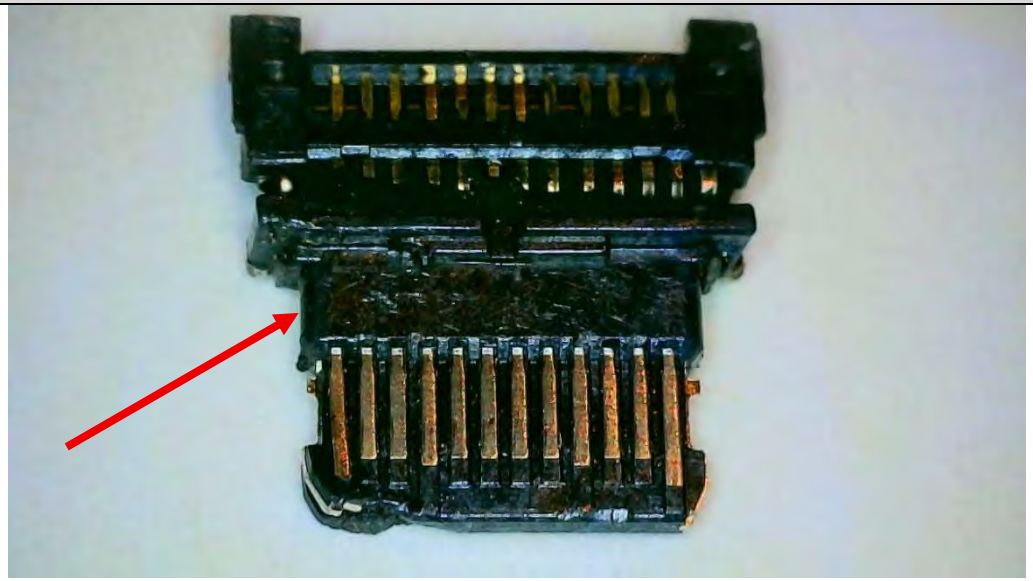
Claim 131 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

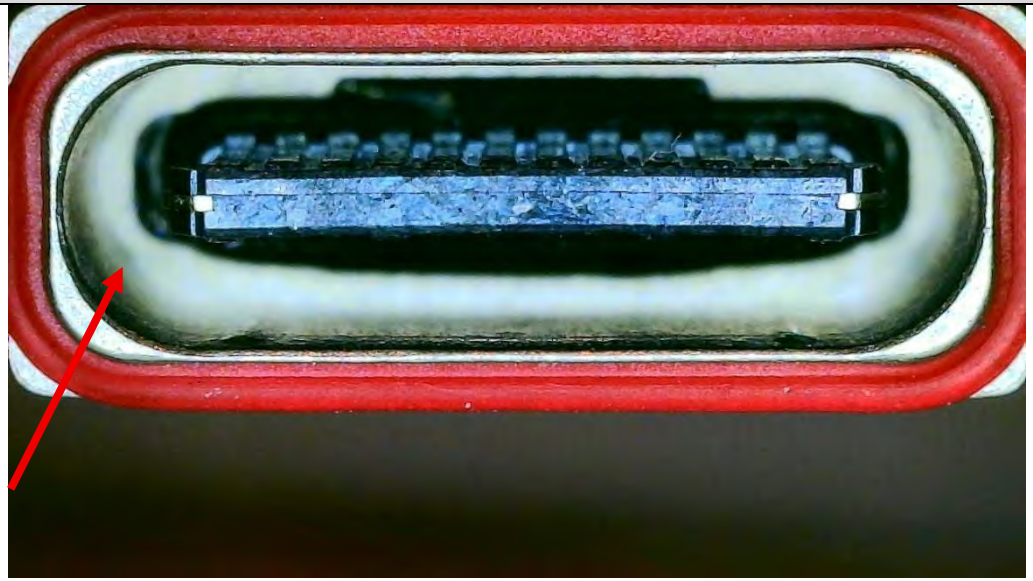
Claim 131 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34B**]
[**131C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

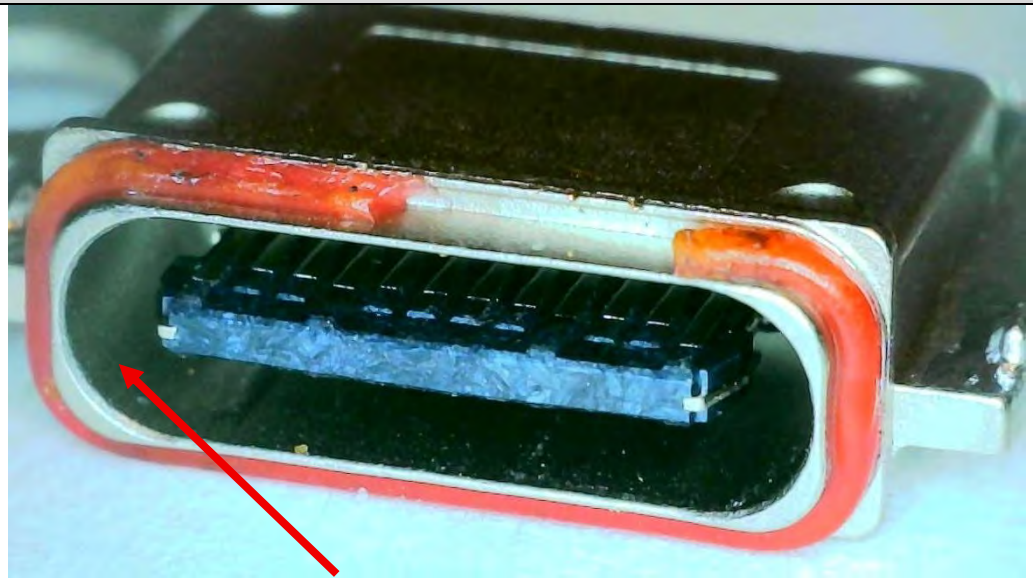
Claim 131 of the '307 Patent	**Evidence of Infringement**
a plug having at least one row of connection terminals;	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

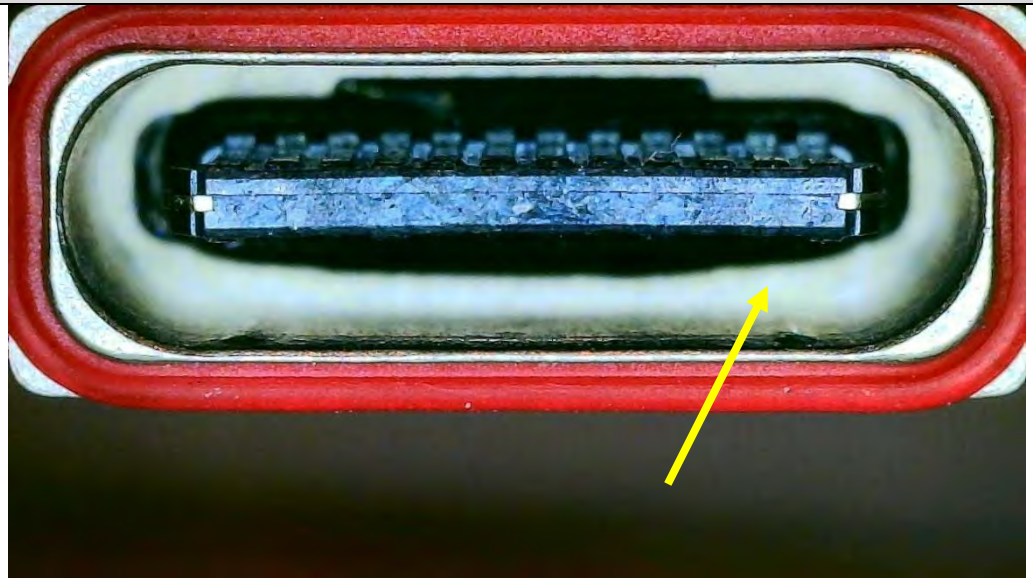
Claim 131 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung Galaxy Tab S9 FE Plus, as described above in connection with element [**34A**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

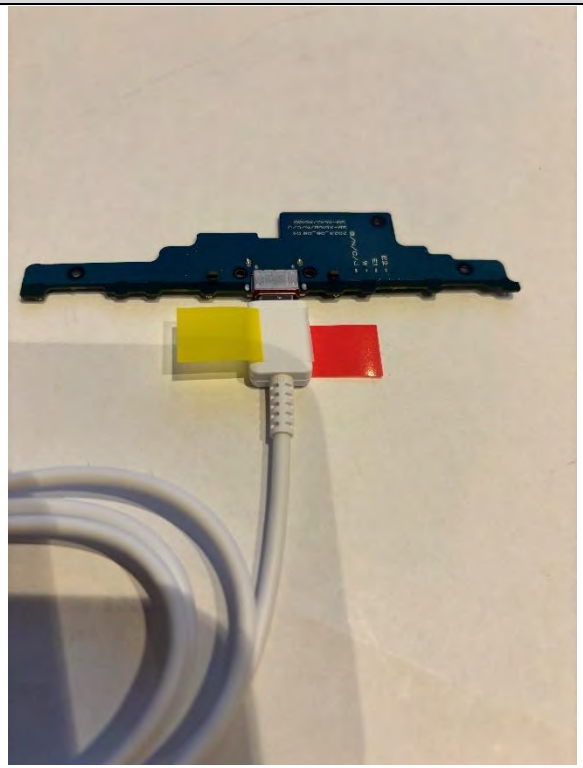
Claim 131 of the '307 Patent	Evidence of Infringement
	 USB-C cables include a plug with at least one row of connection terminals.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

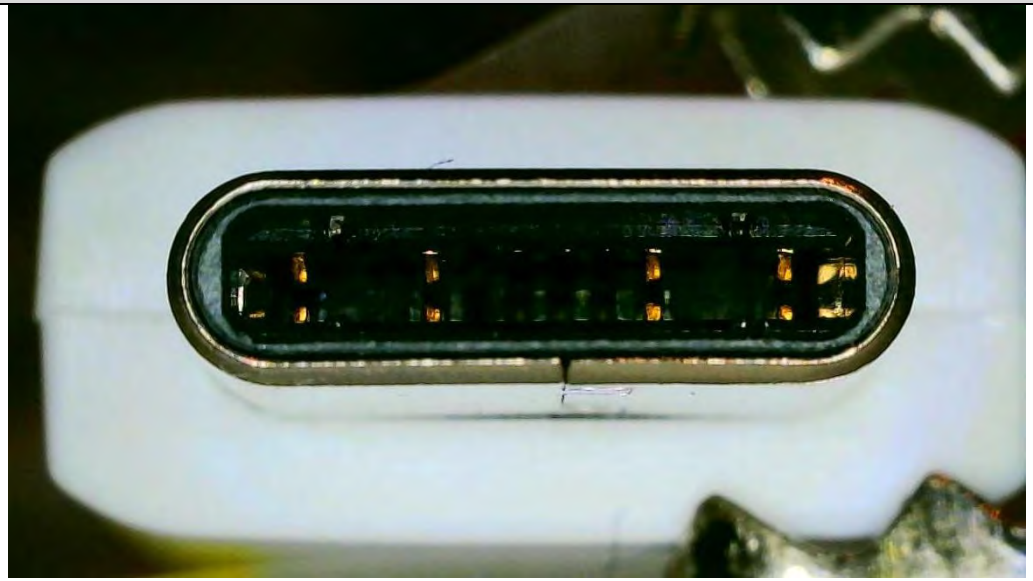
Claim 131 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**]
[**131D**] a tongue, which has a top side with a first surface with grooves, and a bottom side with a	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

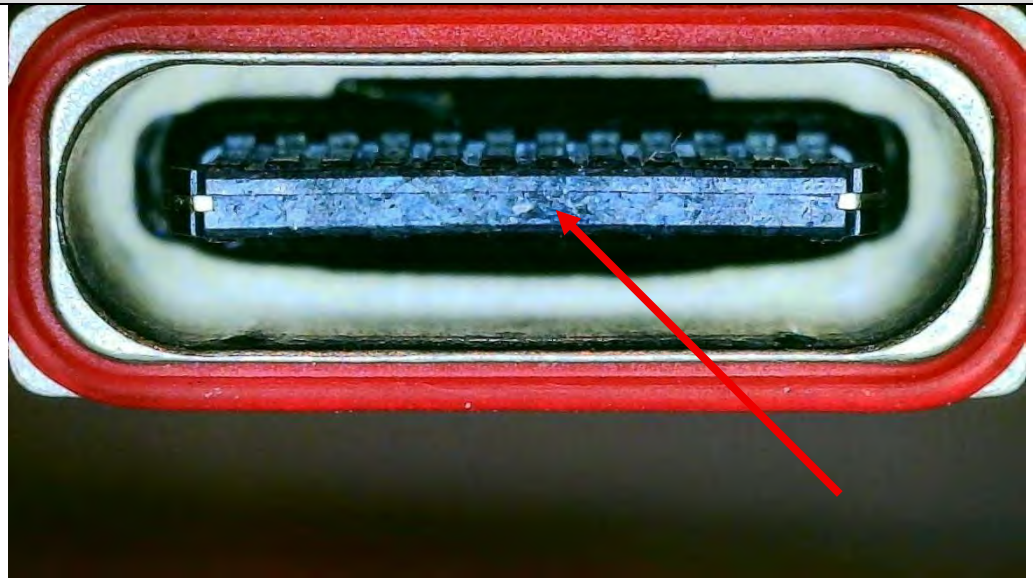
Claim 131 of the '307 Patent	**Evidence of Infringement**
second surface with grooves, the second surface disposed opposite the first surface,	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

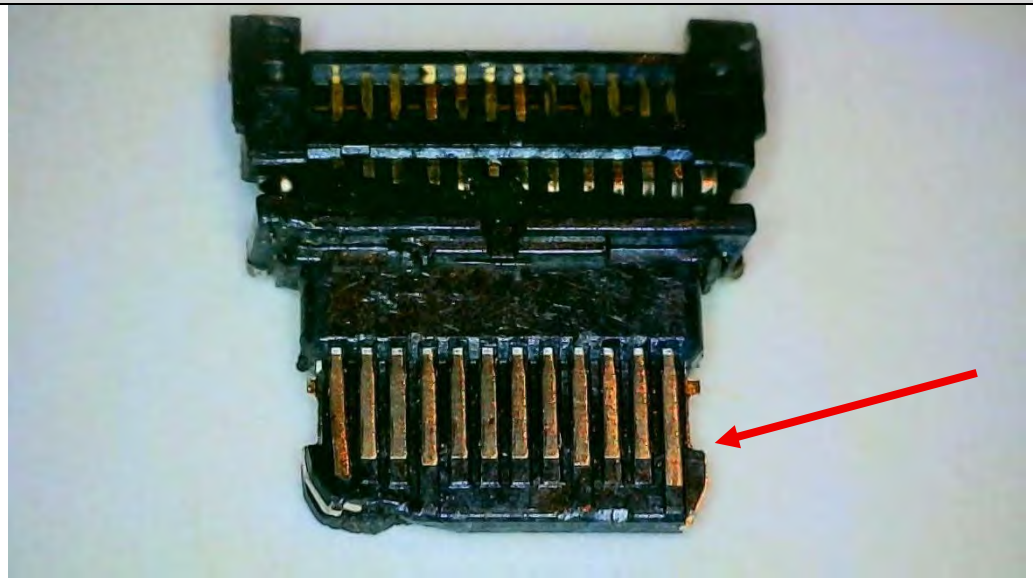
Claim 131 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

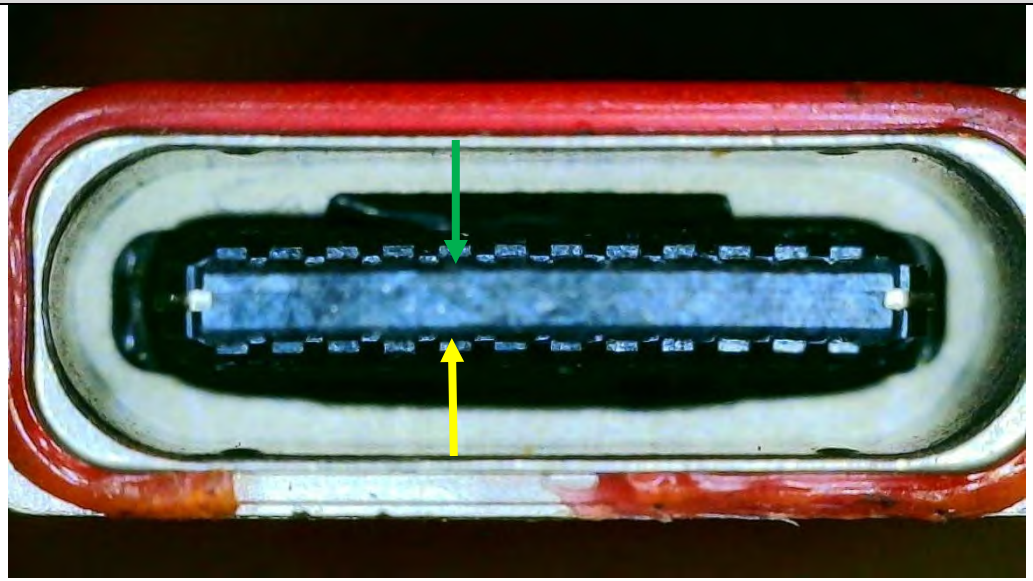
Claim 131 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

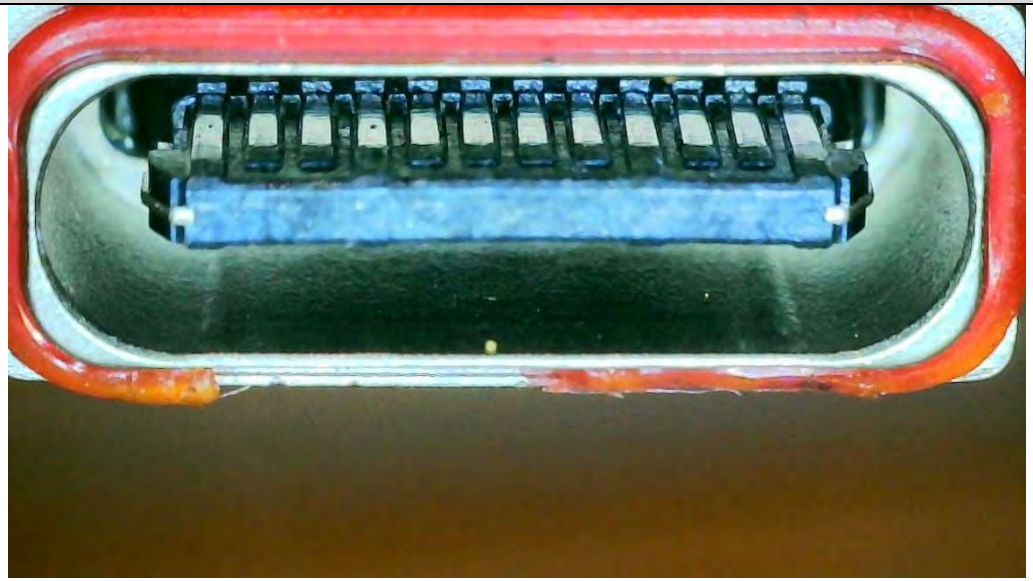
Claim 131 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

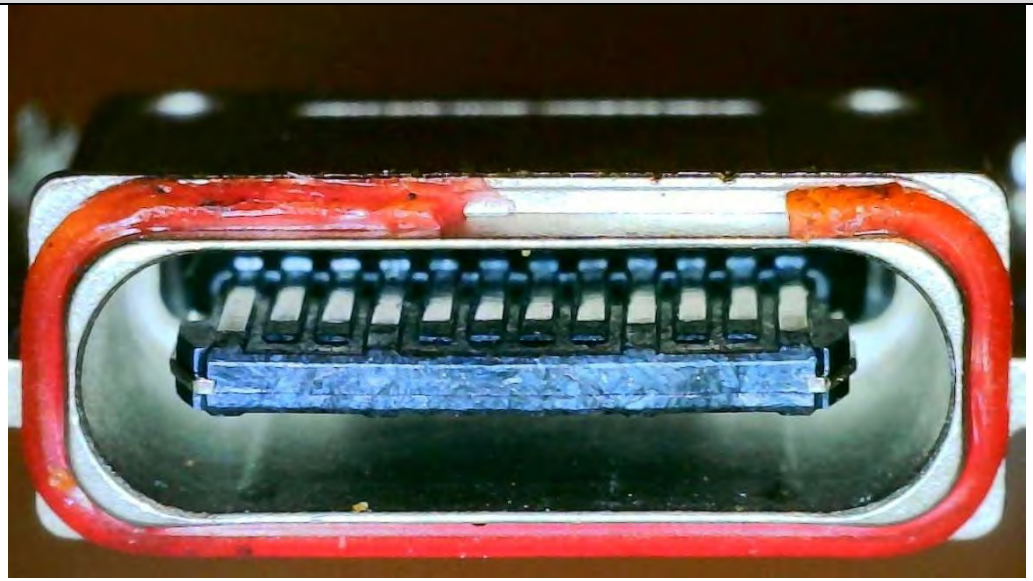
Claim 131 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponding to the side with the second surface as described in element [**34D**].
[**131E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that	The tongue of the Samsung Galaxy Tab S9 FE Plus (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

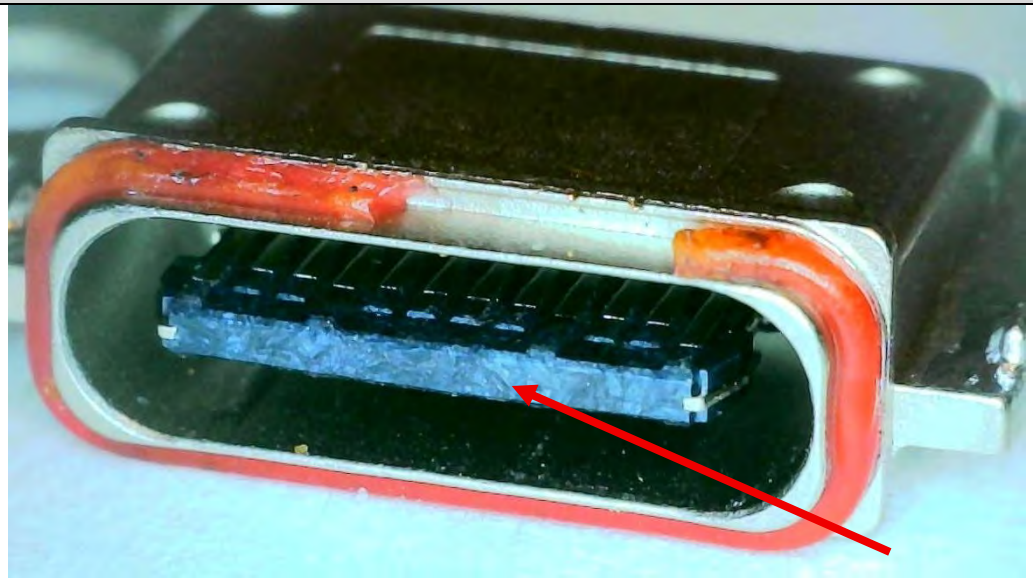
Claim 131 of the '307 Patent	Evidence of Infringement
chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The tongue is located on one end of the plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

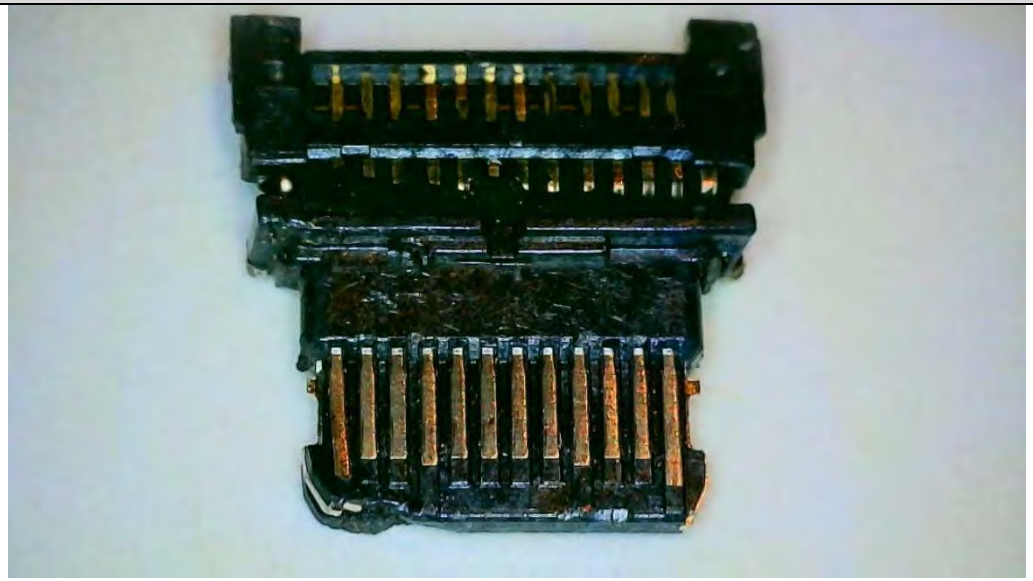
Claim 131 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by the yellow arrow)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

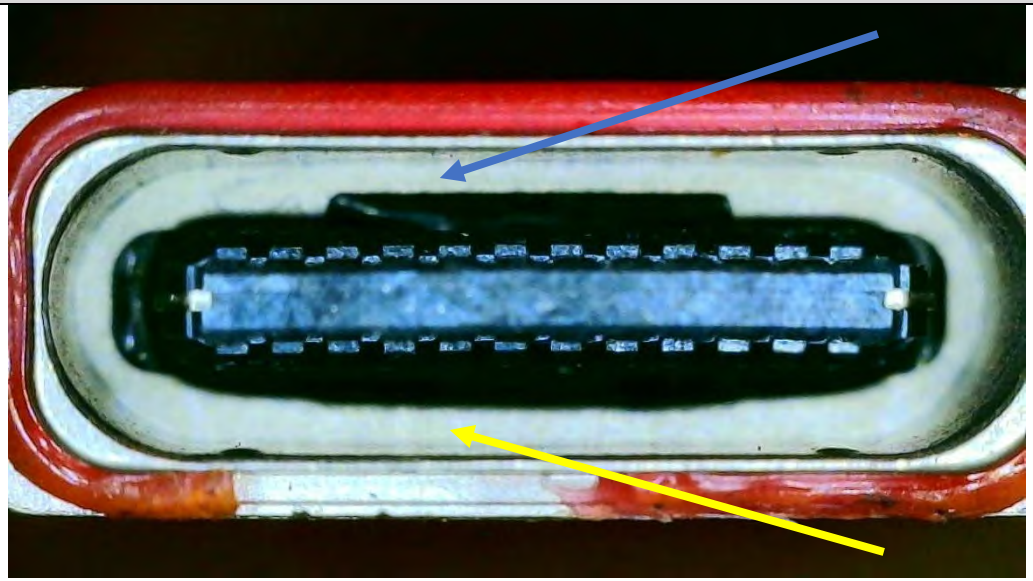
Claim 131 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

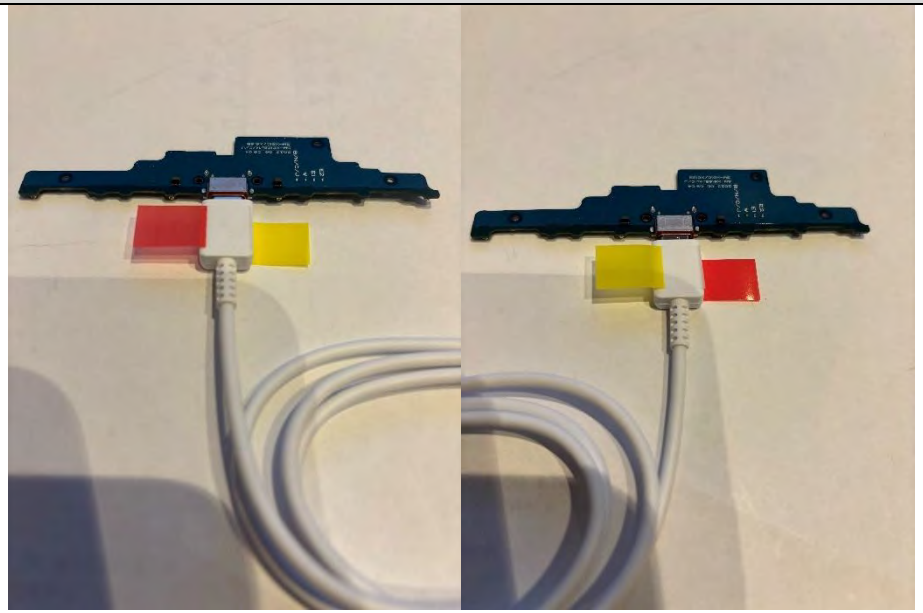
Claim 131 of the '307 Patent	**Evidence of Infringement**
	 The red and yellow flags are attached to the same side of the plug in both images, showing that the plug can be connected to the socket structure of the Samsung Galaxy Tab S9 FE Plus when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**]
[**131F**] at least one row of first contacts separately	The Samsung Galaxy Tab S9 FE Plus includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

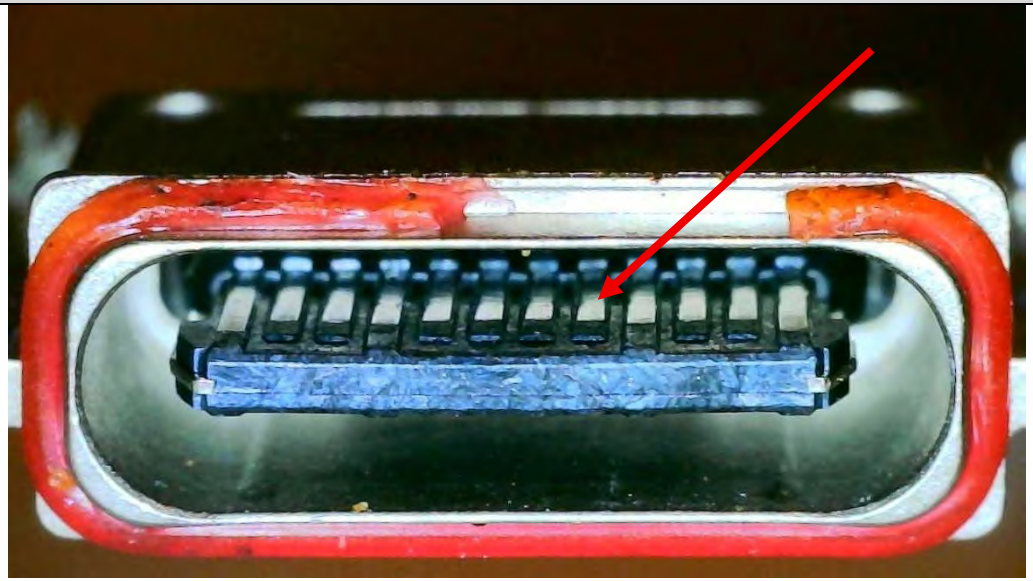
Claim 131 of the '307 Patent	**Evidence of Infringement**
arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a first pin extending out of the plastic base; and	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

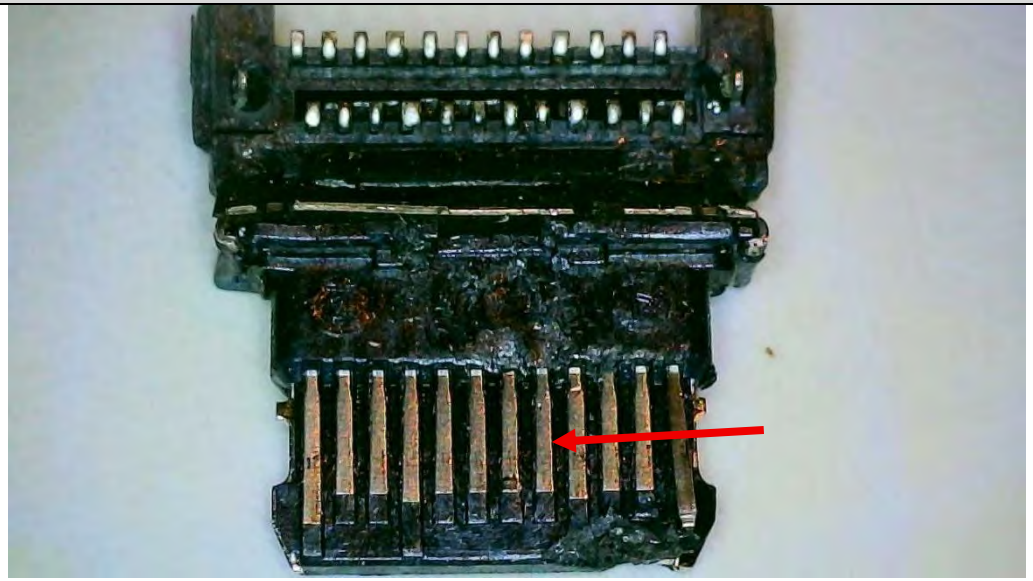
Claim 131 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image above, the Samsung Galaxy Tab S9 FE Plus further includes two rows of twelve pins extending out of the plastic base. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

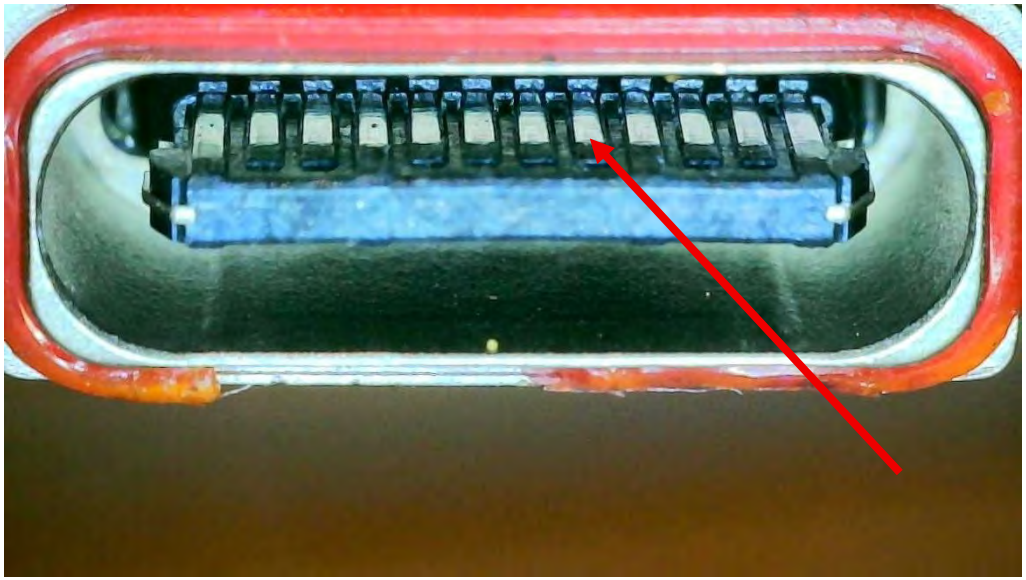
Claim 131 of the '307 Patent	**Evidence of Infringement**
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables). In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. *See also* Element [**34F**]
[**131G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung Galaxy Tab S9 FE Plus includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

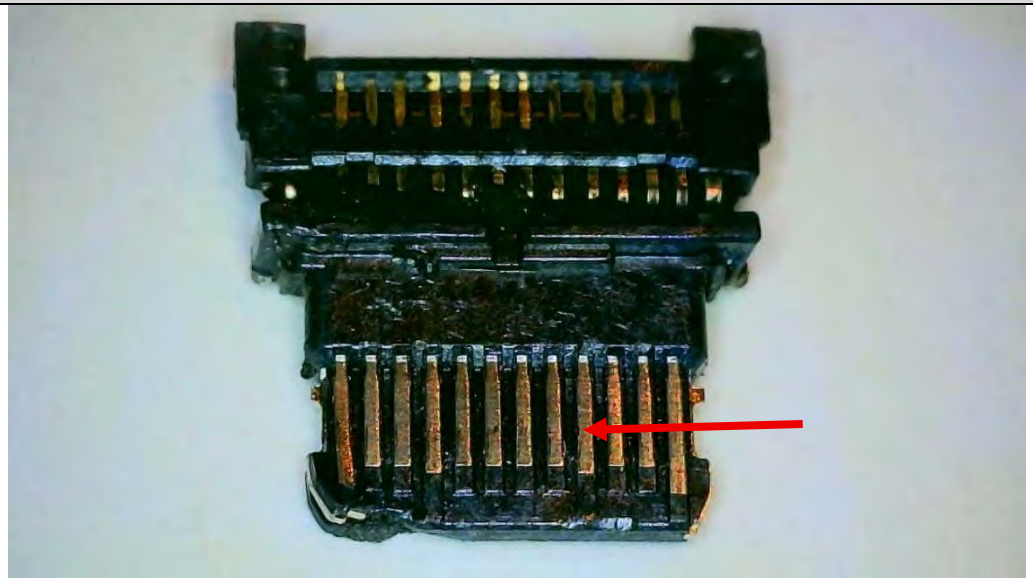
Claim 131 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Galaxy Tab S9 FE Plus) *See also* Element [**34G**]
[**131H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung Galaxy Tab S9 FE Plus includes two rows of twelve pins extending out of the plastic base. On information and belief, the row identified by the arrow corresponds to the second pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

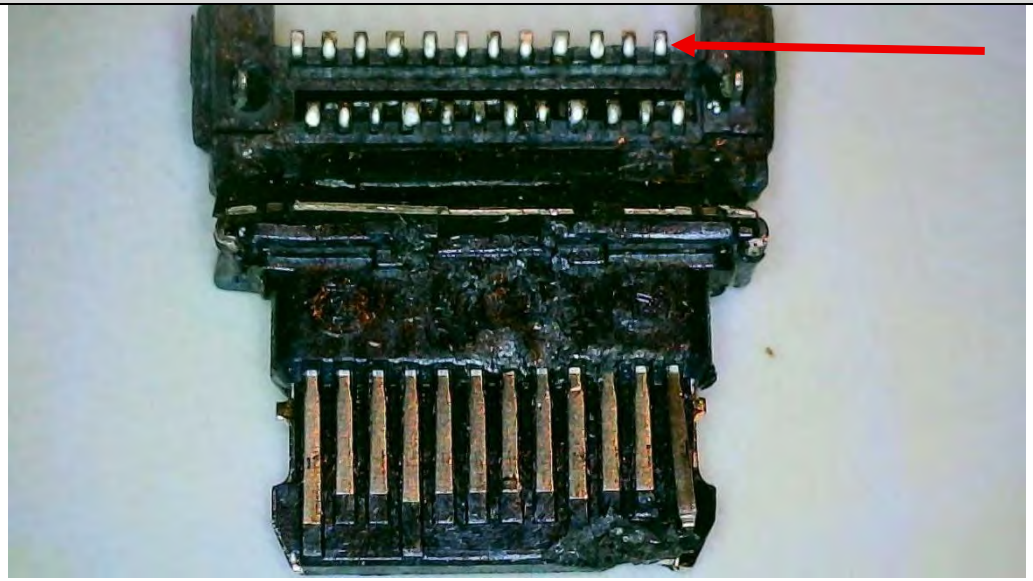
Claim 131 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

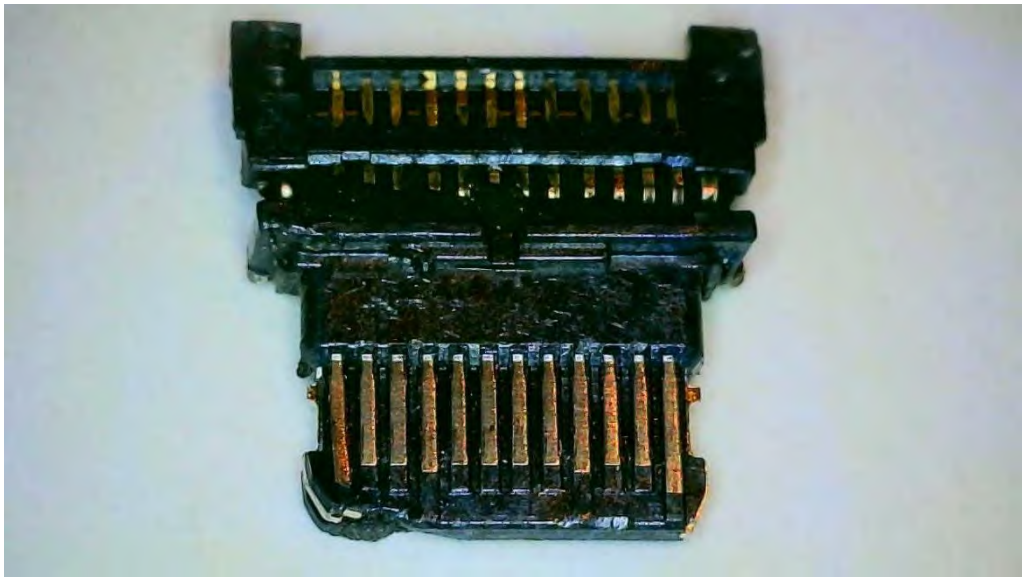
Claim 131 of the '307 Patent	**Evidence of Infringement**
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables). In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**]
[**131I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

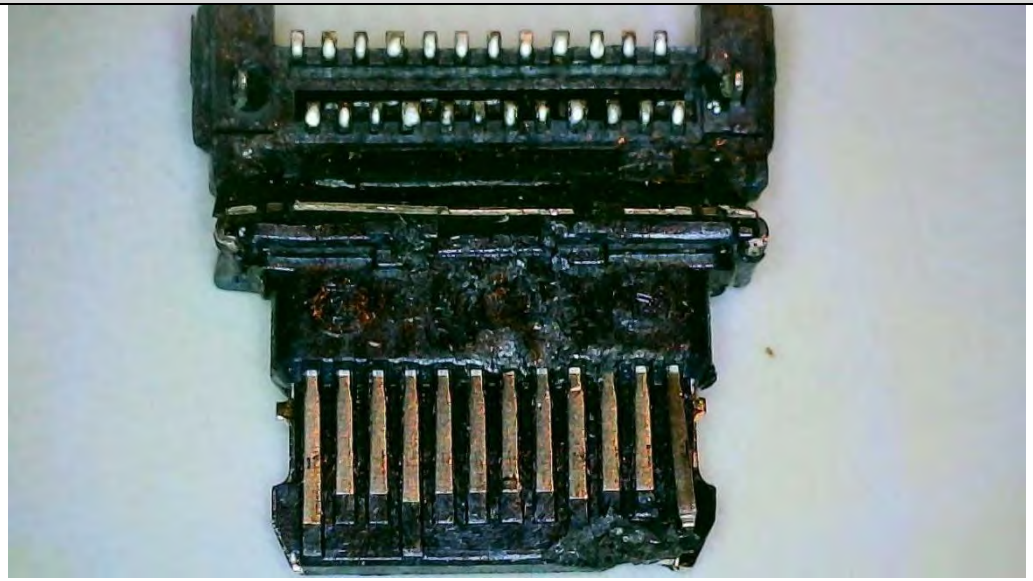
Claim 131 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

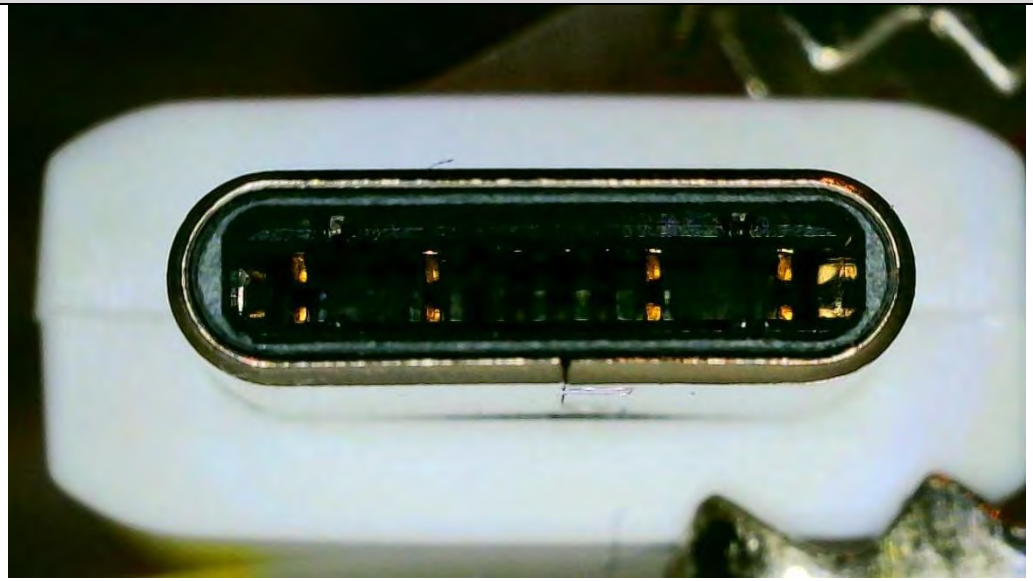
Claim 131 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**131J**] the at least one row of first contacts has	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

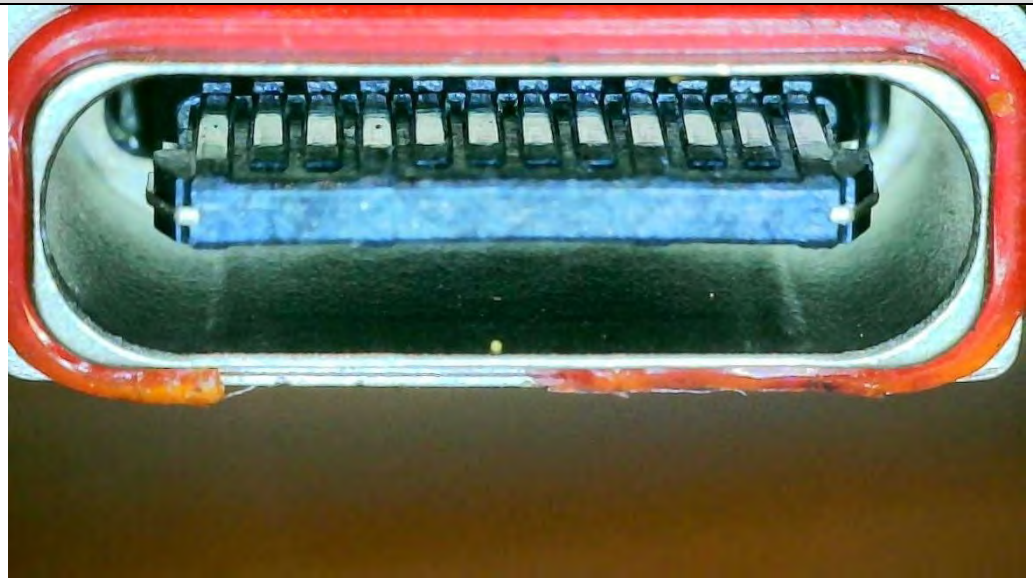
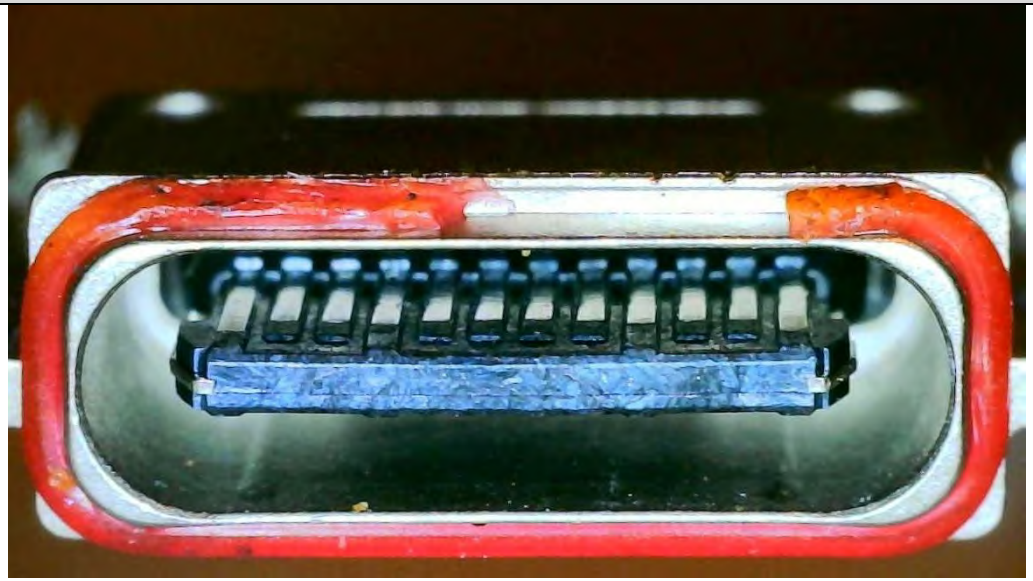
Claim 131 of the '307 Patent	**Evidence of Infringement**
a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured such that:	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Claim 131 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**]

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

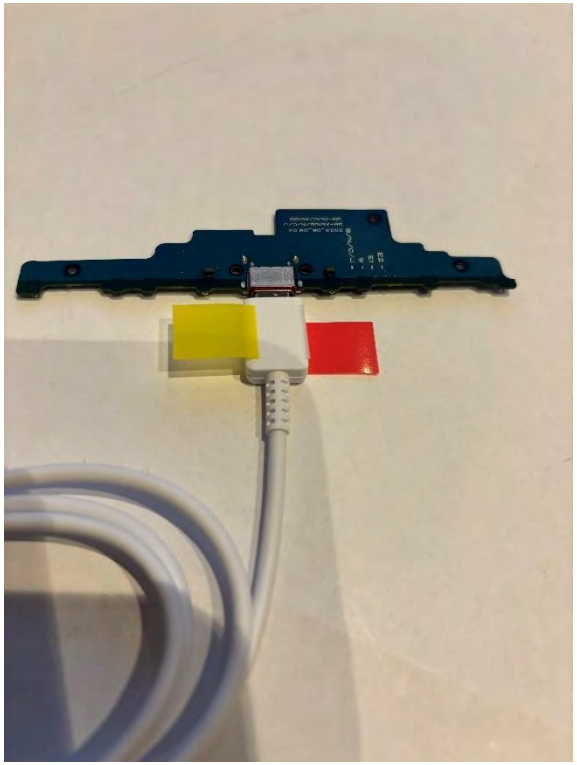
Claim 131 of the '307 Patent	**Evidence of Infringement**
	The socket structure is thereby configured as described below in connection with elements [**131K**] through [**131L**].
[**131K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

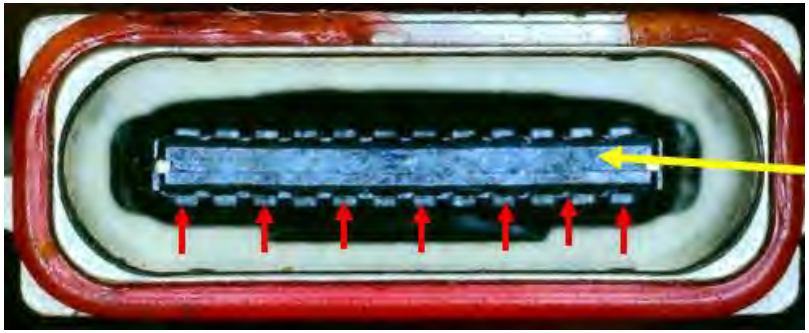
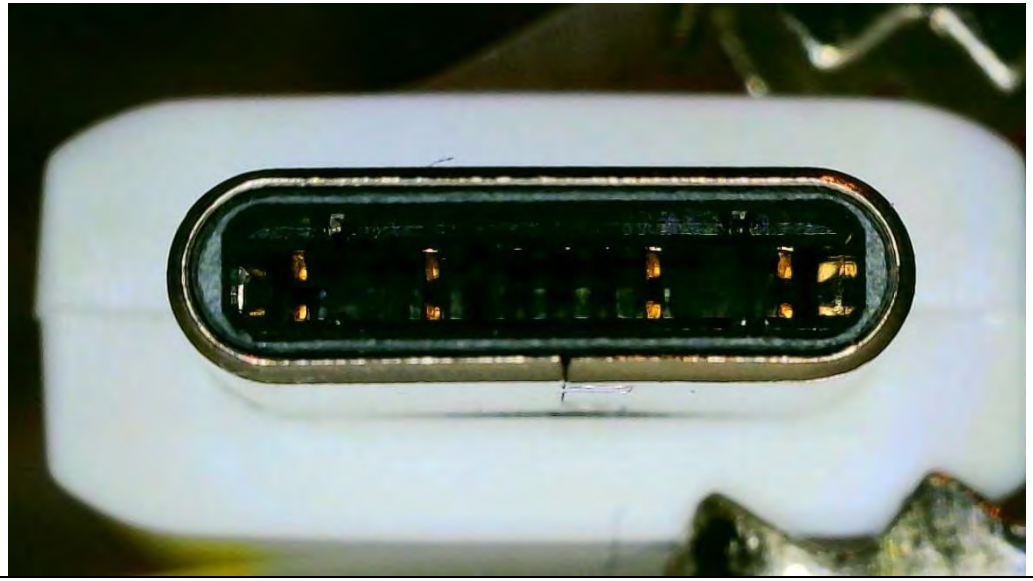
Claim 131 of the '307 Patent	Evidence of Infringement
contacts; and	connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the second surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.  

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

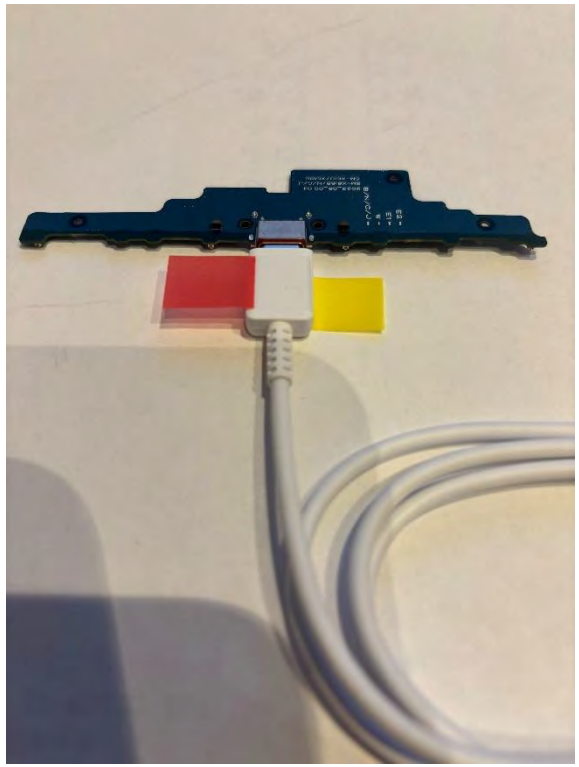
Claim 131 of the '307 Patent	**Evidence of Infringement**
	(Image of USB-C plug showing top and bottom rows of connection terminals) *See also* Element [**34K**]
[**131L**] when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least	The Samsung Galaxy Tab S9 FE Plus is further configured for a second operational state when the USB-C plug is oppositely inserted into the communication slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

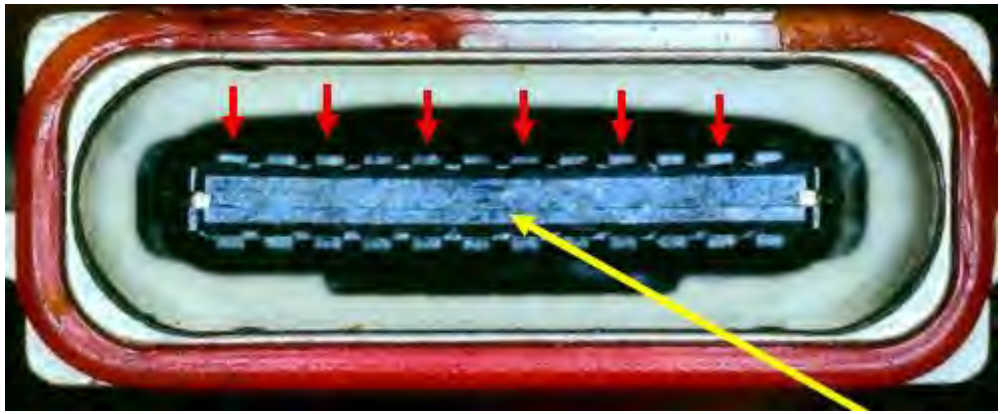
Claim 131 of the '307 Patent	**Evidence of Infringement**
one row of first contacts.	When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the red flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.  *See also* Element [**34M**]

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	**Evidence of Infringement**
[**132A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Galaxy Tab S9 FE Plus is a tablet that includes a socket structure with duplex electrical connection. In particular, the Galaxy Tab S9 FE Plus provides duplex electrical connection via a USB port.  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	The USB port is a USB Type-C port. **USB** USB 2.0 **Earjack** USB Type-C https://web.archive.org/web/20250311143051/https://www.samsung.com/us/tablets/galaxy-tab-s9-fe/buy/galaxy-tab-s9-fe-plus-128gb-gray-wi-fi-sm-x610nzaaxar/ (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement

Devices that use USB Type C

- **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6
- **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra
- **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G
- **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71
- **Galaxy XCover phones:** Galaxy XCover6 Pro
- **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+
- **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022)

See https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C to USB-C cable.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

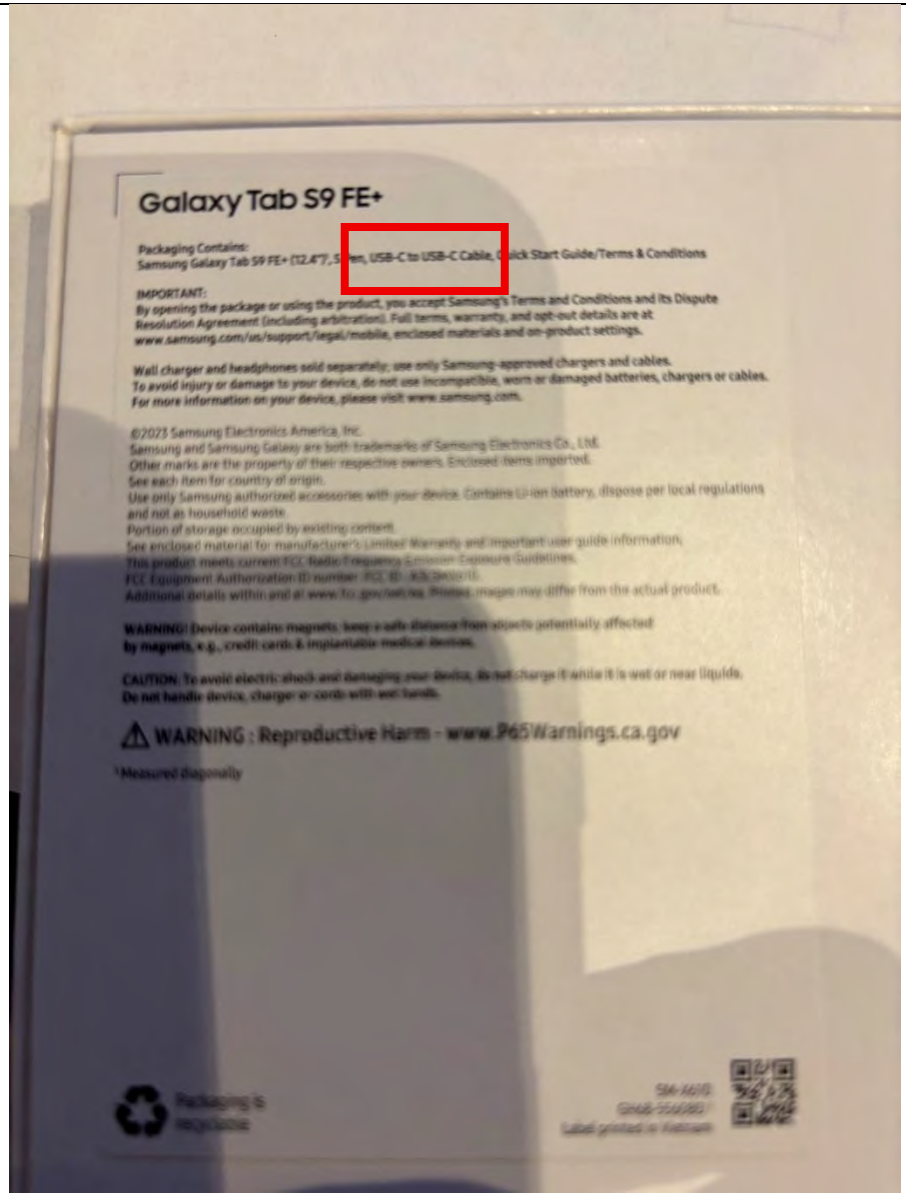


EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

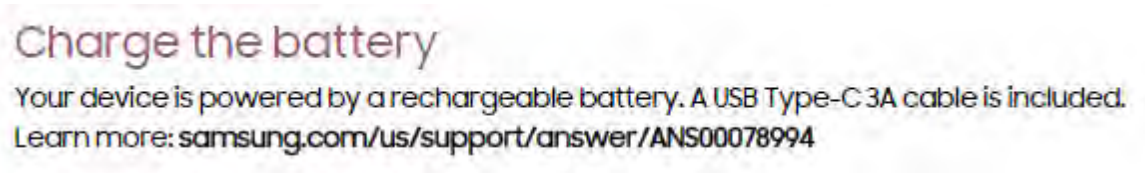
Claim 132 of the '307 Patent	Evidence of Infringement
	(Image of device packaging.)  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable included in packaging.) *See also* Element [**34A**] Further details regarding the socket structure are described below in connection with elements [**132B**] through [**132L**].
[**132B**] a plastic base;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

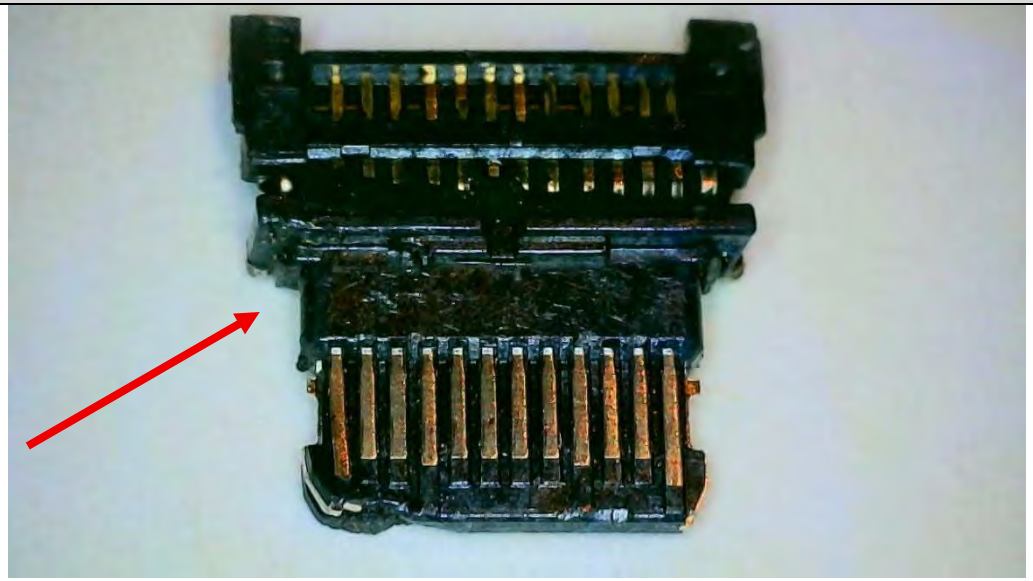
Claim 132 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

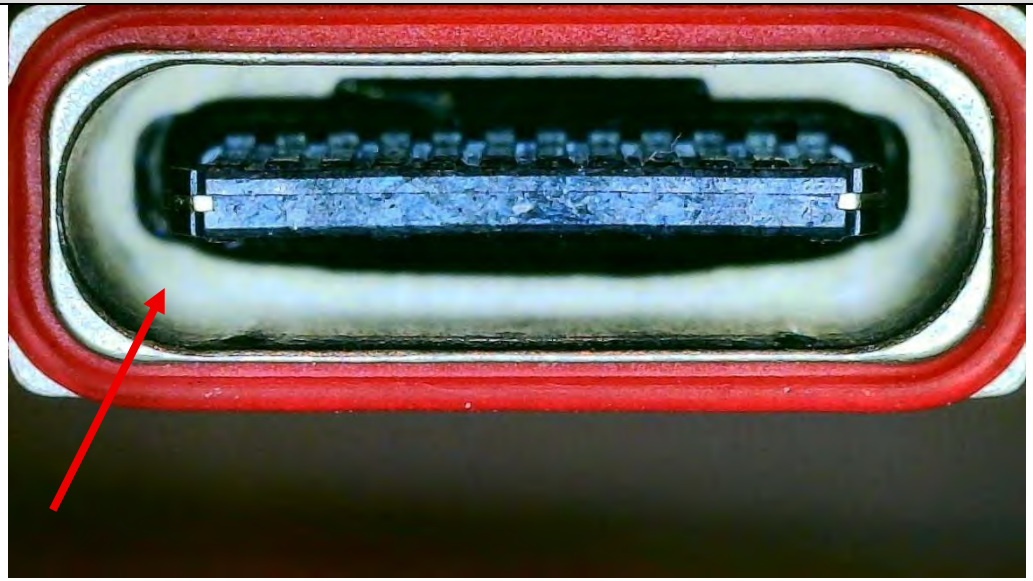
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34B**]
[**132C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

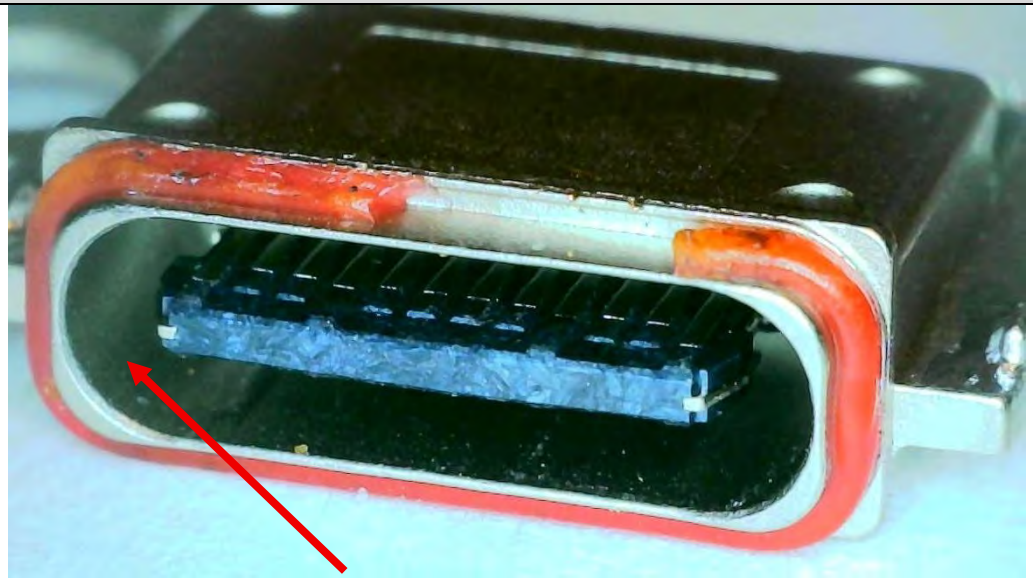
Claim 132 of the '307 Patent	**Evidence of Infringement**
a plug having at least one row of connection terminals;	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

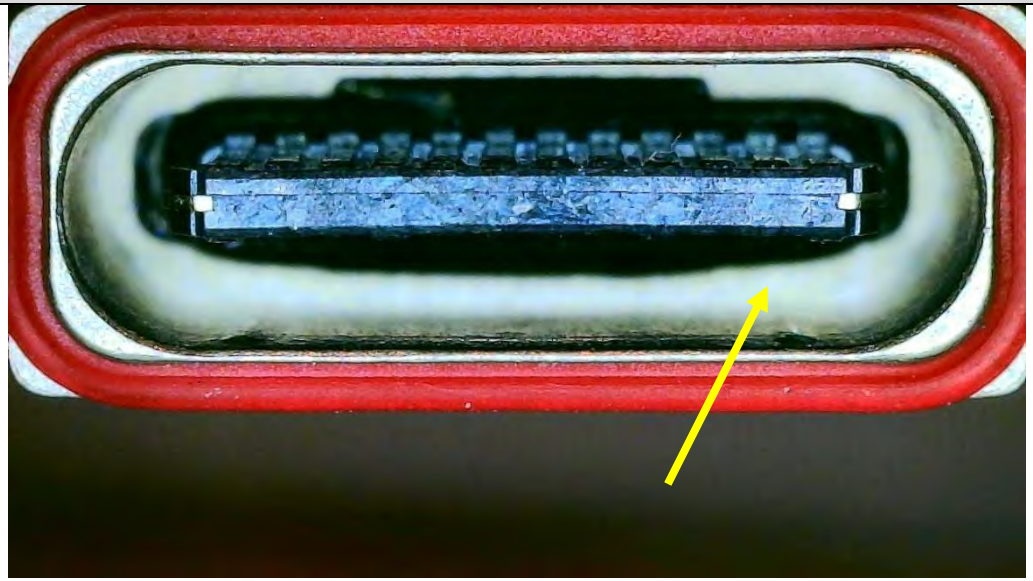
Claim 132 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung Galaxy Tab S9 FE Plus, as described above in connection with element [**34A**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

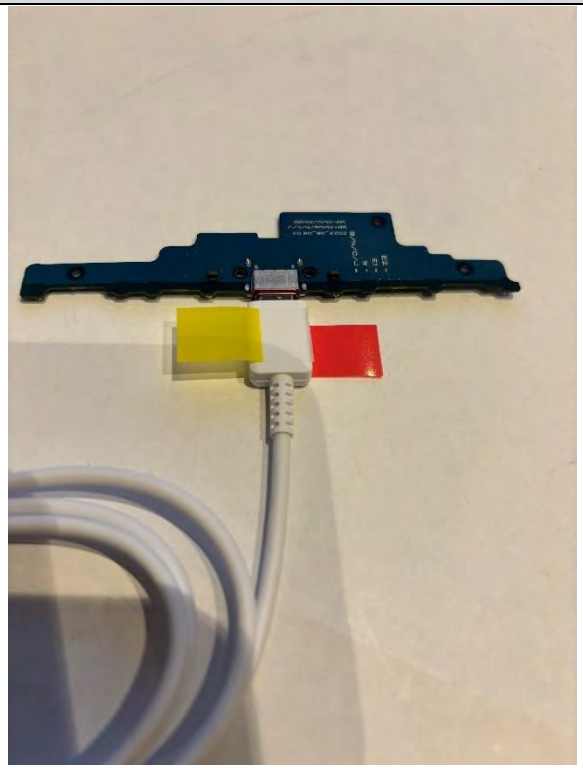
Claim 132 of the '307 Patent	Evidence of Infringement
	 USB-C cables include a plug with at least one row of connection terminals.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

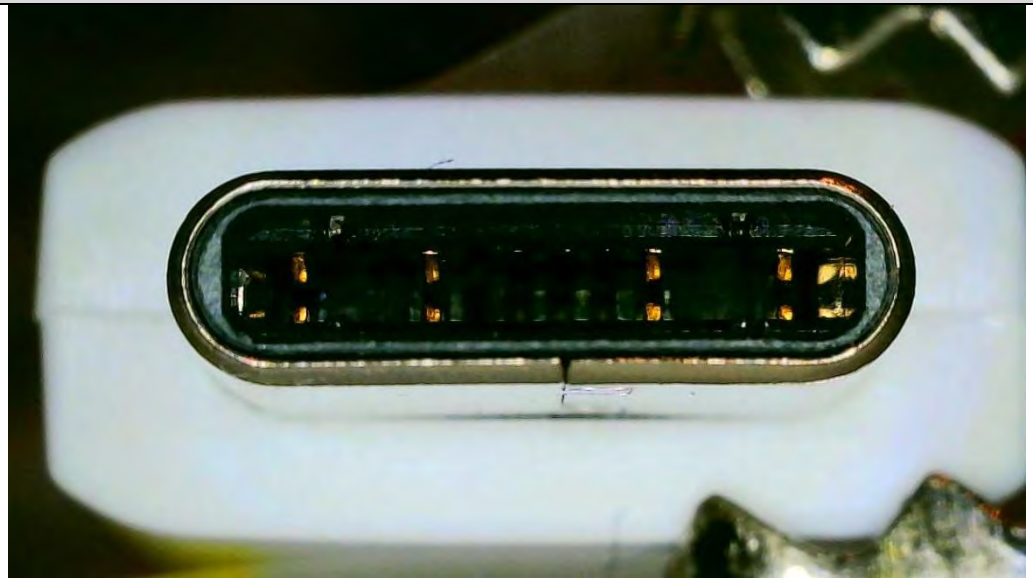
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**]
[**132D**] a tongue, which has a top side with a first surface with grooves, and a bottom side with a	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

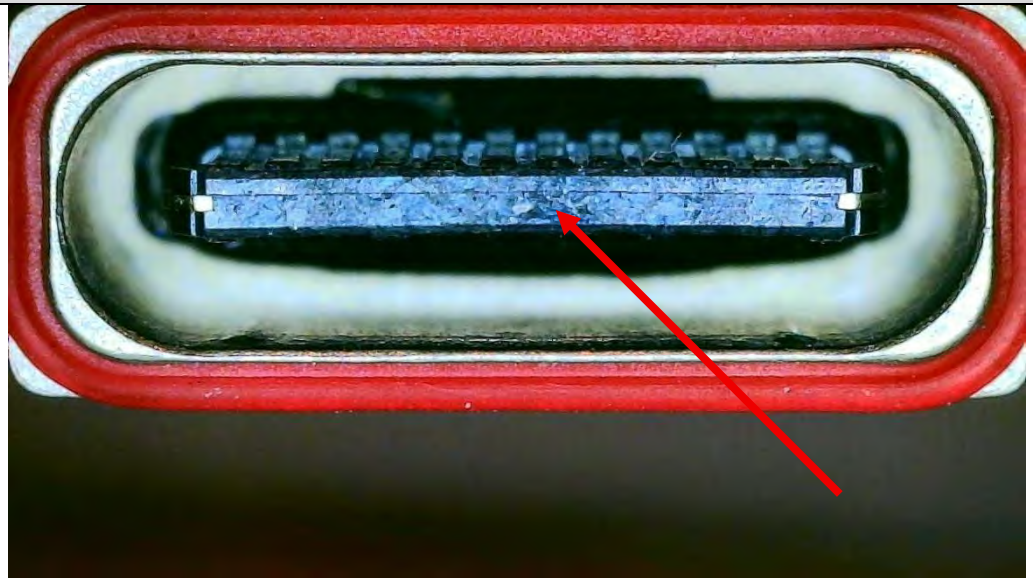
Claim 132 of the '307 Patent	**Evidence of Infringement**
second surface with grooves, the second surface disposed opposite the first surface,	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

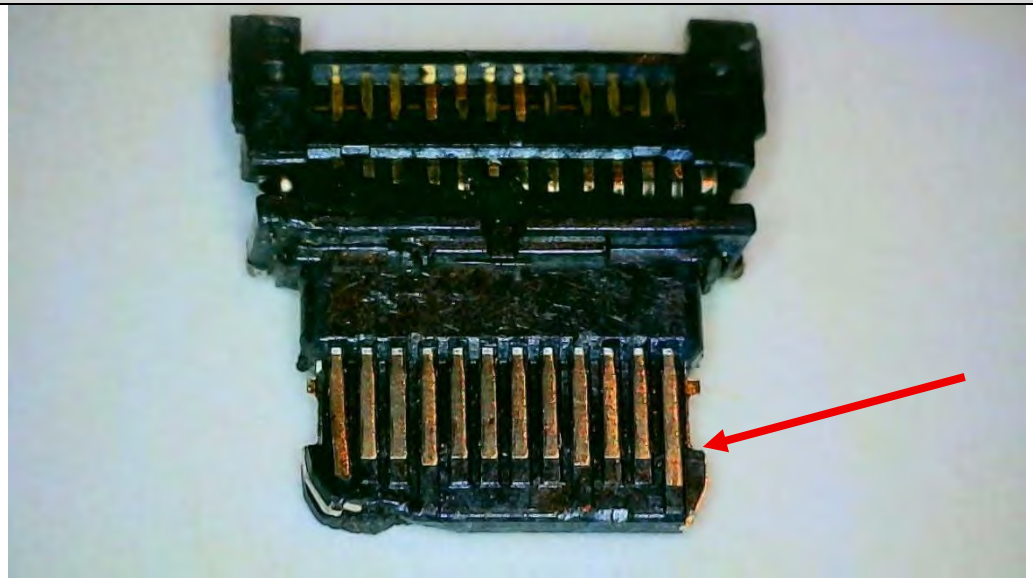
Claim 132 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

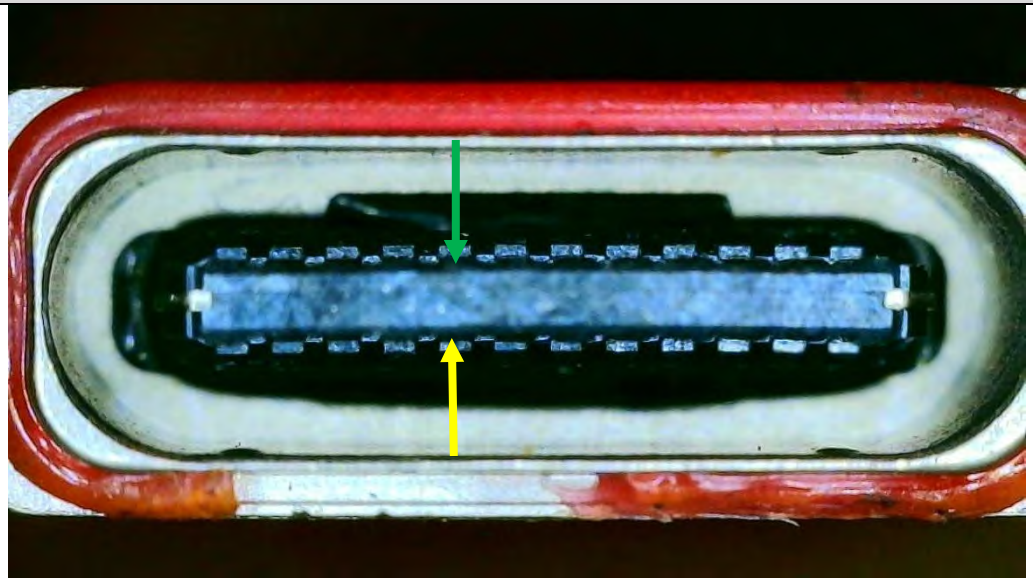
Claim 132 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

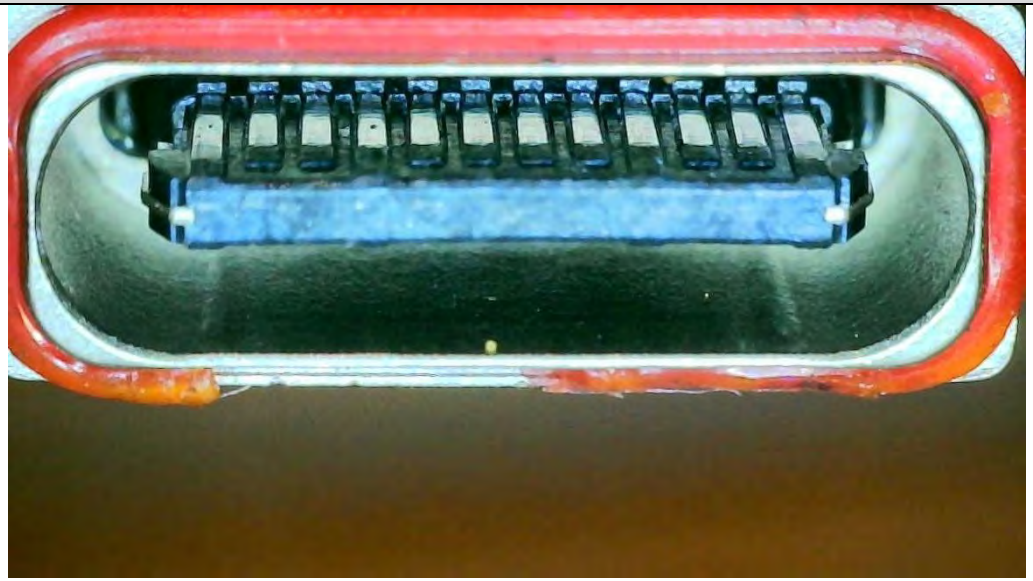
Claim 132 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

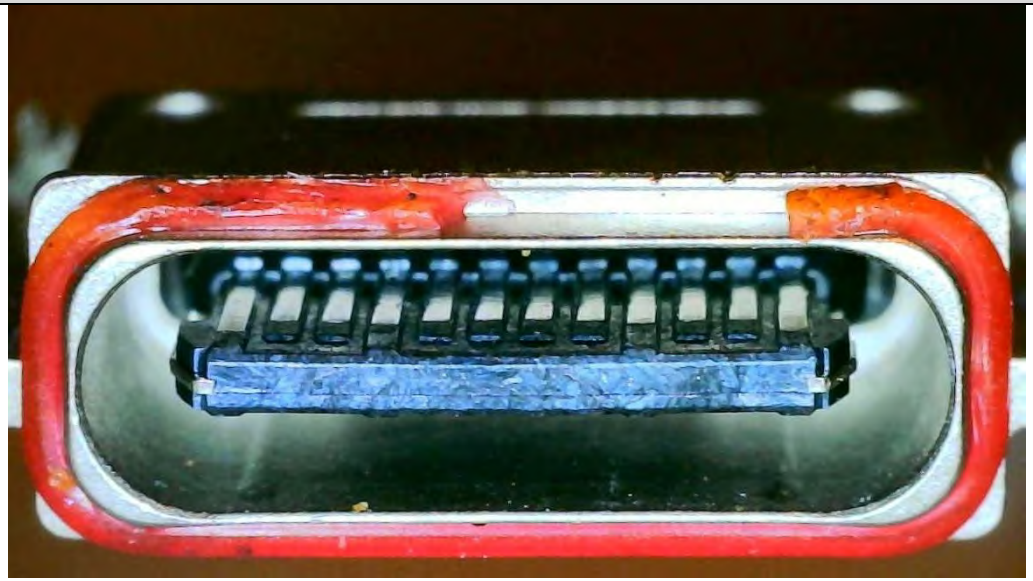
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponding to the side with the second surface as described in element [**34D**].
[**132E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that	The tongue of the Samsung Galaxy Tab S9 FE Plus (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

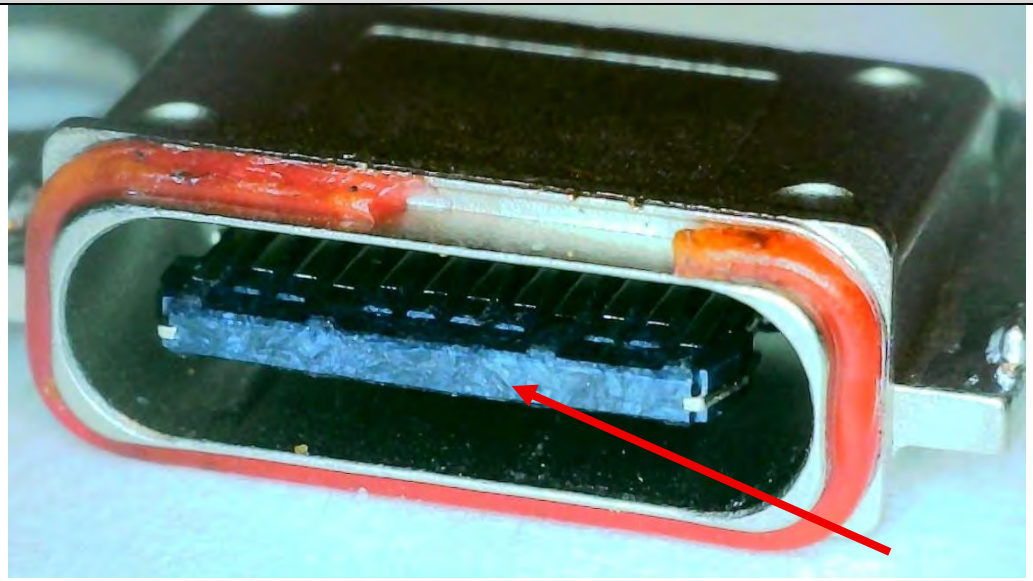
Claim 132 of the '307 Patent	Evidence of Infringement
chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The tongue is located on one end of the plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

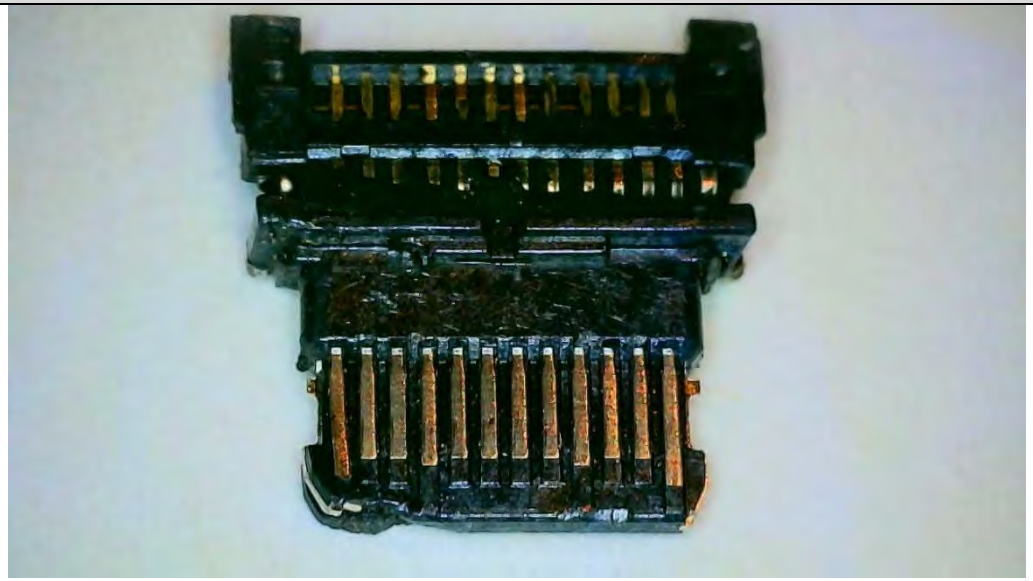
Claim 132 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by the yellow arrow)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

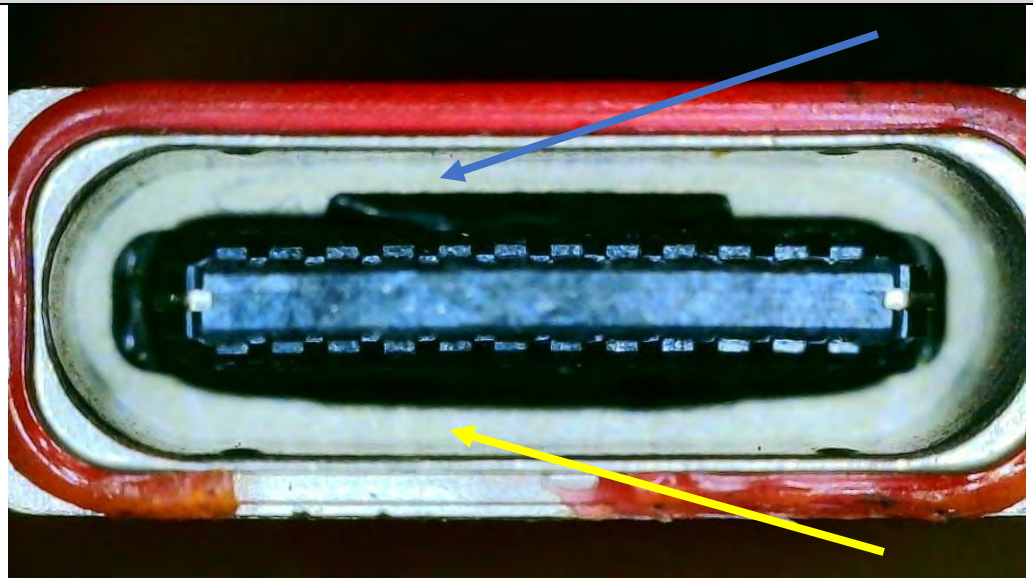
Claim 132 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

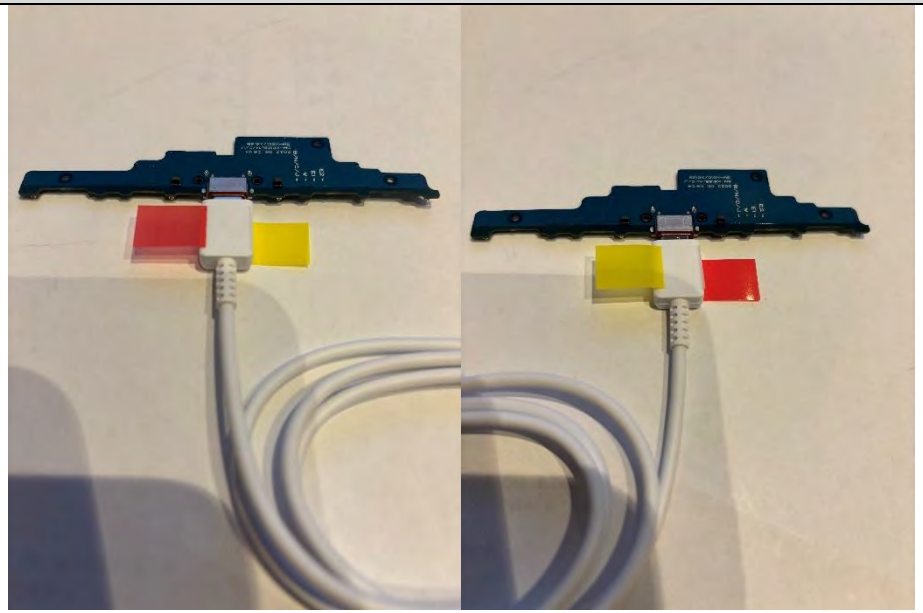
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 The red and yellow flags are attached to the same side of the plug in both images, showing that the plug can be connected to the socket structure of the Samsung Galaxy Tab S9 FE Plus when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**]
[**132F**] at least one row of first contacts separately	The Samsung Galaxy Tab S9 FE Plus includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

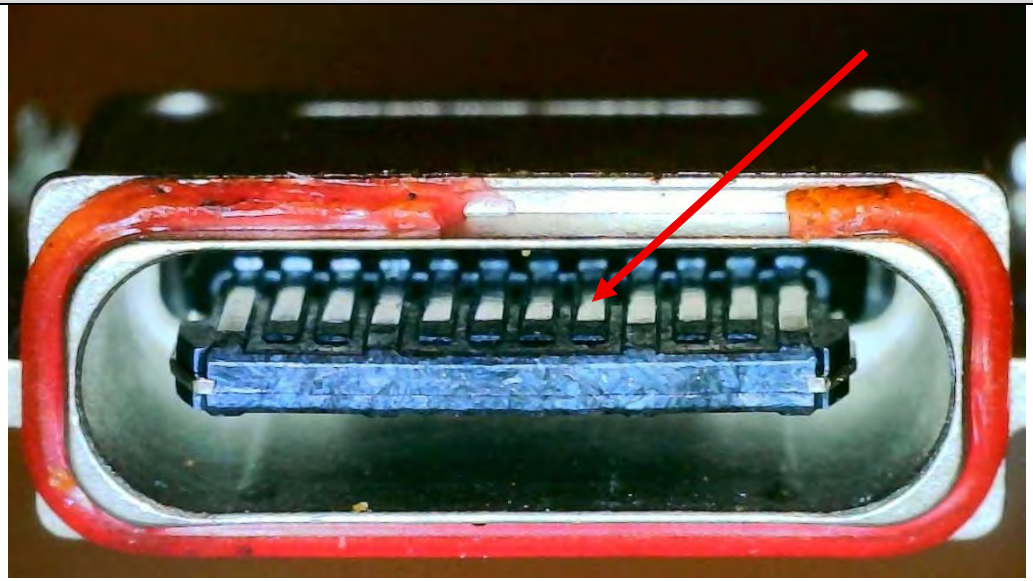
Claim 132 of the '307 Patent	**Evidence of Infringement**
arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a first pin extending out of the plastic base; and	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

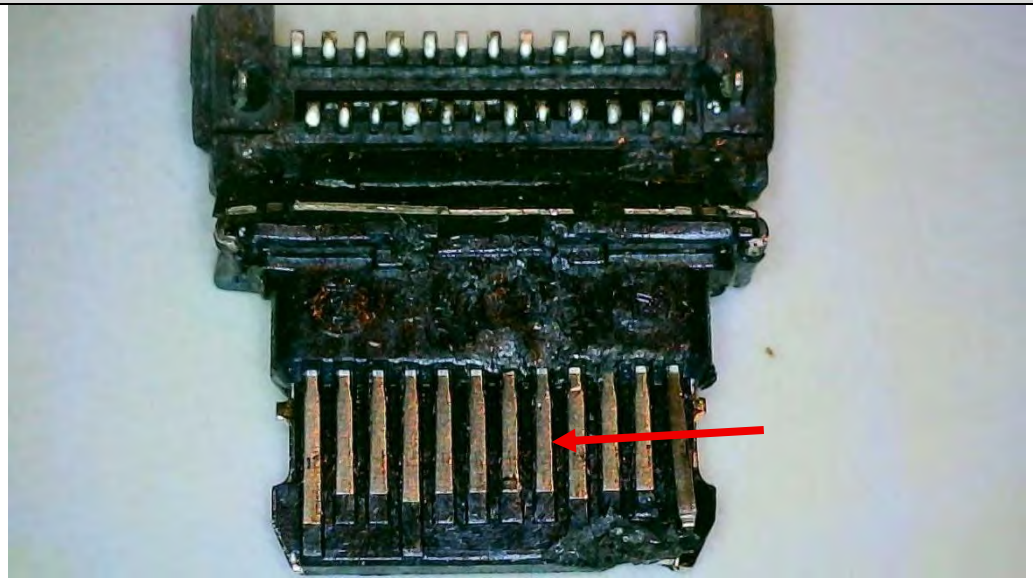
Claim 132 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image above, the Samsung Galaxy Tab S9 FE Plus further includes two rows of twelve pins extending out of the plastic base. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

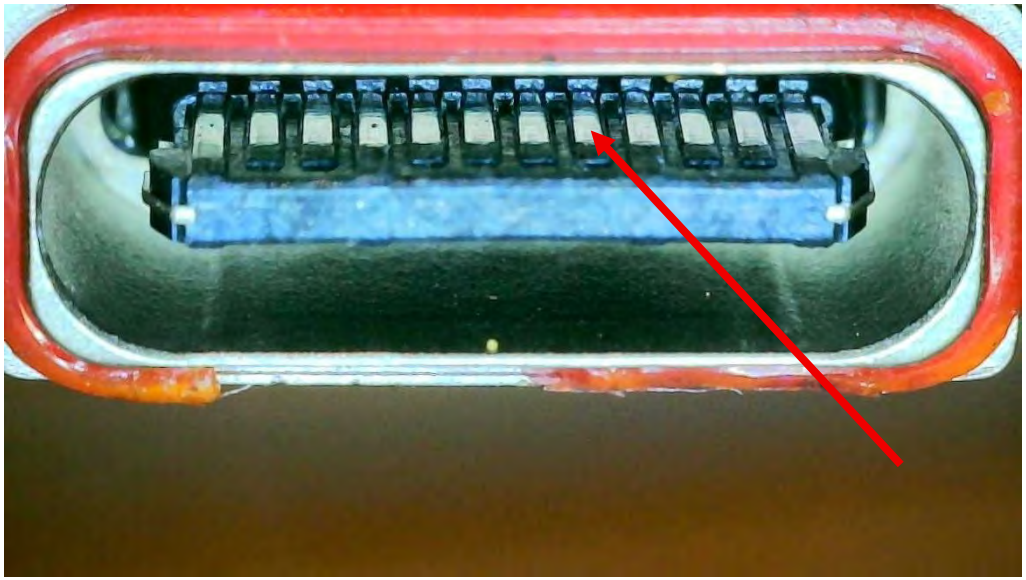
Claim 132 of the '307 Patent	**Evidence of Infringement**
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables). In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. *See also* Element [**34F**]
[**132G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung Galaxy Tab S9 FE Plus includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

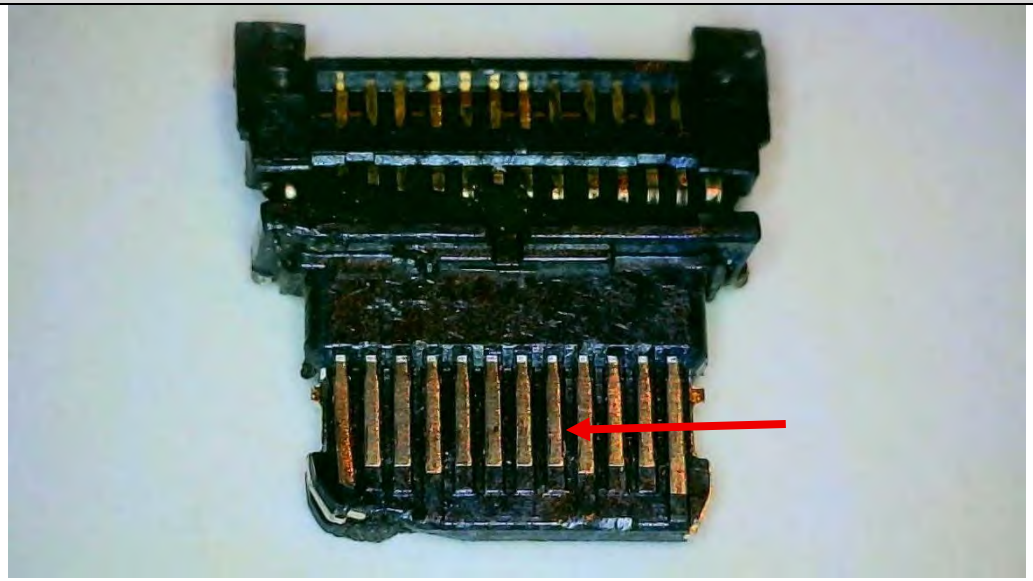
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Galaxy Tab S9 FE Plus) *See also* Element [**34G**]
[**132H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung Galaxy Tab S9 FE Plus includes two rows of twelve pins extending out of the plastic base. On information and belief, the row identified by the arrow corresponds to the second pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

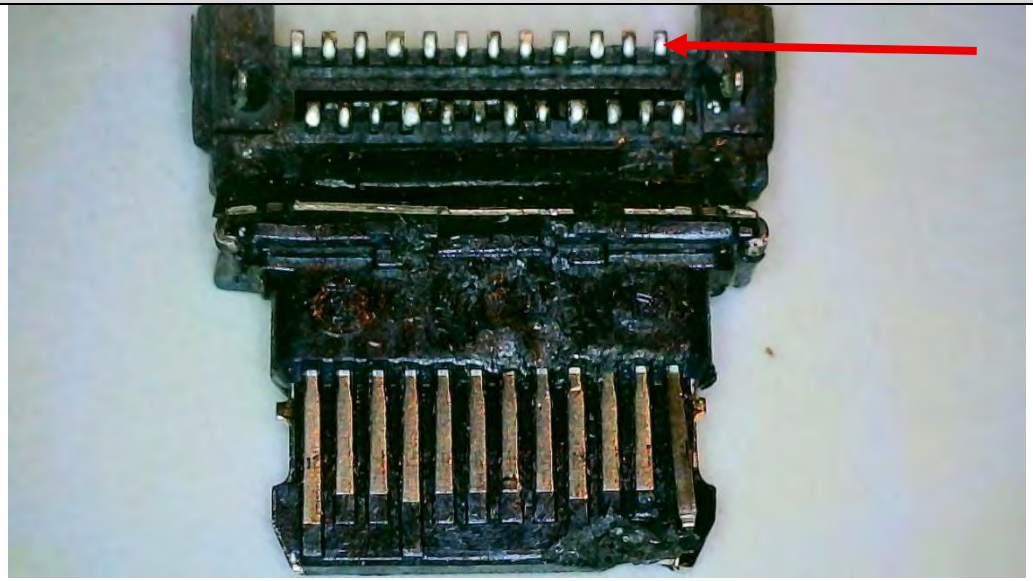
Claim 132 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

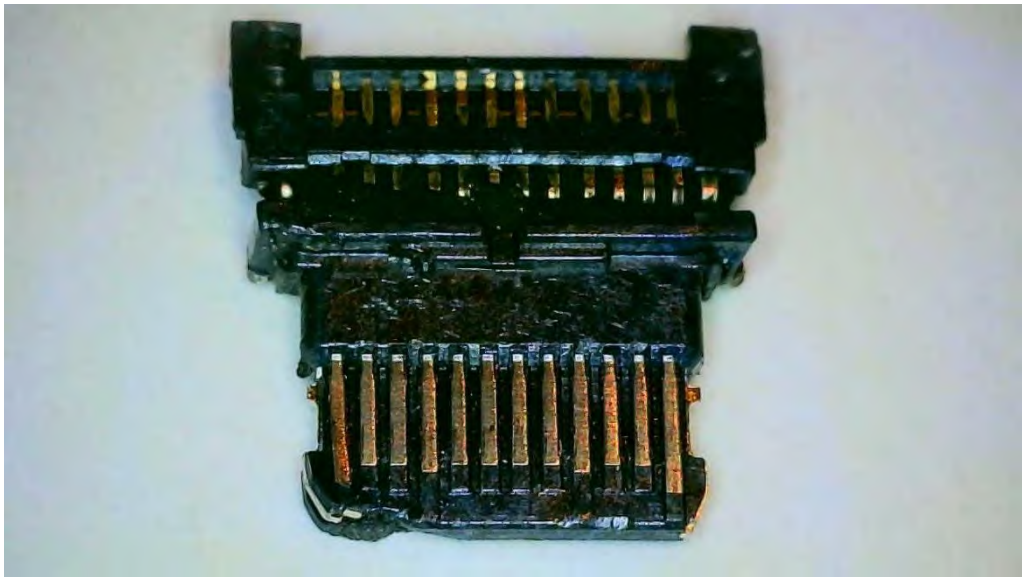
Claim 132 of the '307 Patent	**Evidence of Infringement**
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables). In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**]
[**132I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

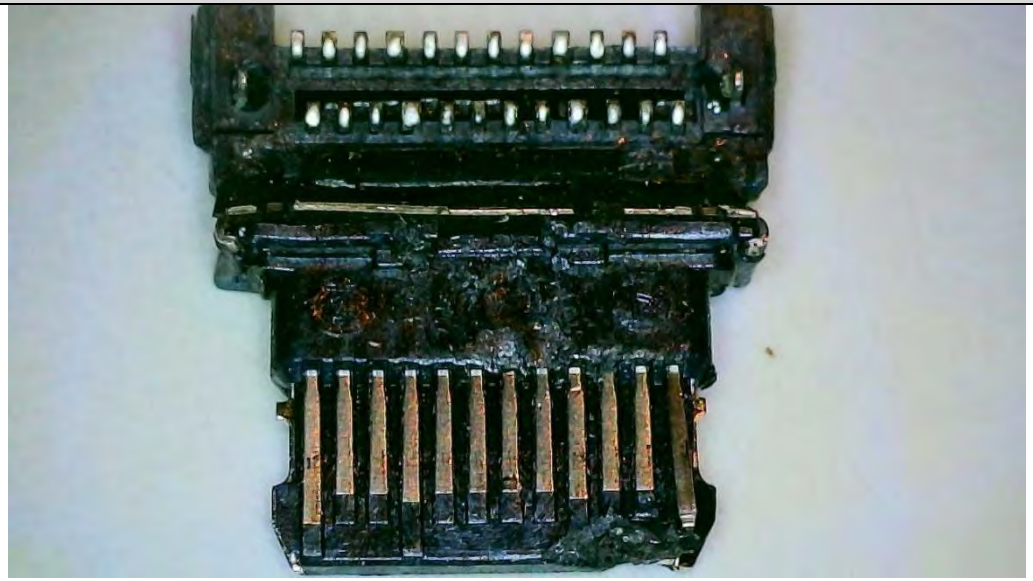
Claim 132 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

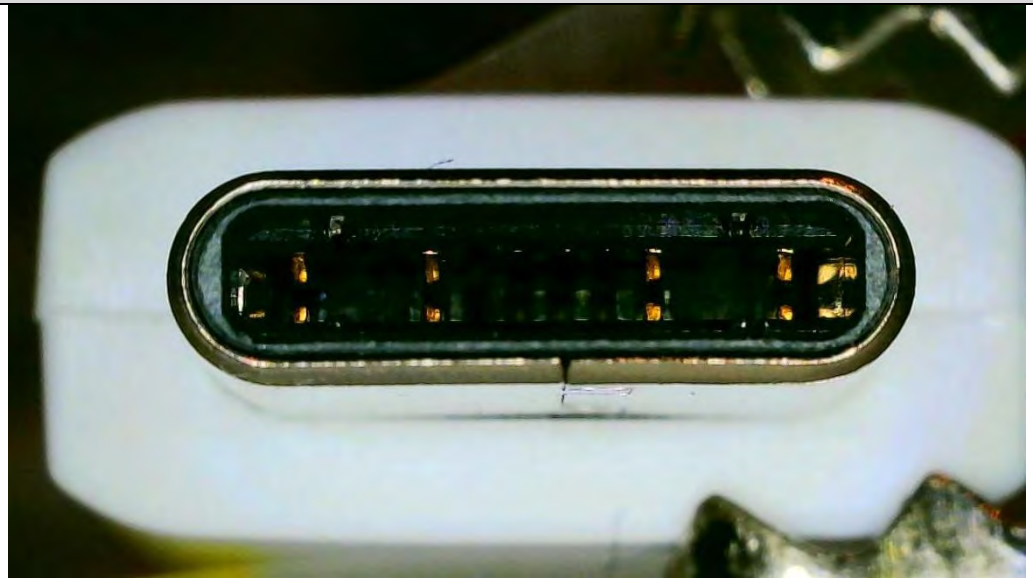
Claim 132 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**132J**] the at least one row of first contacts has	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

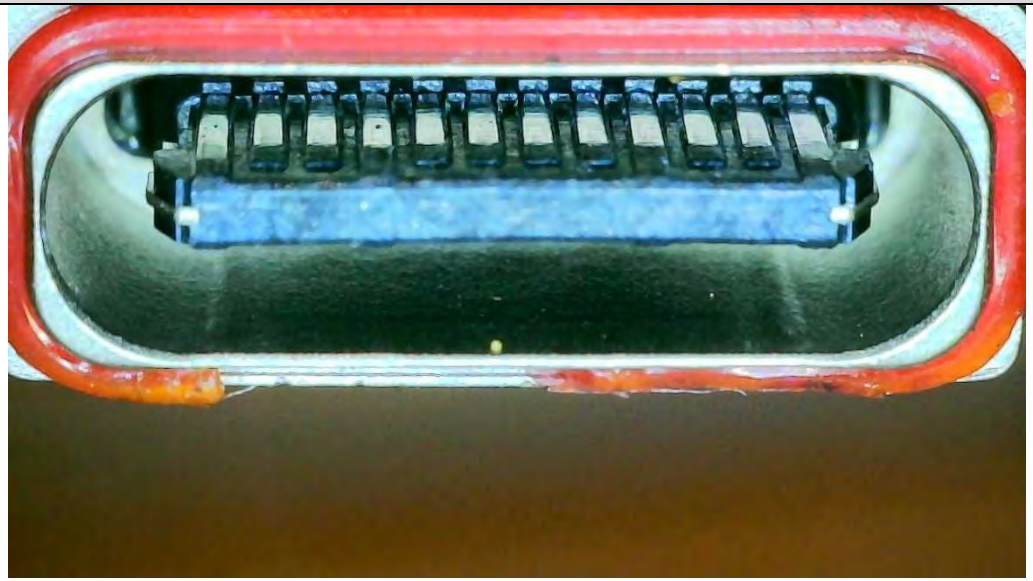
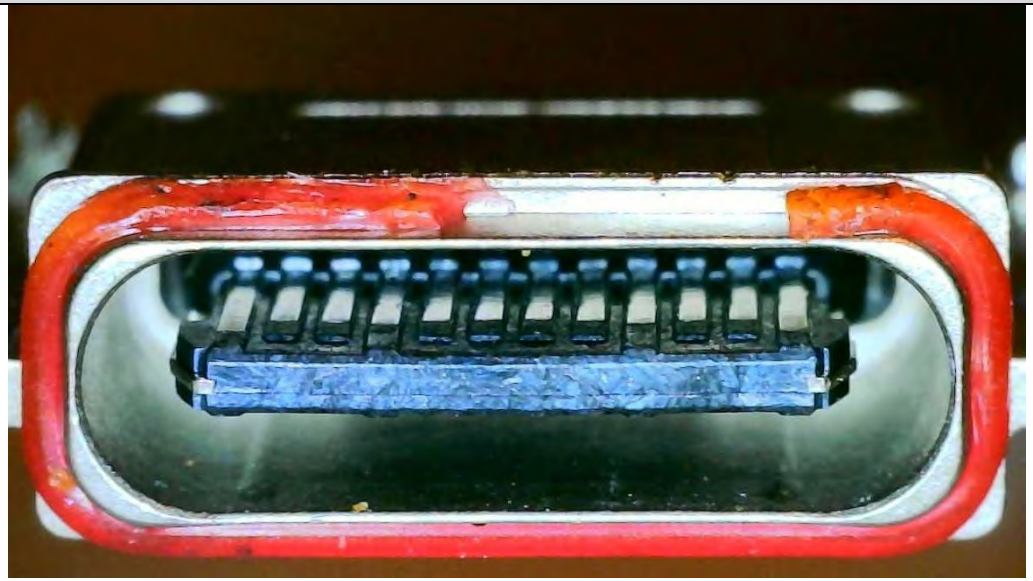
Claim 132 of the '307 Patent	**Evidence of Infringement**
a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for reversable connection such that:	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Claim 132 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**]

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

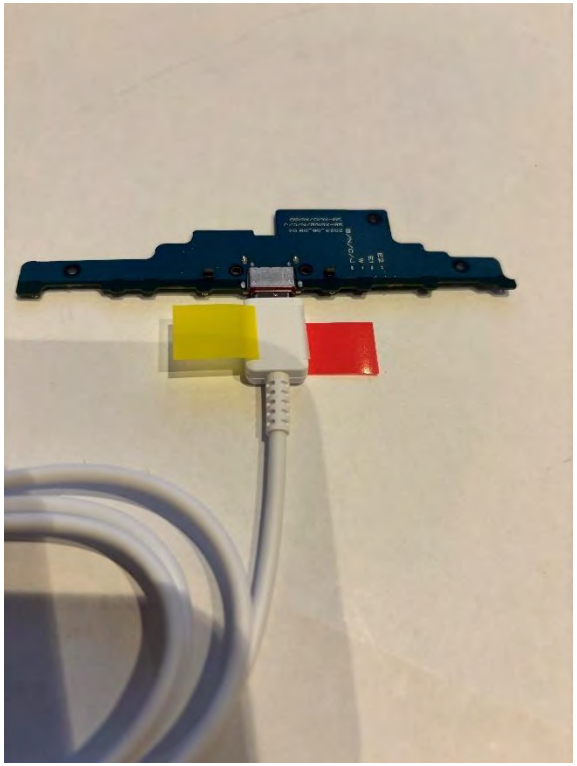
Claim 132 of the '307 Patent	**Evidence of Infringement**
	The socket structure is thereby configured for reversable connection, as described below in connection with elements [**132K**] through [**132L**].
[**132K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state when a USB-C plug is normally inserted into the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

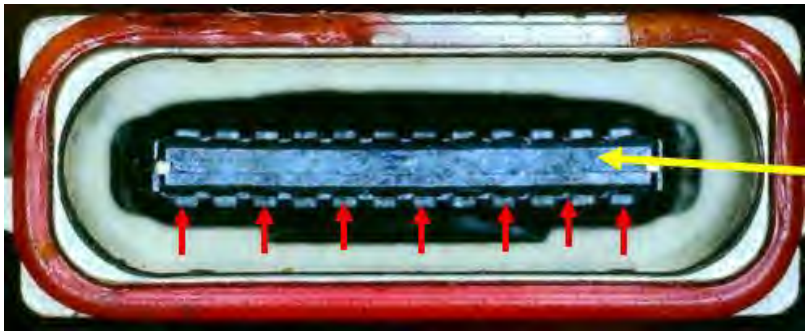
Claim 132 of the '307 Patent	Evidence of Infringement
second contacts; and	When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the second surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

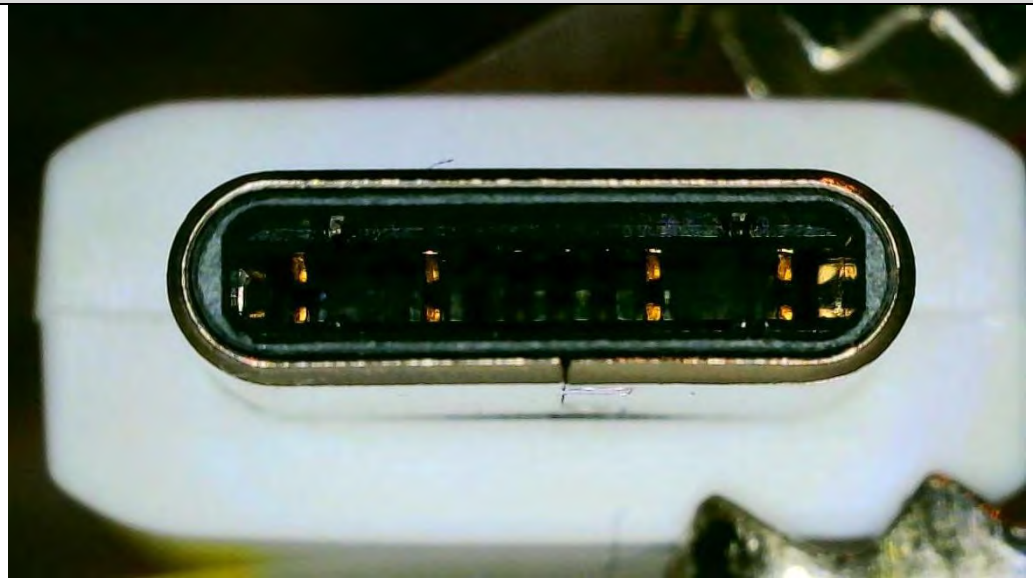
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C plug showing top and bottom rows of connection terminals) *See also* Element [**34K**]
[**132L**] when the plug is oppositely inserted into the connection slot with the at least one row of	The Samsung Galaxy Tab S9 FE Plus is further configured for a second operational state when the USB-C plug is oppositely inserted into the communication slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

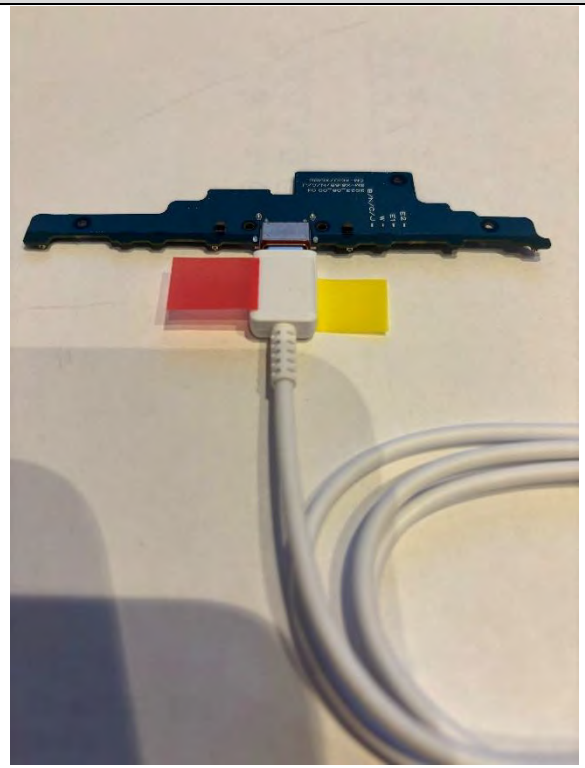
Claim 132 of the '307 Patent	Evidence of Infringement
connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the red flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

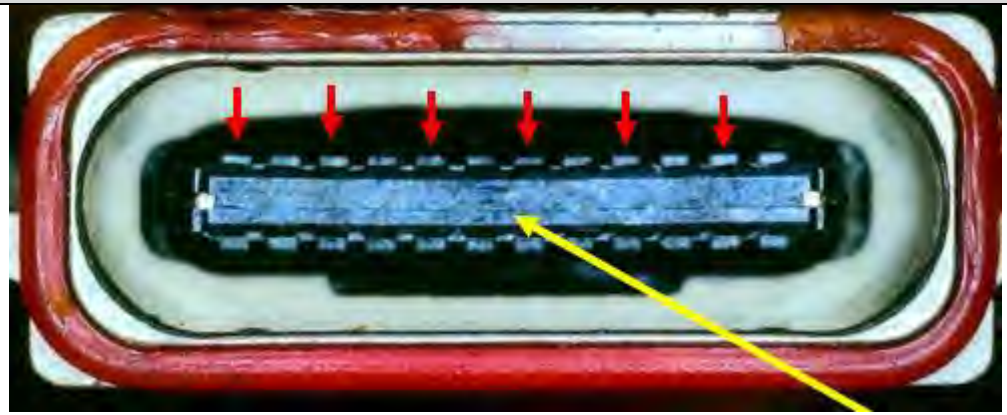
Claim 132 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**]

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	**Evidence of Infringement**
[**133A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Galaxy Tab S9 FE Plus is a tablet that includes a socket structure with duplex electrical connection. In particular, the Galaxy Tab S9 FE Plus provides duplex electrical connection via a USB port.  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	The USB port is a USB Type-C port. **USB** USB 2.0 **Earjack** USB Type-C https://web.archive.org/web/20250311143051/https://www.samsung.com/us/tablets/galaxy-tab-s9-fe/buy/galaxy-tab-s9-fe-plus-128gb-gray-wi-fi-sm-x610nzaaxar/ (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C to USB-C cable.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

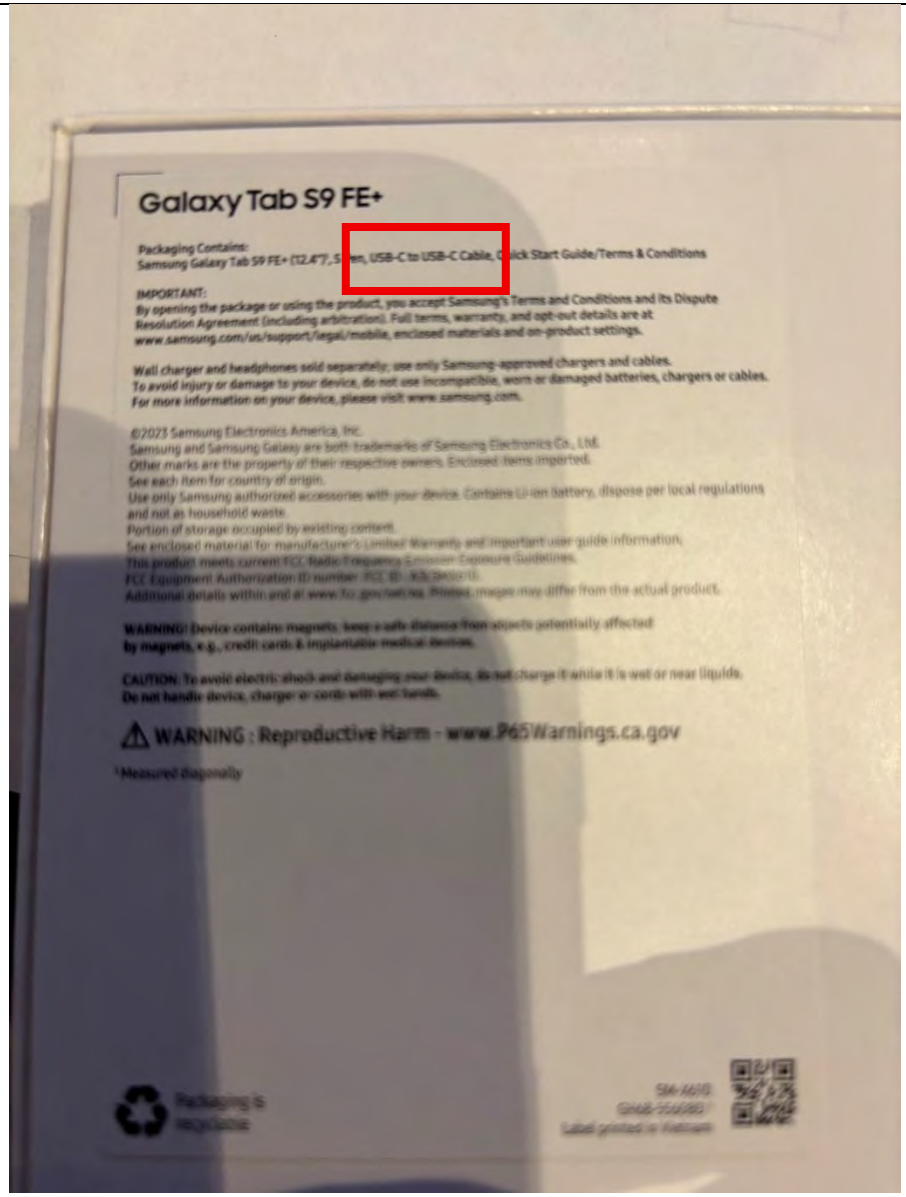


EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

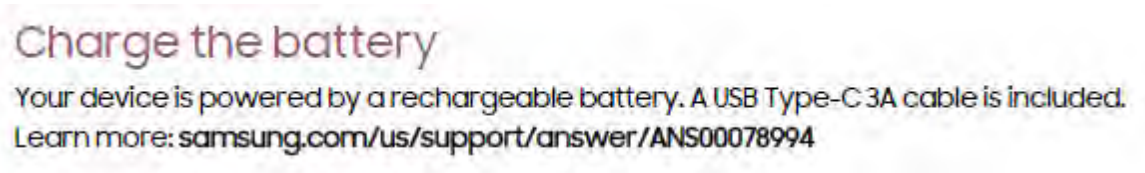
Claim 133 of the '307 Patent	Evidence of Infringement
	(Image of device packaging.)  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable included in packaging.) *See also* Element [**34A**] Further details regarding the socket structure are described below in connection with elements [**133B**] through [**133N**].
[**133B**] a plastic base;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

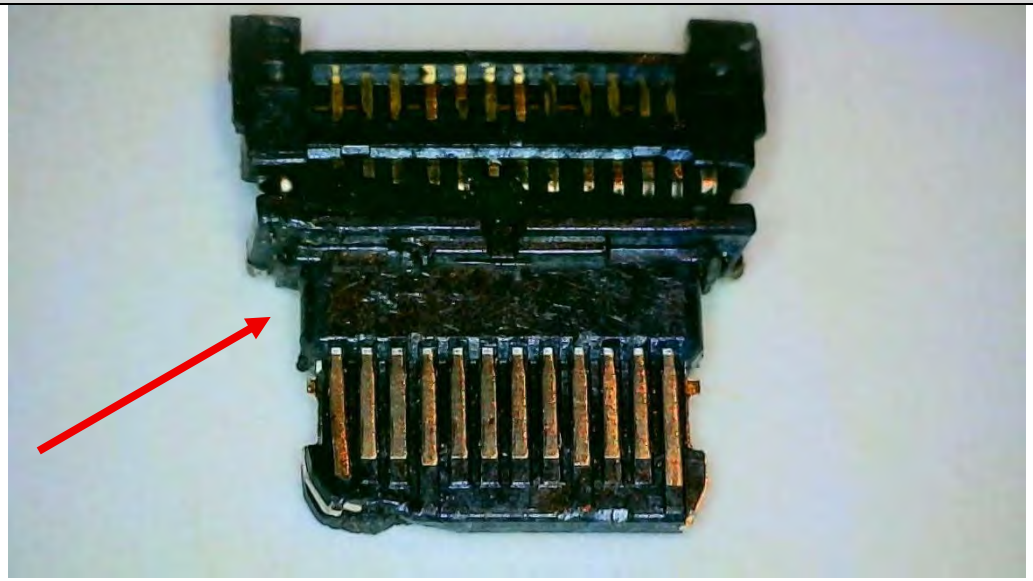
Claim 133 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

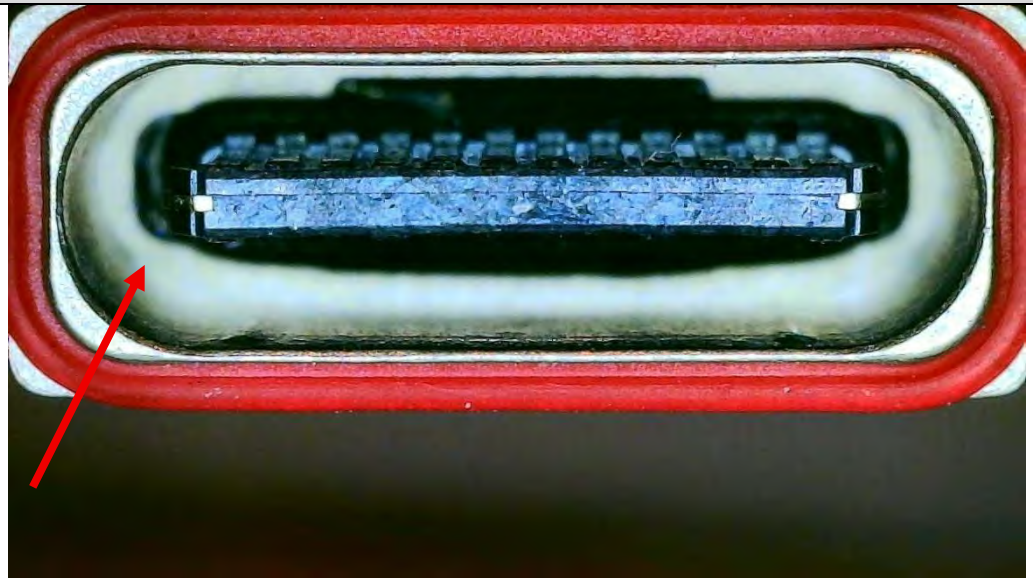
Claim 133 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34B**]
[**133C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

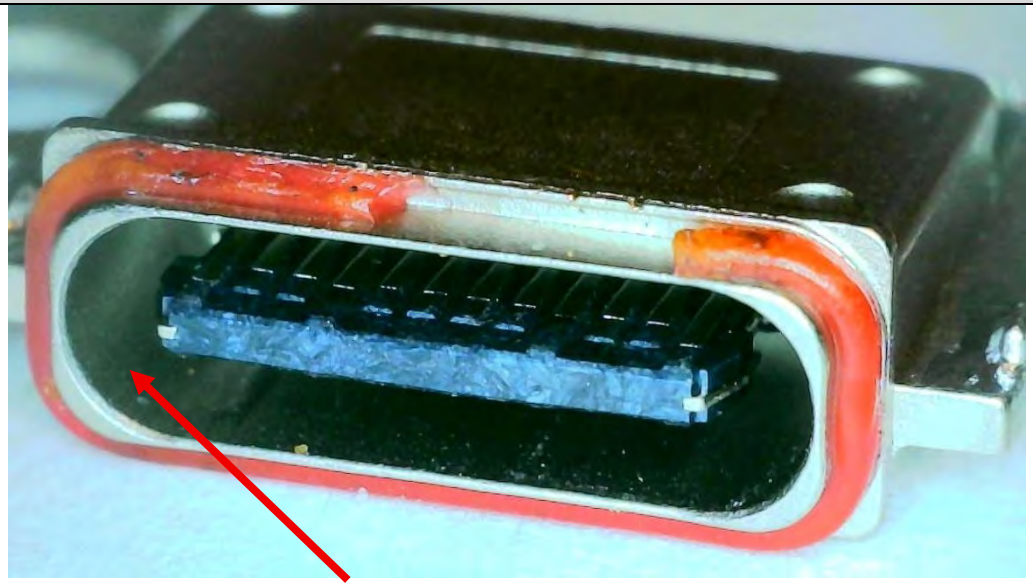
Claim 133 of the '307 Patent	**Evidence of Infringement**
a plug having at least one row of connection terminals;	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

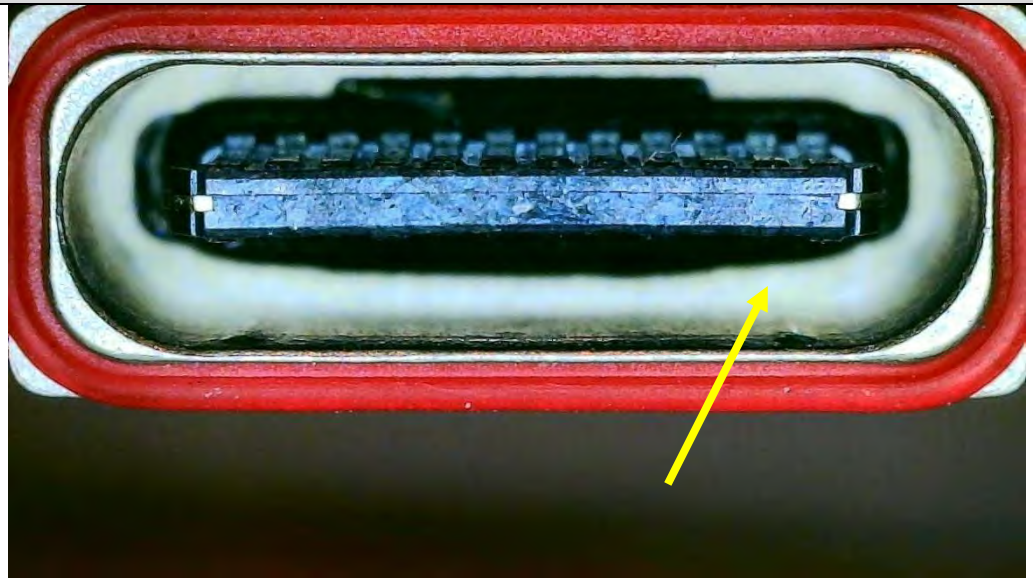
Claim 133 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung Galaxy Tab S9 FE Plus, as described above in connection with element [**34A**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

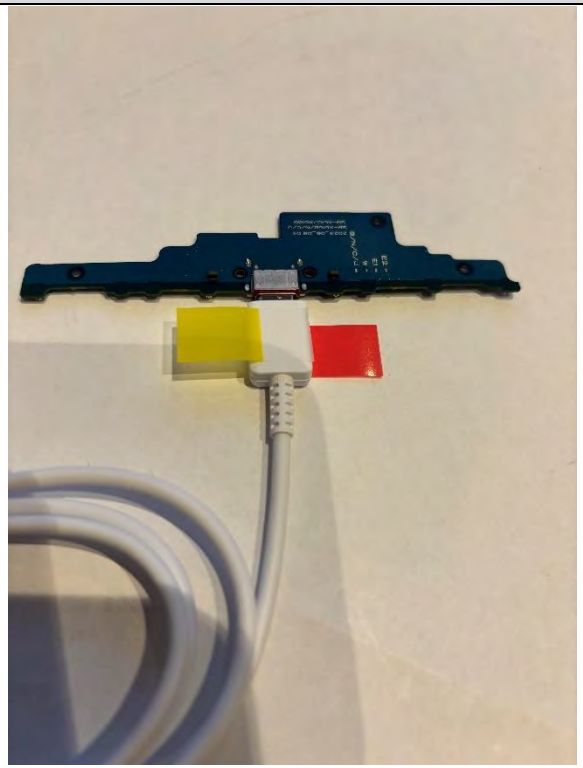
Claim 133 of the '307 Patent	Evidence of Infringement
	 USB-C cables include a plug with at least one row of connection terminals.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

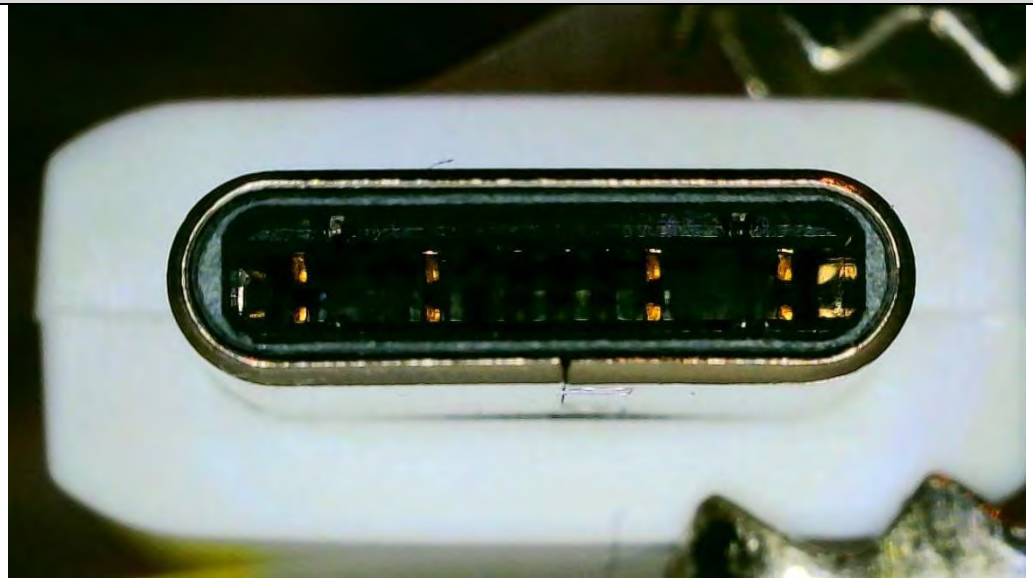
Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**]
[**133D**] a tongue, which has a first surface with recesses, and a second surface with recesses, the	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

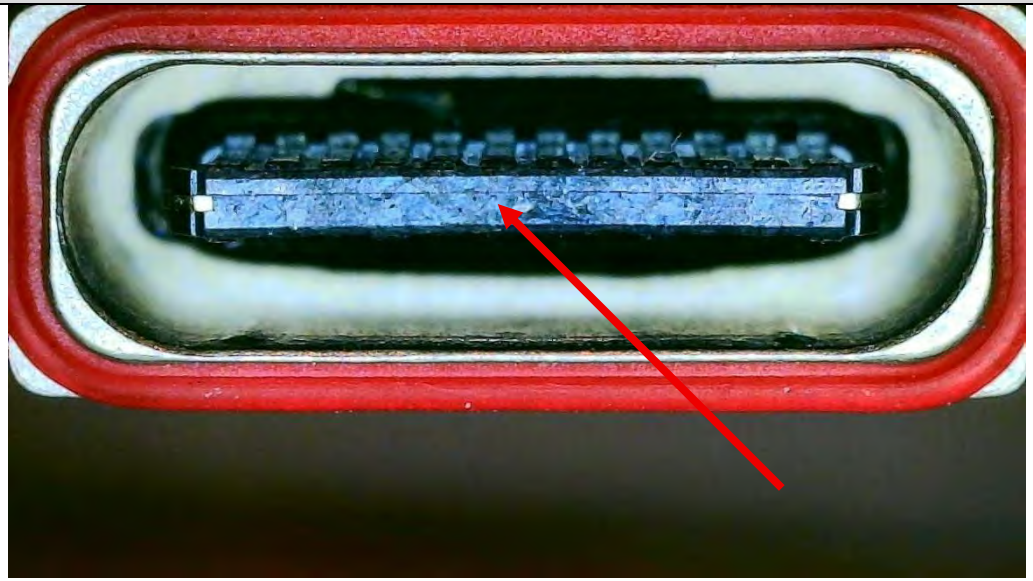
Claim 133 of the '307 Patent	**Evidence of Infringement**
second surface disposed opposite the first surface,	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

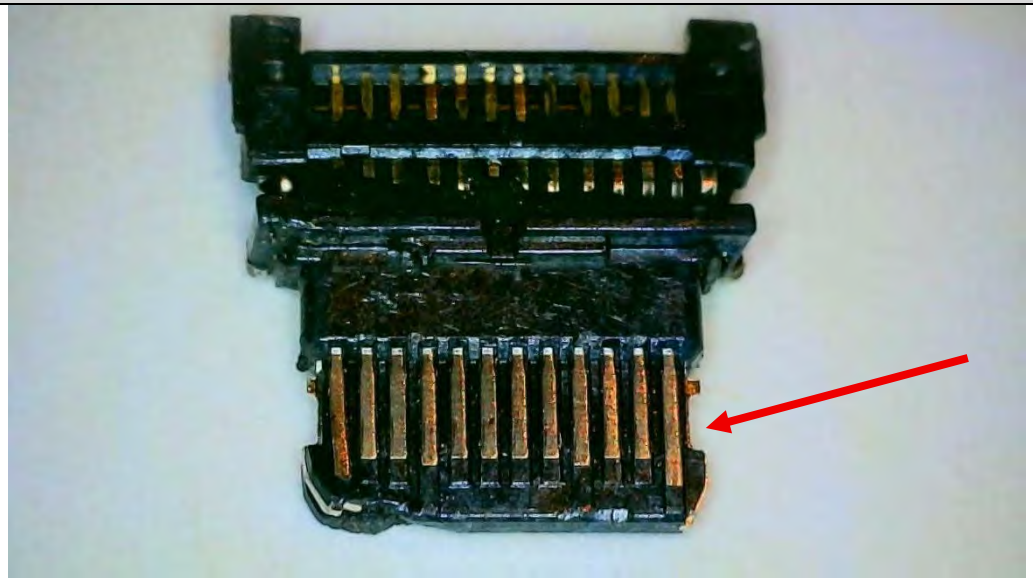
Claim 133 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

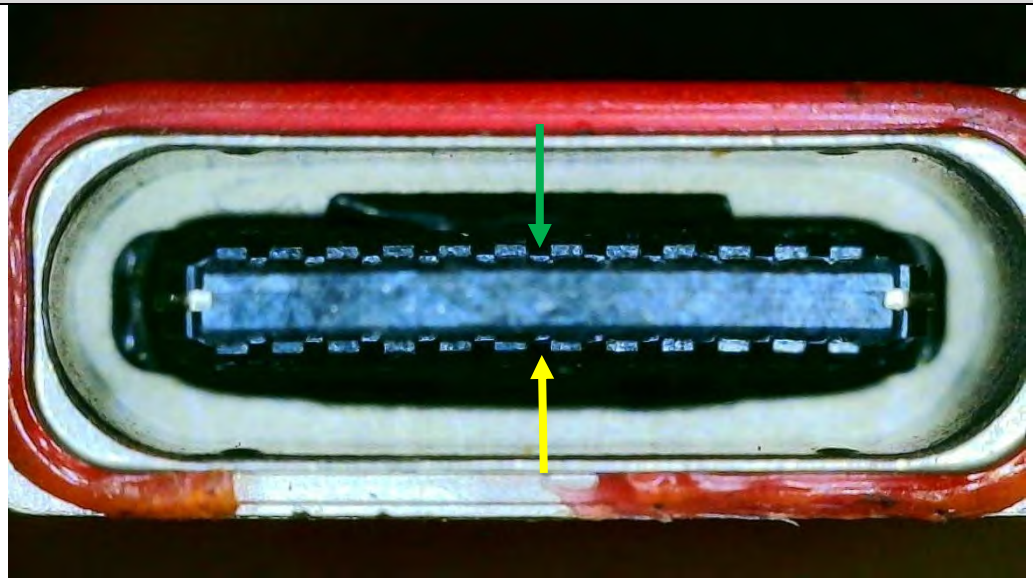
Claim 133 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has recesses.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

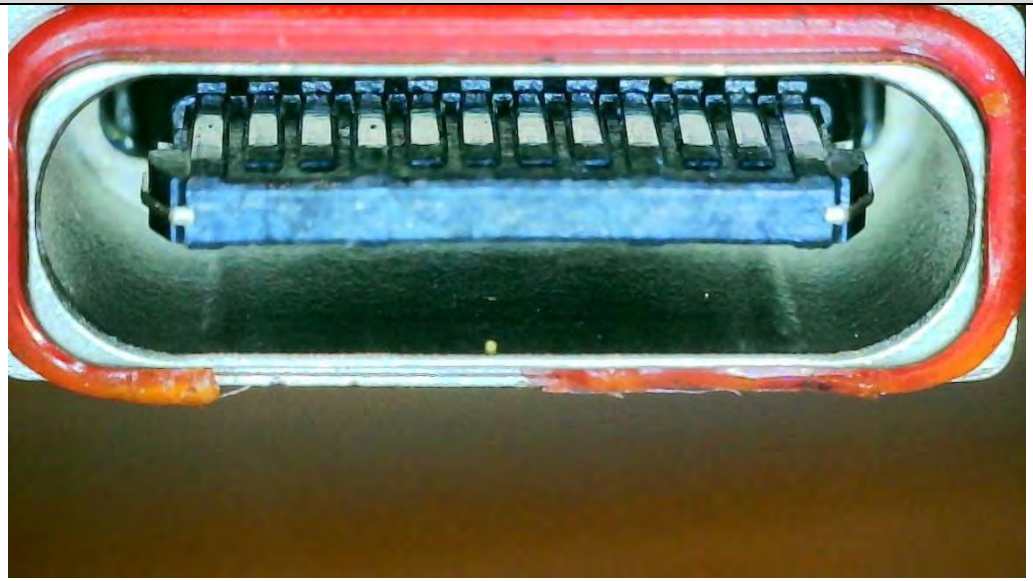
Claim 133 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

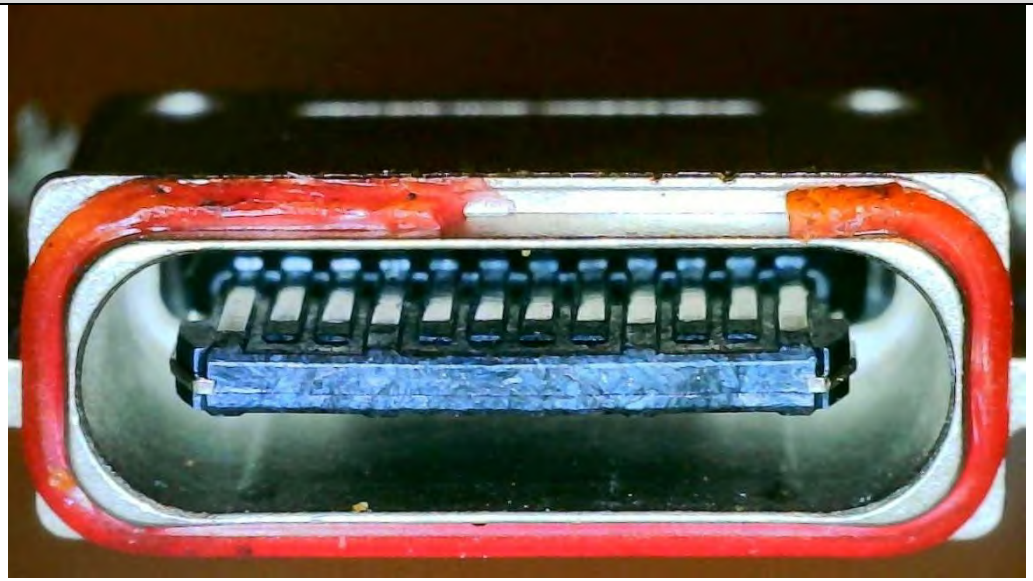
Claim 133 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**130D**]
[**133E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of	The tongue of the Samsung Galaxy Tab S9 FE Plus (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

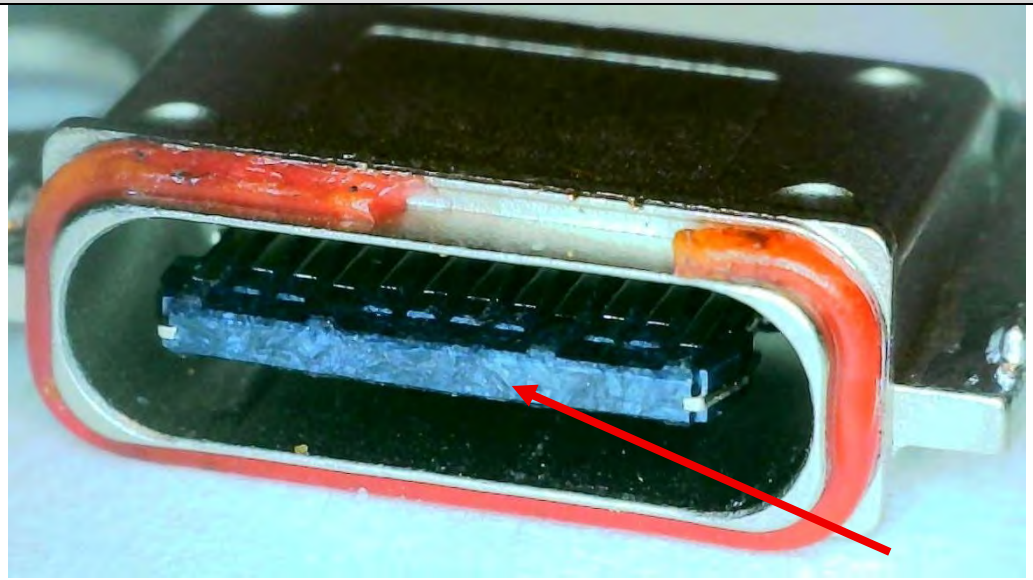
Claim 133 of the '307 Patent	**Evidence of Infringement**
the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The tongue is located on one end of the plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

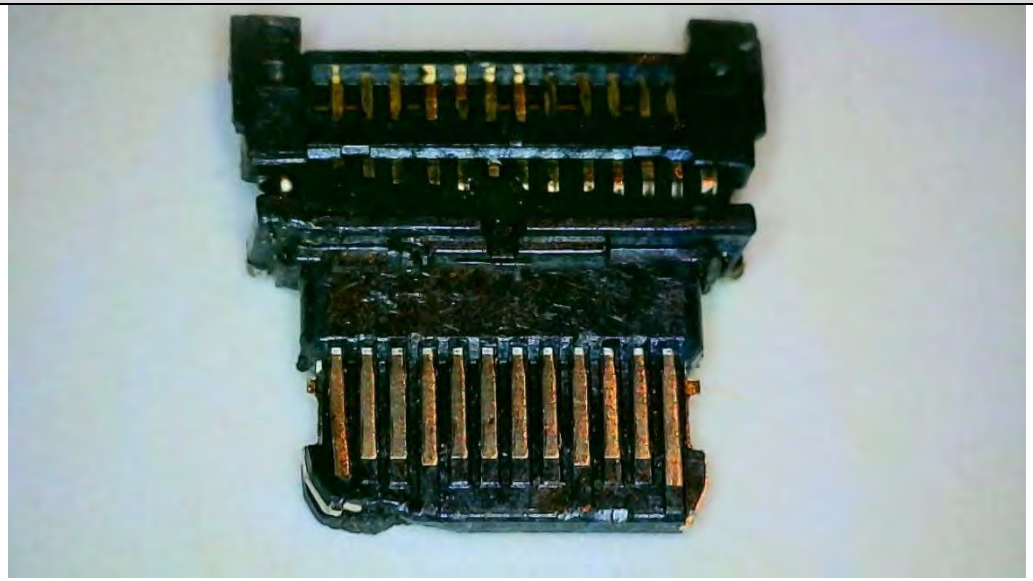
Claim 133 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by the yellow arrow)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

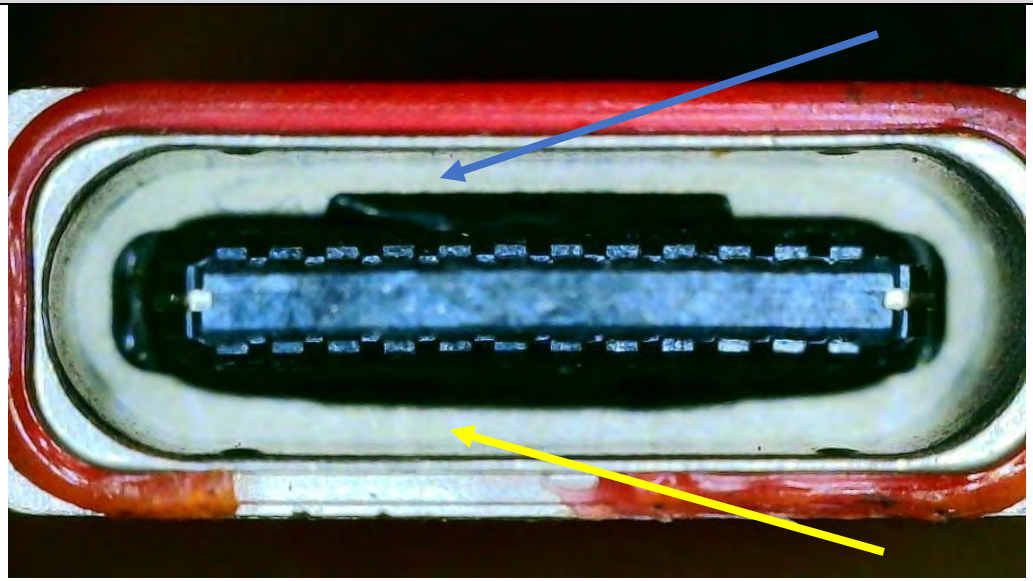
Claim 133 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

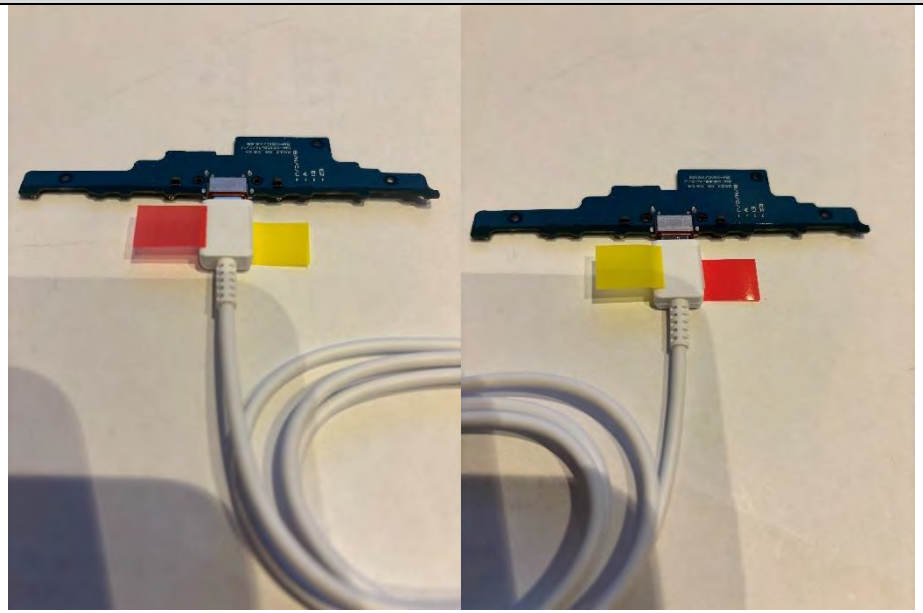
Claim 133 of the '307 Patent	**Evidence of Infringement**
	 The red and yellow flags are attached to the same side of the plug in both images, showing that the plug can be connected to the socket structure of the Samsung Galaxy Tab S9 FE Plus when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**]
[**133F**] at least one row of first contacts separately	The Samsung Galaxy Tab S9 FE Plus includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

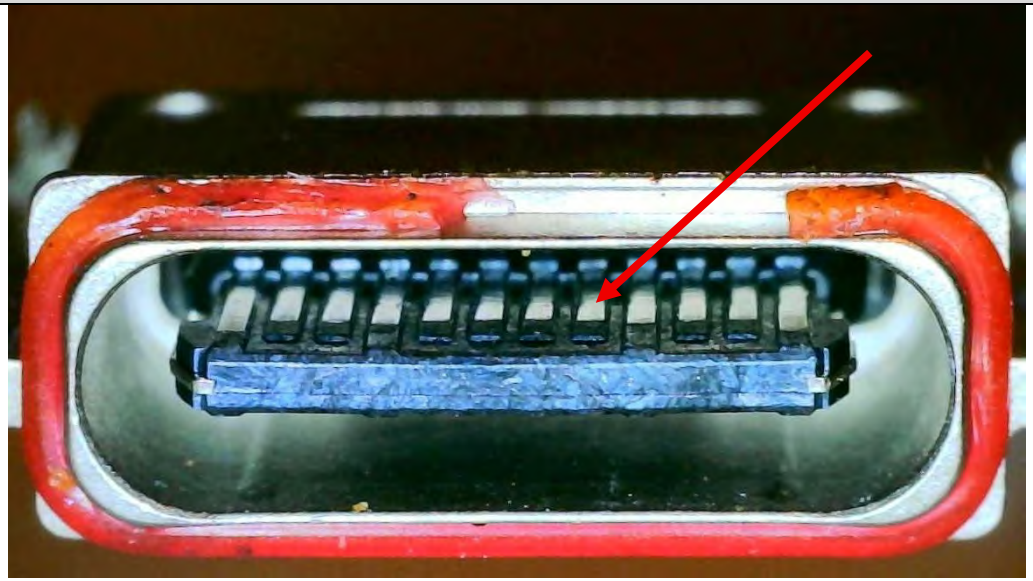
Claim 133 of the '307 Patent	**Evidence of Infringement**
arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

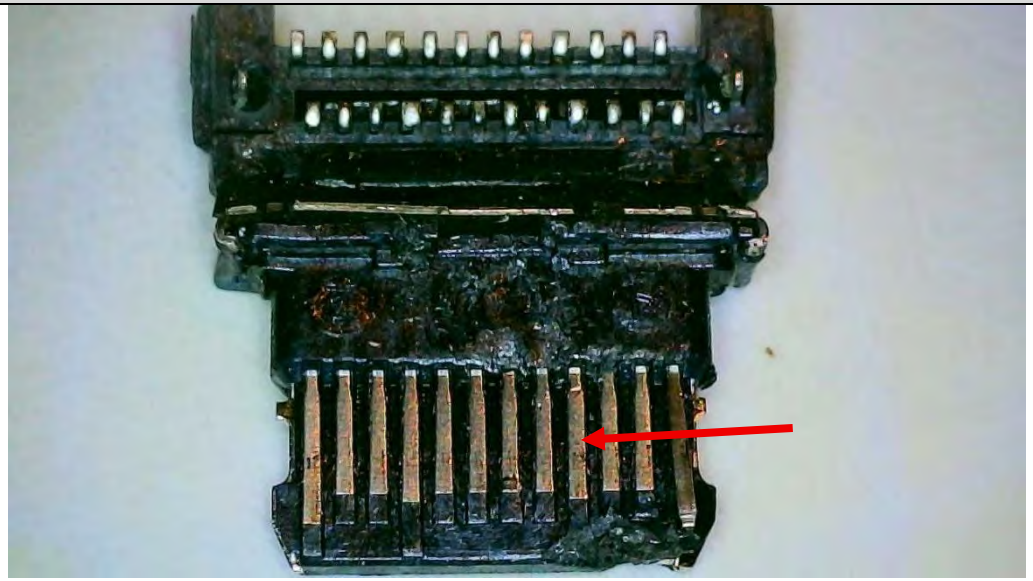
Claim 133 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image above, the Samsung Galaxy Tab S9 FE Plus further includes two rows of twelve pins extending out of the plastic base. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

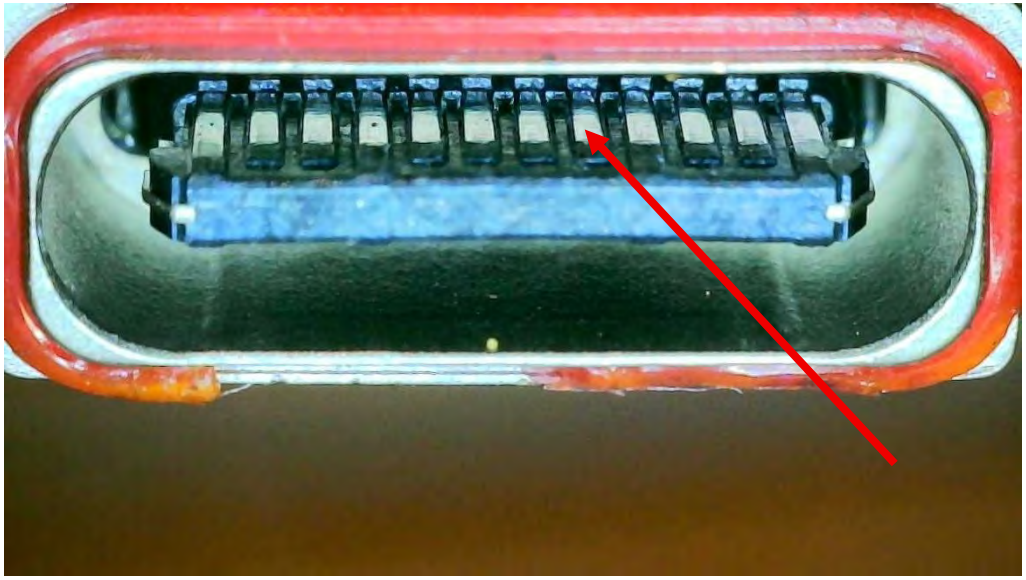
Claim 133 of the '307 Patent	**Evidence of Infringement**
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables). In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. *See also* Element [**34F**]
[**133G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung Galaxy Tab S9 FE Plus includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

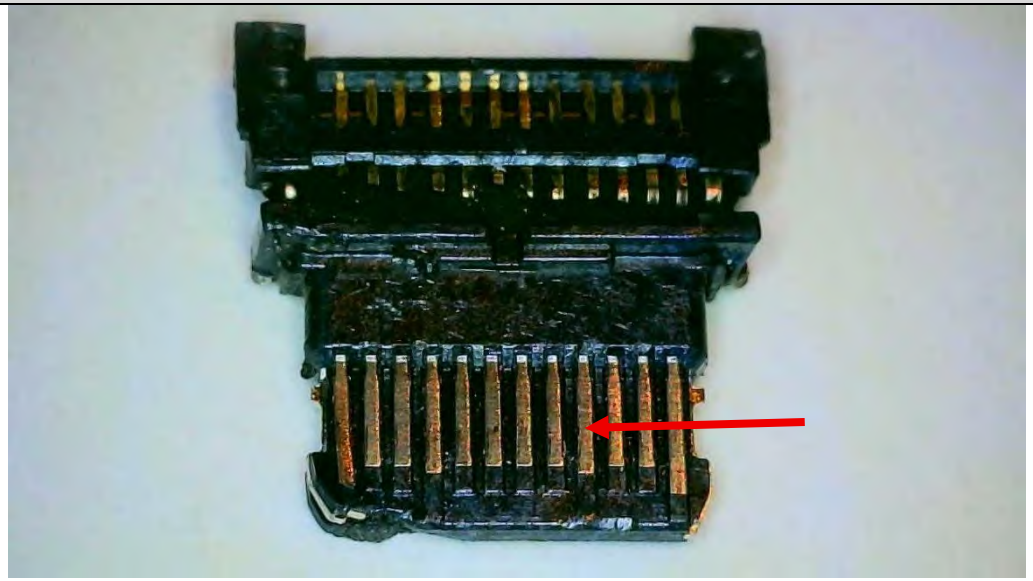
Claim 133 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Galaxy Tab S9 FE Plus) *See also* Element [**34G**]
[**133H**] each of the second contacts is electrically connected to a respective second pin extending	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung Galaxy Tab S9 FE Plus includes two rows of twelve pins extending out of the plastic base. On information and belief, the row identified by the arrow corresponds to the second pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

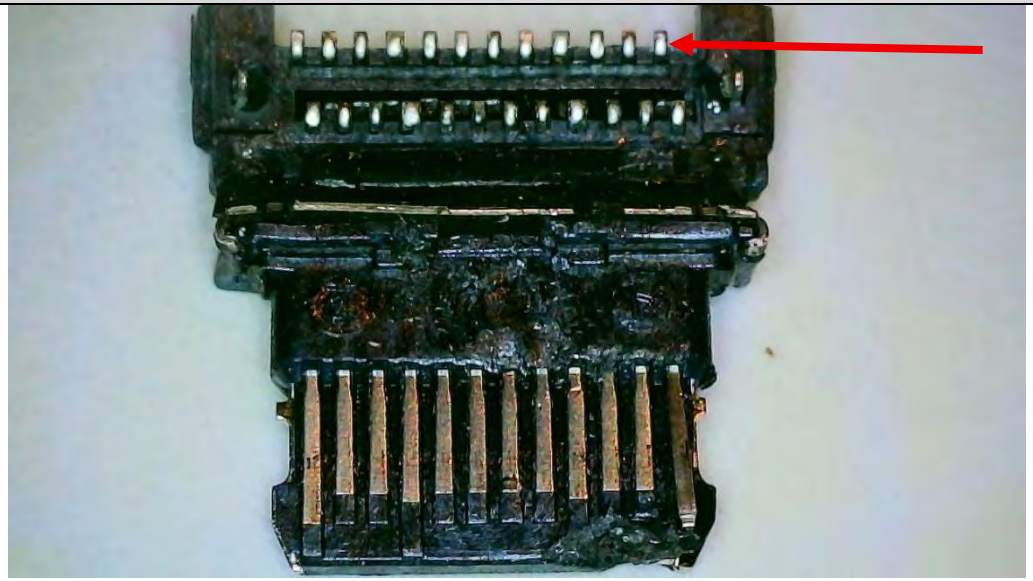
Claim 133 of the '307 Patent	**Evidence of Infringement**
out of the plastic base;	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

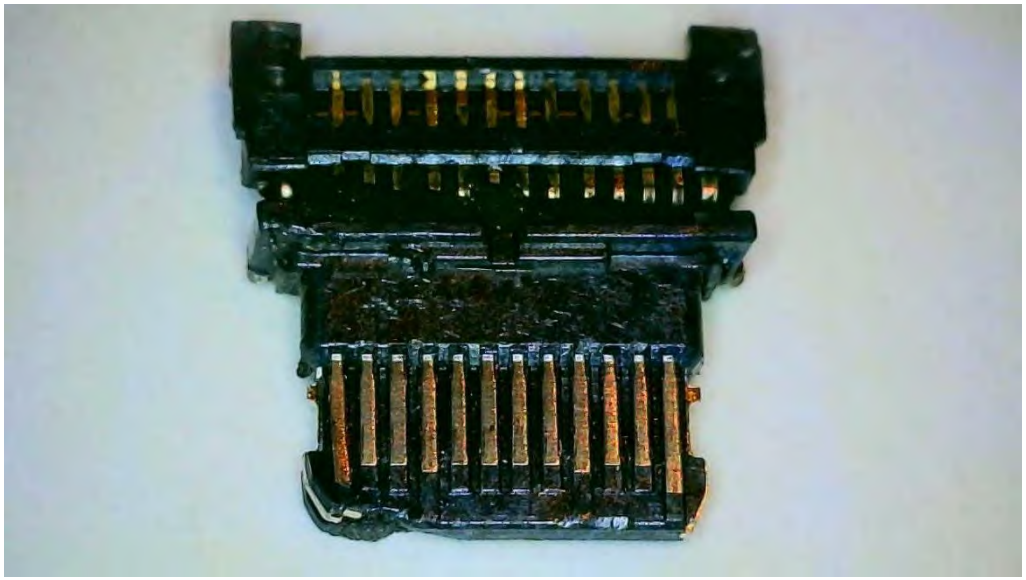
Claim 133 of the '307 Patent	**Evidence of Infringement**
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables). In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**]
[**133I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

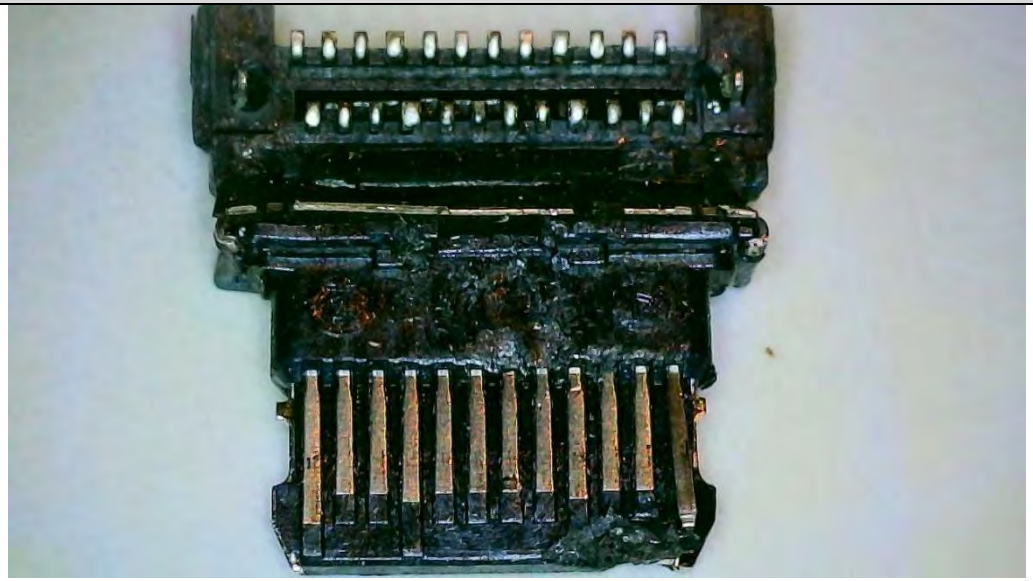
Claim 133 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

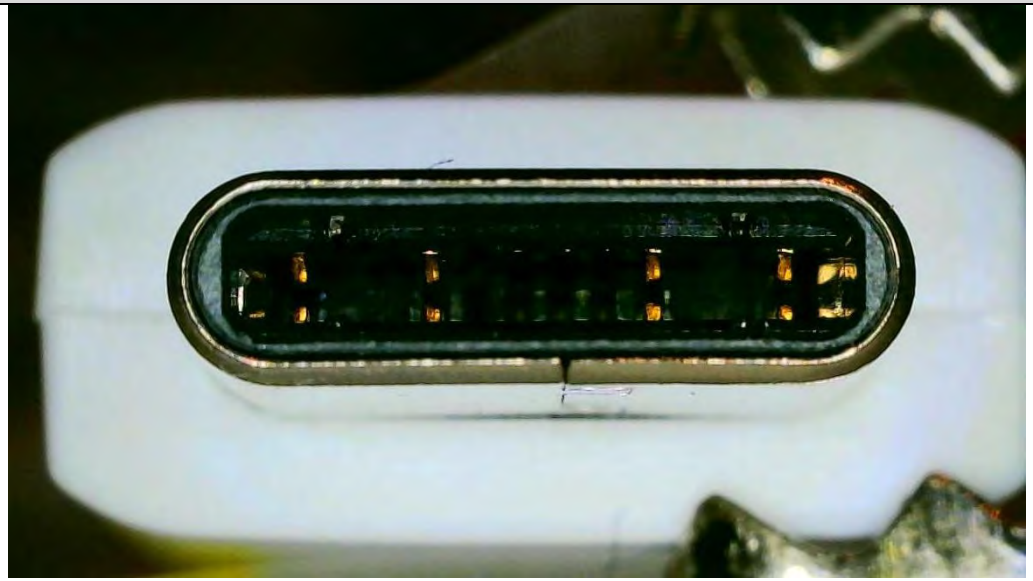
Claim 133 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**133J**] some of the at least one row of first	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

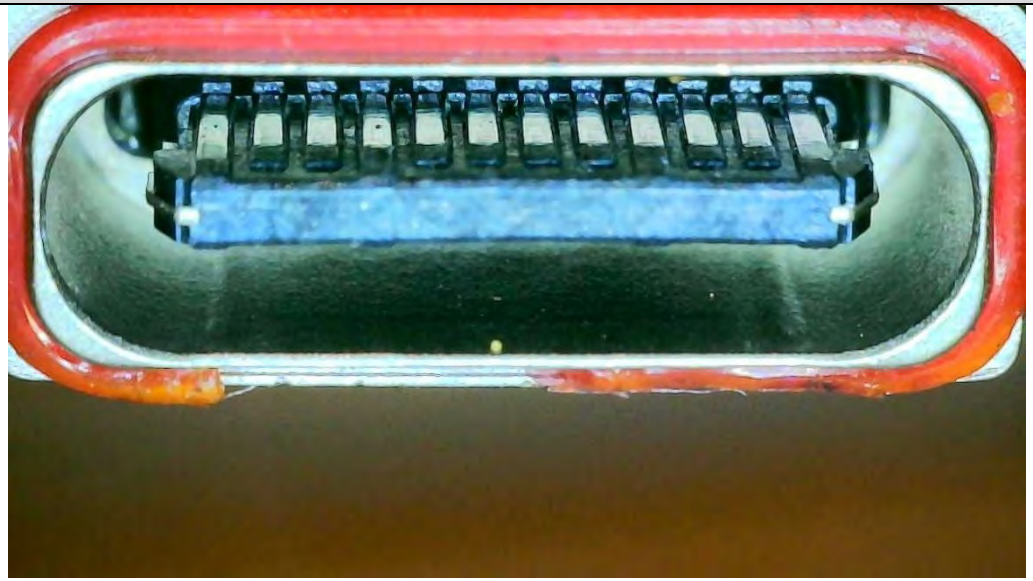
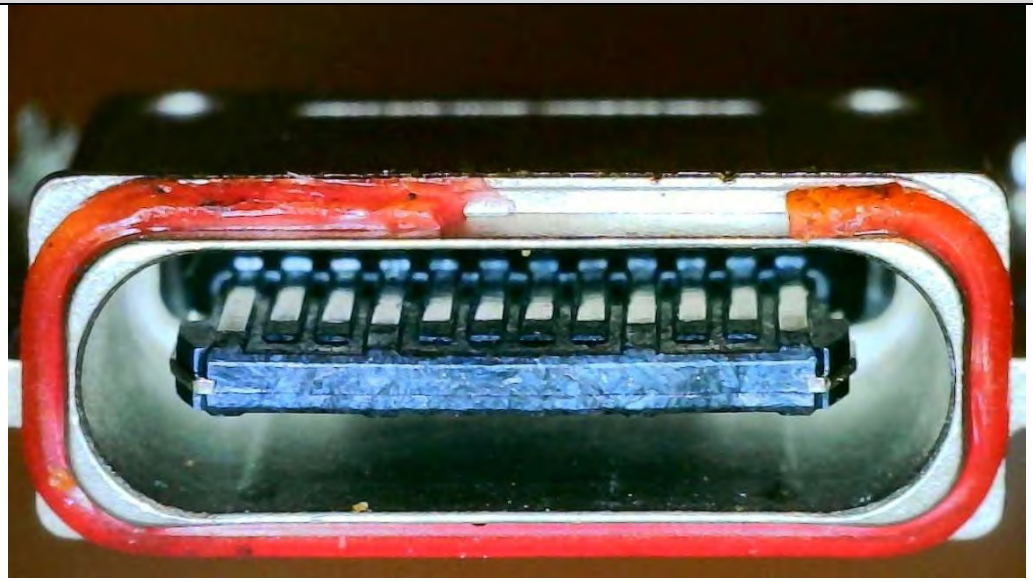
Claim 133 of the '307 Patent	**Evidence of Infringement**
contacts has a functional reverse mirror configuration relative to some of the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Claim 133 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**]

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

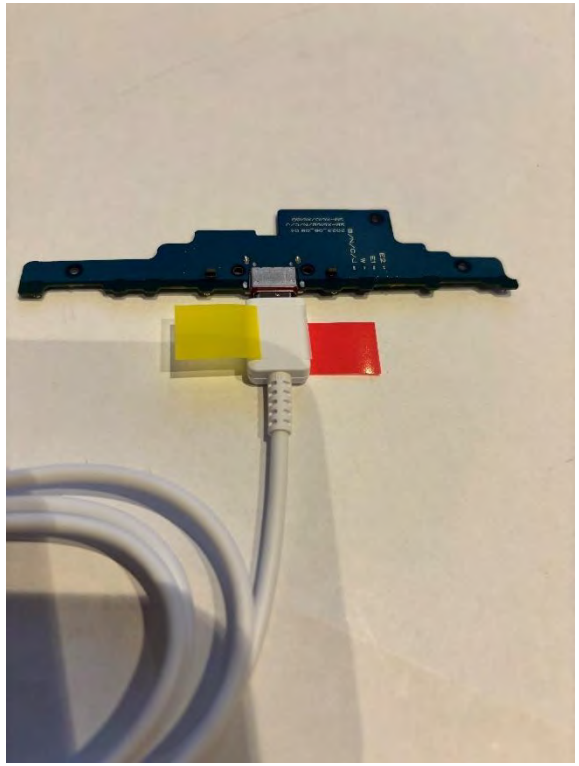
Claim 133 of the '307 Patent	**Evidence of Infringement**
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**133K**] through [**133N**].
[**133K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state when a USB-C plug is normally inserted into the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

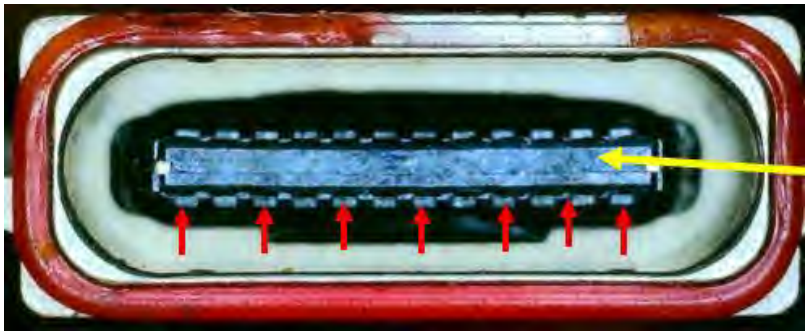
Claim 133 of the '307 Patent	**Evidence of Infringement**
the at least one row of second contacts and the tongue is disposed within the connection slot,	When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the second surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

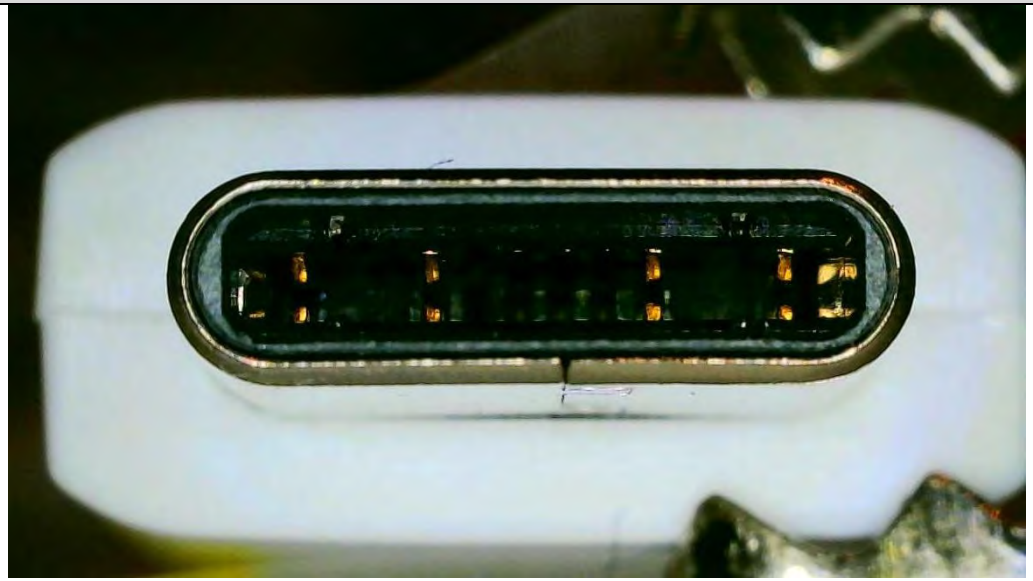
Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C plug showing top and bottom rows of connection terminals) *See also* Element [**34K**]
[**133L**] wherein the connection slot is symmetric with symmetric up and down chambers,	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state as described above in connection with element [**133K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric right and left chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

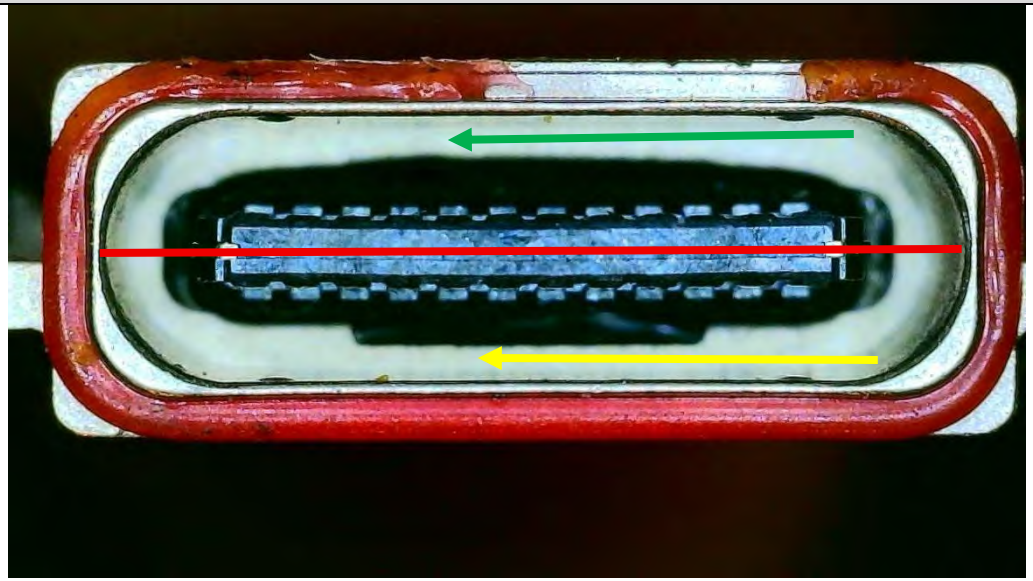
Claim 133 of the '307 Patent	Evidence of Infringement
and symmetric left and right chambers around the tongue; and	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

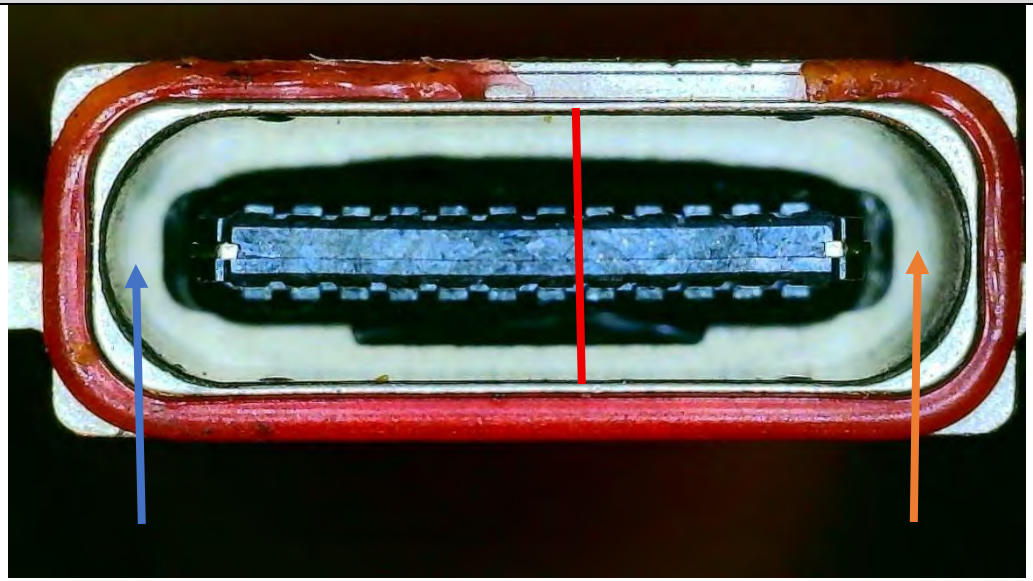
Claim 133 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34L**]
[**133M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of	The Samsung Galaxy Tab S9 FE Plus is further configured for a second operational state when the USB-C plug is oppositely inserted into the communication slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

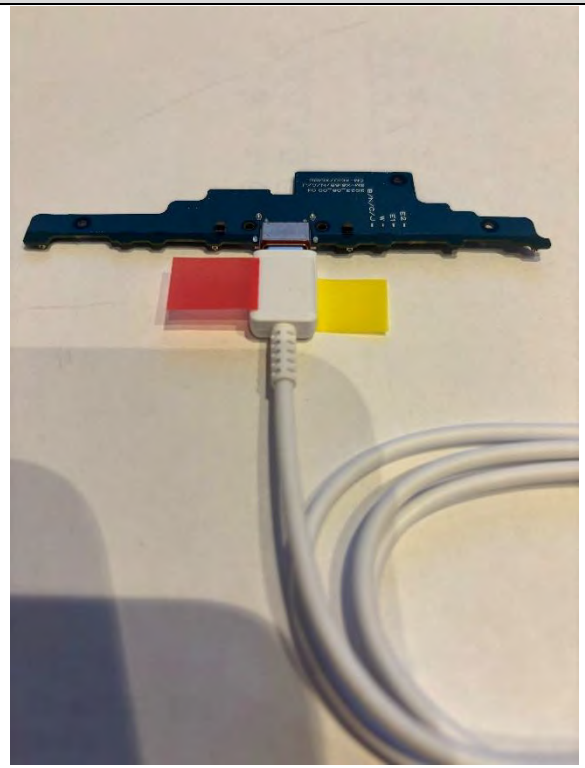
Claim 133 of the '307 Patent	Evidence of Infringement
connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the red flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

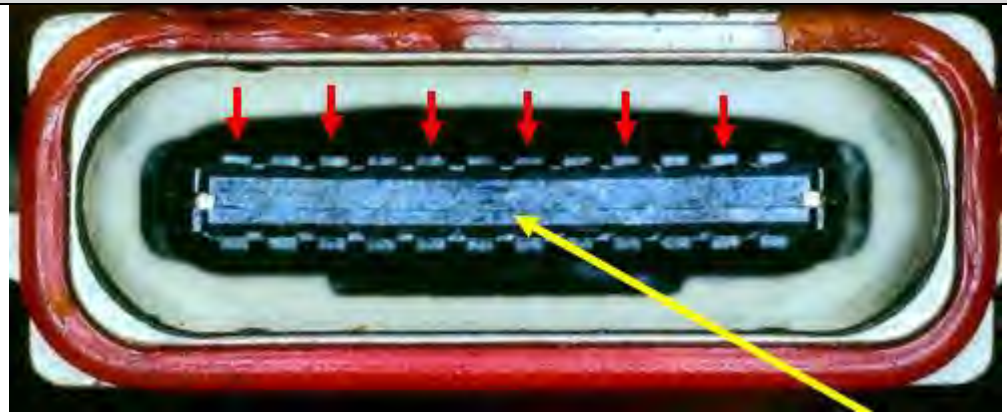
Claim 133 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34M**]
[**133N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**133L**]. *See also* Element [**34N**]

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	**Evidence of Infringement**
around the tongue.	

Samsung, EX1004, p. 900

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	**Evidence of Infringement**
[**134A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Galaxy Tab S9 FE Plus is a tablet that includes a socket structure with duplex electrical connection. In particular, the Galaxy Tab S9 FE Plus provides duplex electrical connection via a USB port.  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	The USB port is a USB Type-C port. **USB** USB 2.0 **Earjack** USB Type-C https://web.archive.org/web/20250311143051/https://www.samsung.com/us/tablets/galaxy-tab-s9-fe/buy/galaxy-tab-s9-fe-plus-128gb-gray-wi-fi-sm-x610nzaaxar/ (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement

Devices that use USB Type C

- **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6
- **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra
- **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G
- **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71
- **Galaxy XCover phones:** Galaxy XCover6 Pro
- **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+
- **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022)

See https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung Galaxy Tab S9 FE Plus is packaged with a USB-C to USB-C cable.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

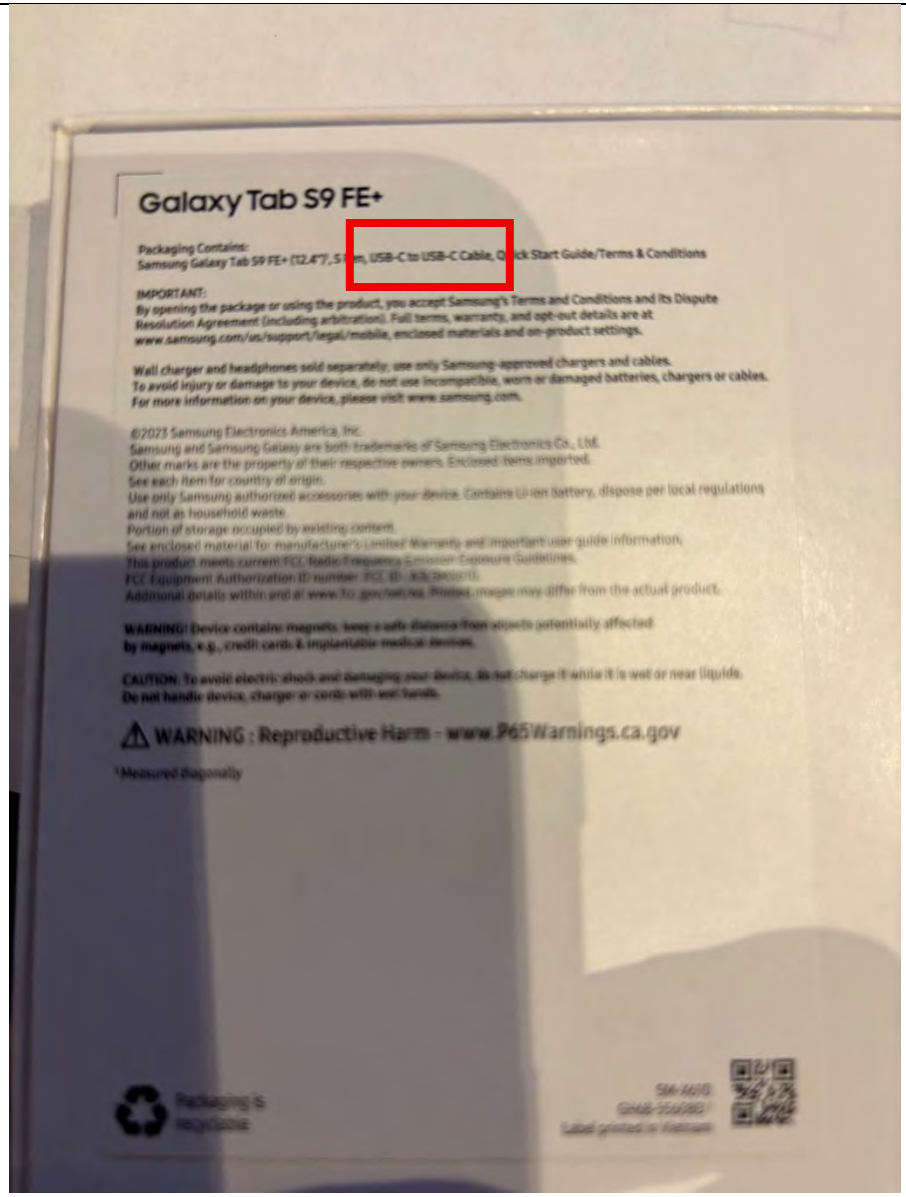


EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

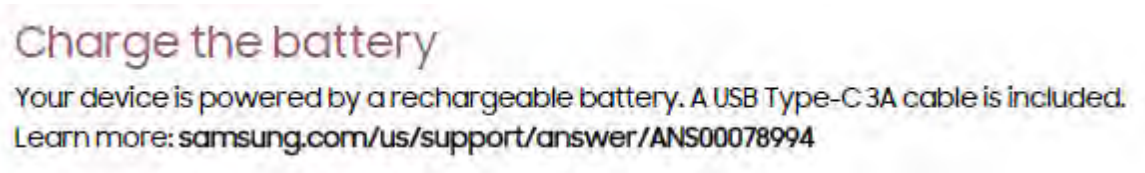
Claim 134 of the '307 Patent	Evidence of Infringement
	(Image of device packaging.)  User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable included in packaging.) *See also* Element [**34A**] Further details regarding the socket structure are described below in connection with elements [**134B**] through [**134L**].
[**134B**] a plastic base;	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

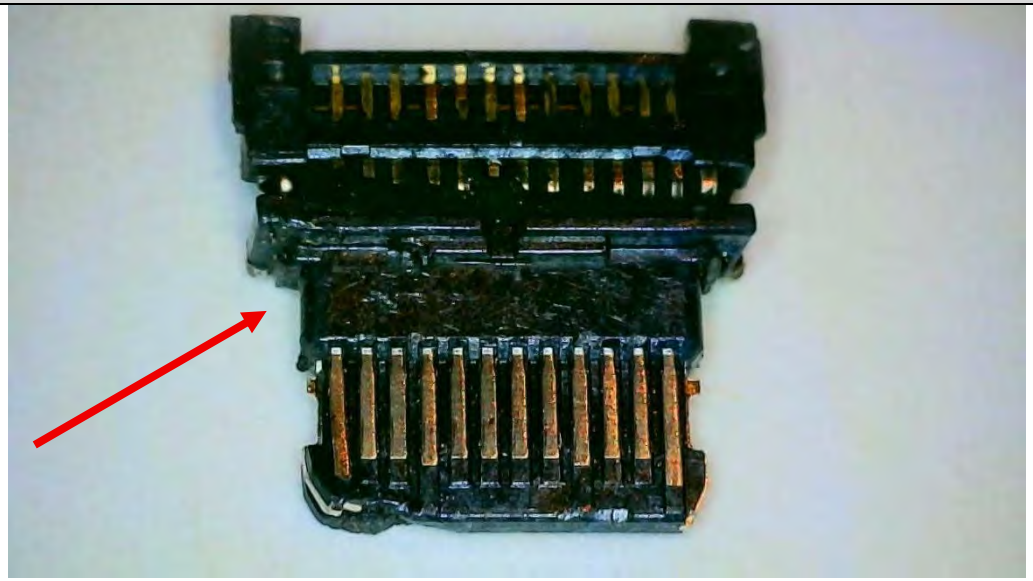
Claim 134 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

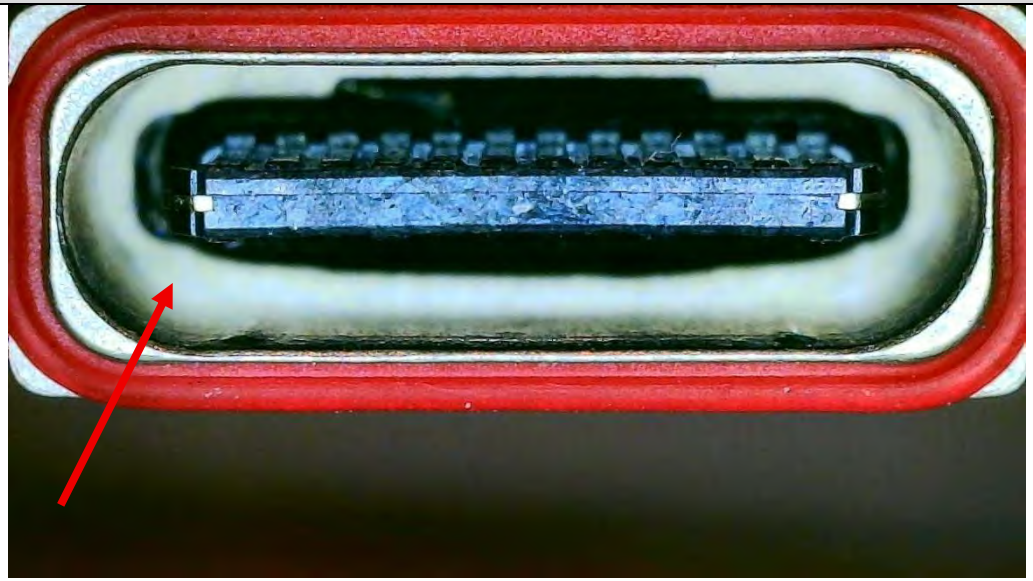
Claim 134 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Galaxy Tab S9 FE Plus.) *See also* Element [**34B**]
[**134C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

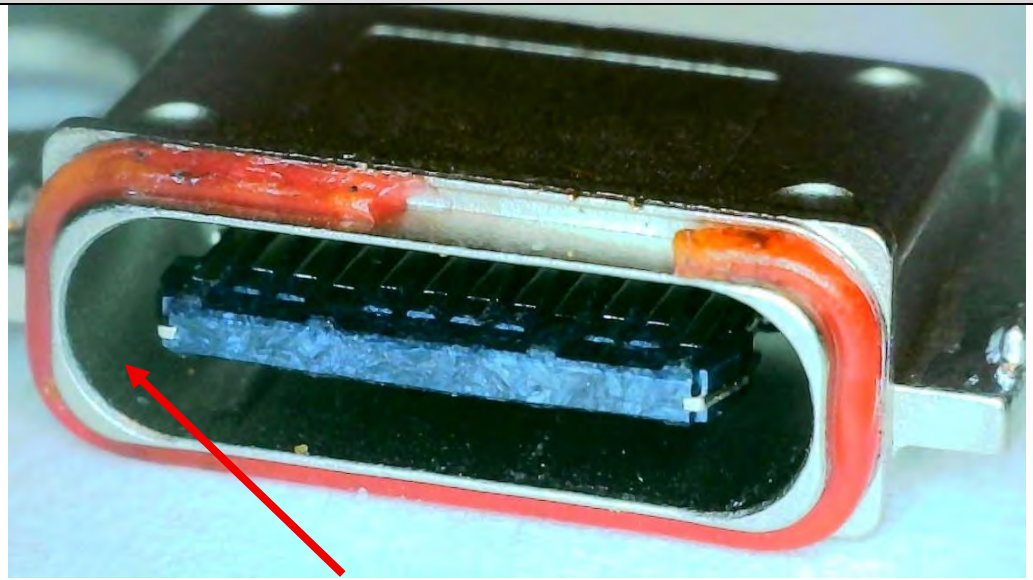
Claim 134 of the '307 Patent	**Evidence of Infringement**
a plug having at least one row of connection terminals;	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

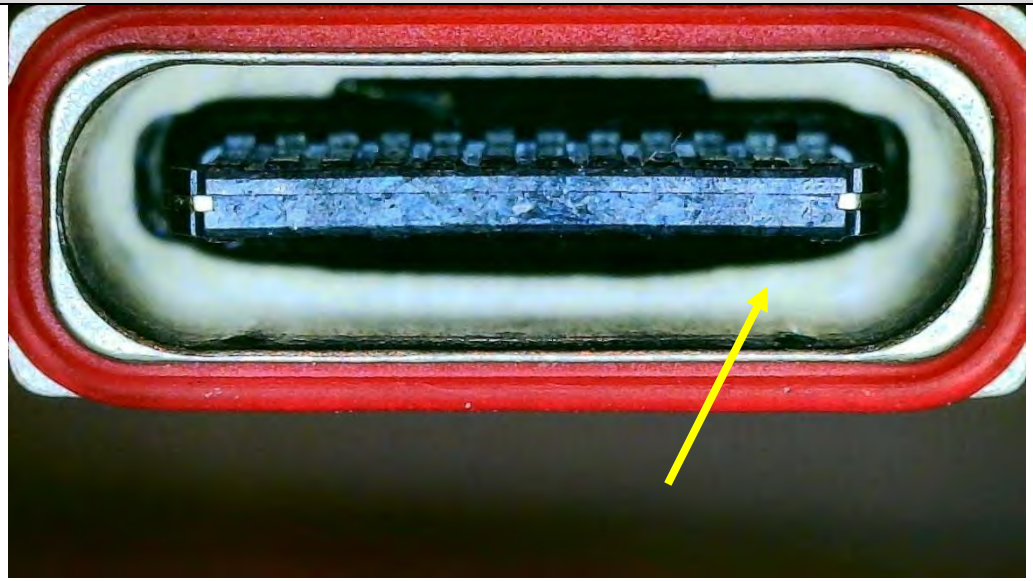
Claim 134 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung Galaxy Tab S9 FE Plus, as described above in connection with element [**34A**].

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

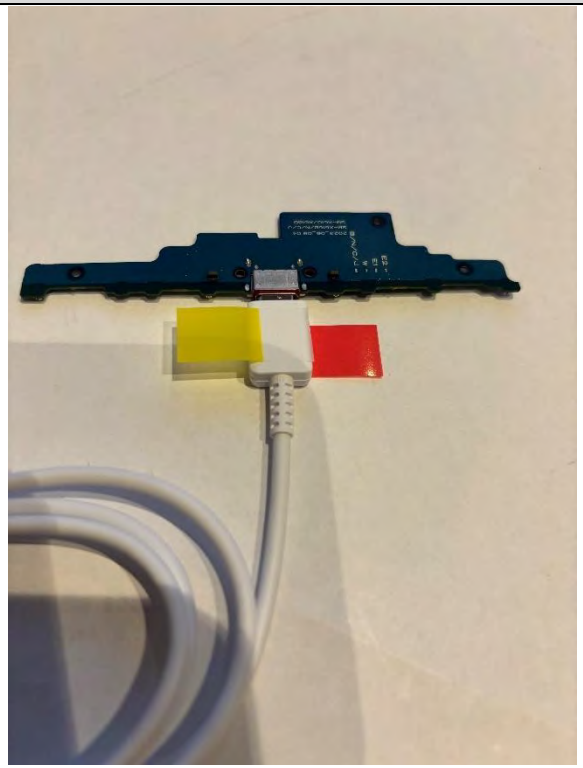
Claim 134 of the '307 Patent	Evidence of Infringement
	 USB-C cables include a plug with at least one row of connection terminals.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

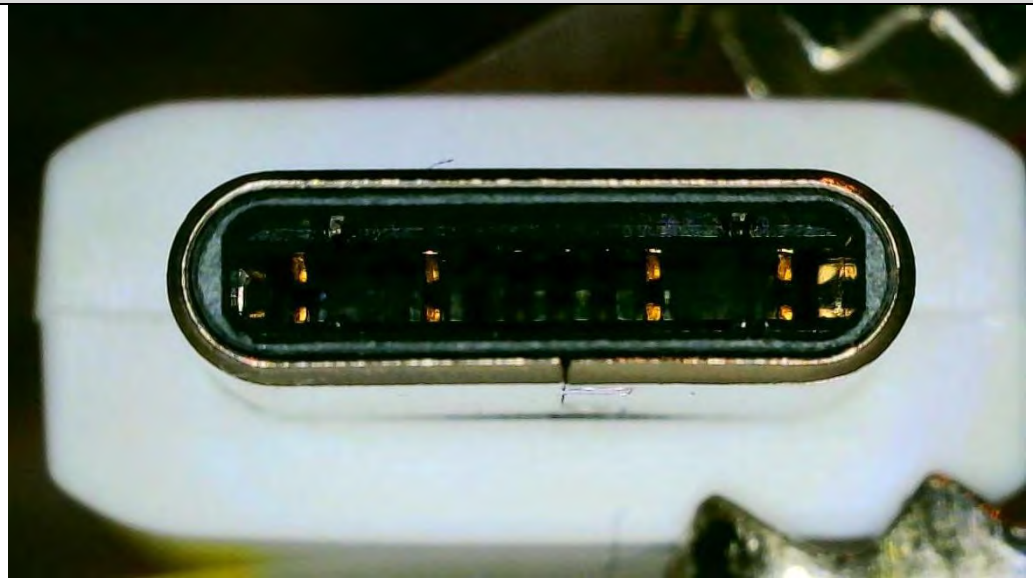
Claim 134 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**]
[**134D**] a tongue, which has a top side with a first surface with grooves, and bottom side with a second	The socket structure of the Samsung Galaxy Tab S9 FE Plus includes a tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

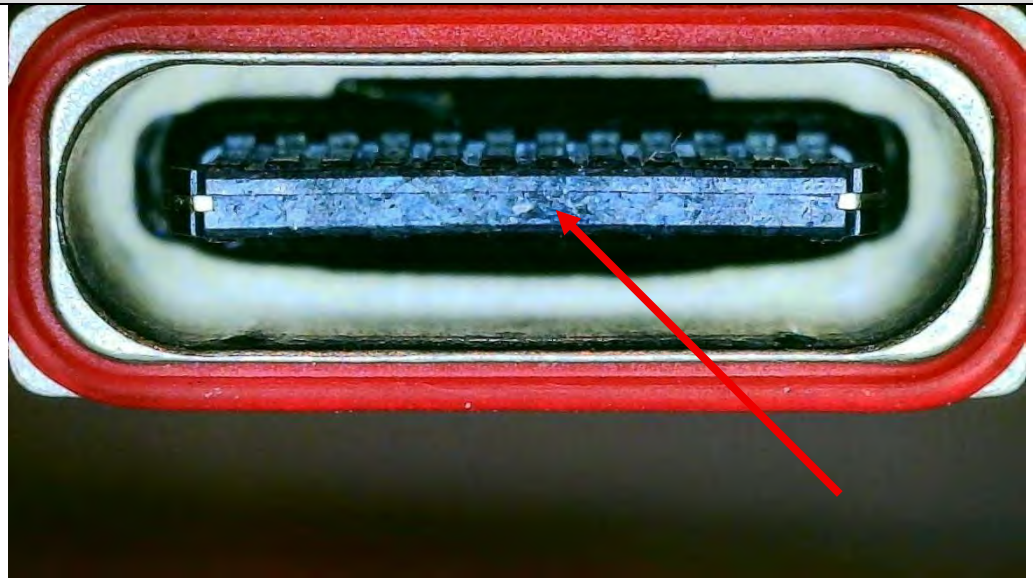
Claim 134 of the '307 Patent	Evidence of Infringement
surface with grooves, the second surface disposed opposite the first surface,	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

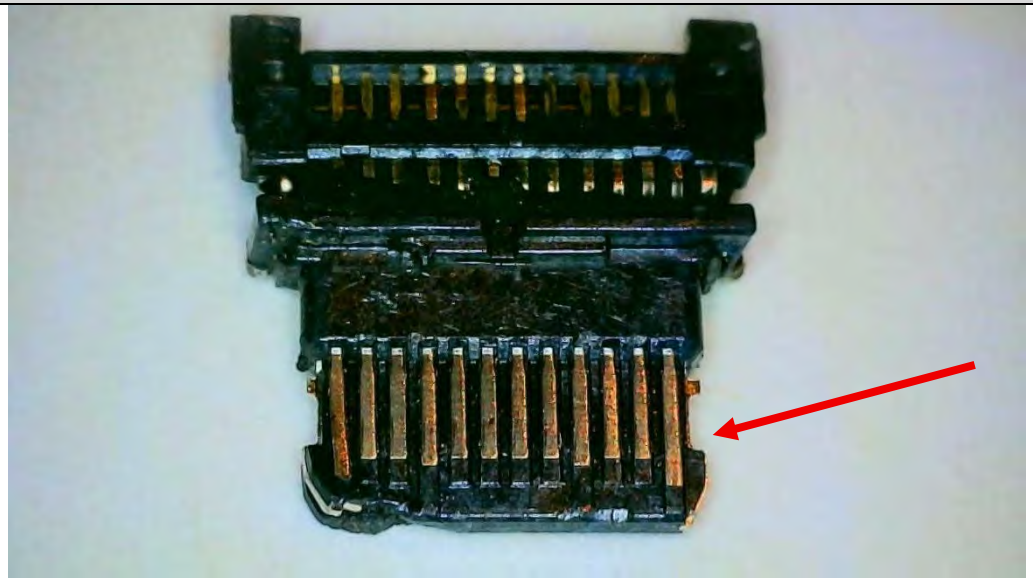
Claim 134 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

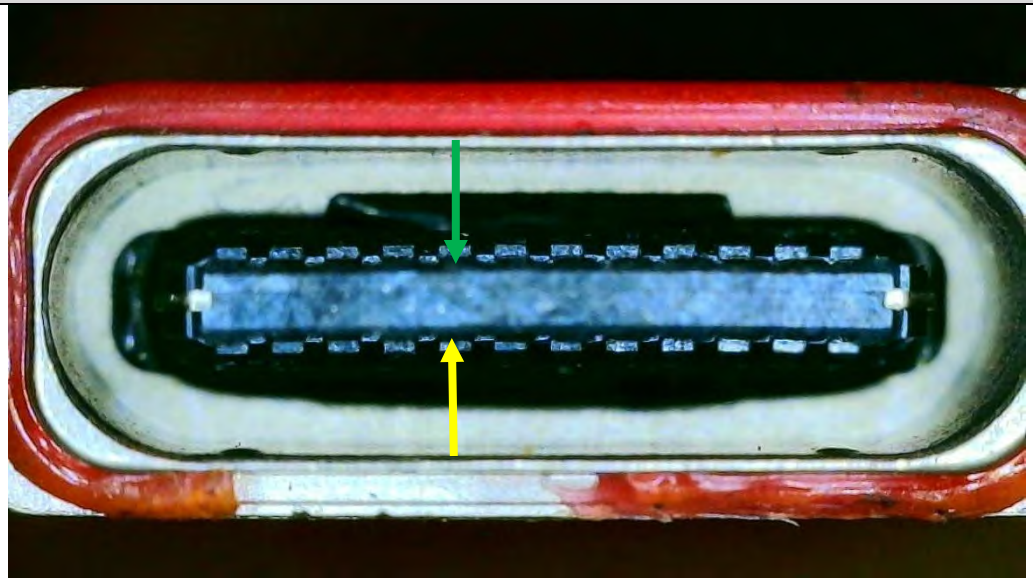
Claim 134 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

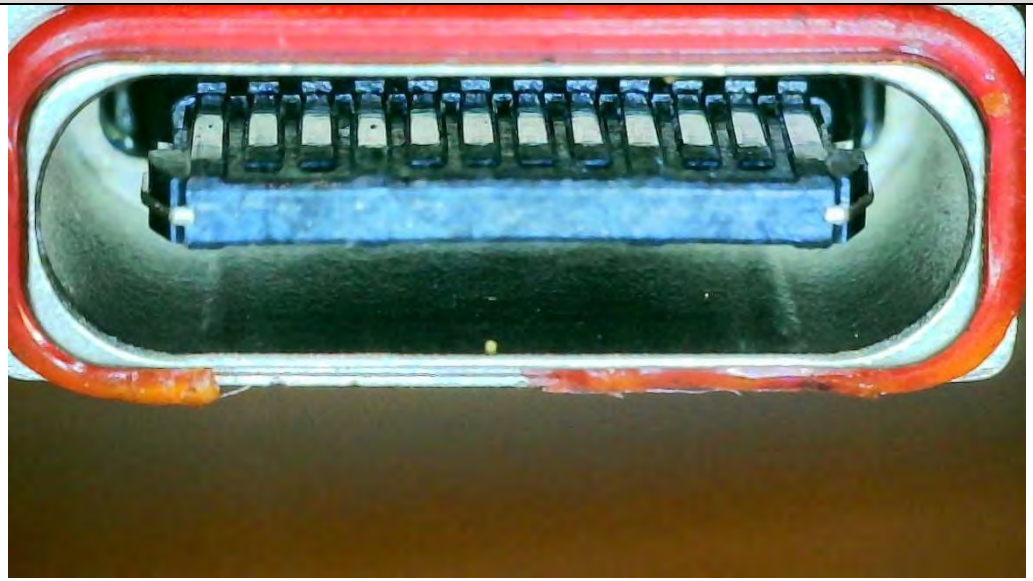
Claim 134 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

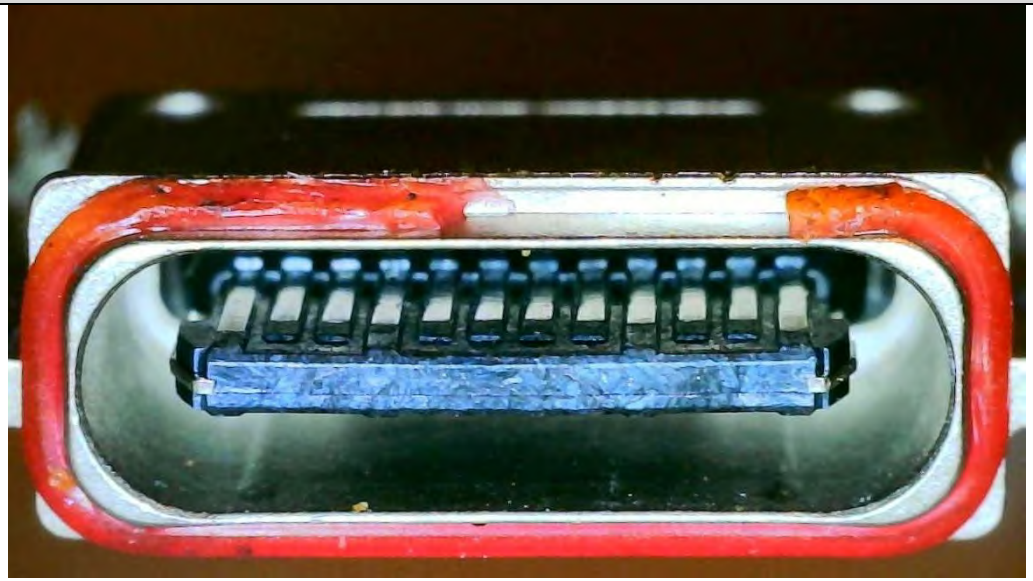
Claim 134 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponding to the side with the second surface as described in element [**34D**].
[**134E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that	The tongue of the Samsung Galaxy Tab S9 FE Plus (indicated by the red arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

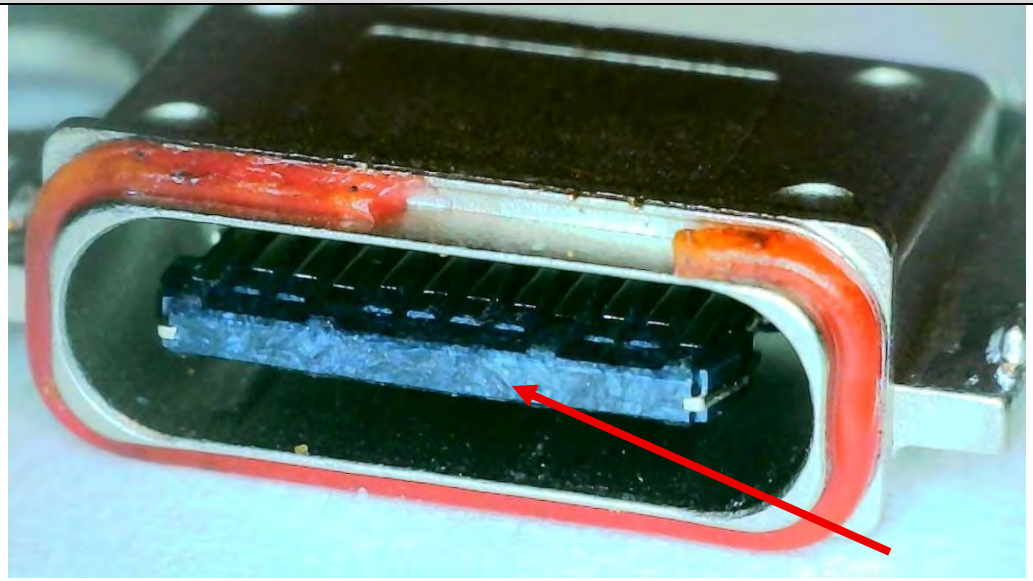
Claim 134 of the '307 Patent	Evidence of Infringement
chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The tongue is located on one end of the plastic base.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

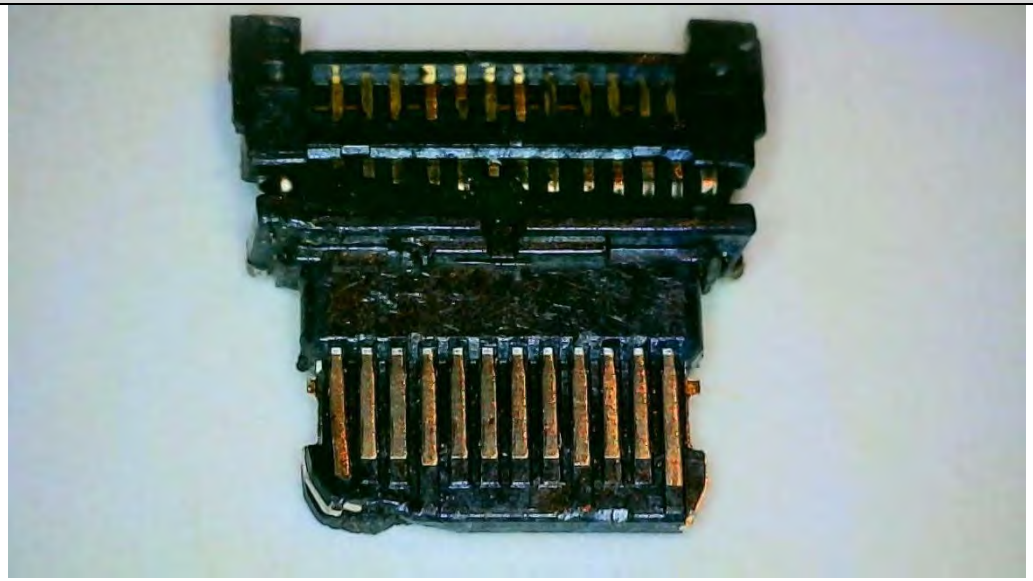
Claim 134 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by the yellow arrow)

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

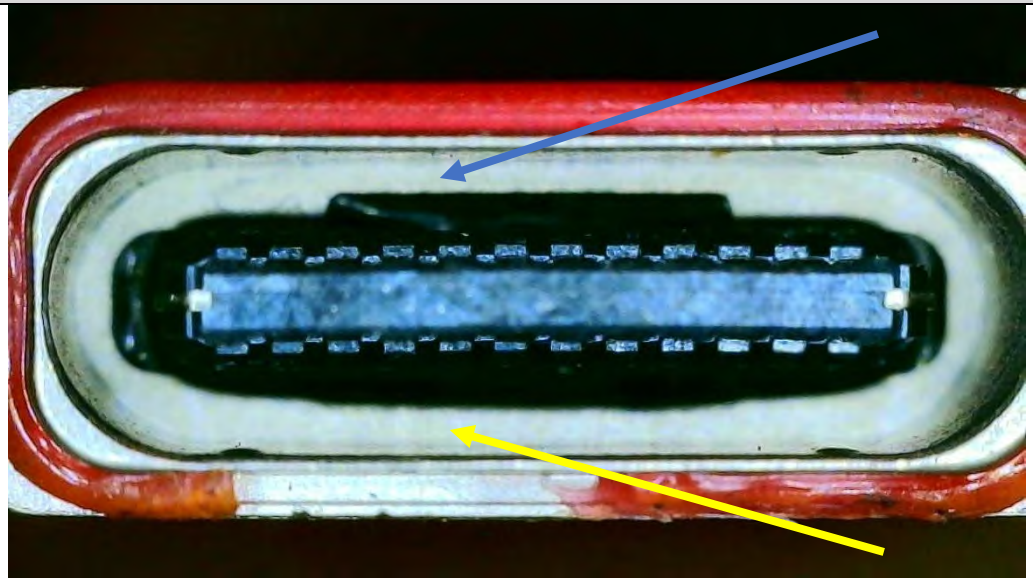
Claim 134 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

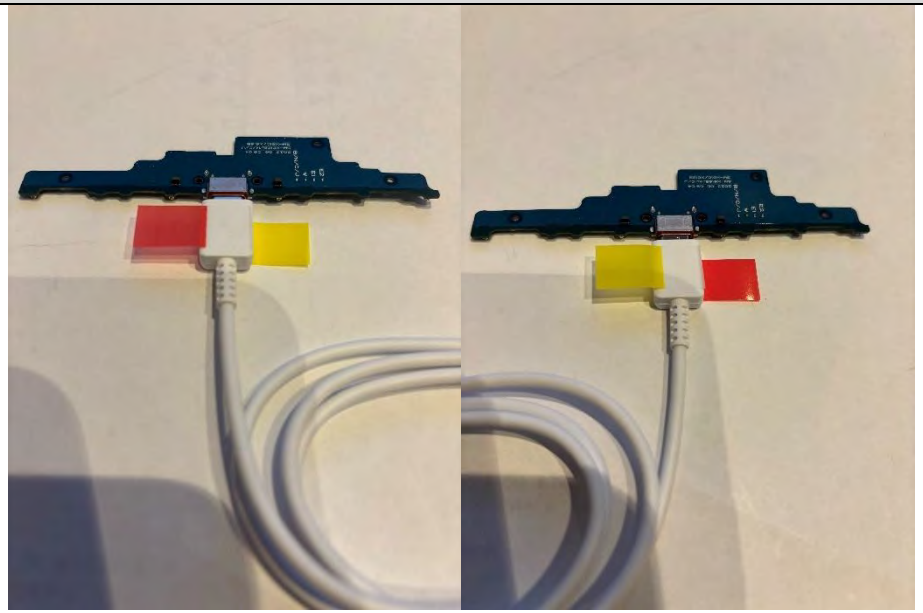
Claim 134 of the '307 Patent	**Evidence of Infringement**
	 The red and yellow flags are attached to the same side of the plug in both images, showing that the plug can be connected to the socket structure of the Samsung Galaxy Tab S9 FE Plus when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on the bottom (second image). *See also* Element [**34E**]
[**134F**] at least one row of first contacts separately	The Samsung Galaxy Tab S9 FE Plus includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

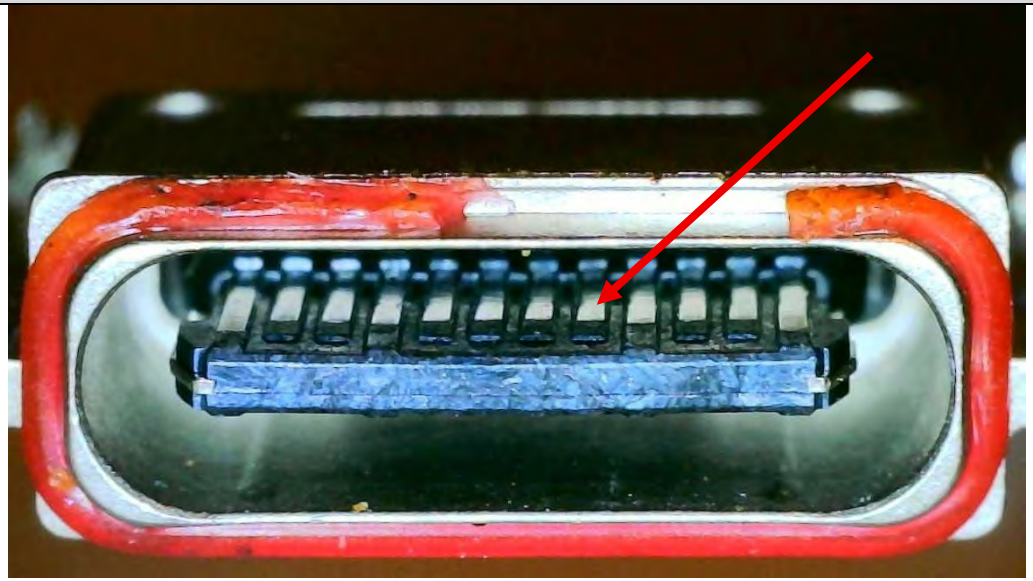
Claim 134 of the '307 Patent	**Evidence of Infringement**
arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a first pin extending out of the plastic base; and	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

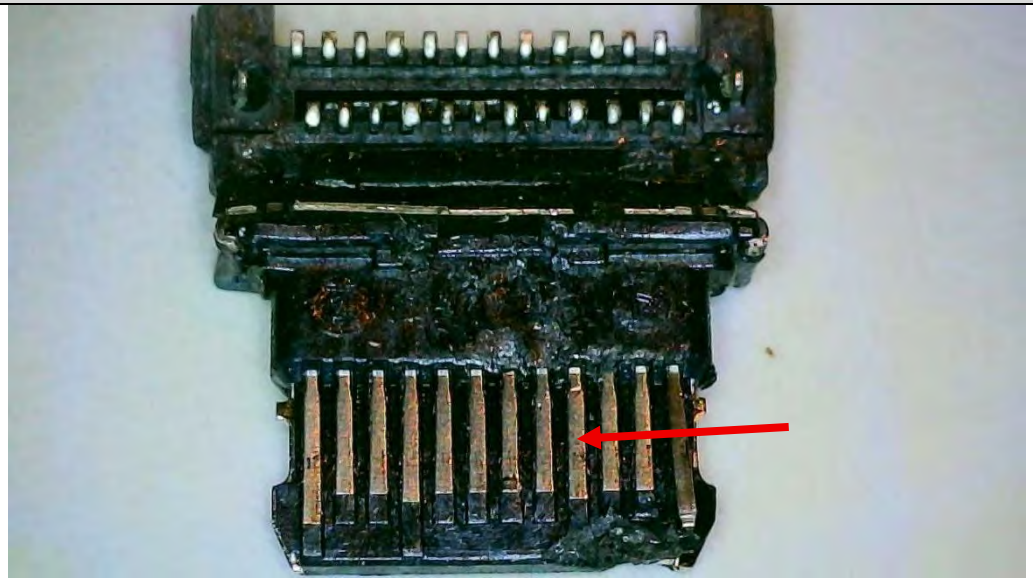
Claim 134 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image above, the Samsung Galaxy Tab S9 FE Plus further includes two rows of twelve pins extending out of the plastic base. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

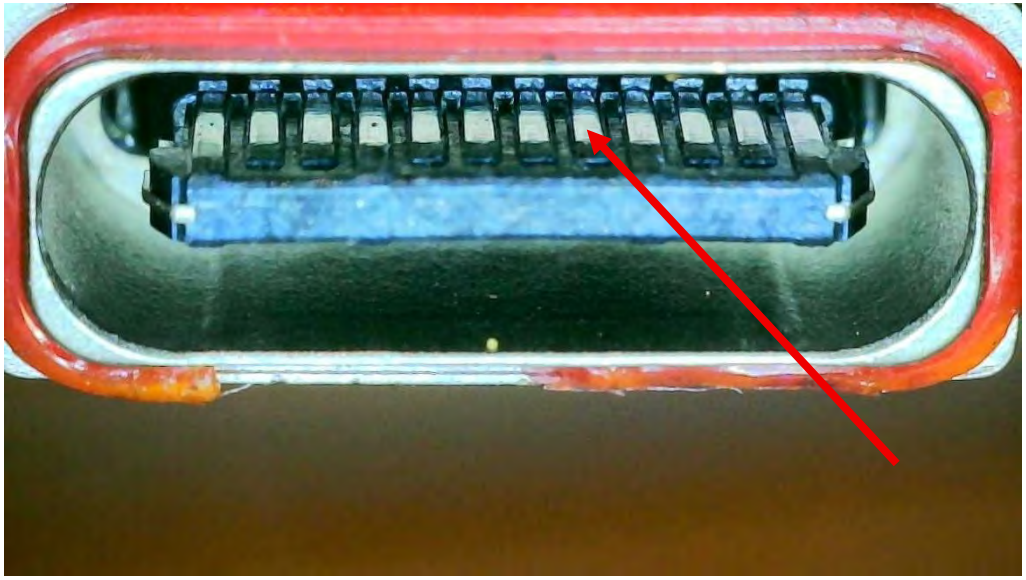
Claim 134 of the '307 Patent	**Evidence of Infringement**
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables). In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. *See also* Element [**34F**]
[**134G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The Samsung Galaxy Tab S9 FE Plus includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

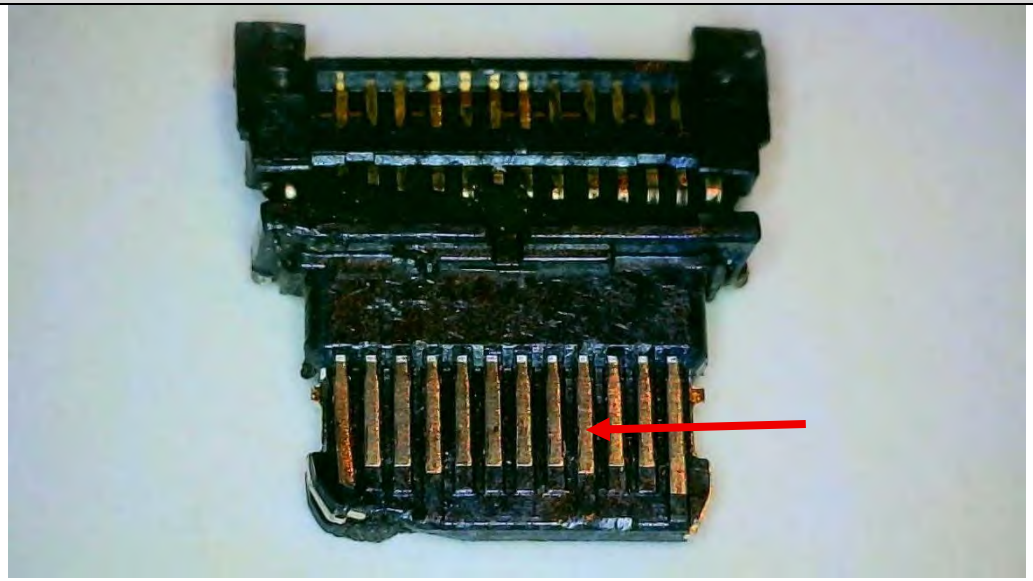
Claim 134 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Galaxy Tab S9 FE Plus) *See also* Element [**34G**]
[**134H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the Samsung Galaxy Tab S9 FE Plus includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung Galaxy Tab S9 FE Plus includes two rows of twelve pins extending out of the plastic base. On information and belief, the row identified by the arrow corresponds to the second pins.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

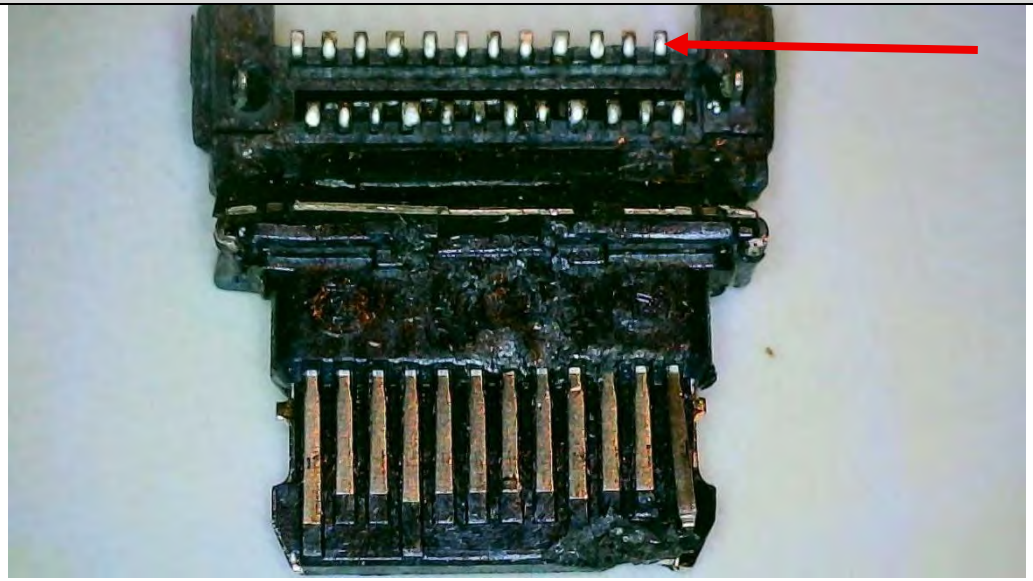
Claim 134 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds to one of sixteen pins.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

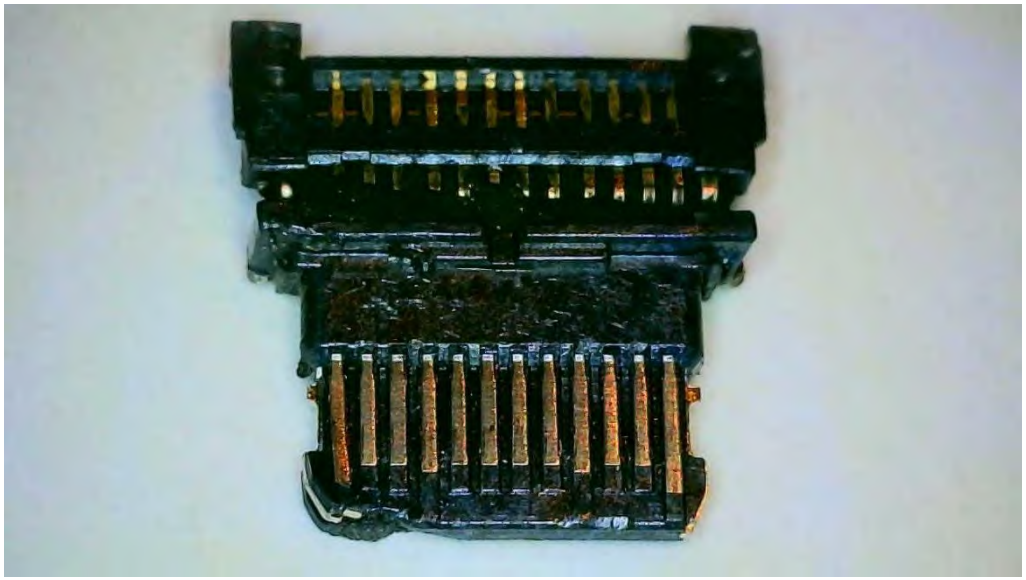
Claim 134 of the '307 Patent	**Evidence of Infringement**
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung Galaxy Tab S9 FE Plus is a USB-C socket and/or compatible with the USB-C cables). In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**]
[**134I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung Galaxy Tab S9 FE Plus is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung Galaxy Tab S9 FE Plus has electrical contacts on the top and bottom of the tongue. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

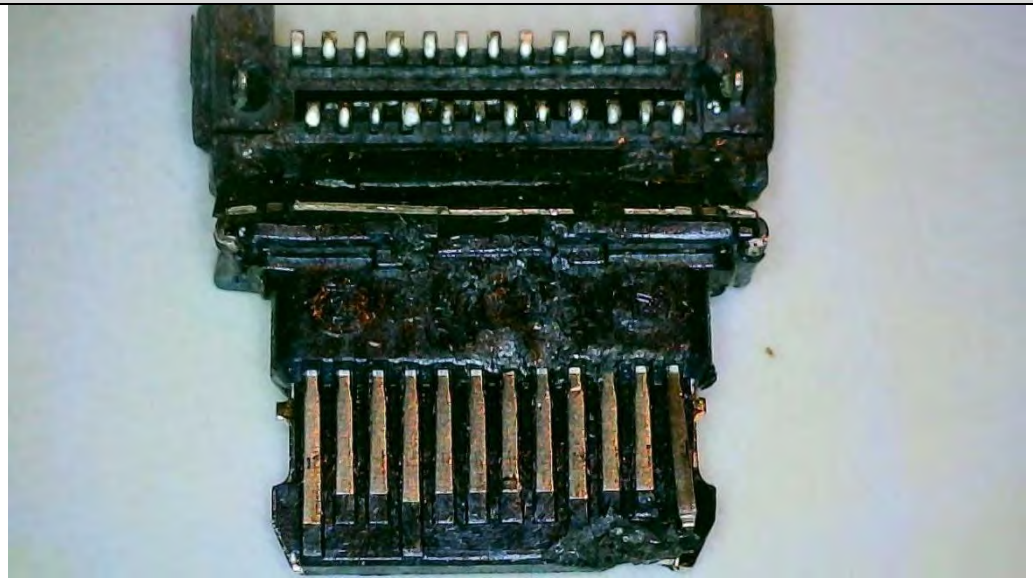
Claim 134 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

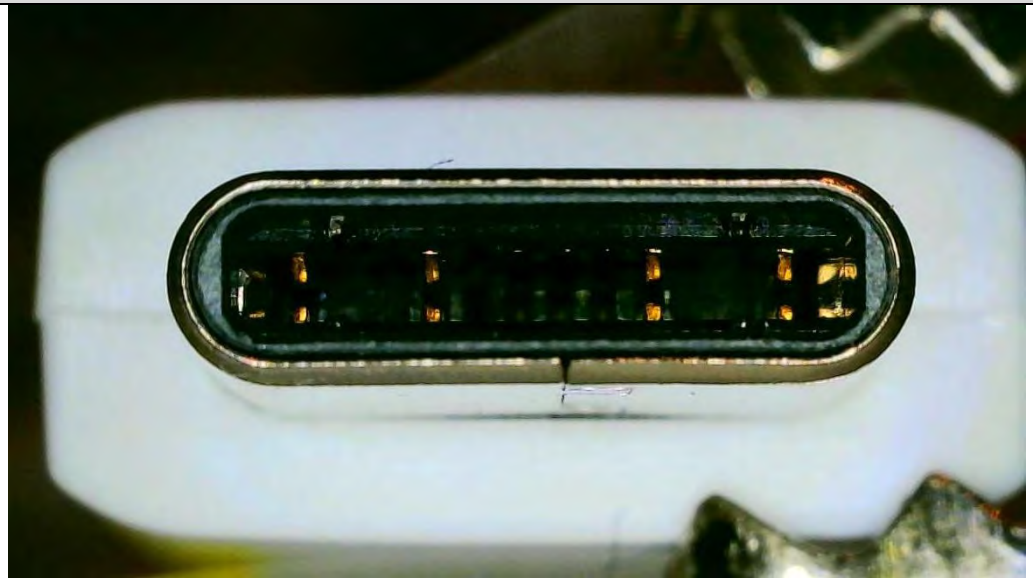
Claim 134 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. The Samsung Galaxy Tab S9 FE Plus uses the USB-C socket structure for charging.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung Galaxy Tab S9 FE/S9 FE+, available at https://downloadcenter.samsung.com/content/UM/202408/20240816065348457/SAM_X510_X518_X610_EN_UG_OS14_022624_FINAL_AC_031224.pdf (accessed July 23, 2025) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**]
[**134J**] at least some of the at least one	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

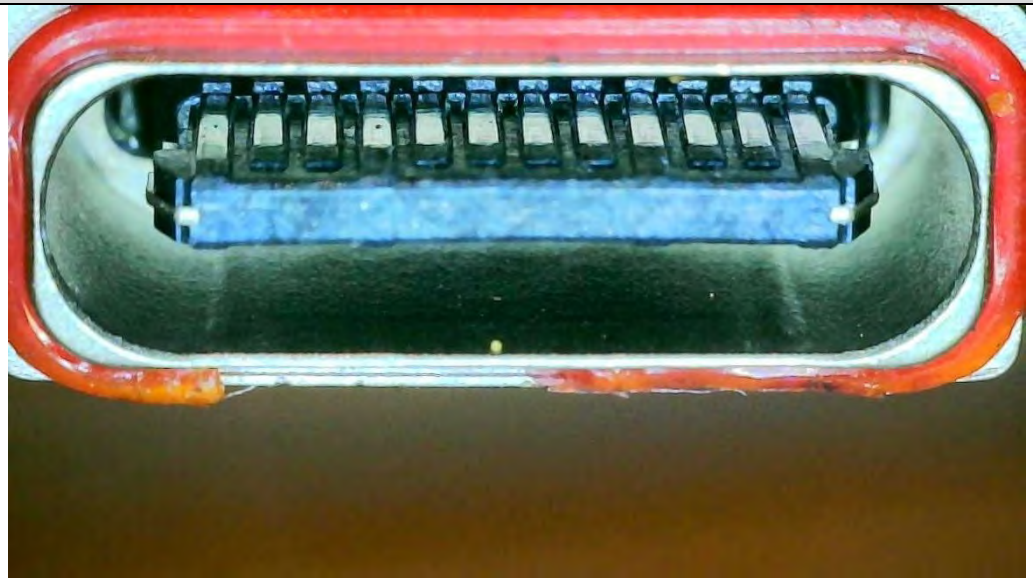
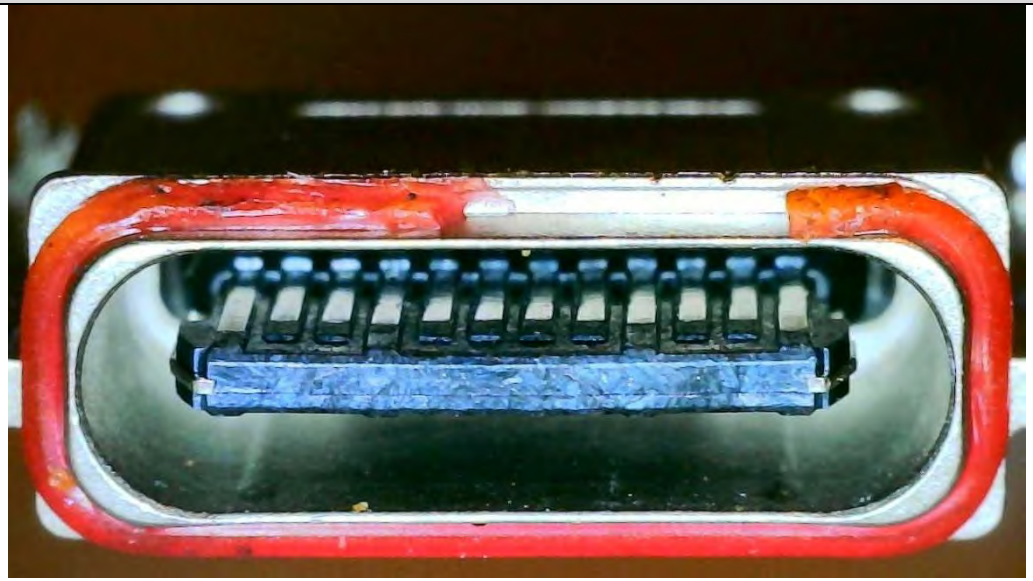
Claim 134 of the '307 Patent	**Evidence of Infringement**
row of first contacts has a functional reverse mirror configuration relative to at least some of the at least one row of second contacts, and the socket structure is thereby configured such that:	

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung Galaxy Tab S9 FE Plus has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Claim 134 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**]

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

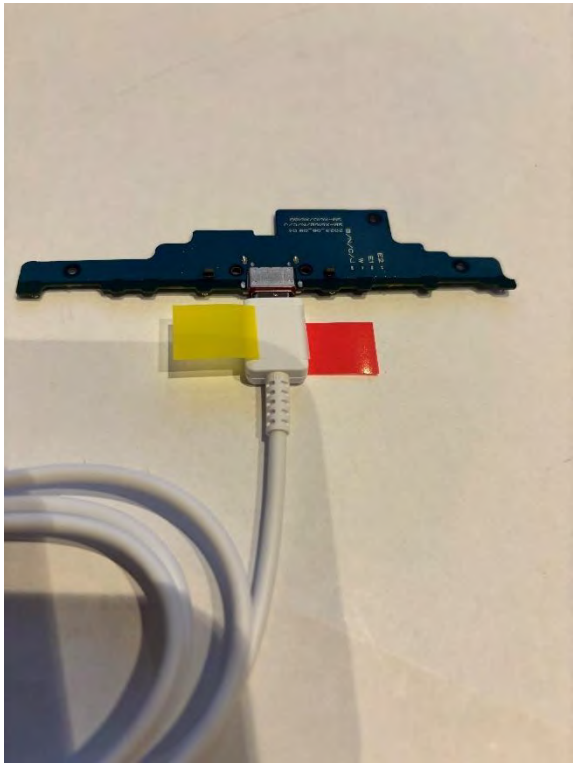
Claim 134 of the '307 Patent	**Evidence of Infringement**
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**134K**] through [**134L**].
[**134K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of	The Samsung Galaxy Tab S9 FE Plus is configured for a first operational state when a USB-C plug is normally inserted into the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

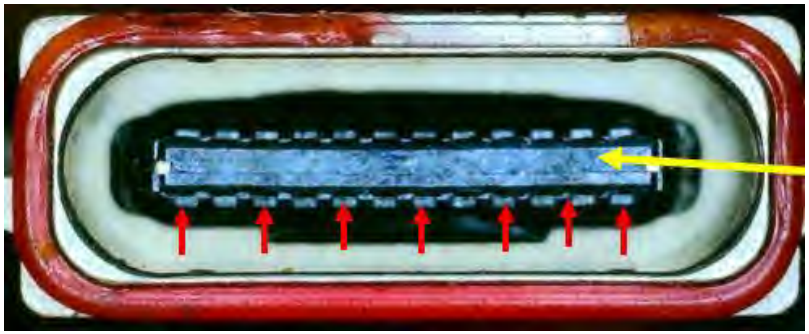
Claim 134 of the '307 Patent	**Evidence of Infringement**
second contacts; and	When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the second surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

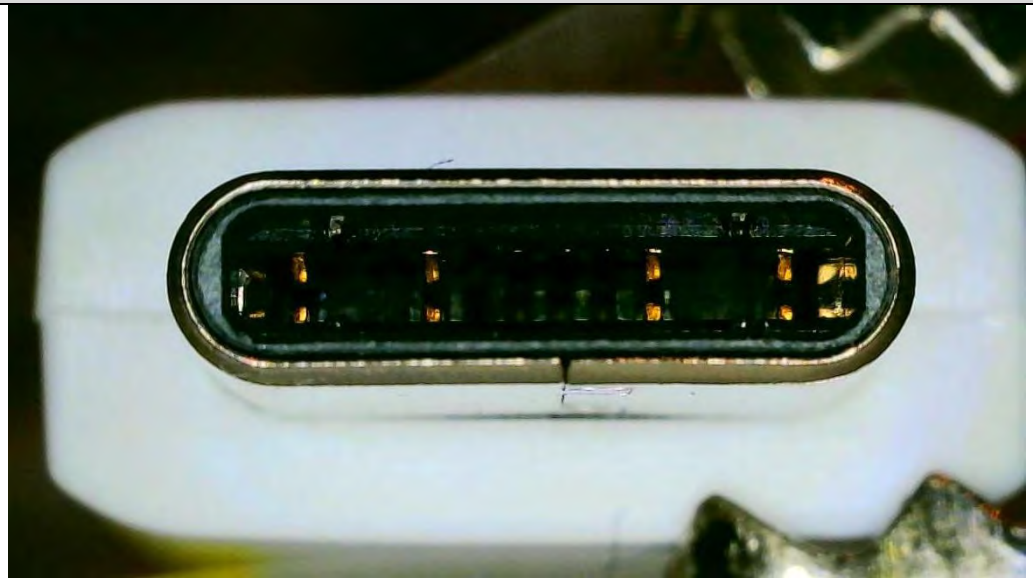
Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C plug showing top and bottom rows of connection terminals) *See also* Element [**34K**]
[**134L**] when the plug is oppositely inserted into the connection slot with the at least one row of	The Samsung Galaxy Tab S9 FE Plus is further configured for a second operational state when the USB-C plug is oppositely inserted into the communication slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

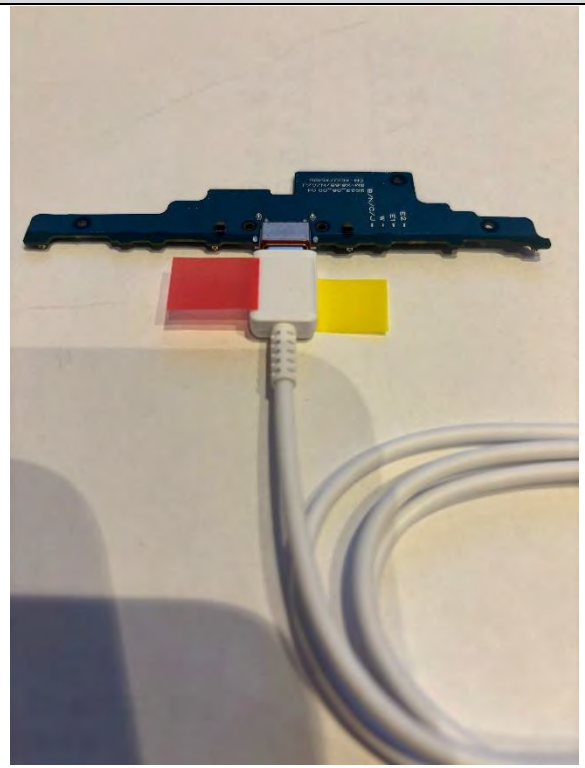
Claim 134 of the '307 Patent	**Evidence of Infringement**
connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the red flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 7 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

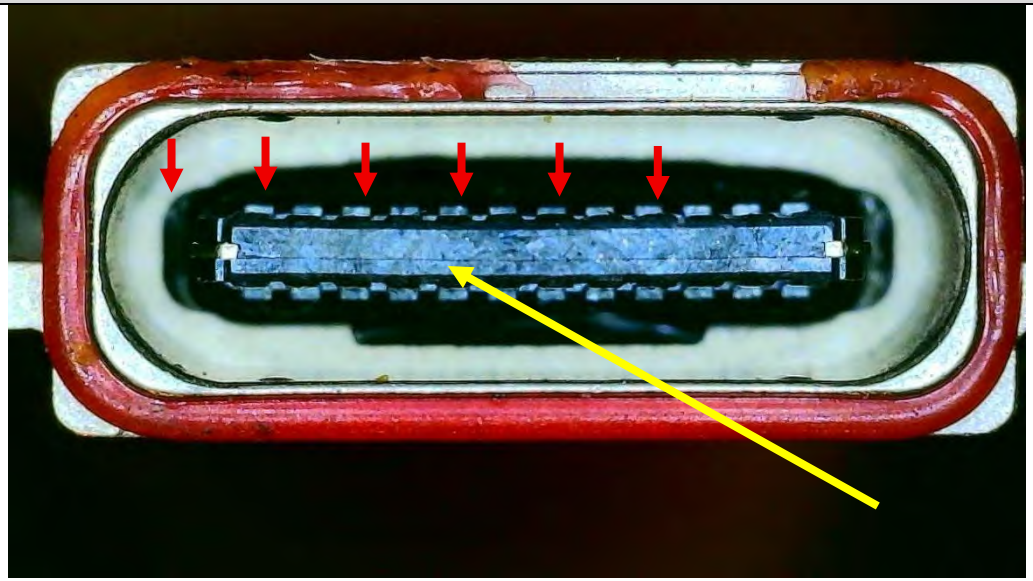
Claim 134 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**]

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

U.S. Patent No. RE50,307

Title: Socket Structure with Duplex Electrical Connection

Inventor: Chou Hsien Tsai

The following chart provides evidence showing that the Samsung S24 FE phone ("S24 FE" or the "Accused Instrumentalities") being made, used, sold, imported, and/or offered for sale in the United States by Samsung Electronics Co., Ltd., Samsung Electronics America, Inc, and/or their affiliates and subsidiaries ("Samsung") infringe claims of the '307 Patent. The below chart is based on publicly available information currently known to KIWI. KIWI reserves the right to supplement or otherwise modify this preliminary claim chart as additional information becomes available.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	**Evidence of Infringement**
[**34A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung S24 FE is a phone that includes a socket structure with duplex electrical connection. In particular, the Samsung S24 FE provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025) The socket on the Samsung S24 FE is a USB-C socket.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

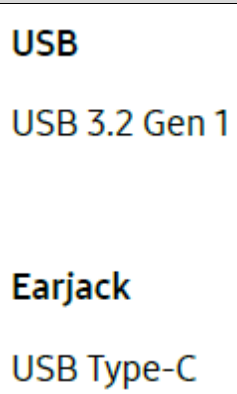
Claim 34 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung S24 FE is packaged with and capable of connecting to a USB-C cable.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

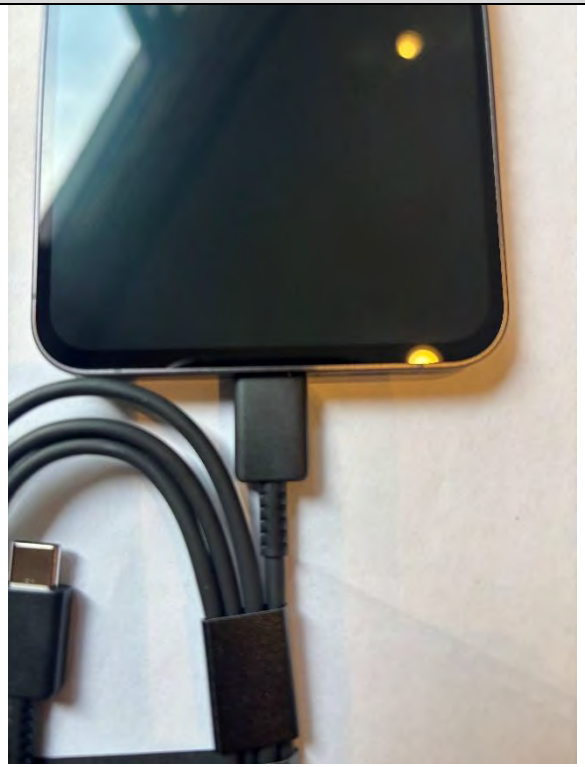
Claim 34 of the '307 Patent	Evidence of Infringement
	 Further details regarding the socket structure are described below in connection with elements [**34B**] through [**34N**].
[**34B**] a plastic base;	The socket structure of the Samsung S24 FE includes a plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

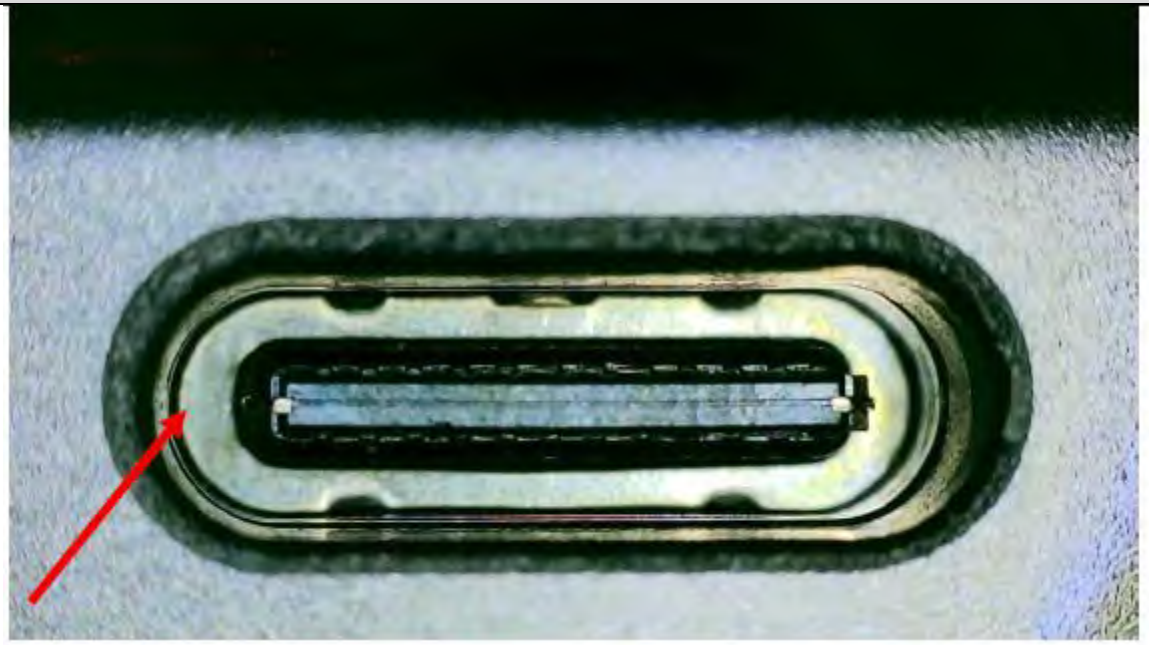
Claim 34 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

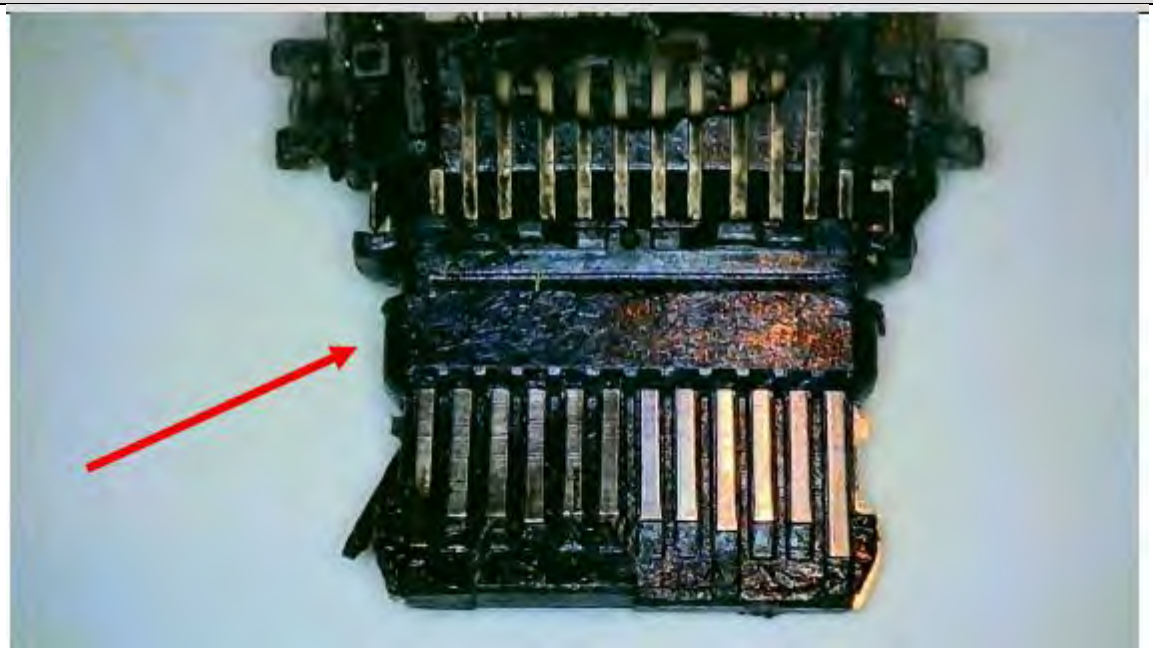
Claim 34 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.)
[**34C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung S24 FE includes a connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

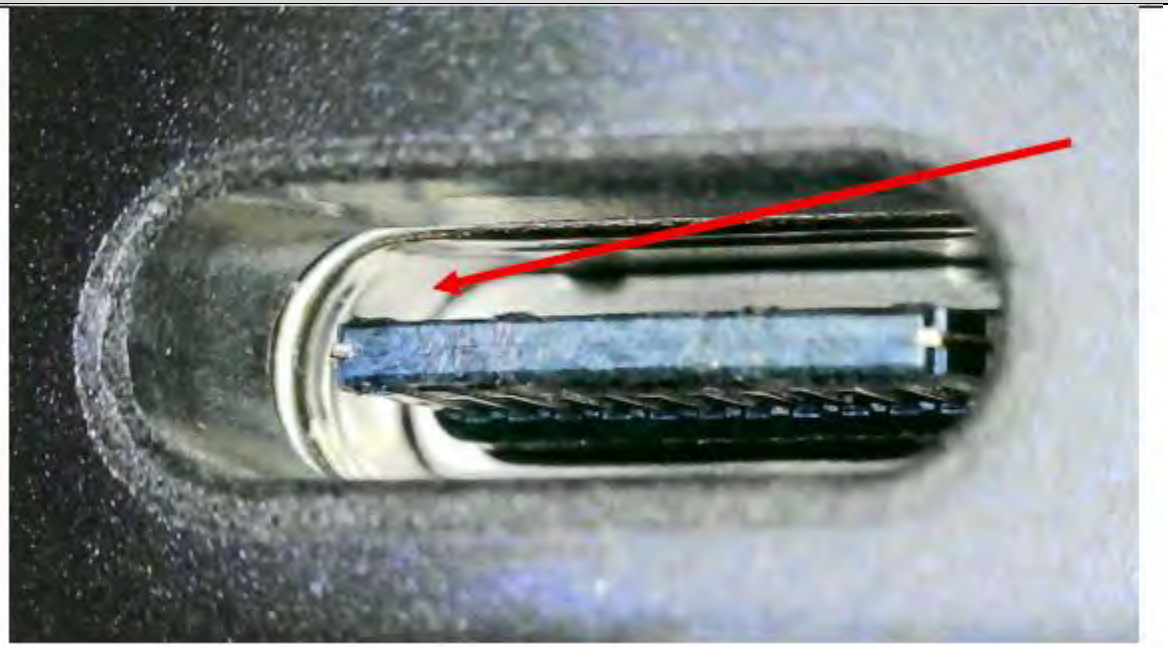
Claim 34 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

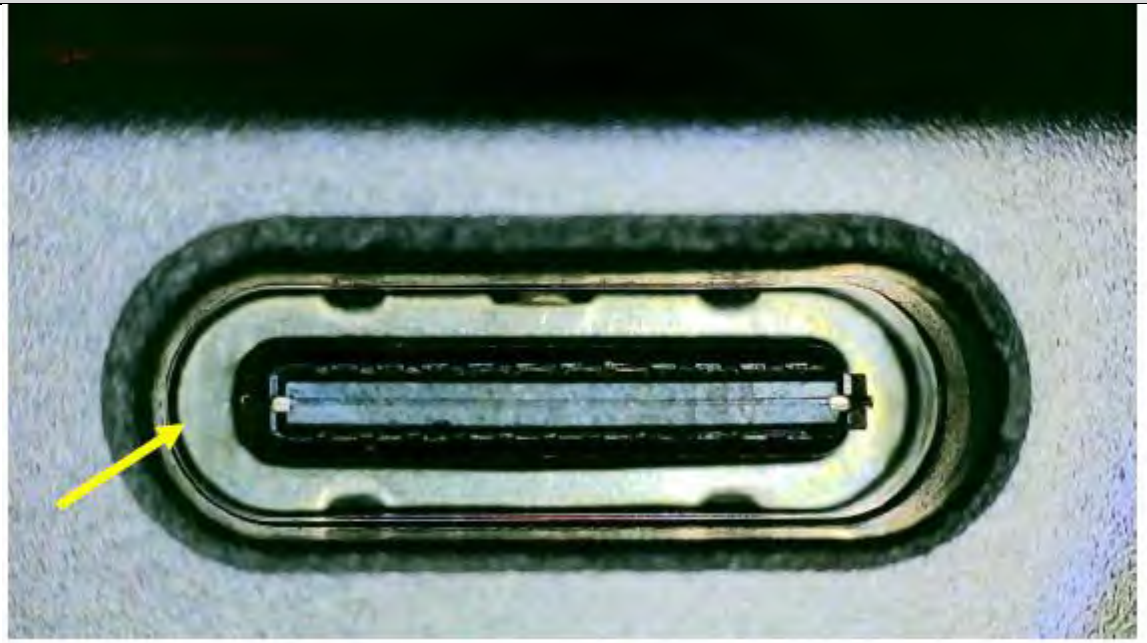
Claim 34 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung S24 FE, as described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

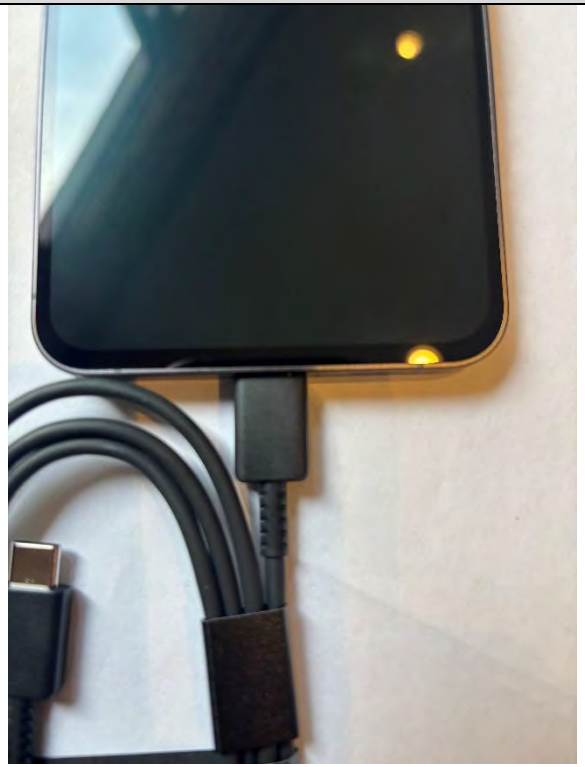
Claim 34 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

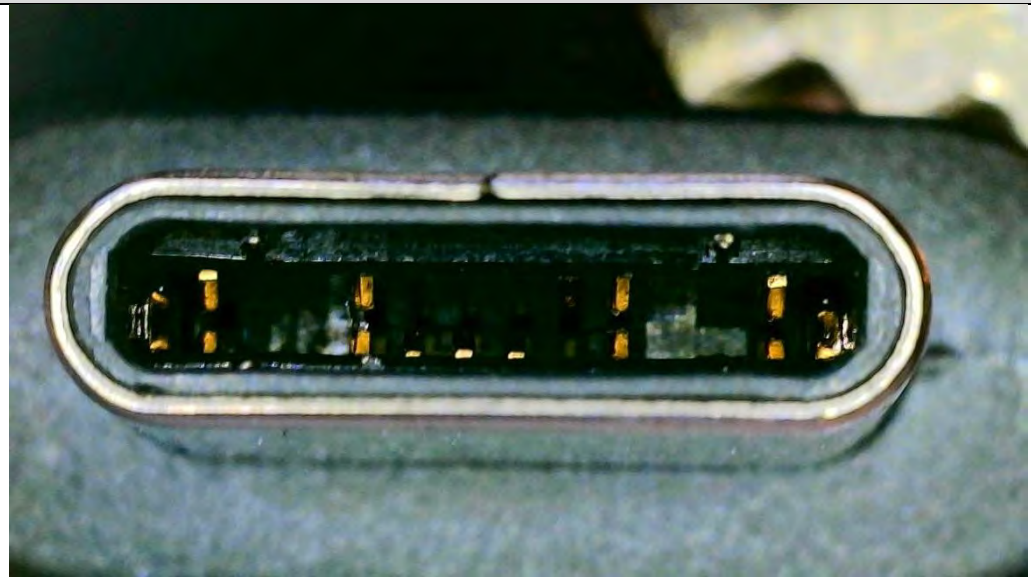
Claim 34 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C plug showing top and bottom rows of connection terminals.)
[**34D**] a tongue, which has a first surface with grooves, and a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung S24 FE includes a tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

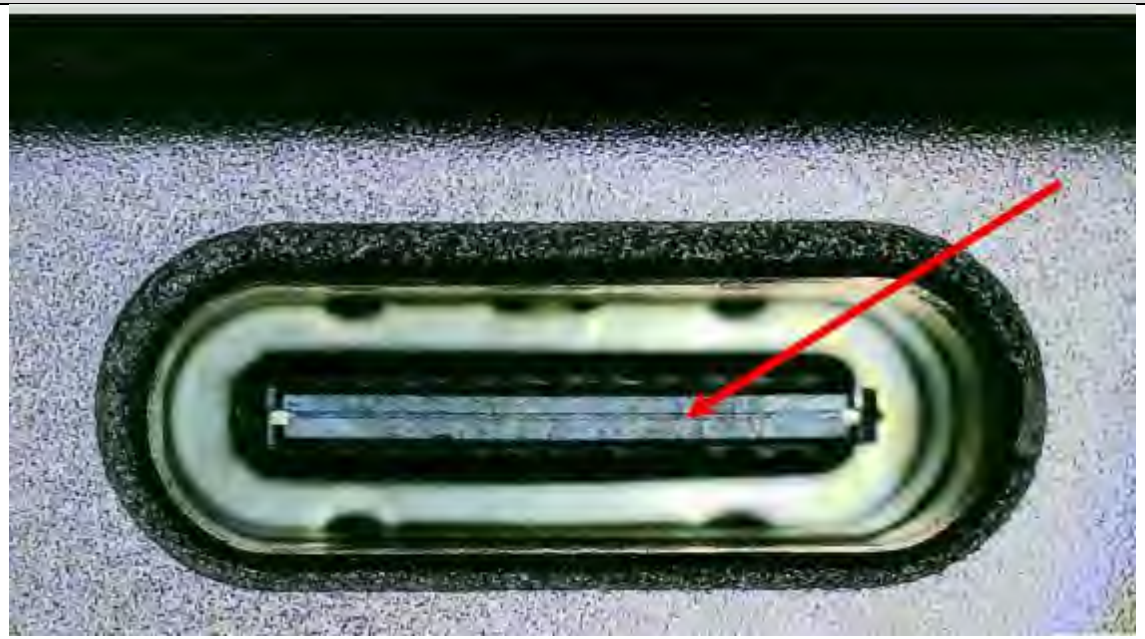
Claim 34 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

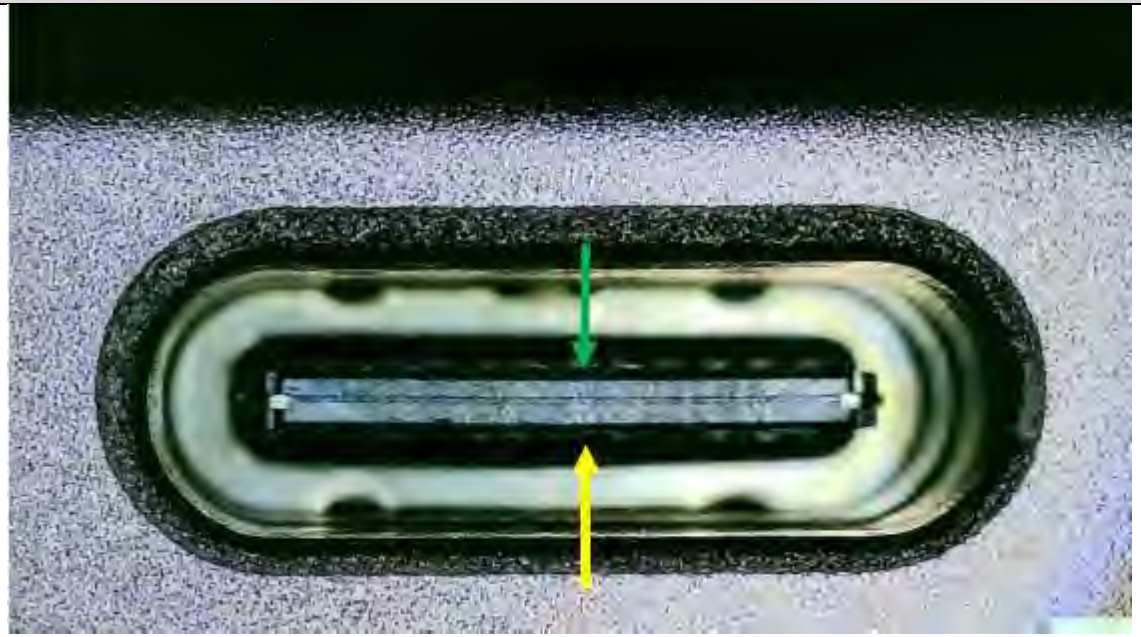
Claim 34 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

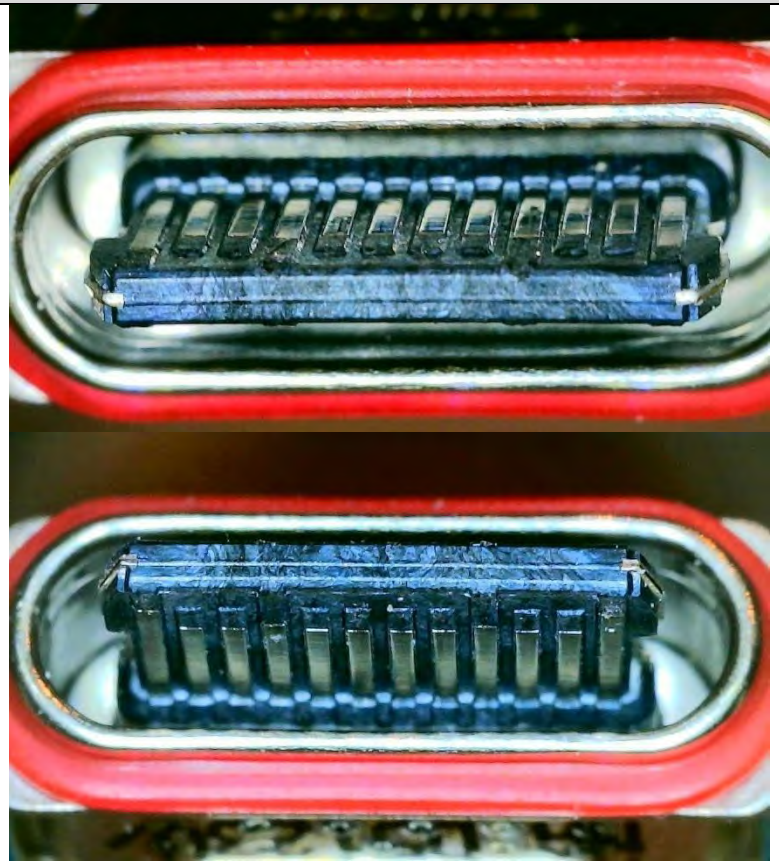
Claim 34 of the '307 Patent	Evidence of Infringement
	
[**34E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two	The tongue of the Samsung S24 FE (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

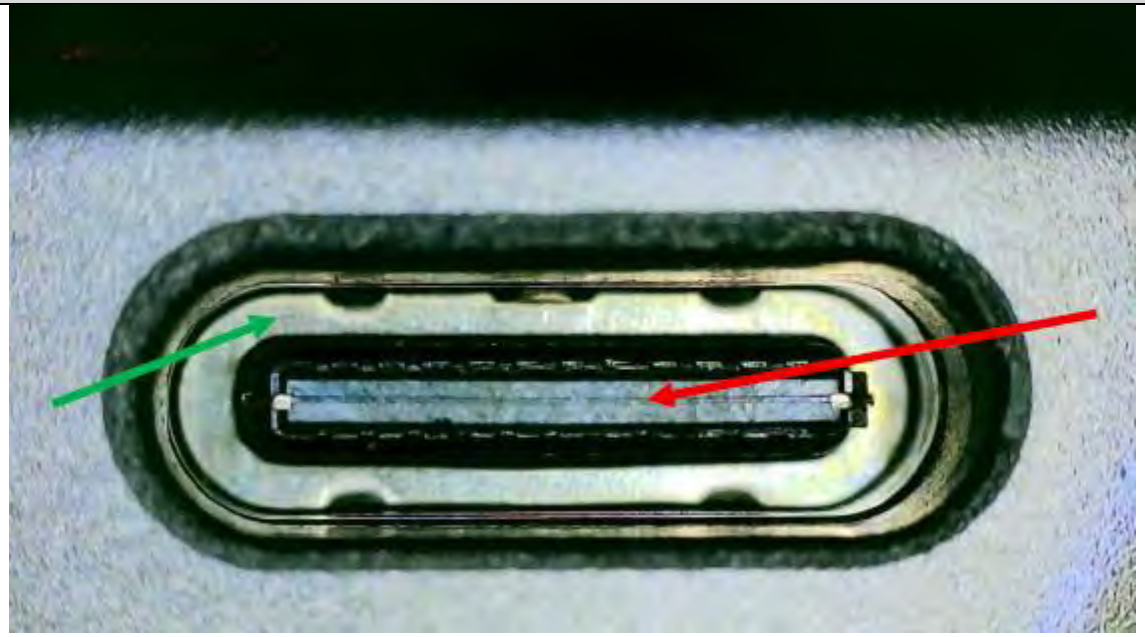
Claim 34 of the '307 Patent	Evidence of Infringement
sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by a blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

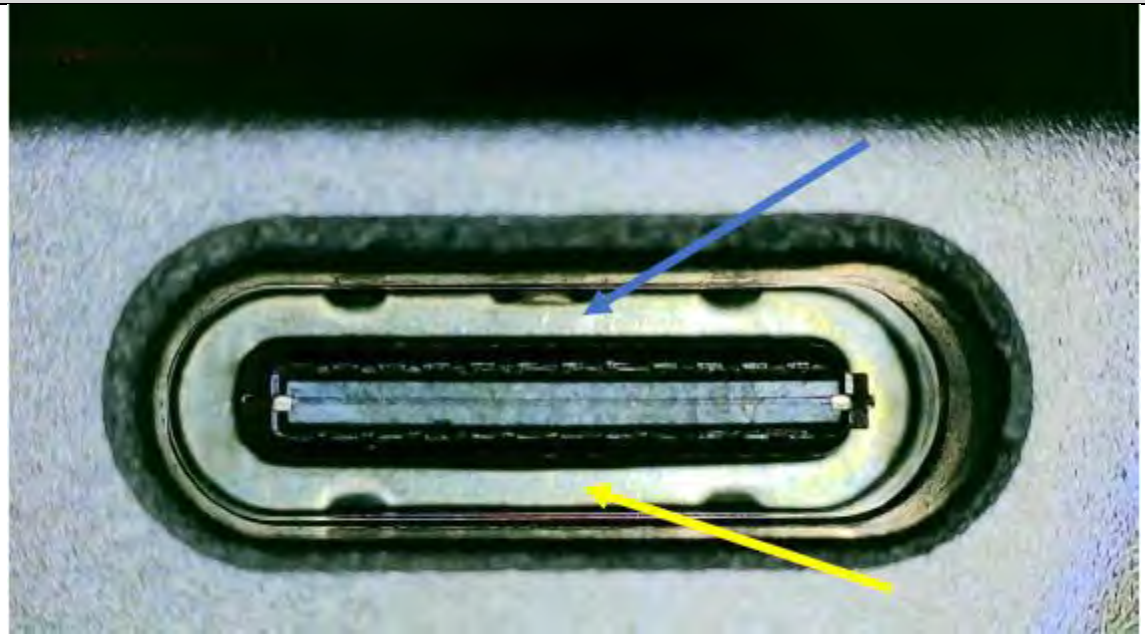
Claim 34 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

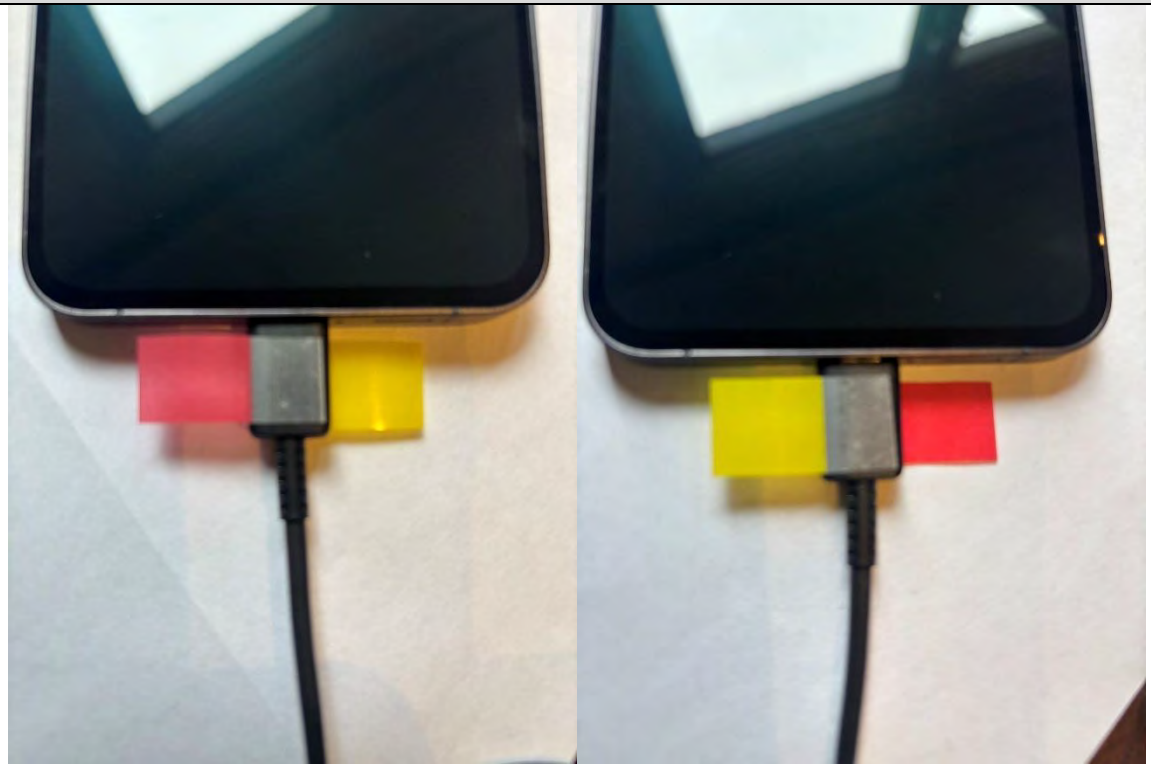
Claim 34 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the second structure of the Samsung S24 FE when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on bottom (second image).
[**34F**] at least one row of first contacts separately arranged on the first surface of the	The socket structure of the Samsung S24 FE includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

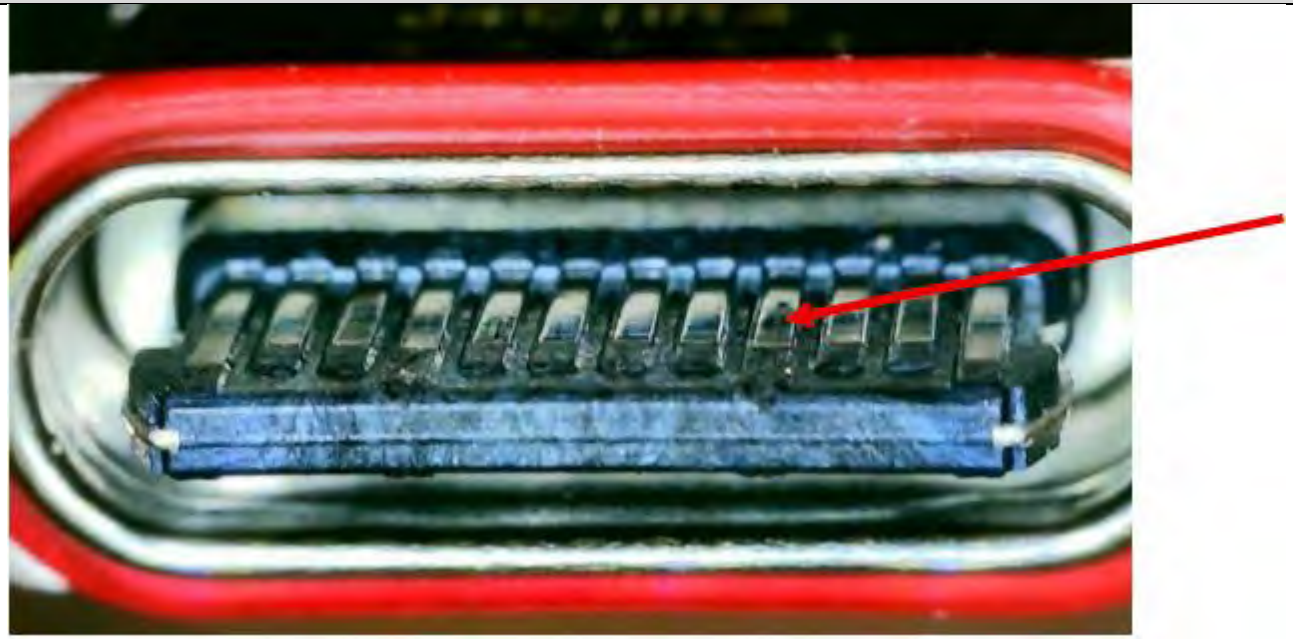
Claim 34 of the '307 Patent	Evidence of Infringement
tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

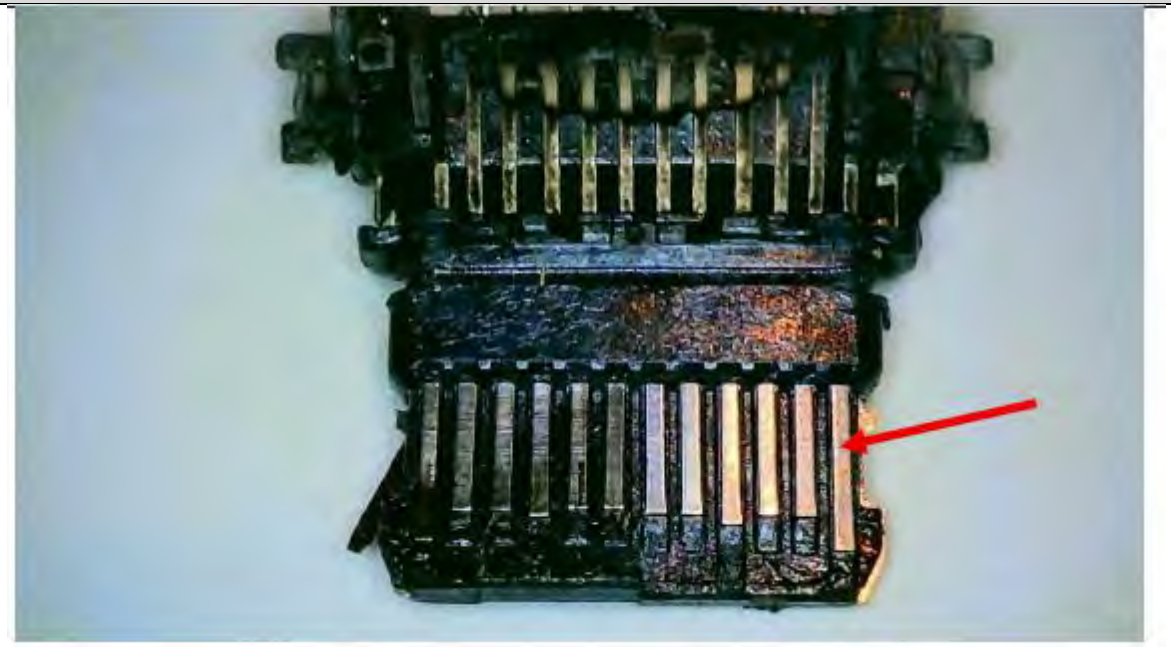
Claim 34 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung S24 FE includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung S24 FE includes two rows of twelve pins extending out of the base. On information and belief, the bottom row of pins corresponds to the first contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image showing underside of socket structure where it connects to PCB.) This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung S24 FE is a USB-C socket and/or compatible with the USB-C cables).

Furthermore, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

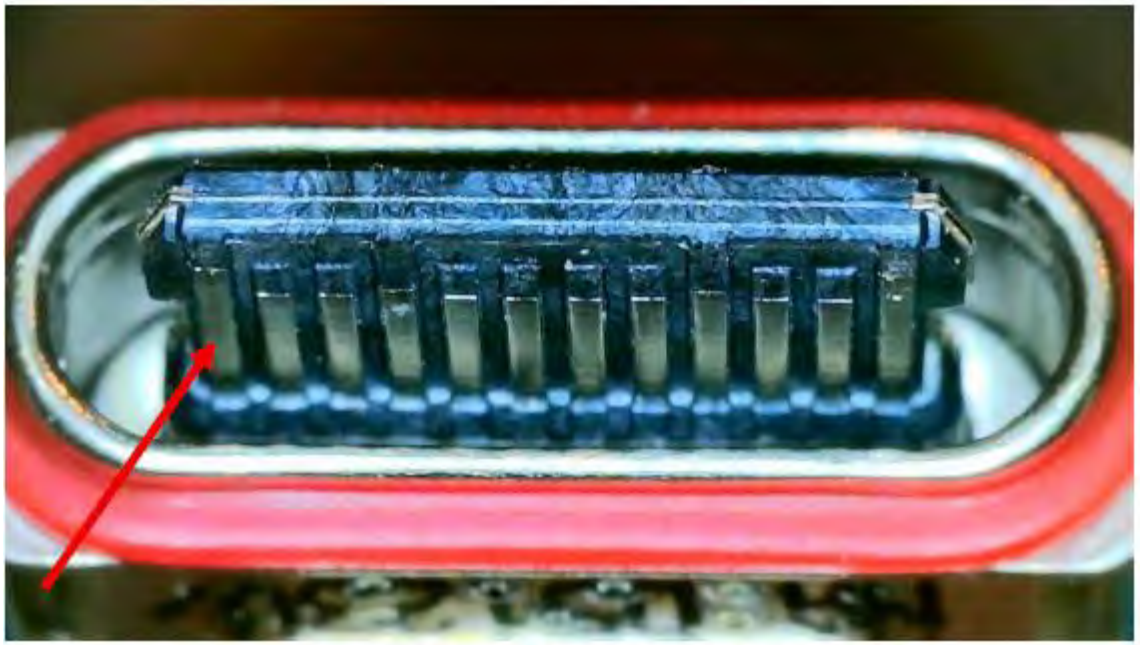
Claim 34 of the '307 Patent	**Evidence of Infringement**
[**34G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung S24 FE includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

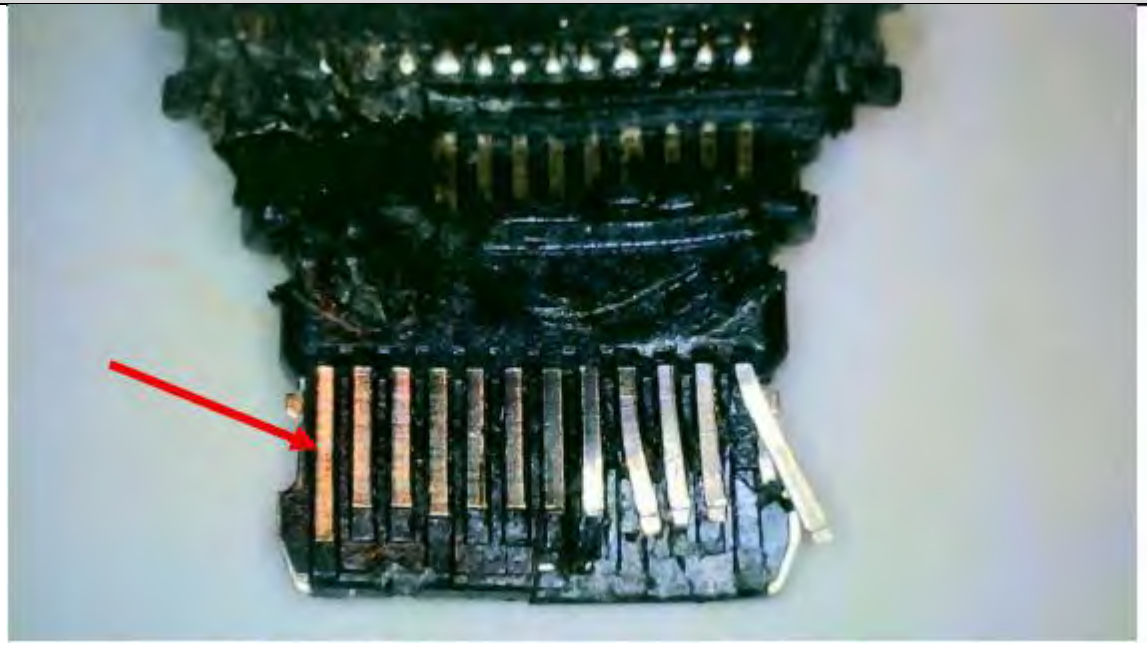
Claim 34 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Samsung S24 FE.)
[**34H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. On information and belief, the top row of pins in the image below corresponds to the second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image showing socket structure where it connects to PCB.) In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34F**].
[**34I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

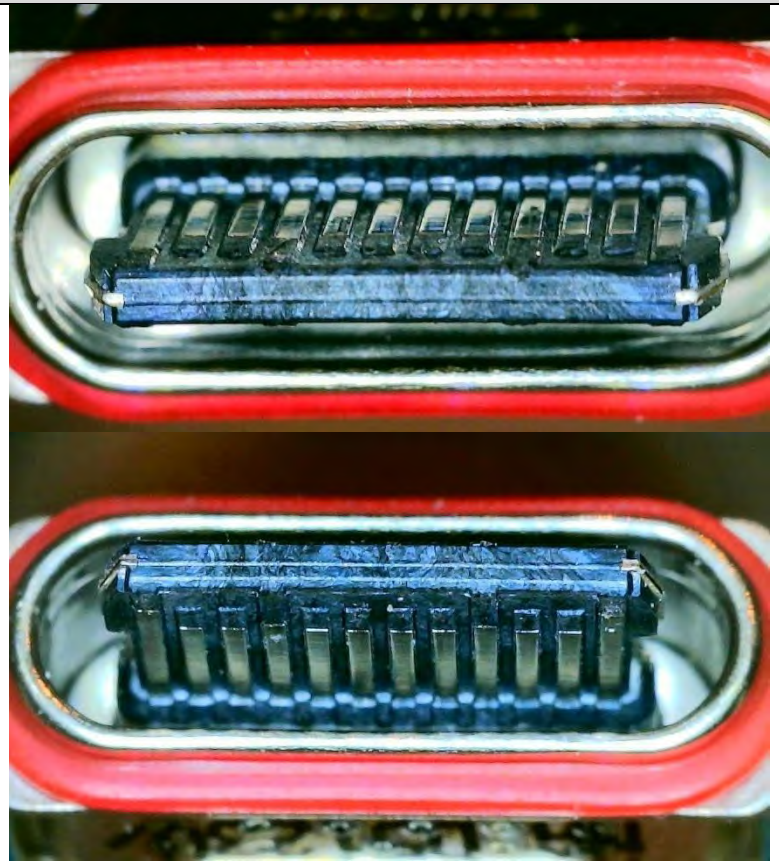
Claim 34 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

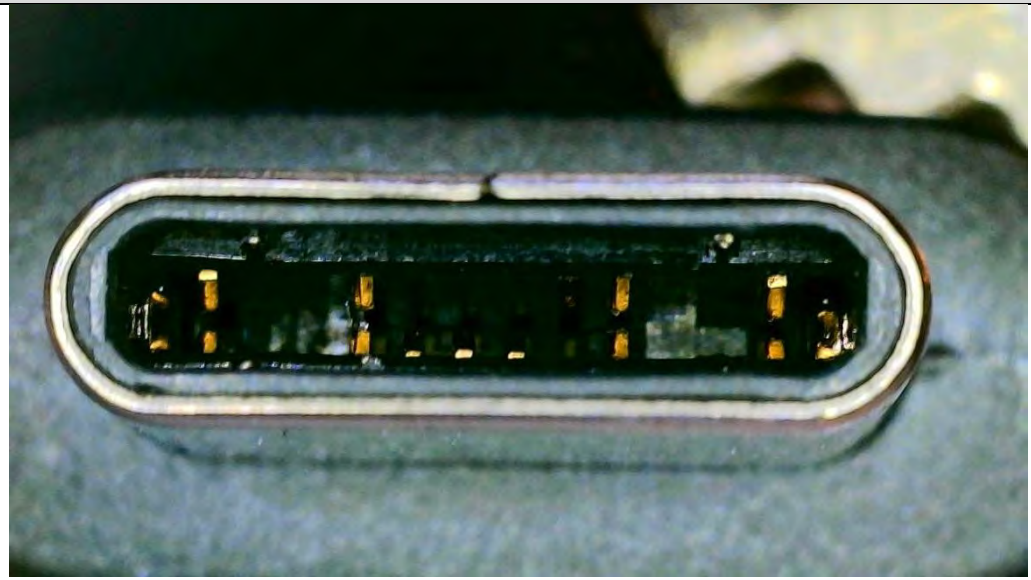
Claim 34 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15.
[**34J**] the at least one row of first contacts has a functional reverse mirror	The first row of contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

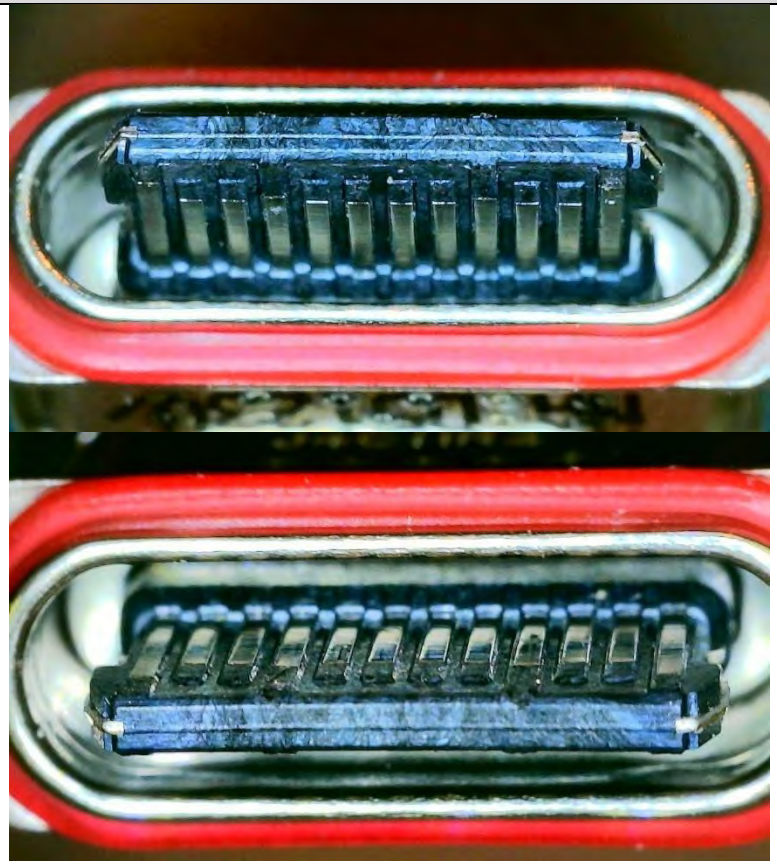
Claim 34 of the '307 Patent	Evidence of Infringement
configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	 In addition, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

The socket structure is thereby configured for two operational states, as described below in connection with elements [**34K**] through [**34N**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

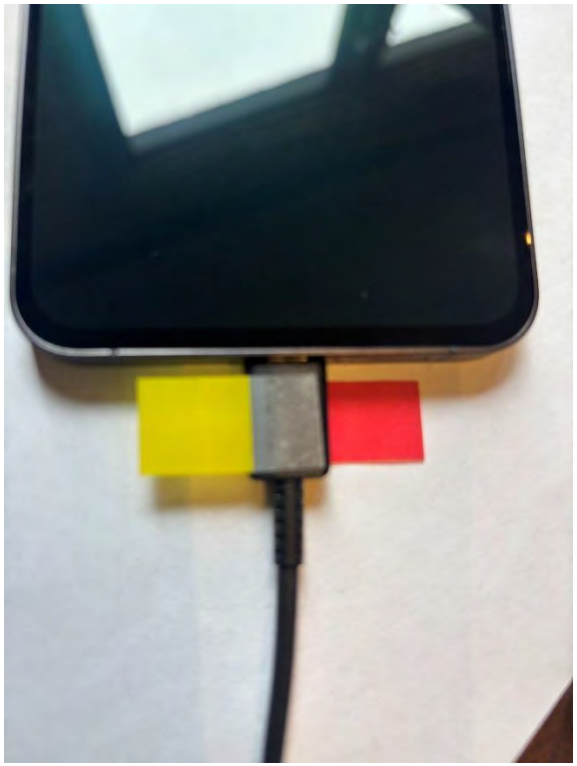
Claim 34 of the '307 Patent	Evidence of Infringement
[**34K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed within the connection slot,	The Samsung S24 FE is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug faces the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extending inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

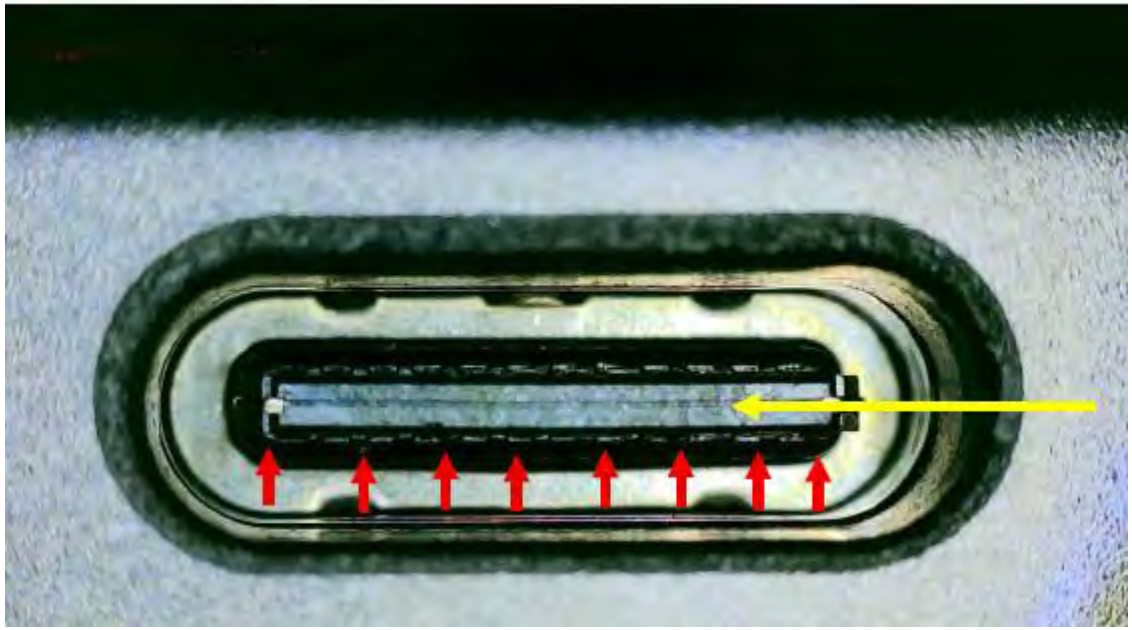
Claim 34 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

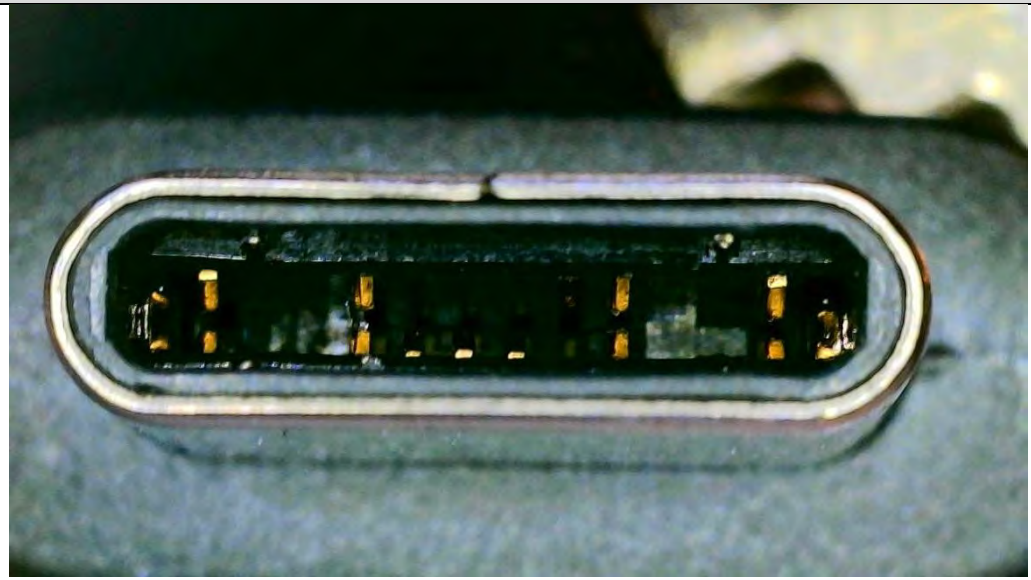
Claim 34 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable showing top and bottom rows of connection terminals.)
[**34L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung S24 FE is configured for a first operational state as described above in connection with element [**34K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

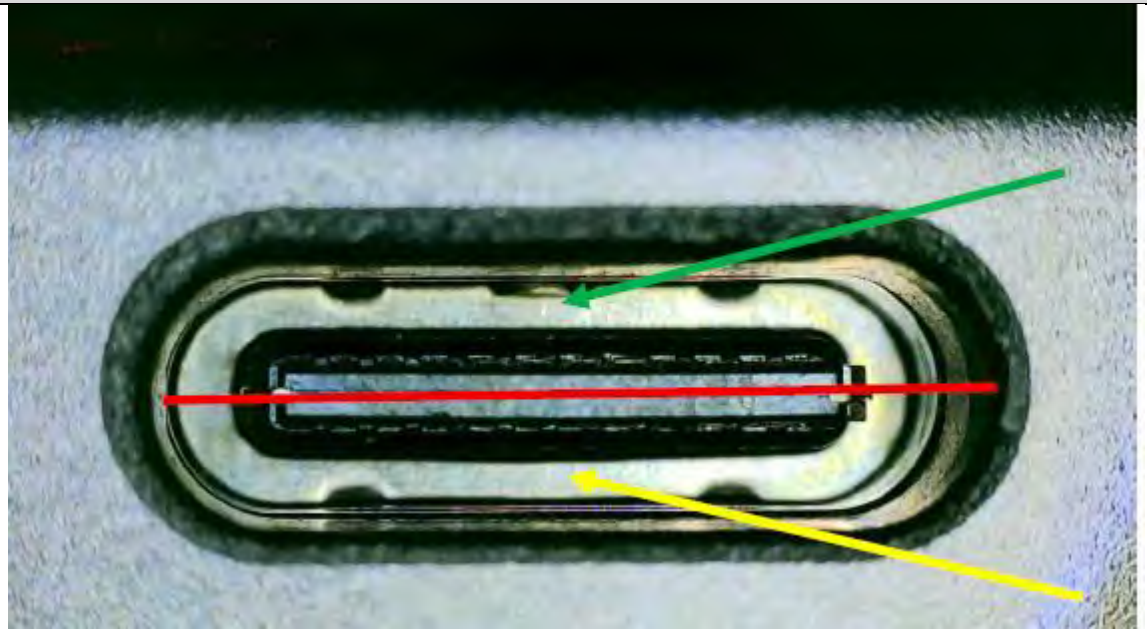
Claim 34 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

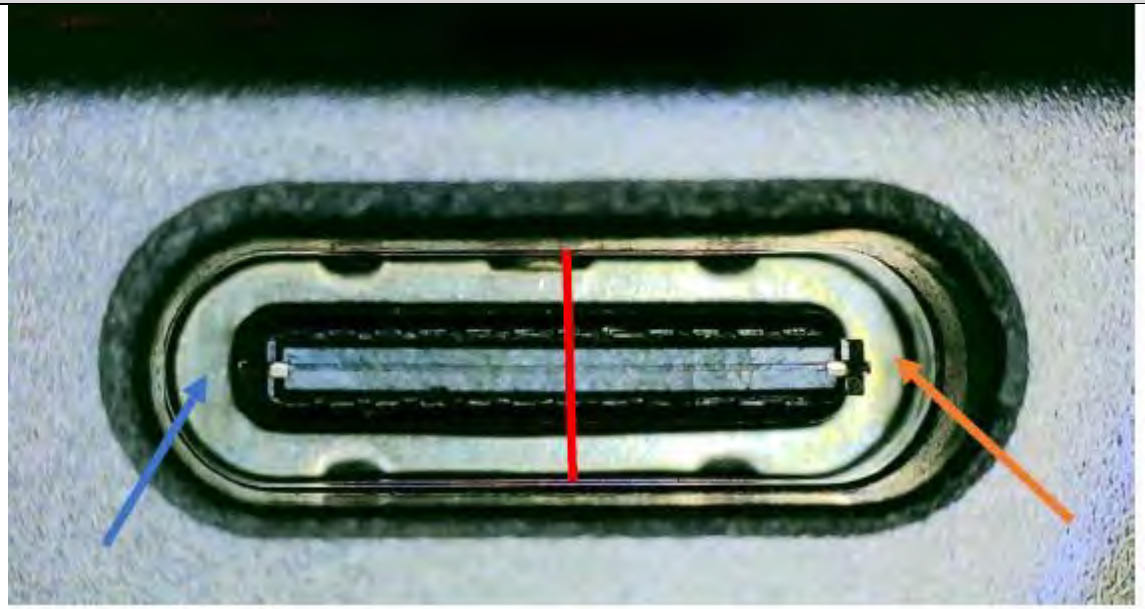
Claim 34 of the '307 Patent	Evidence of Infringement
	
[**34M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at	The Samsung S24 FE is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
least one row of first contacts, and the tongue is disposed within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extending inward from the plug face marked with the red flag so as to electrically connection with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

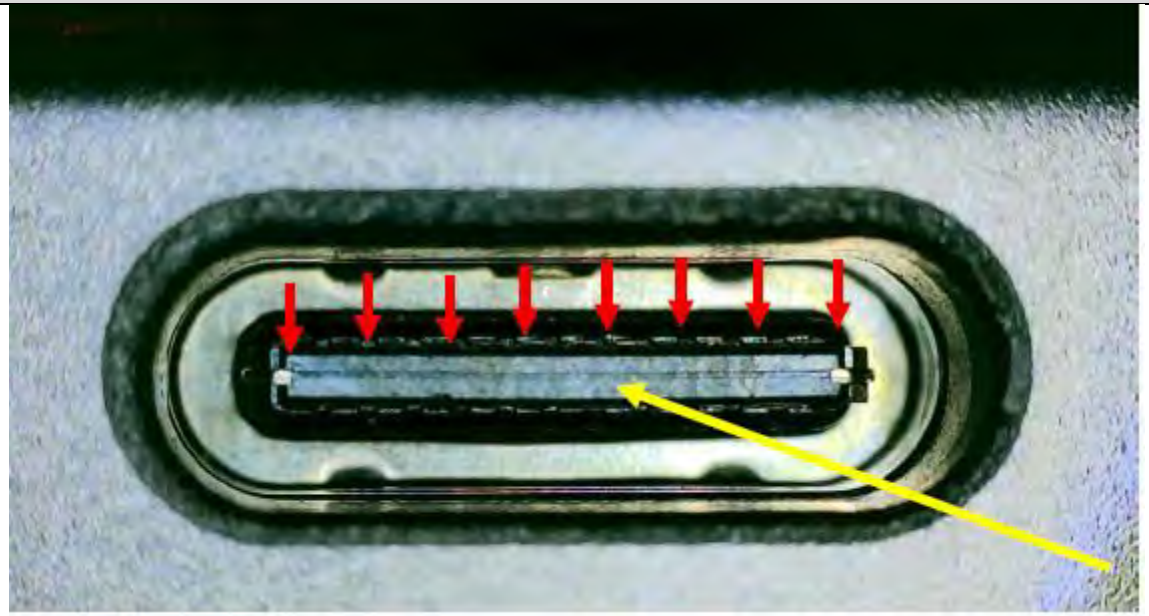
Claim 34 of the '307 Patent	Evidence of Infringement
	
[**34N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**34L**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

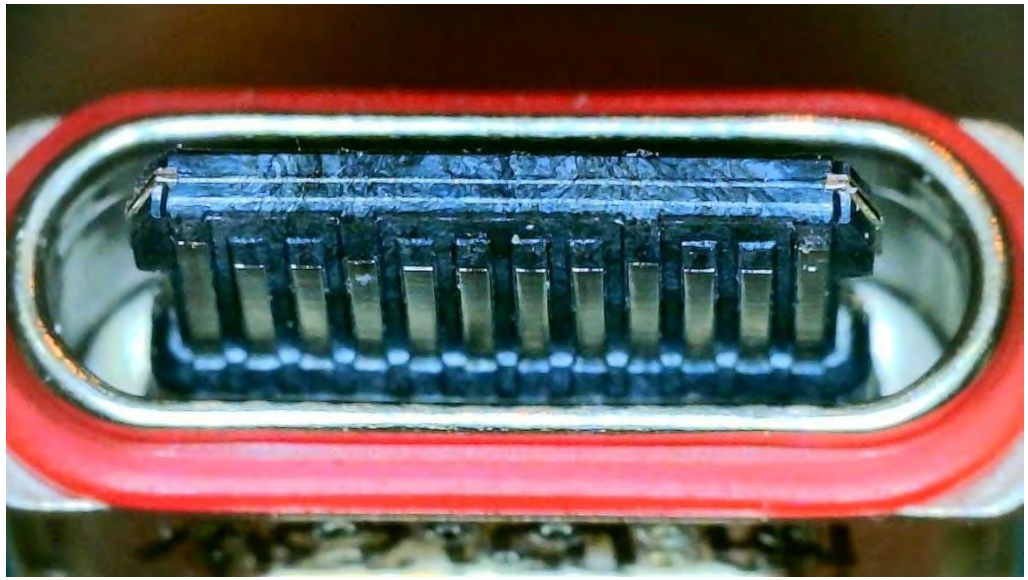
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
[**35A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**35B**] wherein the tongue only contacts an interior portion of the plug when the plug is inserted.	The tongue of the Samsung S24 FE only contacts an interior portion of the plug when the plug is inserted. In particular, the tongue of the Samsung S24 FE is designed to fit inside the USB plug such that the electrical contacts on the top and bottom of the tongue come into contact with the electrical contacts on the interior top and bottom of the USB plug. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

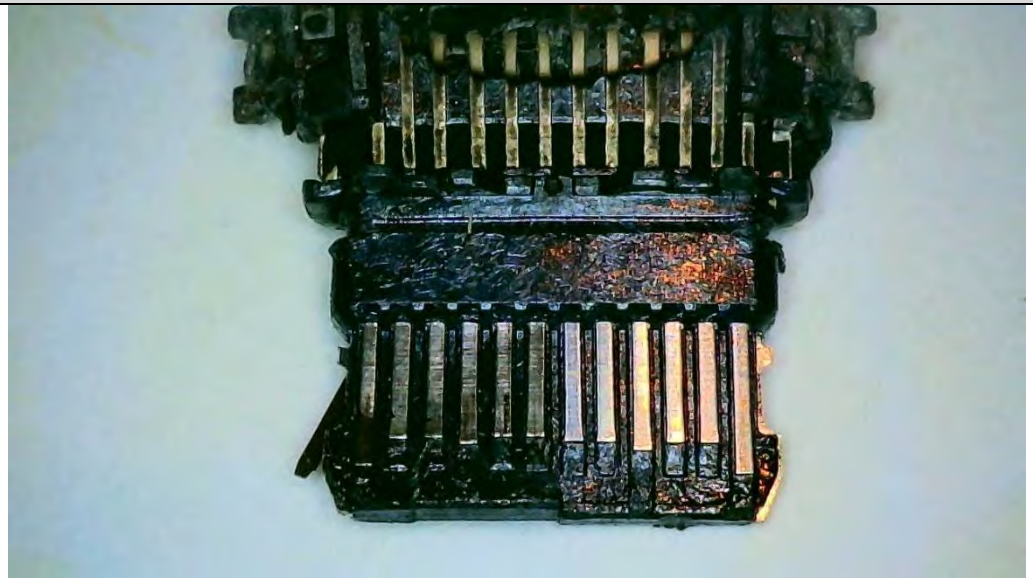
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Images showing contacts on surface of tongue.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

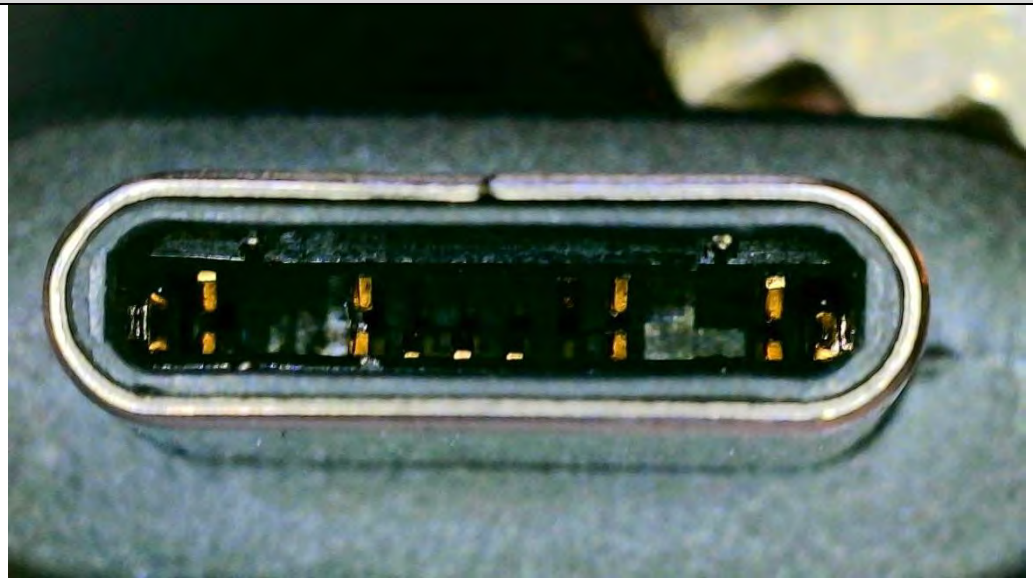
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C plug showing top and bottom rows of connection terminals.)
[**36A**] The socket structure of claim 35,	This Accused Instrumentality includes a socket structure as described in claim 35, as described above in connection with elements [**35A**] through [**35B**].
[**36B**] wherein a thickness of the tongue is less than a third of a height of the connection slot.	The Samsung S24 FE includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 [illegible] S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). The USB-C standard specifies that the width of the tongue is 0.7 mm and that the width of the receptacle is at least 2.5 mm, meaning that the thickness of the tongue is less than a third of the thickness of the connection slot (0.7/2.5=0.28<0.33).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

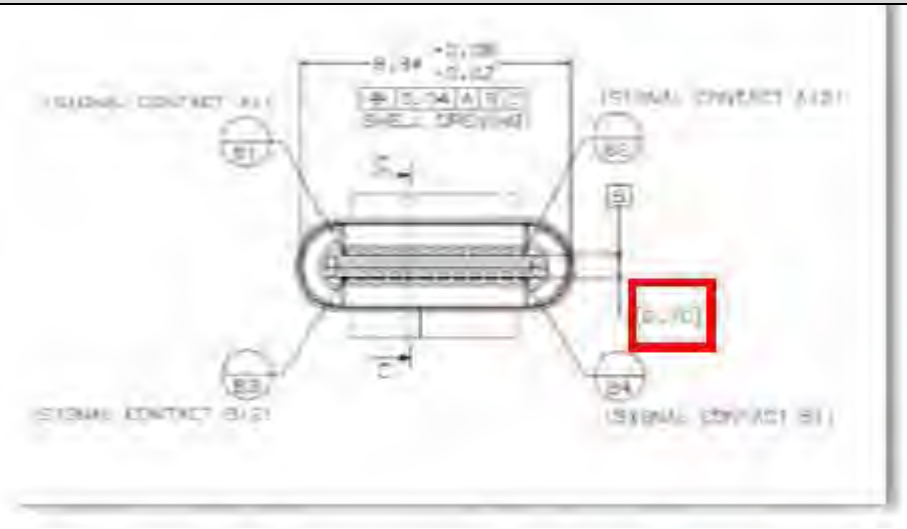
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

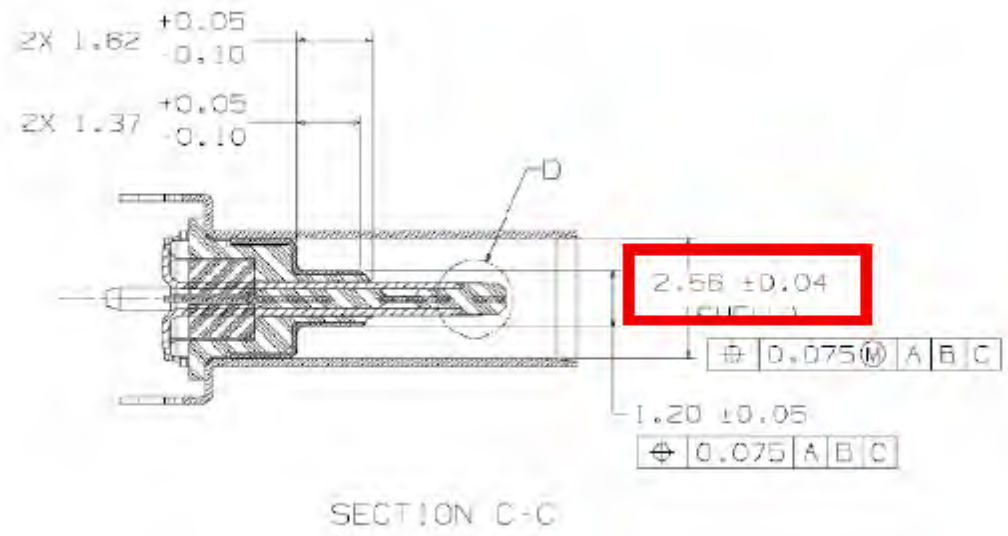
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 *Id.*

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

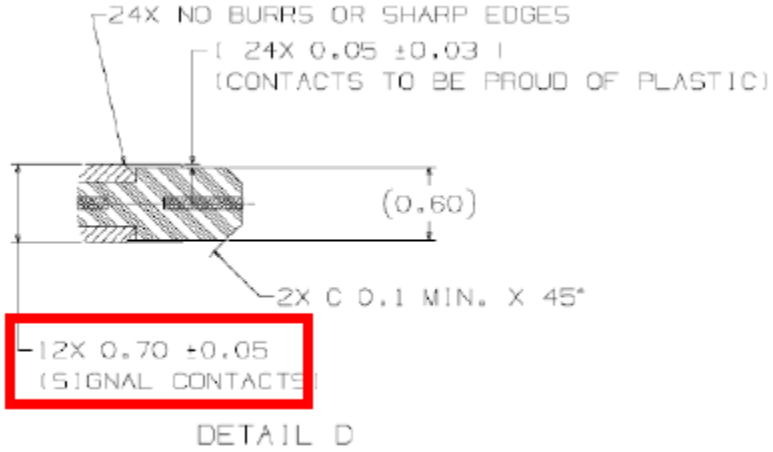
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 *Id.* In addition, testing confirms that a thickness of the tongue is less than a third of a height of the connection slot.
[**39A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**39B**] further comprising a metal housing at least partially covering the plastic base.	The Samsung S24 FE includes a metal housing that covers the plastic base at least in part.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 (Image of socket structure of Samsung S24 FE.)
[**40A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**40B**] wherein the socket structure is a universal serial bus socket structure.	The socket structure of the Samsung S24 FE is a universal serial bus, or USB, socket structure.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025).
[**41A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

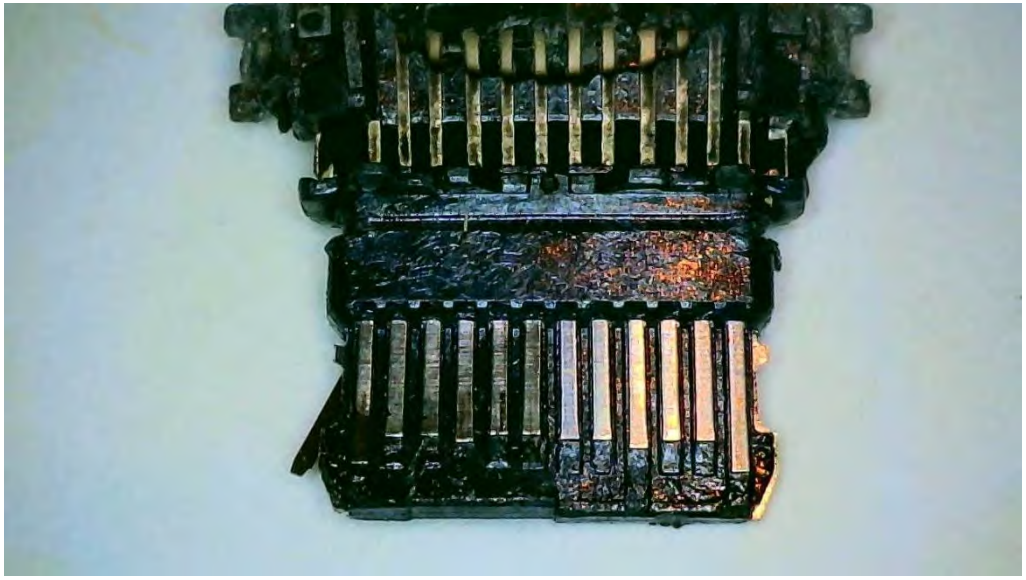
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
[**41B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base of the Samsung S24 FE are integrally formed. 
[**42A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**42B**] wherein each contact of the first and second contacts is a portion of a respective terminal.	Each of the first and second contacts of the Samsung S24 FE is a portion of a respective terminal.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

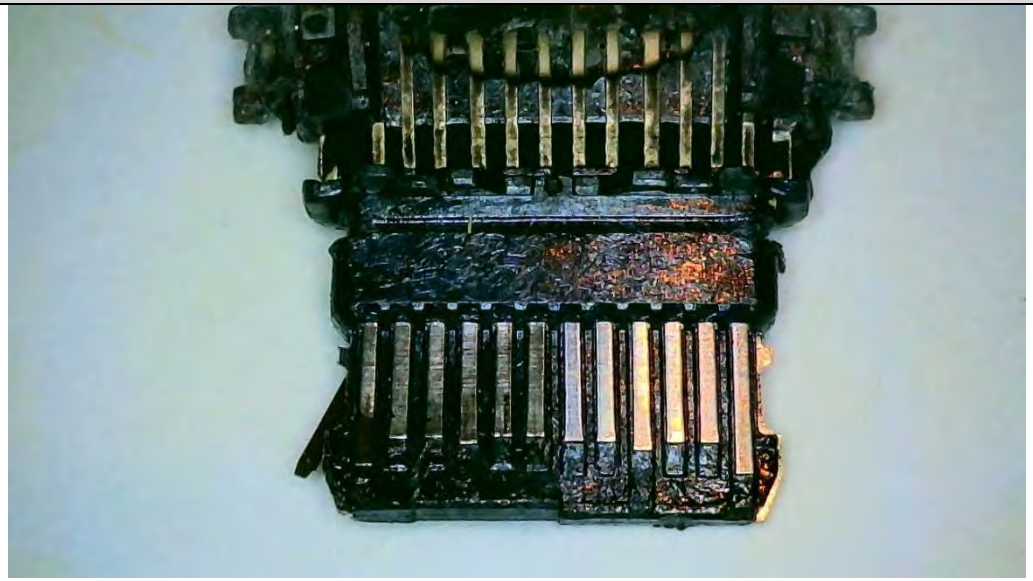
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	
[**43A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**43B**] wherein each of the first contacts is electrically connected to the respective first pin extending out of the plastic base through a rear cover and each of the second	Each of the first and second contacts is electrically connected to a respective first and second pins extending out of the plastic base. As demonstrated above in connection with elements [**34F**] and [**34G**], the socket structure of the Samsung S24 FE includes twelve first contacts and twelve second contacts corresponding to 24 pins extending out from the plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
contacts is electrically connected to the respective second pin extending out of the plastic base through the rear cover.	 (Image of socket structure of Samsung S24 FE.) The pins extend out of the plastic base through a rear cover.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

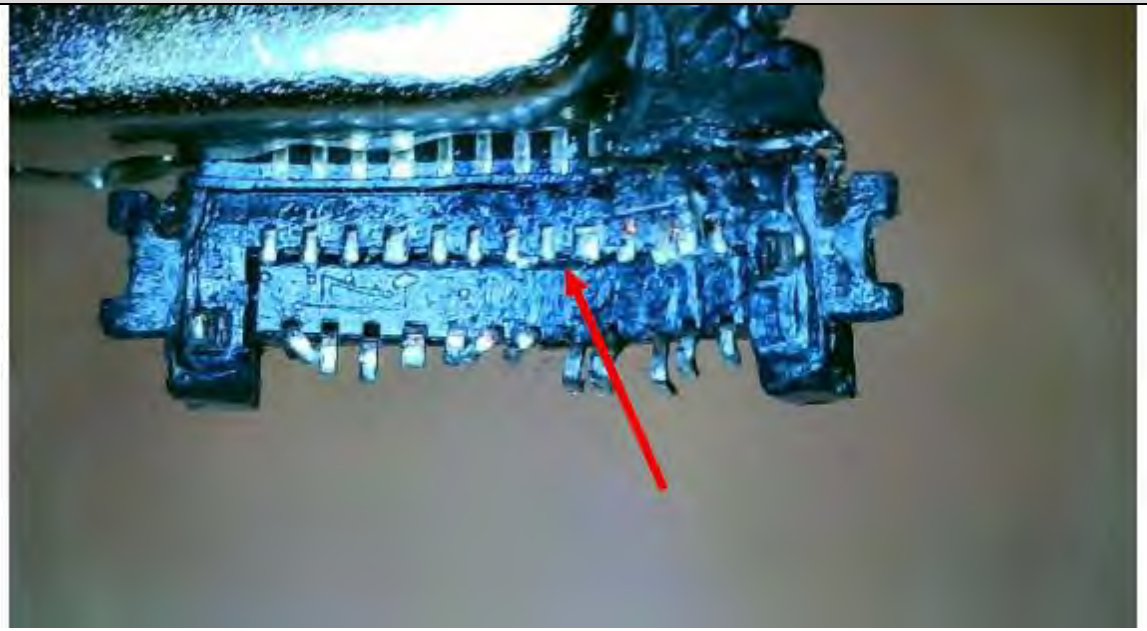
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 (Image of socket structure of Samsung S24 FE.)
[**44A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**44B**] wherein at least two of the first contacts are not in electrical communication with one another, and at least two of the second	At least one of each of the first and second contacts of the Samsung S24 FE are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung S24 FE includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementation with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
contacts are not in electrical communication with one another.	

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The Samsung S24 FE would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

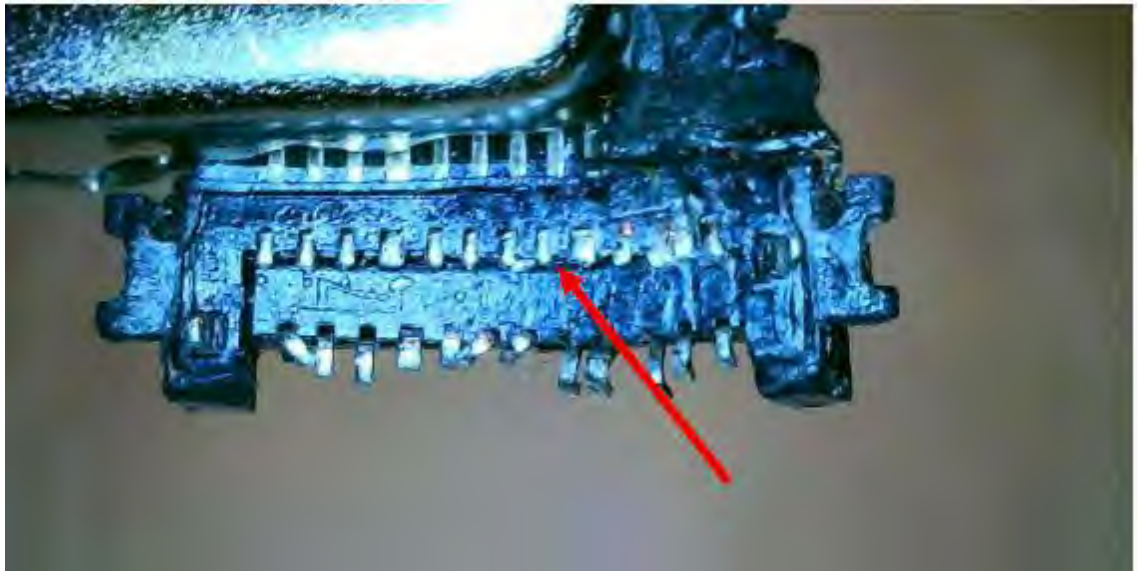
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	Furthermore, test results confirm that at least some of the contacts on both sides of the tongue are not in electrical communication with others of the contacts on the same side.
[**45A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**45B**] further comprising a rear cover attached to the plastic base.	The Samsung S24 FE includes a rear cover attached to the plastic base.  (Image of socket structure of Samsung S24 FE.)
[**46A**] The socket structure of claim 45,	This Accused Instrumentality includes a socket structure as described in claim 45, as described above in connection with elements [**45A**] through [**45B**].
[**46B**] wherein each of the first	Each of the first and second contacts is electrically connected to a respective first and second pins extending out of the plastic base. As demonstrated above in connection with elements [**34F**] and [**34G**], the socket

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
contacts is electrically connected to the respective first pin extending out of the plastic base through the rear cover.	structure of the Samsung S24 FE includes twelve first contacts and twelve second contacts corresponding to 24 pins extending out from the plastic base.  (Image of socket structure of Samsung S24 FE.) The pins extend out of the plastic base through a rear cover.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

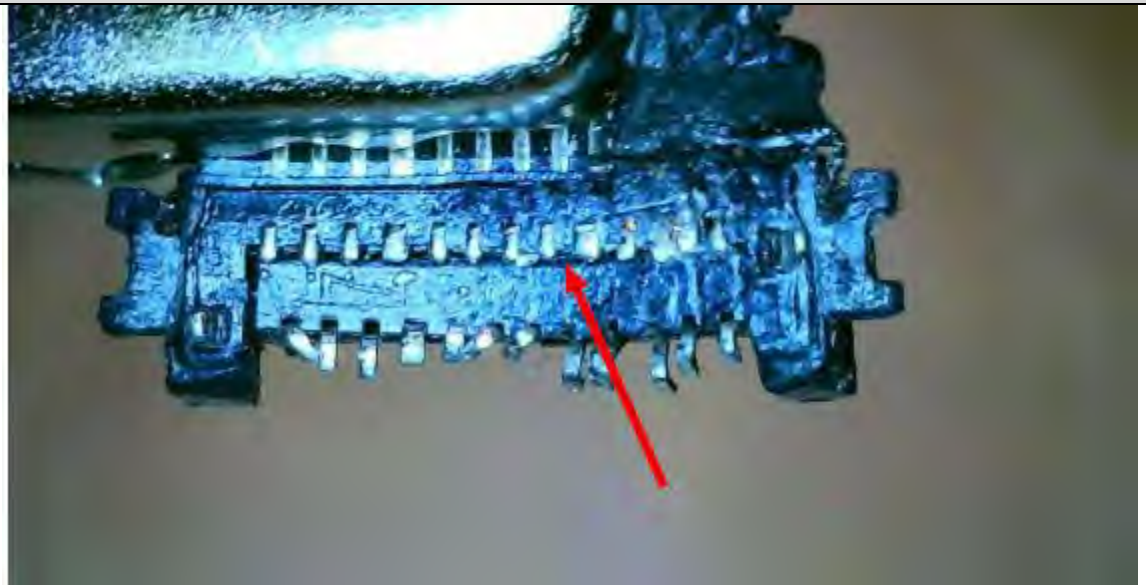
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 (Image of socket structure of Samsung S24 FE.) *See also* Element [**43B**].
[**47A**] The socket structure of claim 45,	This Accused Instrumentality includes a socket structure as described in claim 45, as described above in connection with elements [**45A**] through [**45B**].
[**47B**] wherein each of the second contacts is electrically connected to the respective second	Each of the first and second contacts is electrically connected to a respective first and second pins extending out of the plastic base. As demonstrated above in connection with elements [**34F**] and [**34G**], the socket structure of the Samsung S24 FE includes twelve first contacts and twelve second contacts corresponding to 24 pins extending out from the plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
pin extending out of the plastic base through the rear cover.	 (Image of socket structure of Samsung S24 FE.) The pins extend out of the plastic base through a rear cover.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

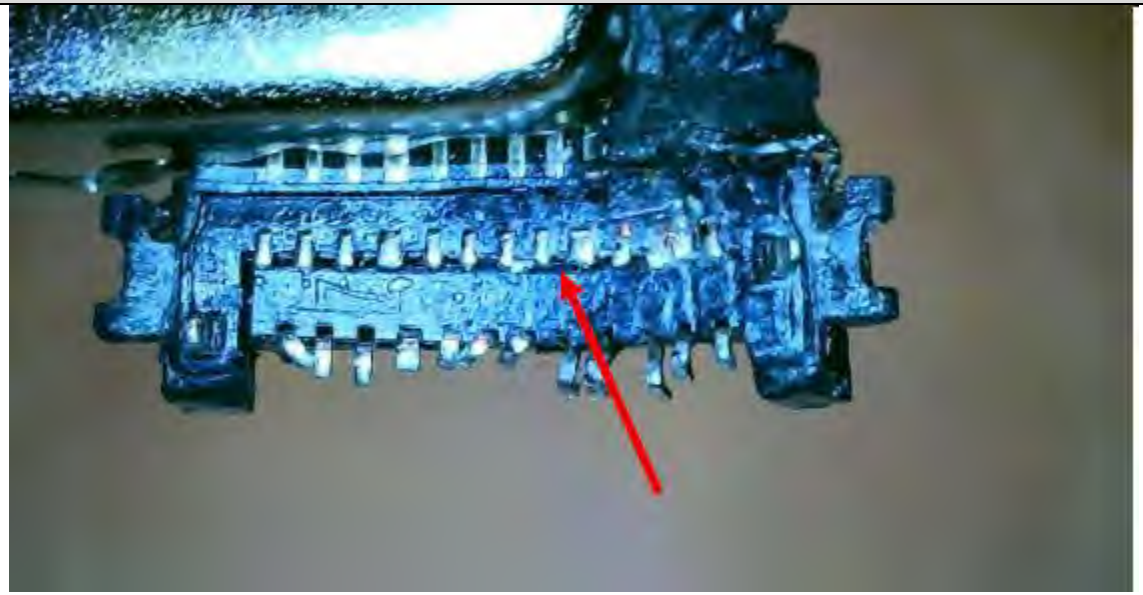
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 (Image of socket structure of Samsung S24 FE.) *See also* Element [**43B**].
[**48A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**48B**] wherein the socket structure is operatively connected to the plug, and wherein the socket	When the plug is connected with the socket structure, the socket structure is operatively connected to the plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

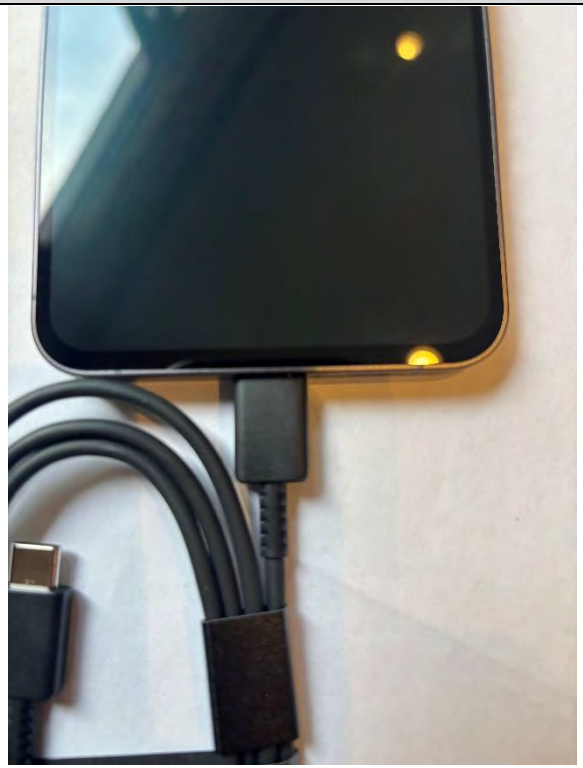
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
structure is operative to simultaneously electrically connect with the first and second contacts.	 The Samsung S24 FE is packaged with a USB-C cable, as further described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Samsung also provides instructions to its customers to insert the USB cable into the USB port of a phone or tablet for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

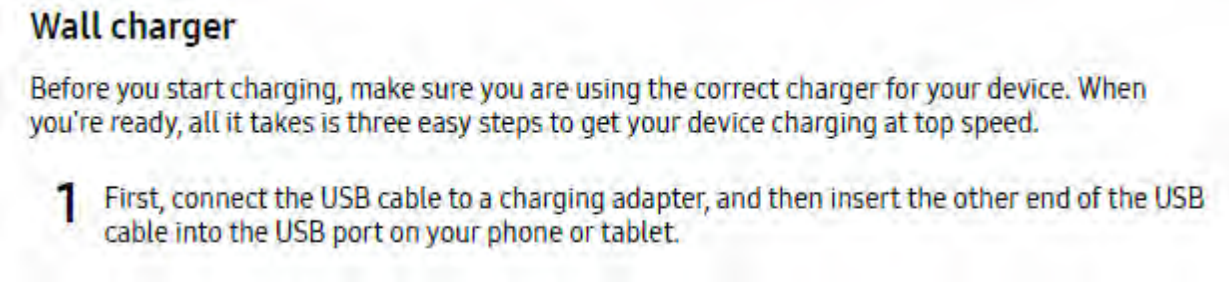
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, a primary purpose of the socket structure of the Samsung S24 FE is to connect a USB cable to the rechargeable battery of the Samsung S24 FE via the socket structure, which thereby provides power to the Samsung S24 FE and enables its use.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	In this configuration, the socket structure is operative to simultaneously electrically connect with the first and second contacts, as demonstrated above in connection with element [**34I**].
[**49A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**49B**] wherein at least two of the first contacts are not in electrical communication with one another.	At least one of each of the first and second contacts of the Samsung S24 FE are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung S24 FE includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementation with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The Samsung S24 FE would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	Furthermore, test results confirm that at least some of the contacts on both sides of the tongue are not in electrical communication with others of the contacts on the same side. *See also* Element [**44B**].
[**50A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**50B**] wherein at least two of the second contacts are not in electrical communication with one another.	At least one of each of the first and second contacts of the Samsung S24 FE are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung S24 FE includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementation with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The Samsung S24 FE would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

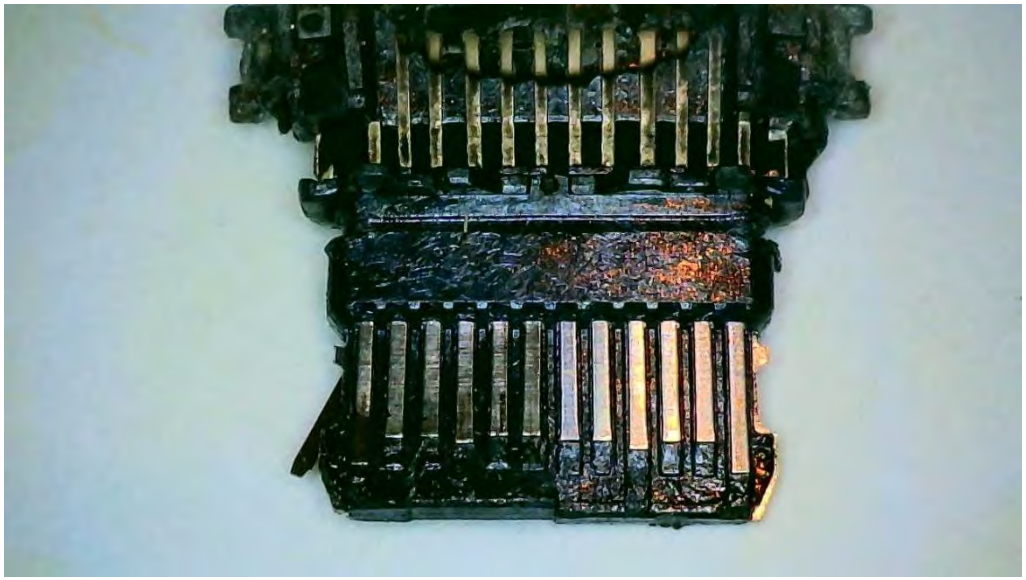
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	Furthermore, test results confirm that at least some of the contacts on both sides of the tongue are not in electrical communication with others of the contacts on the same side. *See also* Element [**44B**].
[**51A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**51B**] wherein the at least one row of first contacts and respective first pins are located at ends of respective ones of a row of first terminals and the at least one row of second contacts and respective second pins are located at ends of respective ones of a row of second terminals.	The contacts and pins in the Samsung S24 FE are each located at the ends of a corresponding terminal. In particular, each of the first contacts and second contacts is located at one end of a row of terminals. 

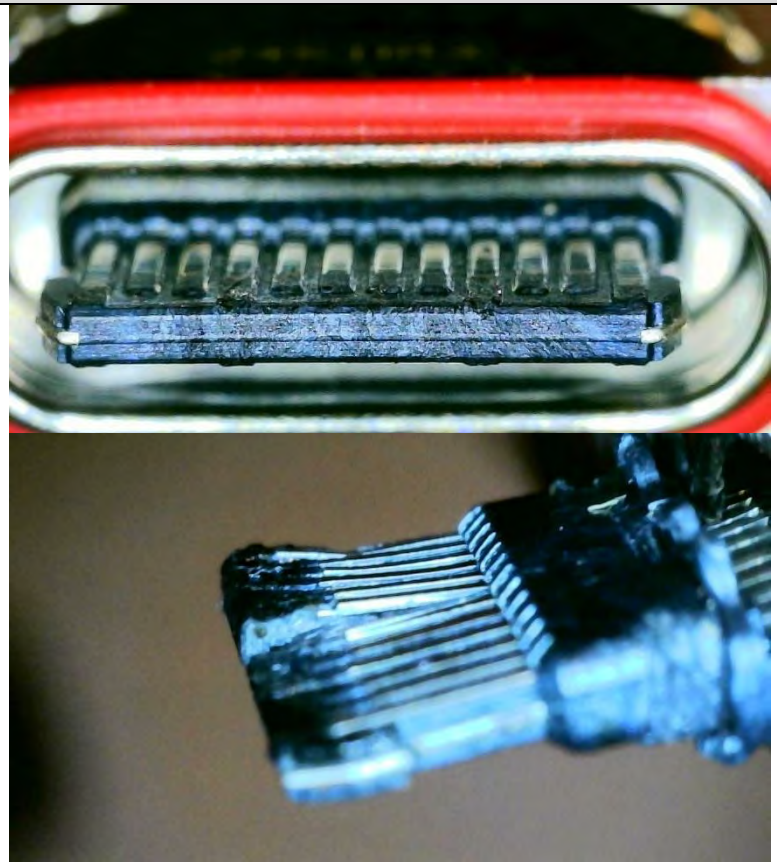
EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 The respective first and second pins are located at the other end of each terminal.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

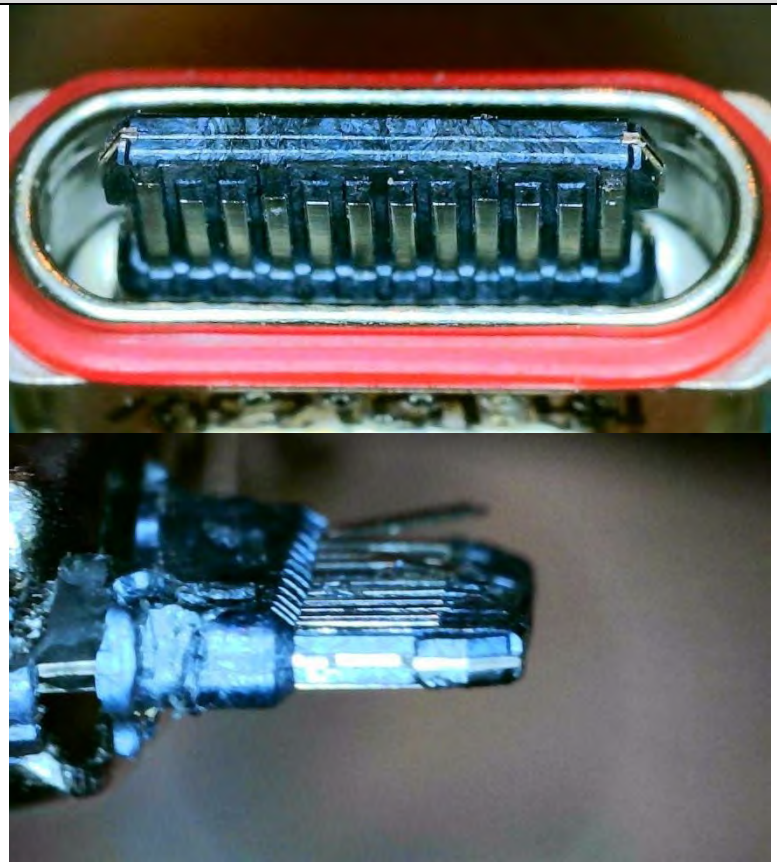
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	
[**52A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**52B**] wherein a portion of a first contact projects beyond one surface of the tongue, and a portion of a second contact projects beyond another surface of the tongue.	A portion of the contacts of the Samsung S24 FE projects beyond the surfaces of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1016

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 In addition, the Samsung S24 FE includes a USB-C port and is comparable with the included USB-C cable, as further described above in connection with element [**34A**]. The USB-C standard indicates that the contacts should be proud of plastic.

Samsung, EX1004, p. 1017

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

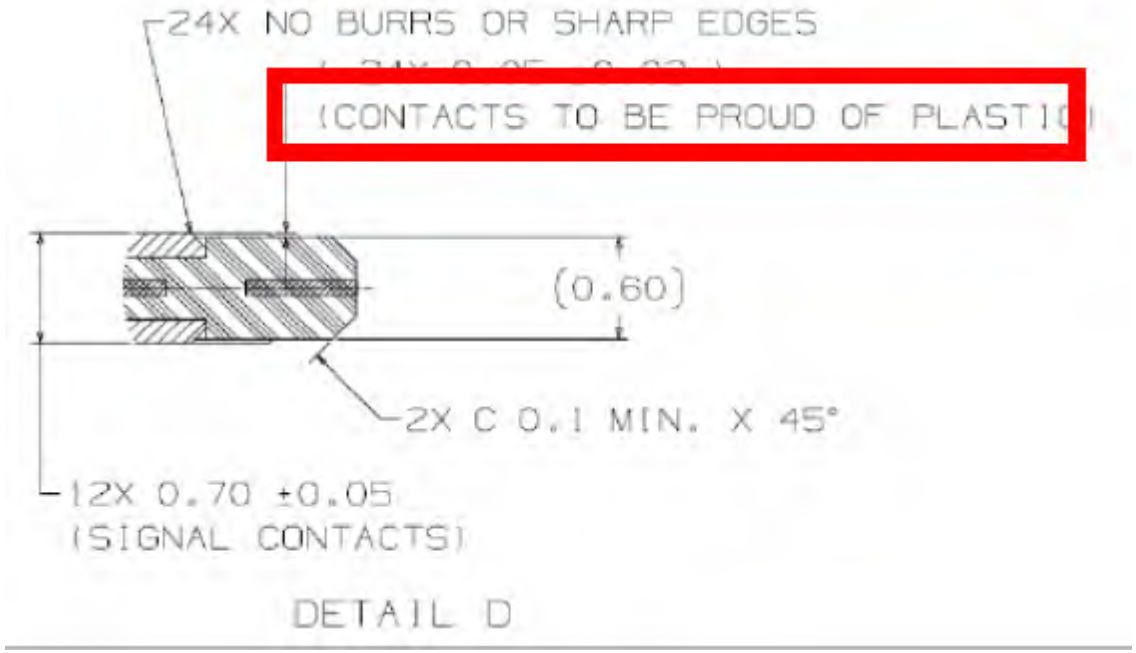
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1.
[**55A**] An electrical connection system comprising	The Samsung S24 FE and a USB-C plug such as the included USB-C plug form an electrical connection system.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

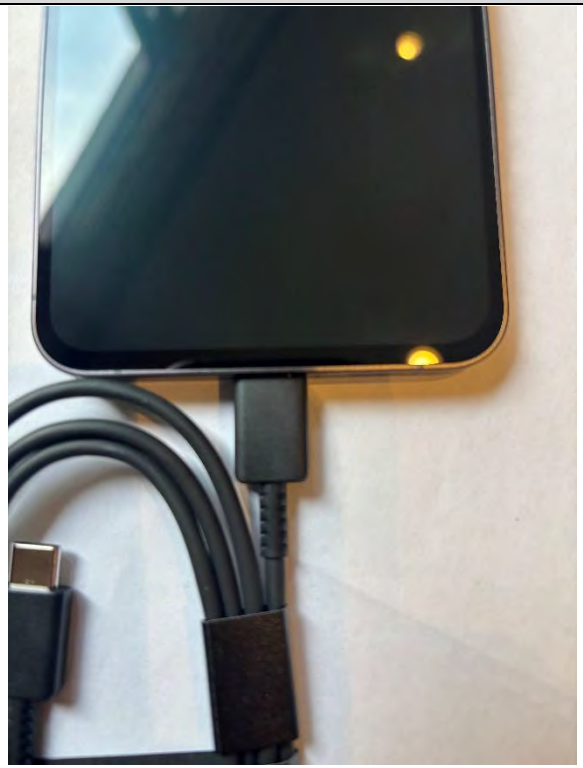
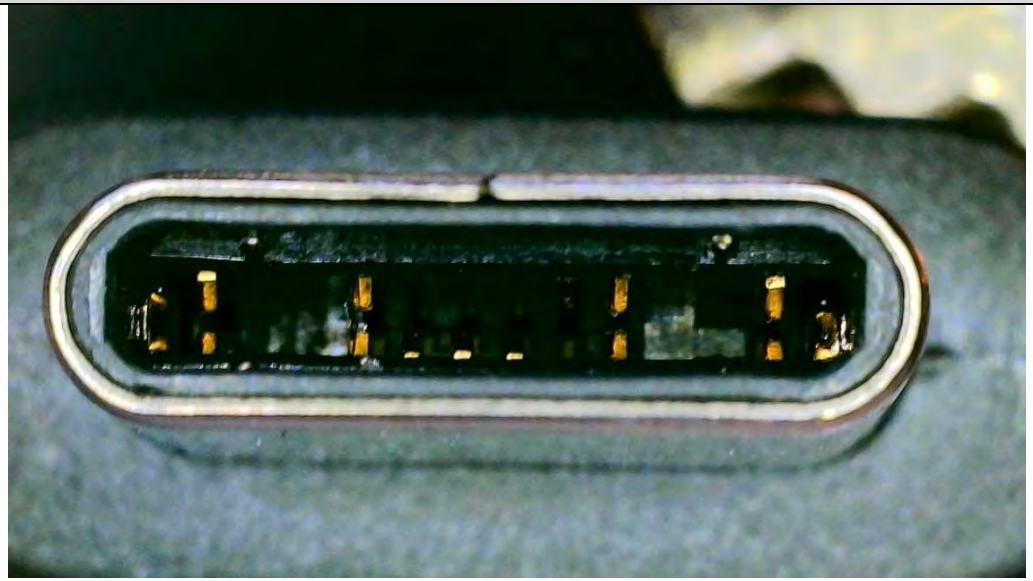
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 The socket structure of the Samsung S24 FE is specifically designed (and intended) to be connected with a USB-C plus such as the included USB-C cable, as further described above in connection with element [**48B**].
[**55B**] the socket structure with the duplex electrical connection of claim 34 and	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**55C**] the plug.	The Samsung S24 FE is packaged with a USB-C cable which includes a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1021

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	**Evidence of Infringement**
[**56A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung S24 FE is a phone that includes a socket structure with duplex electrical connection. In particular, the Samsung S24 FE provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025). The socket on the Samsung S24 FE is a USB-C socket.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	USB USB 3.2 Gen 1 **Earjack** USB Type-C *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S2[illegible], S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung S24 FE is packaged with and capable of connecting to a USB-C cable.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

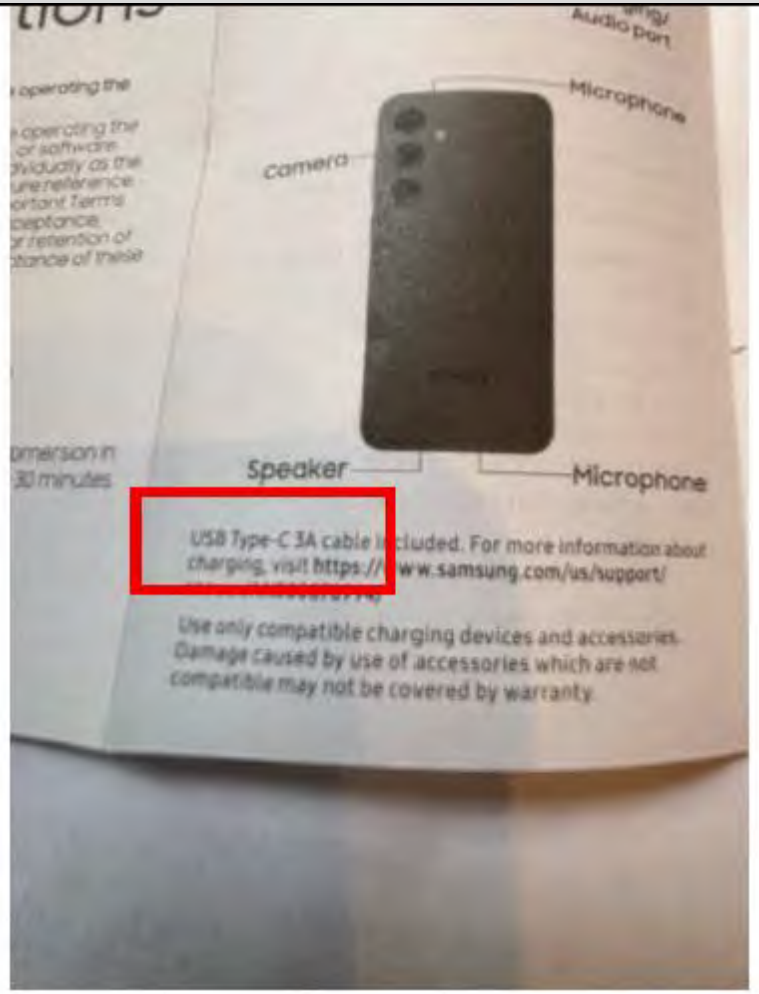
Claim 56 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

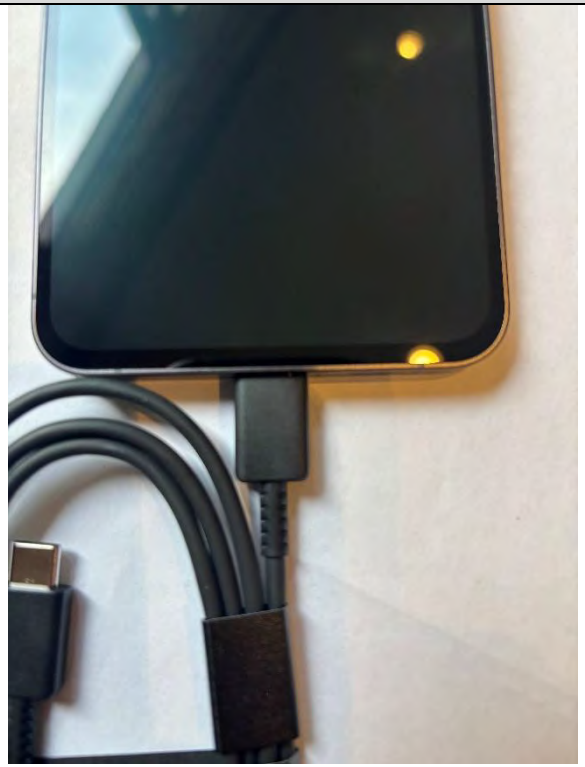
Claim 56 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**56B**] through [**56L**].
[**56B**] a plastic base;	The socket structure of the Samsung S24 FE includes a plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1029

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

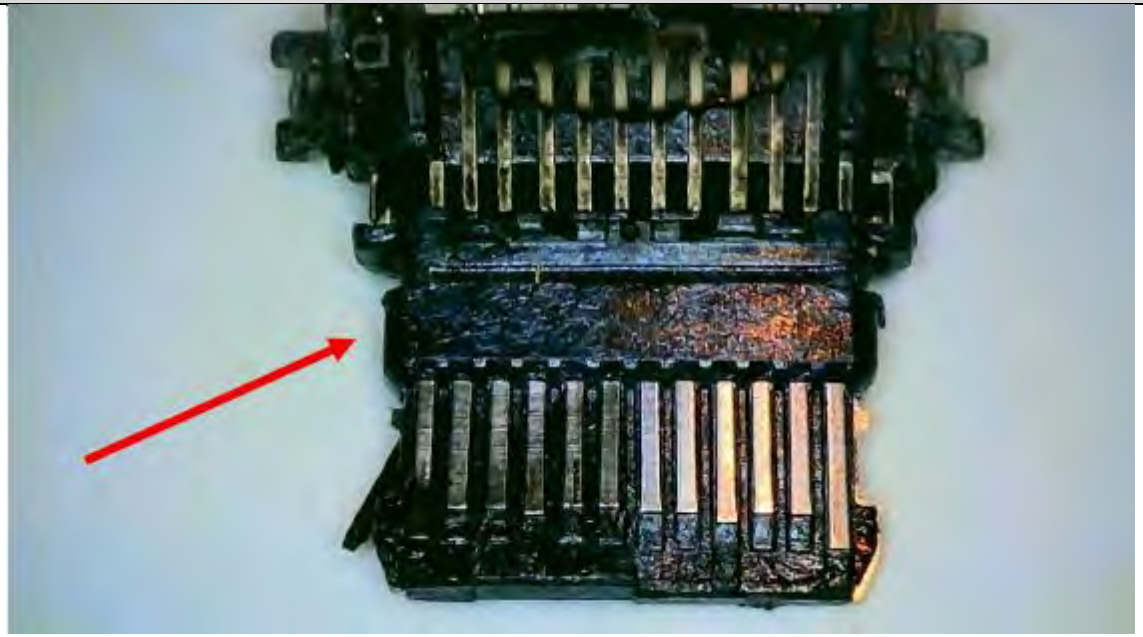
Claim 56 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34B**].
[**56C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung S24 FE includes a connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

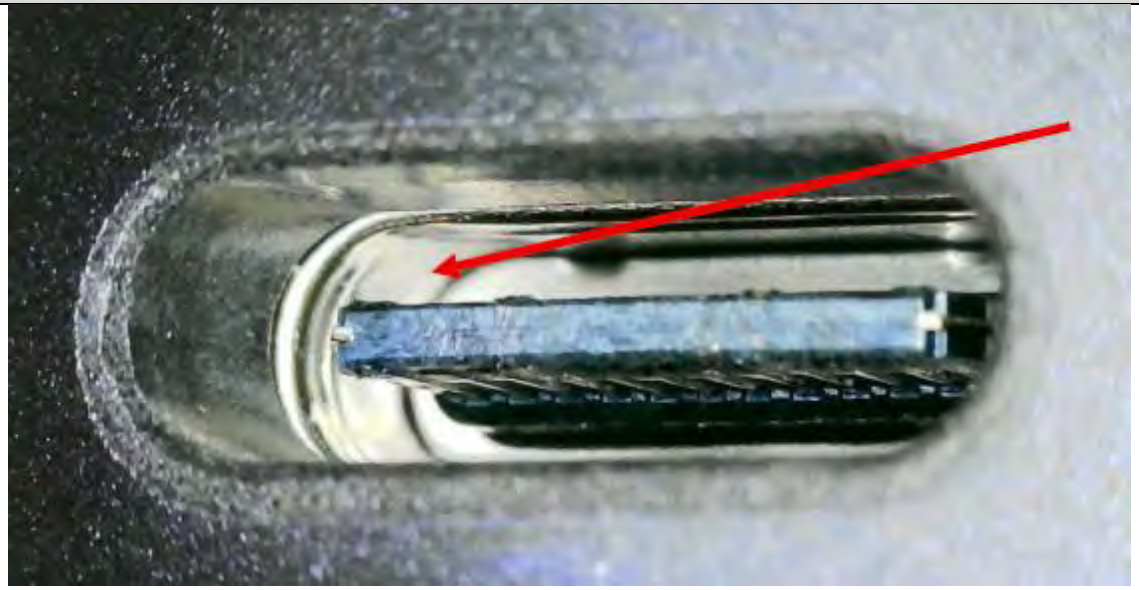
Claim 56 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

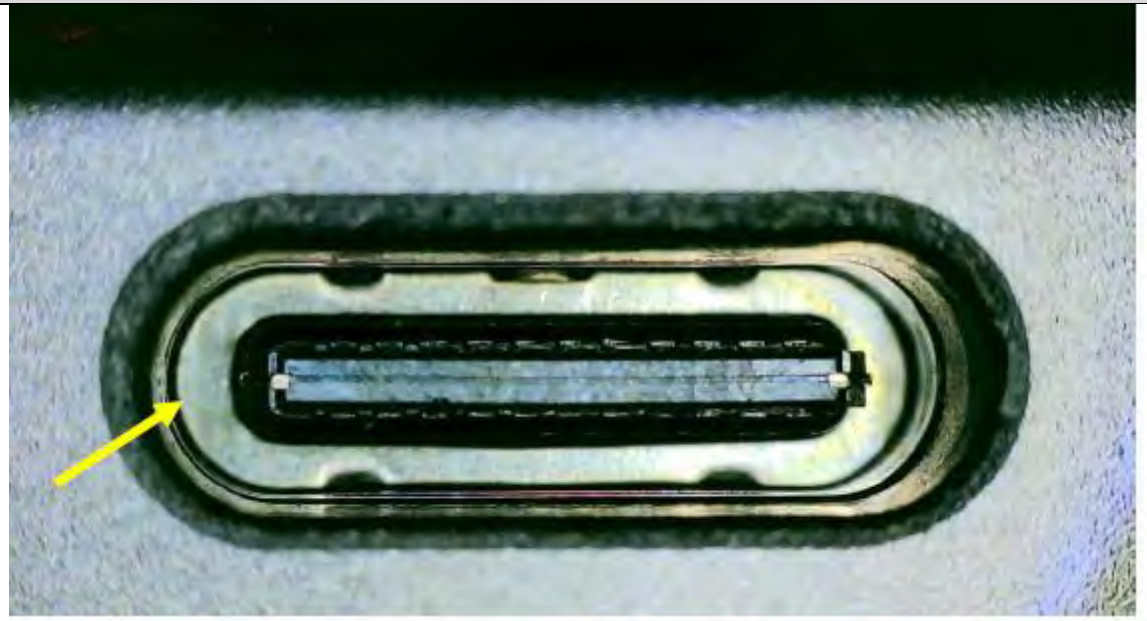
Claim 56 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung S24 FE, as described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

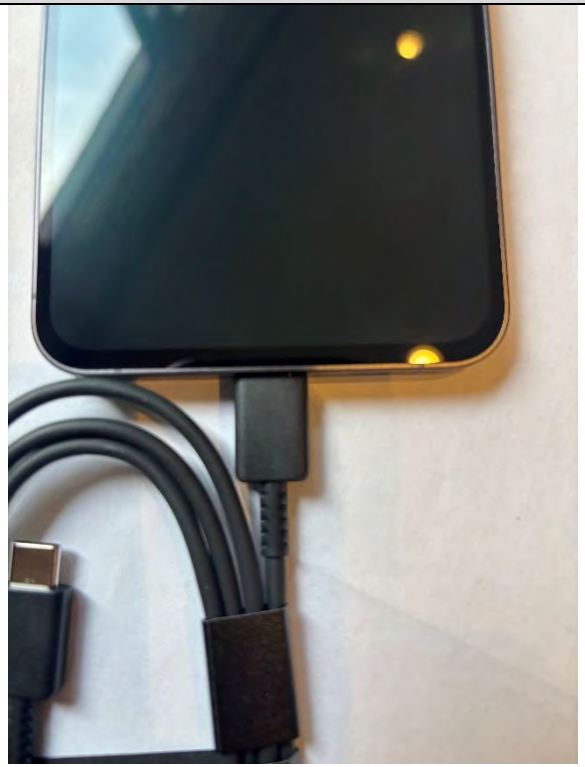
Claim 56 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

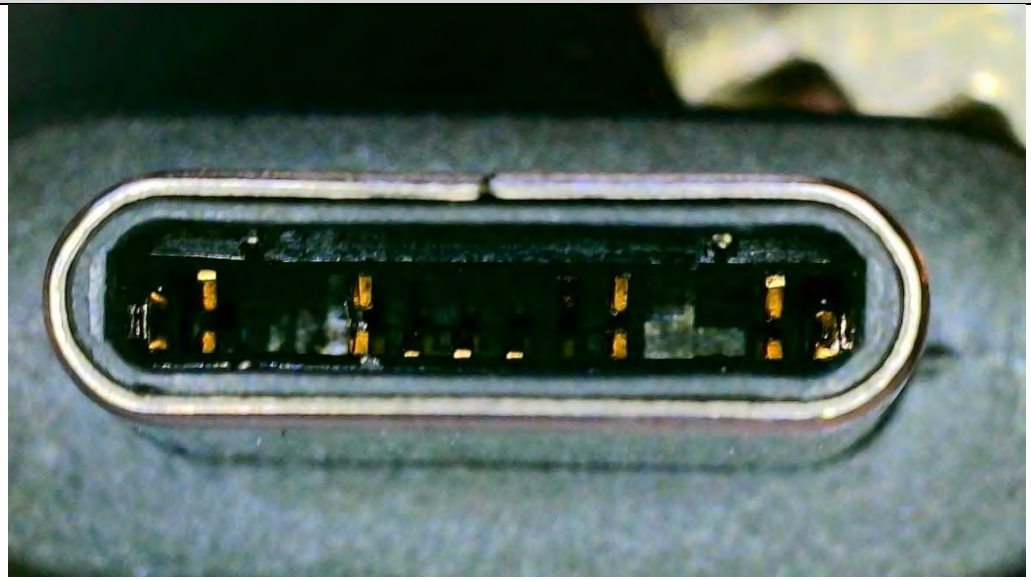
Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**56D**] a tongue, which has a top side with a first surface with grooves, and bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung S24 FE includes a tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

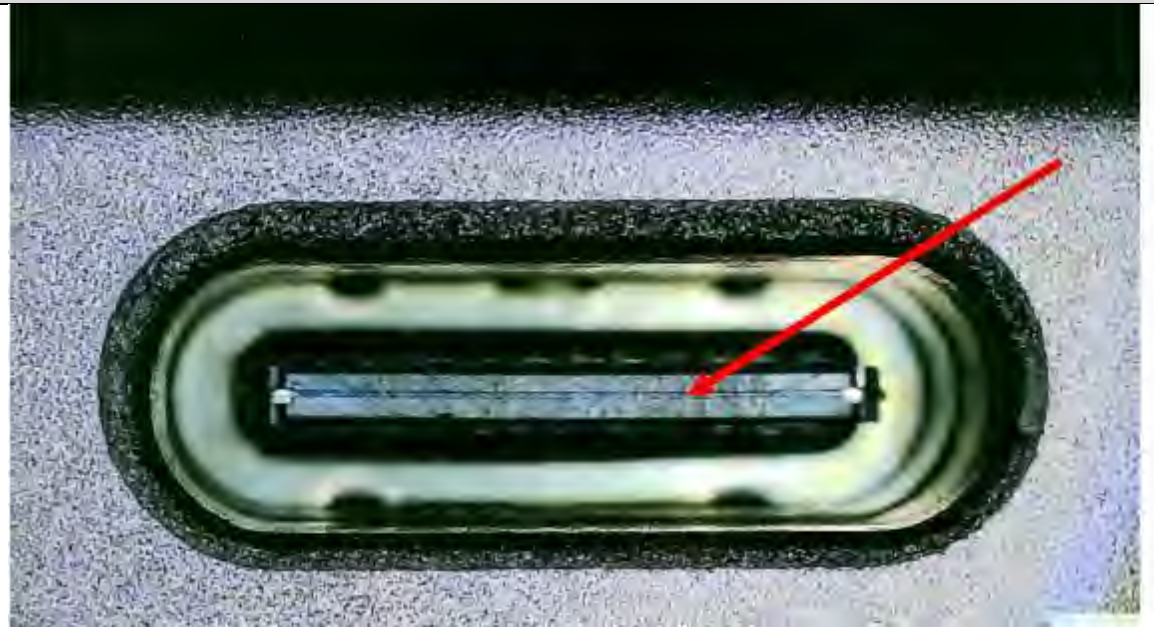
Claim 56 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

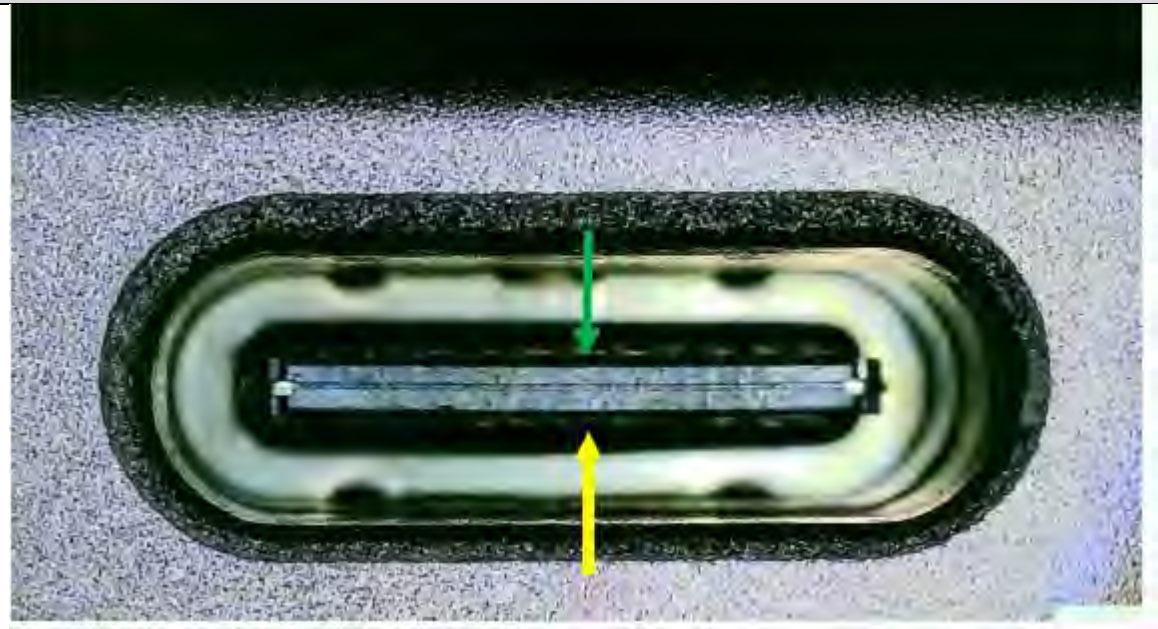
Claim 56 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

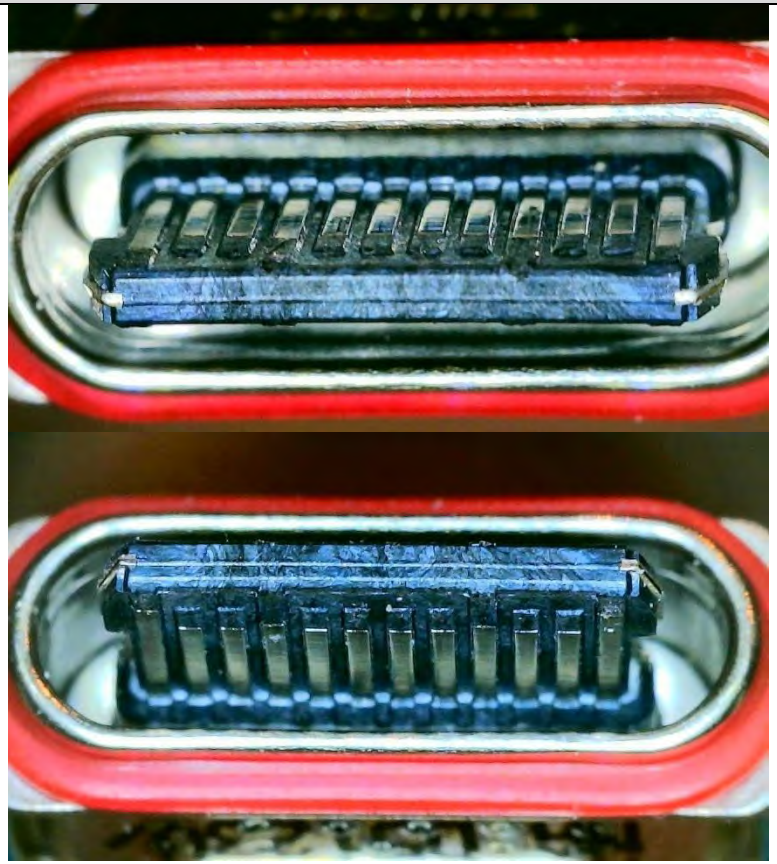
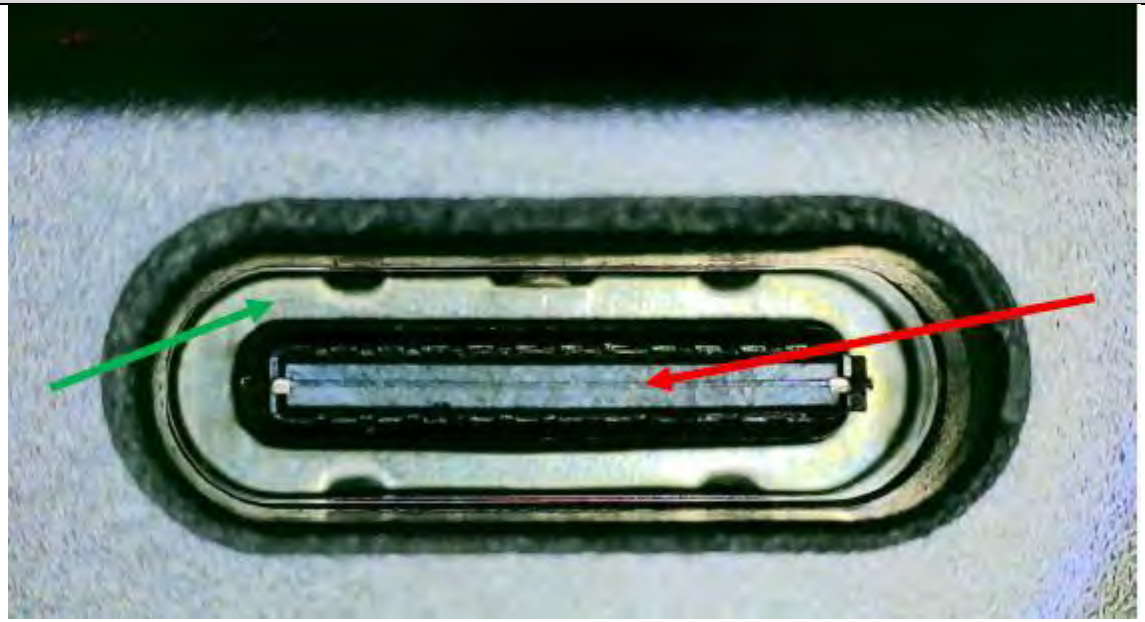
Claim 56 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponds to the side with the second surface as described in element [**34D**].
[**56E**] the tongue being disposed on one end of the plastic base and	The tongue of the Samsung S24 FE (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	**Evidence of Infringement**
within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by a blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

Samsung, EX1004, p. 1040

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

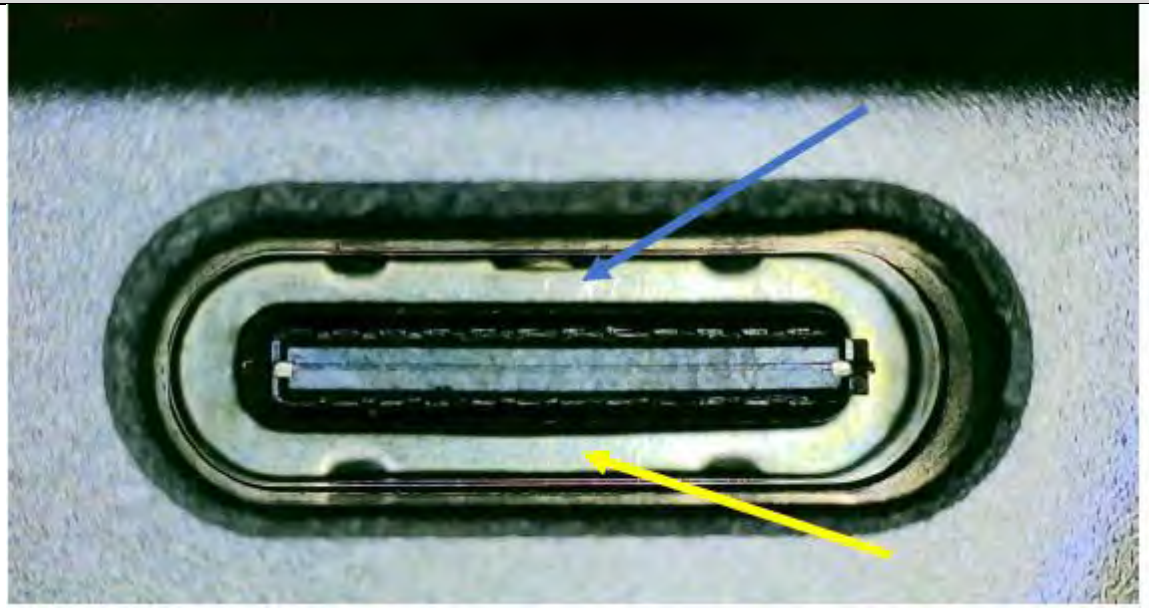
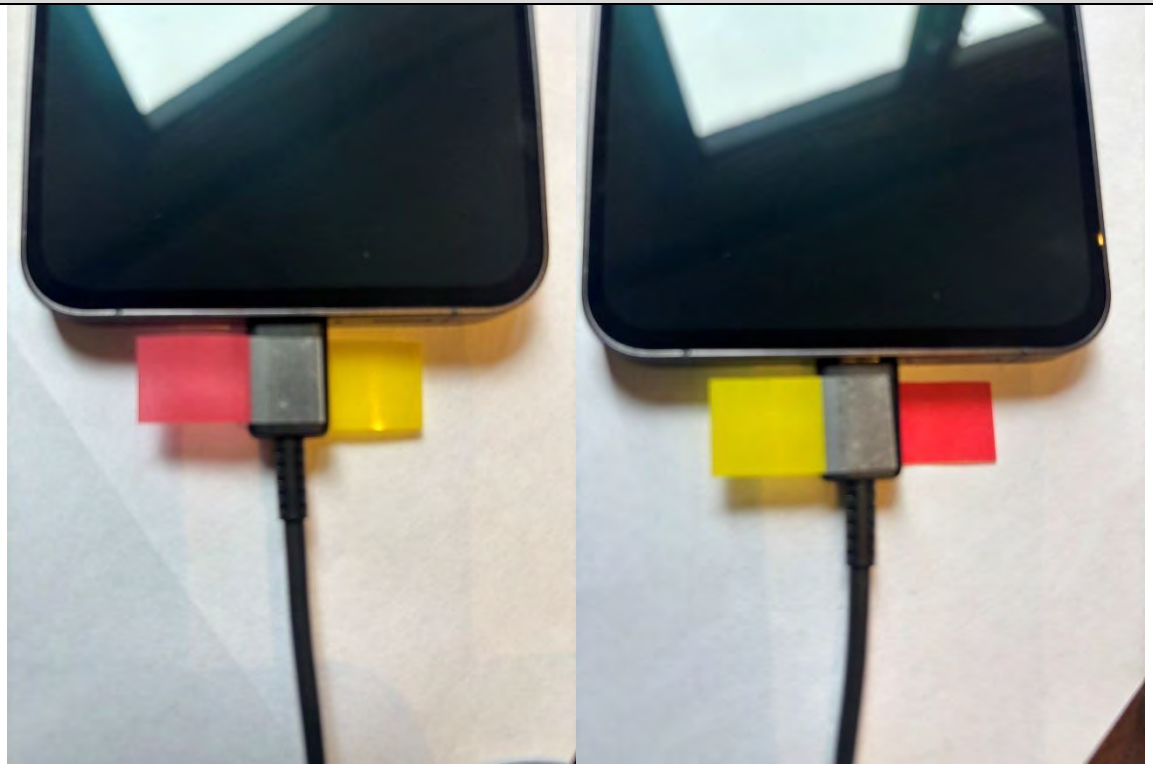
Claim 56 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the second structure of the Samsung S24 FE when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on bottom (second image). *See also* Element [**34E**].

Samsung, EX1004, p. 1042

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

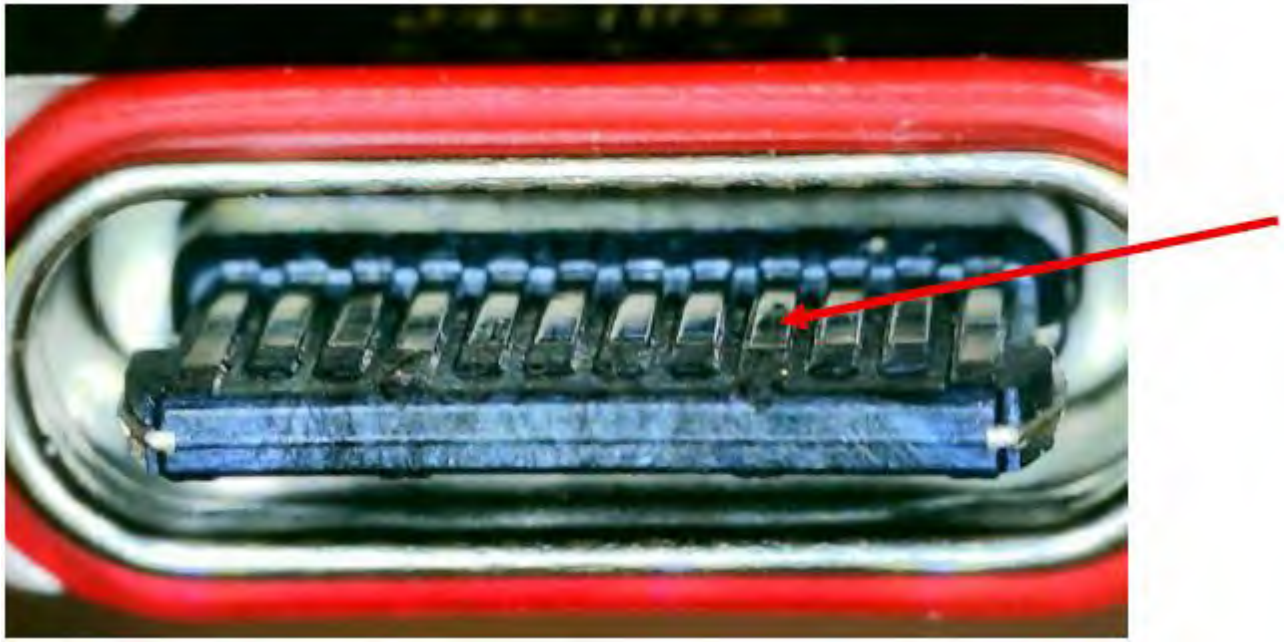
Claim 56 of the '307 Patent	**Evidence of Infringement**
[**56F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The socket structure of the Samsung S24 FE includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

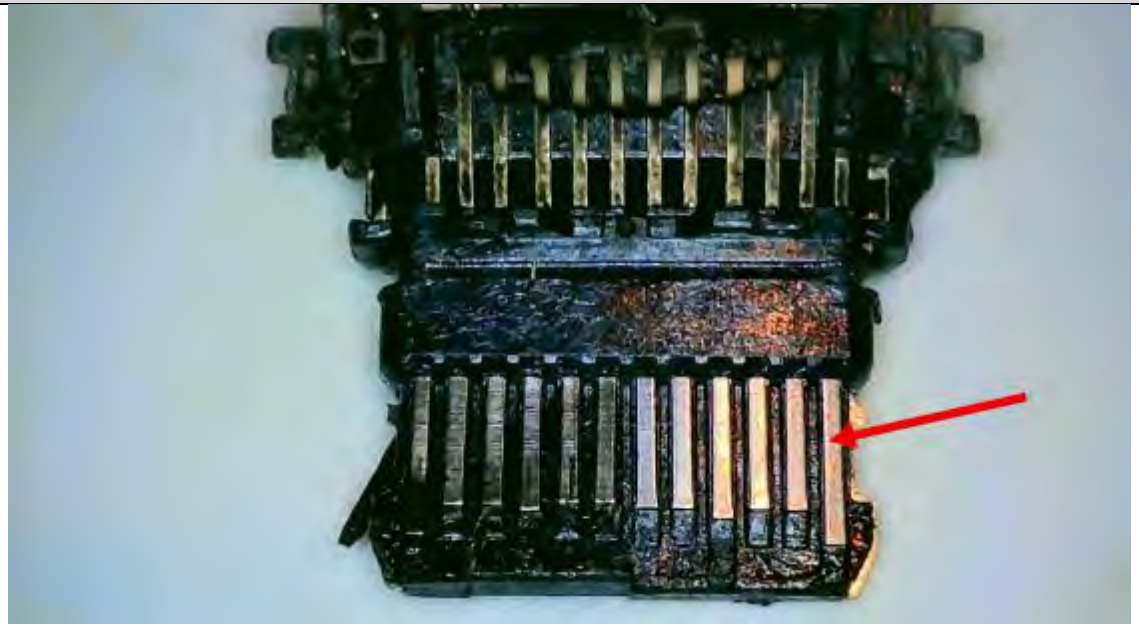
Claim 56 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung S24 FE includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung S24 FE includes two rows of twelve pins extending out of the base. On information and belief, the bottom row of pins corresponds to the first contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image showing underside of socket structure where it connects to PCB.) This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung S24 FE is a USB-C socket and/or compatible with the USB-C cables).

Furthermore, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

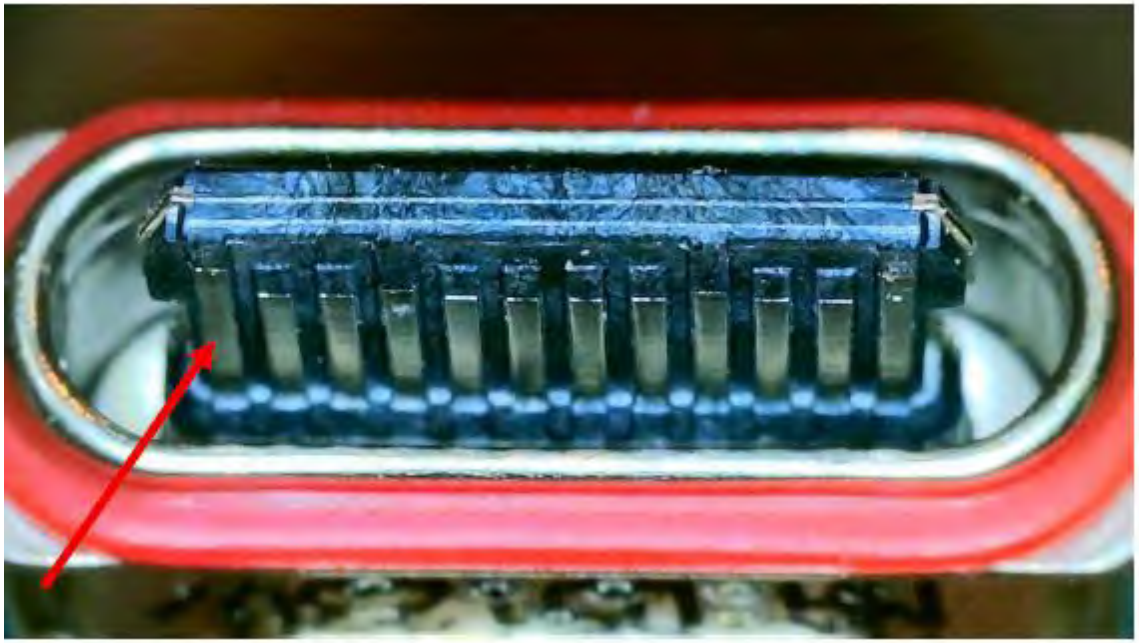
Claim 56 of the '307 Patent	**Evidence of Infringement**
	See also Element [**34F**].
[**56G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung S24 FE includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

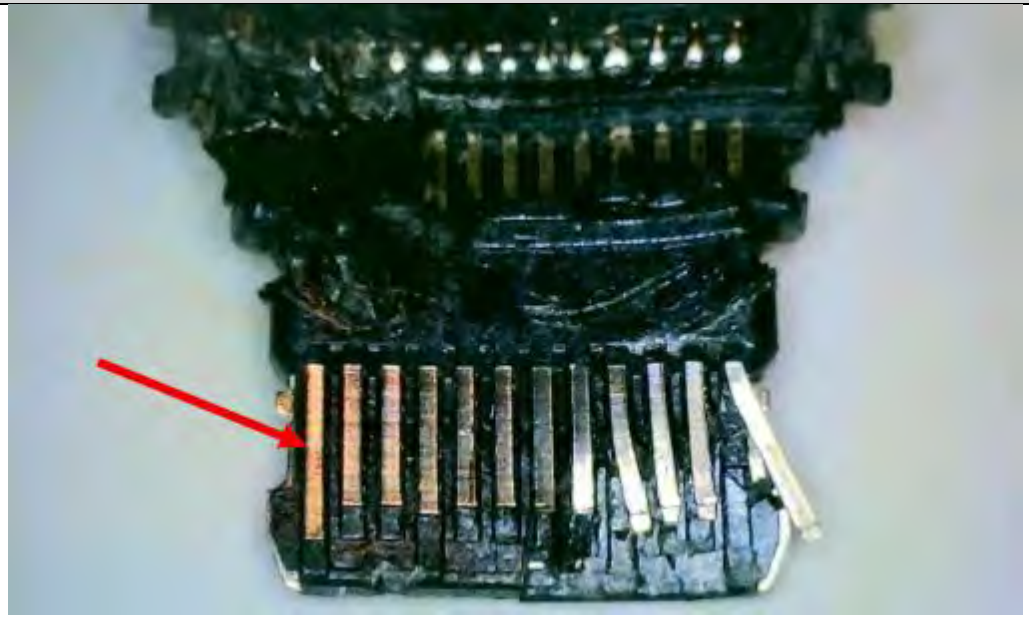
Claim 56 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34G**].
[**56H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. On information and belief, the top row of pins in the image below corresponds to the second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image showing socket structure where it connects to PCB.) In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**56I**] the socket structure is operative to simultaneously electrically connect on the top and the	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

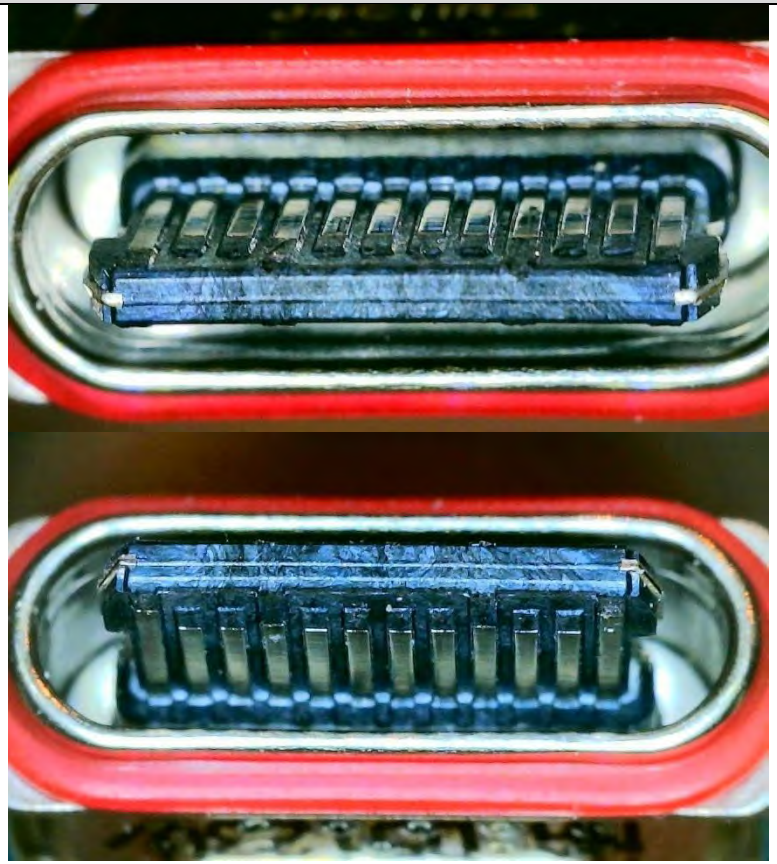
Claim 56 of the '307 Patent	Evidence of Infringement
bottom side of the tongue;	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

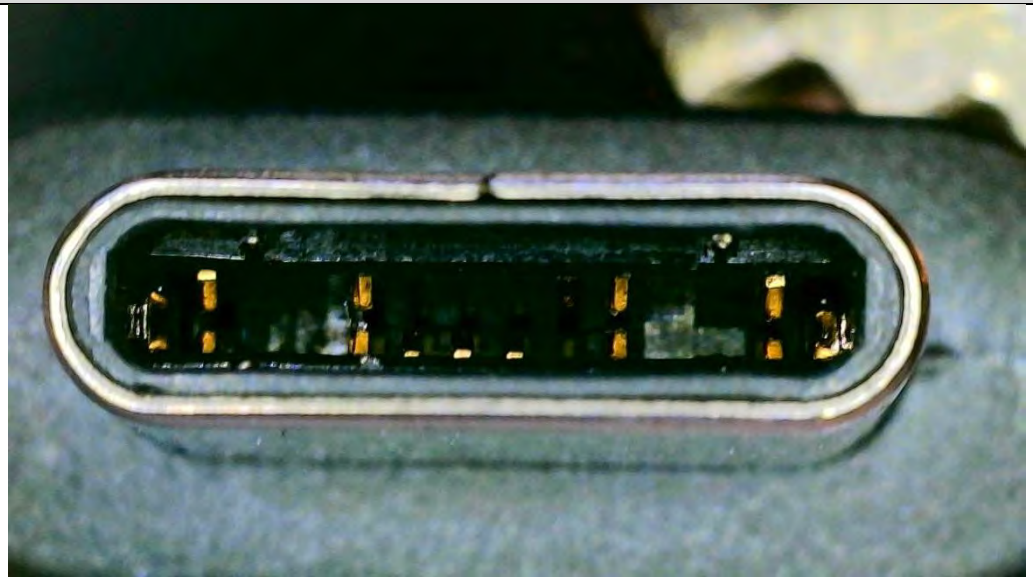
Claim 56 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

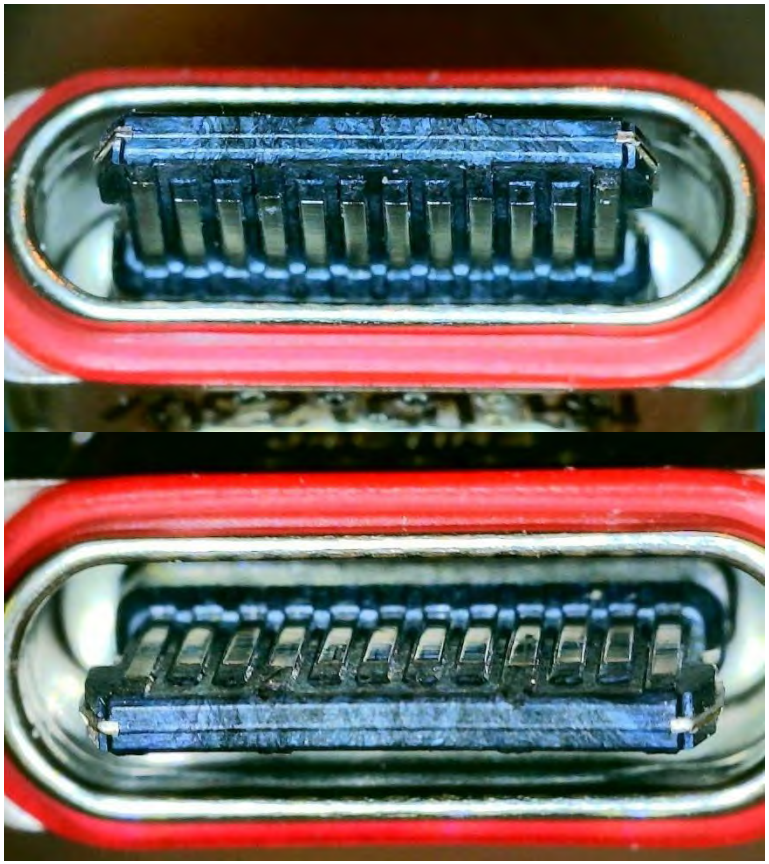
EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**56J**] the at least one row of first	The first row of contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	**Evidence of Infringement**
contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	 In addition, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Samsung, EX1004, p. 1054

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**56K**] through [**56L**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

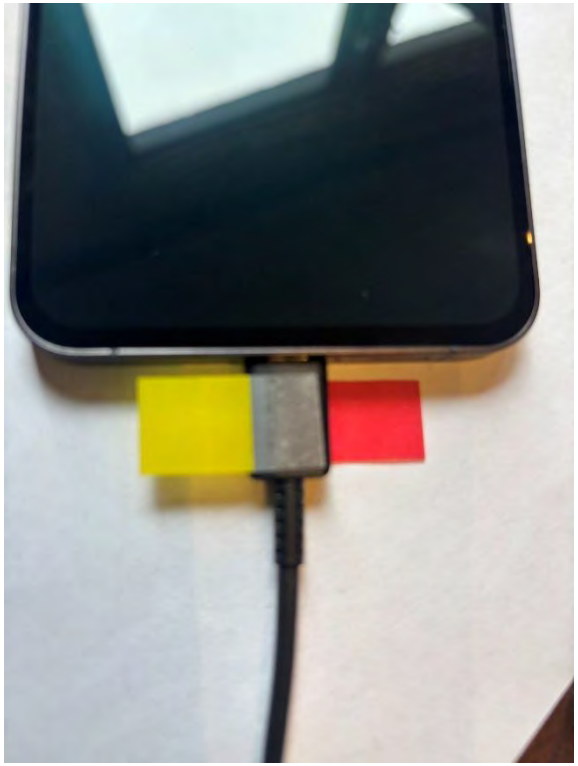
Claim 56 of the '307 Patent	**Evidence of Infringement**
[**56K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung S24 FE is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug faces the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extending inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

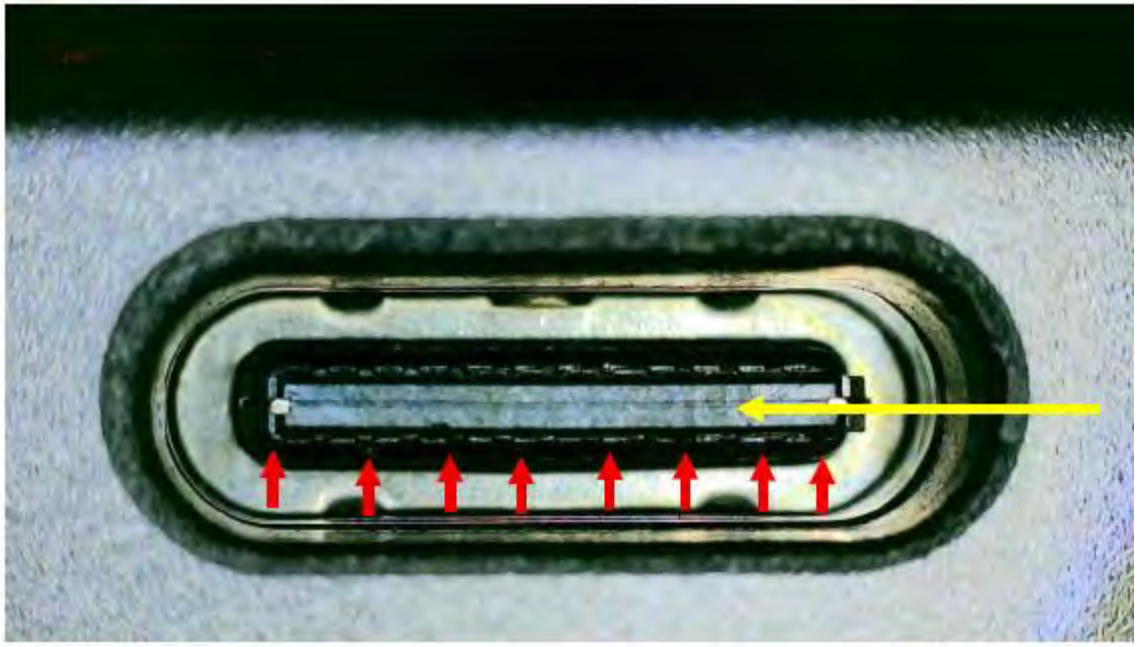
Claim 56 of the '307 Patent	Evidence of Infringement
	bottom surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

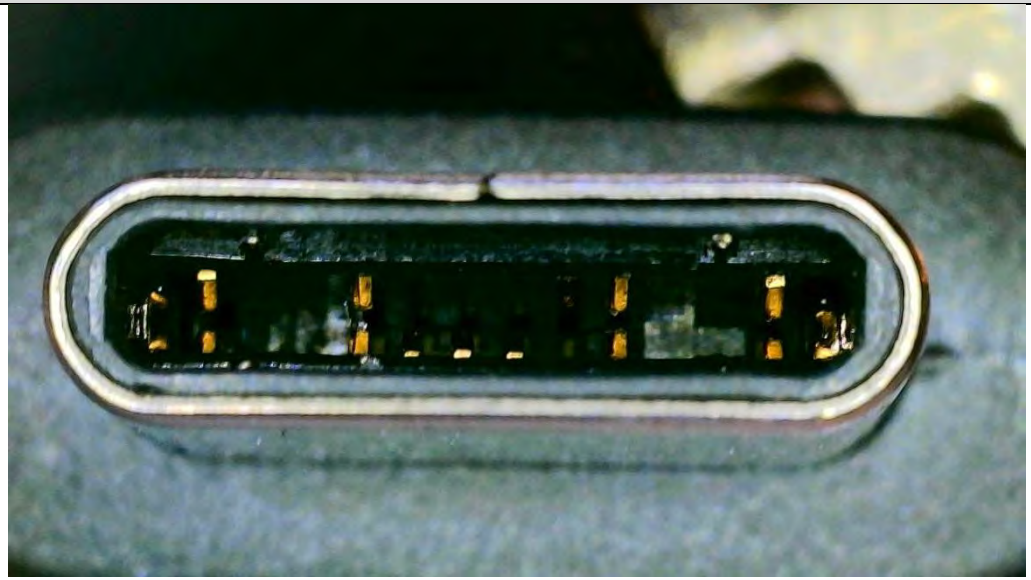
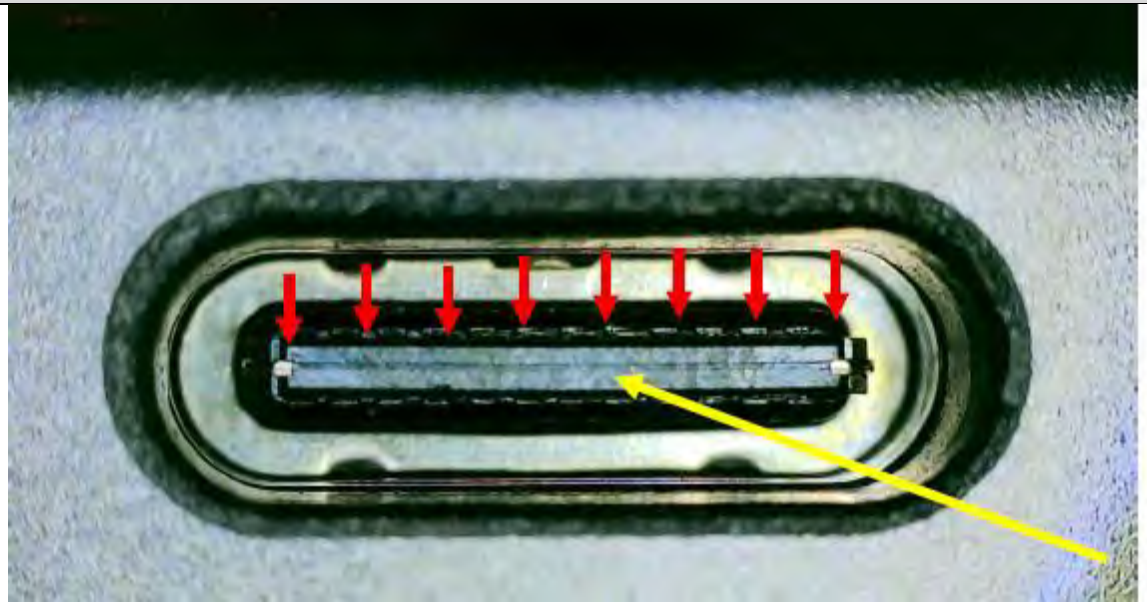
Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**56L**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the	The Samsung S24 FE is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extending inward from the plug face marked with the red flag so as to electrically connection with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

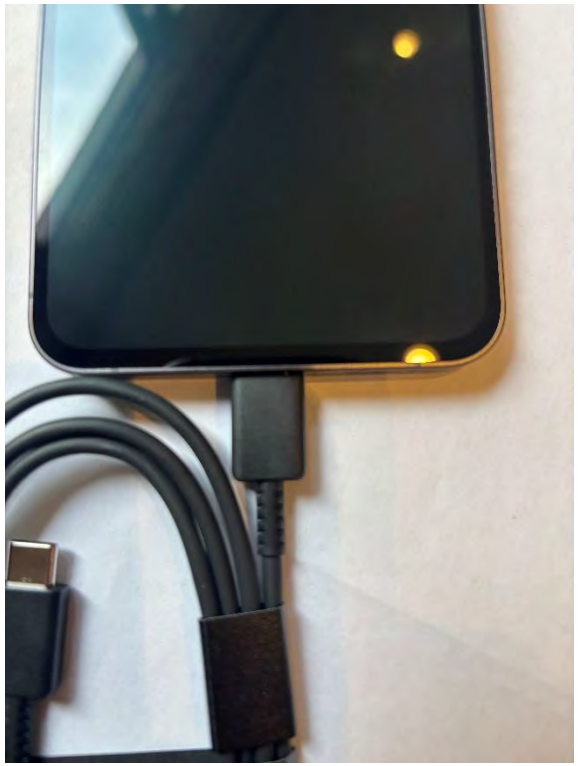
Samsung, EX1004, p. 1059

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].

Samsung, EX1004, p. 1060

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
[**57A**] An electrical connection system comprising	The Samsung S24 FE and a USB-C plug such as the included USB-C plug form an electrical connection system.  The socket structure of the Samsung S24 FE is specifically designed (and intended) to be connected with a USB-C plus such as the included USB-C cable. For example, the Samsung S24 FE is packaged with a USB-C cable, as further described above in connection with element [**34A**].

Samsung, EX1004, p. 1061

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

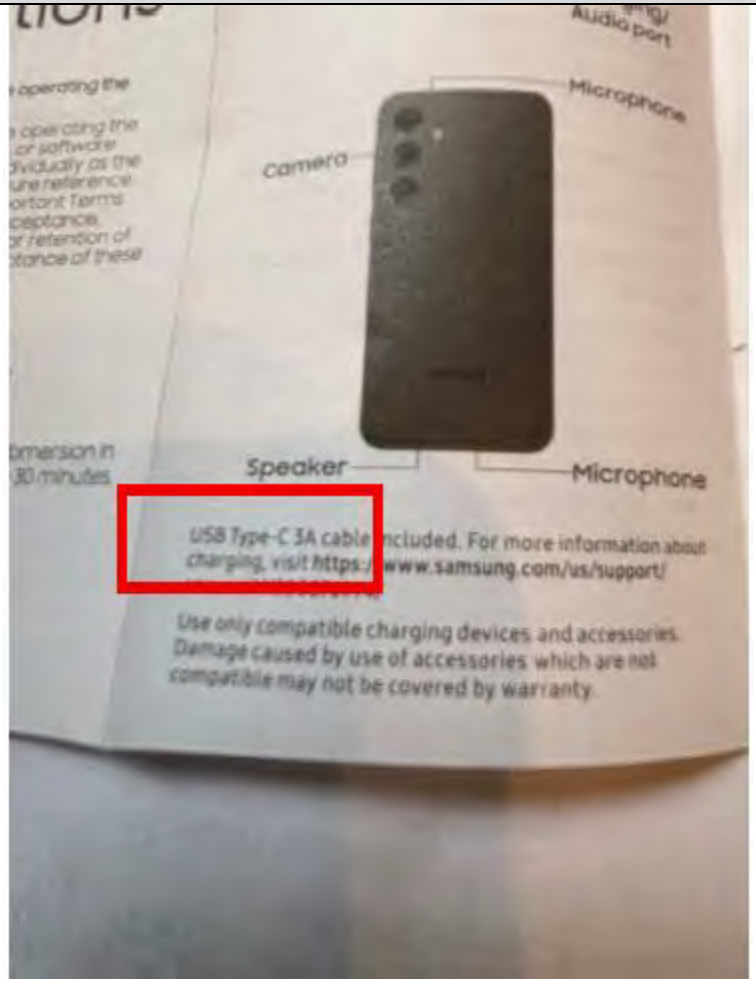
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Samsung also provides instructions to its customers to insert the USB cable into the USB port of a phone or tablet for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

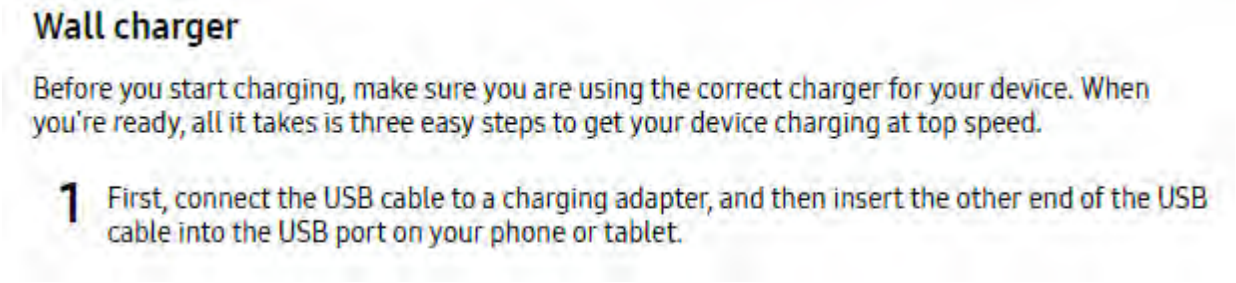
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, a primary purpose of the socket structure of the Samsung S24 FE is to connect a USB cable to the rechargeable battery of the Samsung S24 FE via the socket structure, which thereby provides power to the Samsung S24 FE and enables its use.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE) *See also* Elements [**48B**], [**55A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
[**57B**] the socket structure with the duplex electrical connection of claim 56 and	This Accused Instrumentality includes a socket structure as described in claim 56, as described above in connection with elements [**56A**] through [**56L**].
[**57C**] the plug, wherein the socket structure is operatively connected to the plug, and	The Samsung S24 FE is packaged with a USB-C cable which includes a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

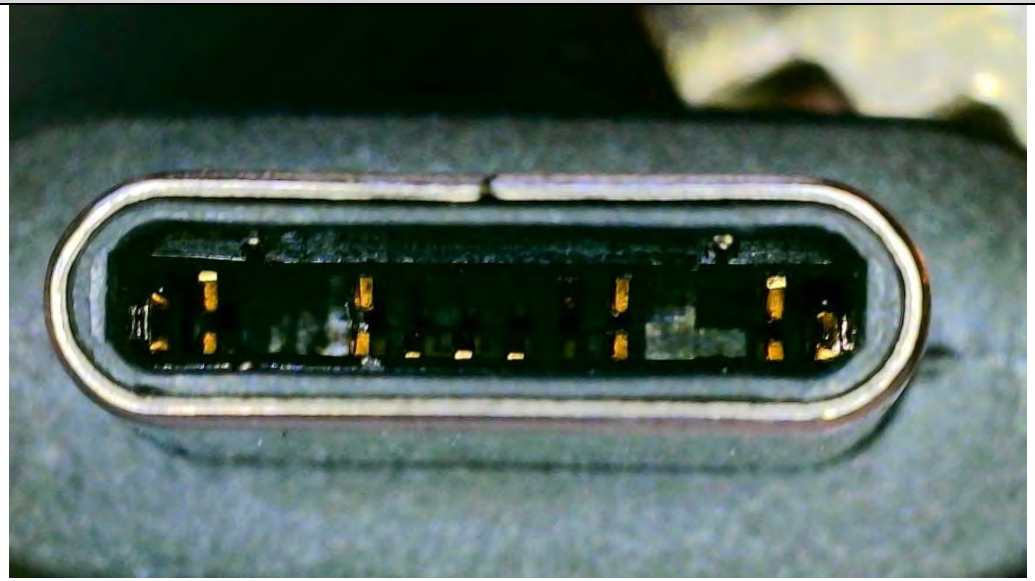
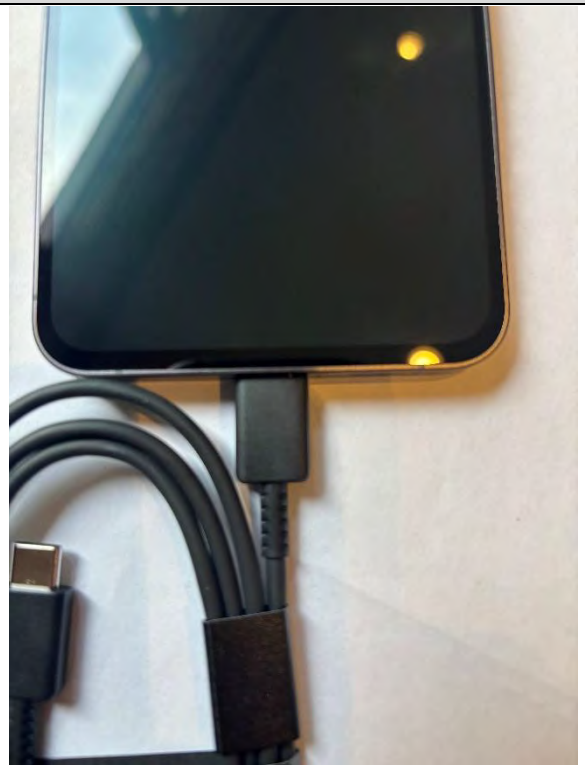
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 When the plug is connected with the socket structure, the socket structure is operatively connected to the plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 *See also* Elements [**48B**], [**55C**].
[**57D**] wherein the socket structure is operative to simultaneously electrically connect	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.

Samsung, EX1004, p. 1068

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

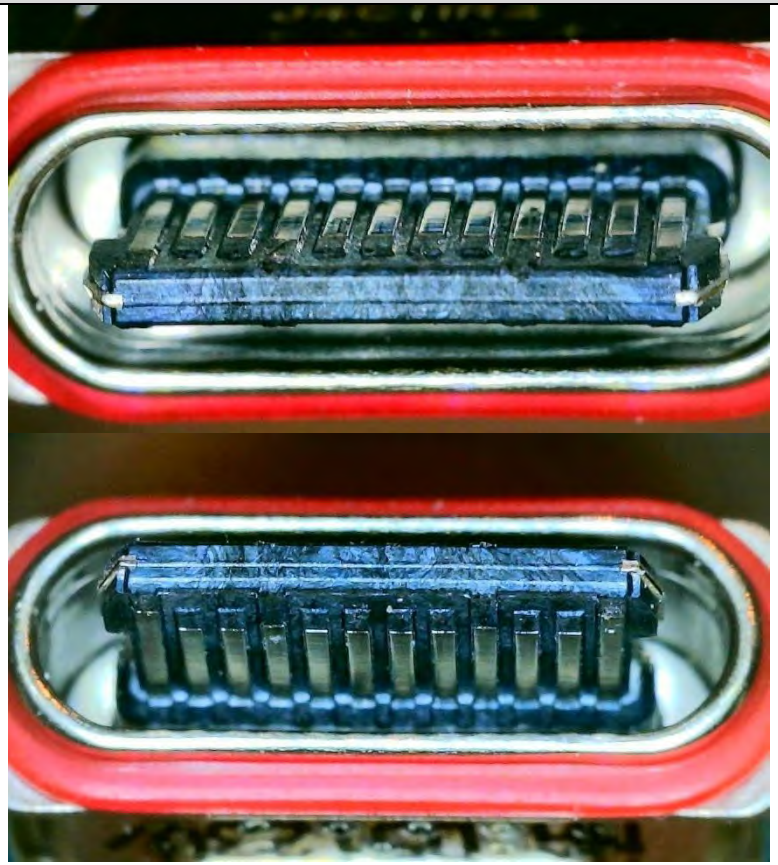
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
via the first and second contacts.	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

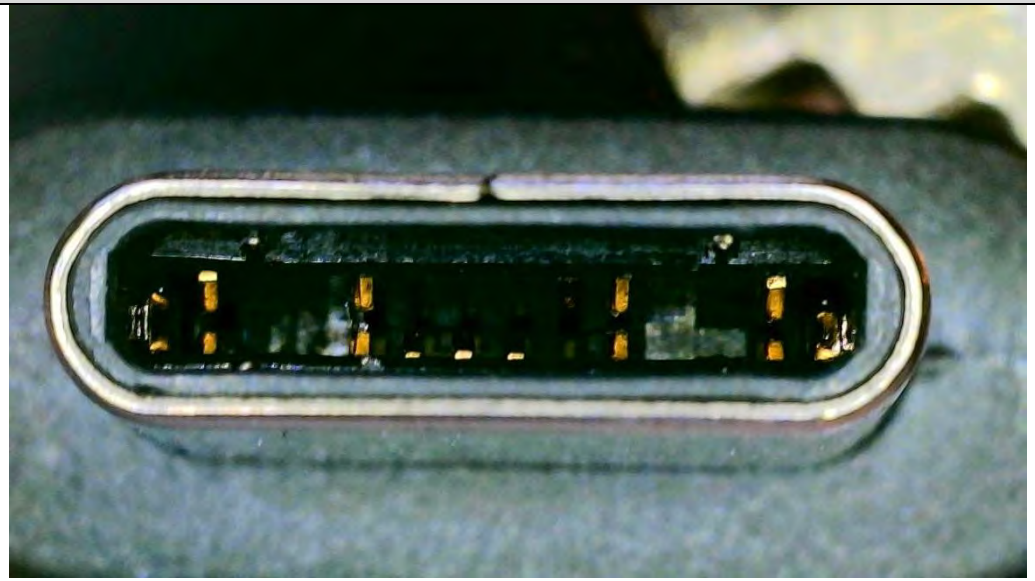
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

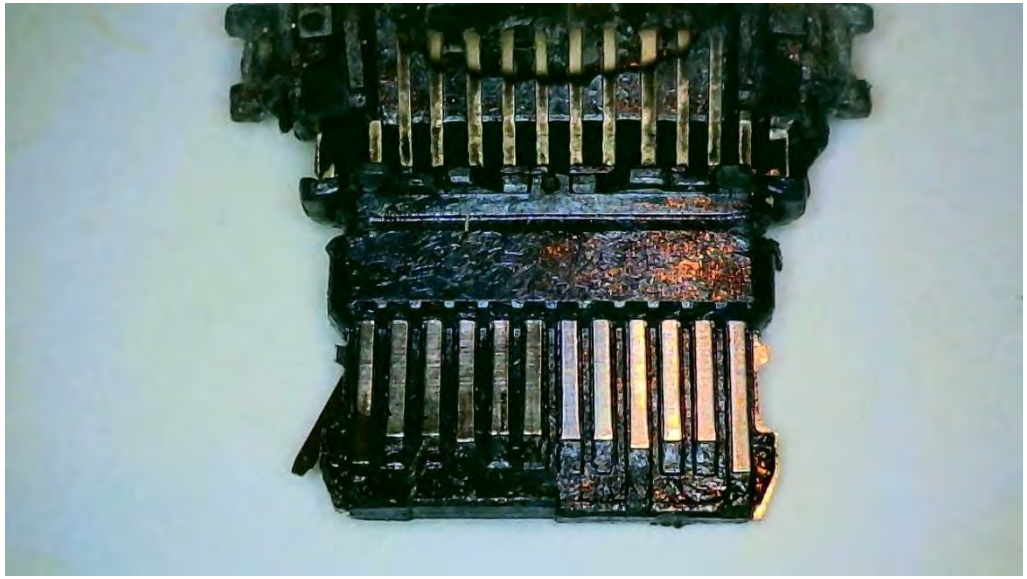
Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
[**58A**] The socket structure of claim 56,	This Accused Instrumentality includes a socket structure as described in claim 56, as described above in connection with elements [**56A**] through [**56L**].
[**58B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base of the Samsung S24 FE are integrally formed.  *See also* Element [**41B**].
[**59A**] The socket structure of claim 58,	This Accused Instrumentality includes a socket structure as described in claim 58, as described above in connection with elements [**58A**] through [**58B**].
[**59B**] further comprising a metal housing at least partially covering the plastic base.	The Samsung S24 FE includes a metal housing that covers the plastic base at least in part.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
	 (Image of socket structure of Samsung S24 FE.) *See also* Element [**39B**].
[**60A**] The socket structure of claim 59,	This Accused Instrumentality includes a socket structure as described in claim 59, as described above in connection with elements [**59A**] through [**59B**].
[**60B**] wherein at least two of the first contacts are not in electrical communication with one another, and at least two of the second contacts are	At least one of each of the first and second contacts of the Samsung S24 FE are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung S24 FE includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementation with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
not in electrical communication with one another.	

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The Samsung S24 FE would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
	Furthermore, test results confirm that at least some of the contacts on both sides of the tongue are not in electrical communication with others of the contacts on the same side. *See also* Element [**44B**].

Samsung, EX1004, p. 1076

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	**Evidence of Infringement**
[**98A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung S24 FE is a phone that includes a socket structure with duplex electrical connection. In particular, the Samsung S24 FE provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025). The socket on the Samsung S24 FE is a USB-C socket.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

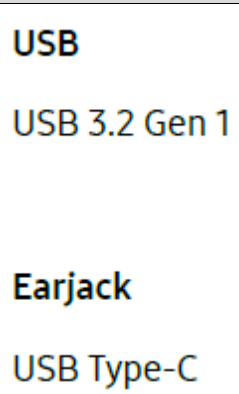
Claim 98 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5[illegible] 21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S2[illegible], S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung S24 FE is packaged with and capable of connecting to a USB-C cable.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

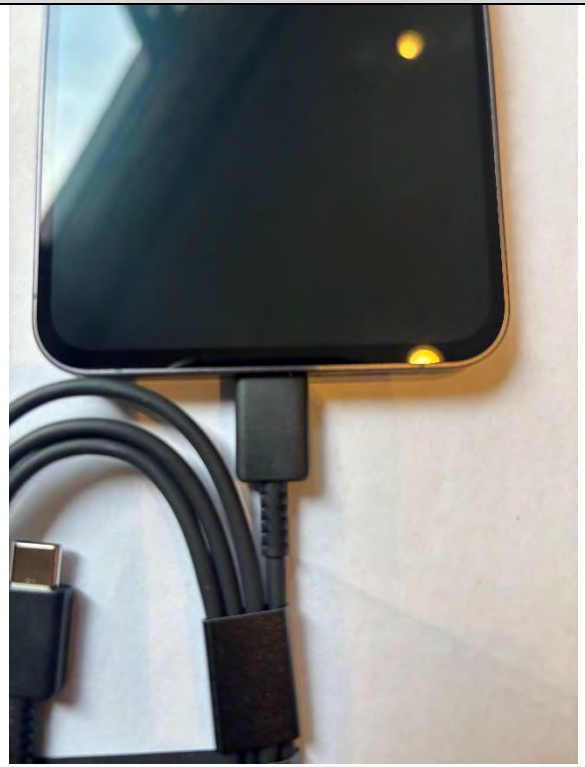
Claim 98 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**98B**] through [**98M**].
[**98B**] a plastic base;	The socket structure of the Samsung S24 FE includes a plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

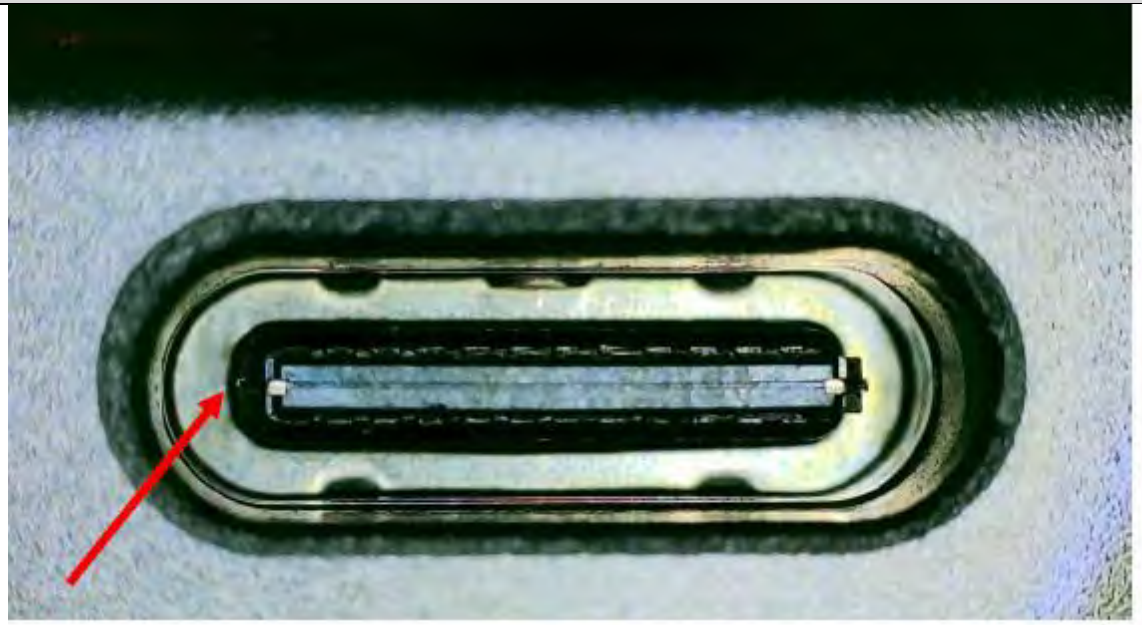
Claim 98 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

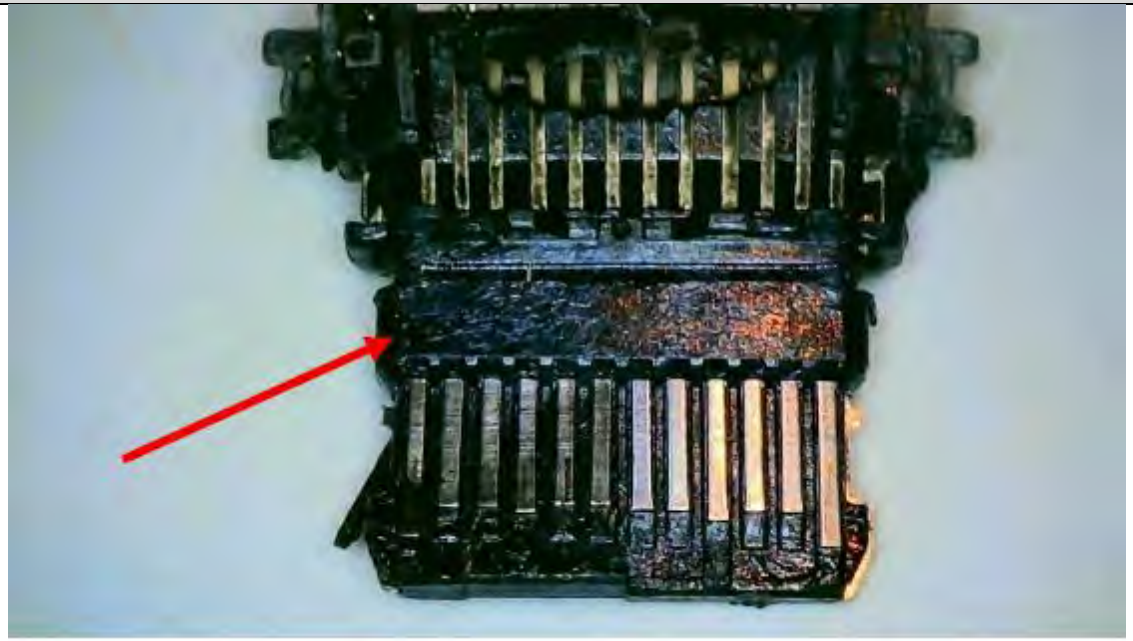
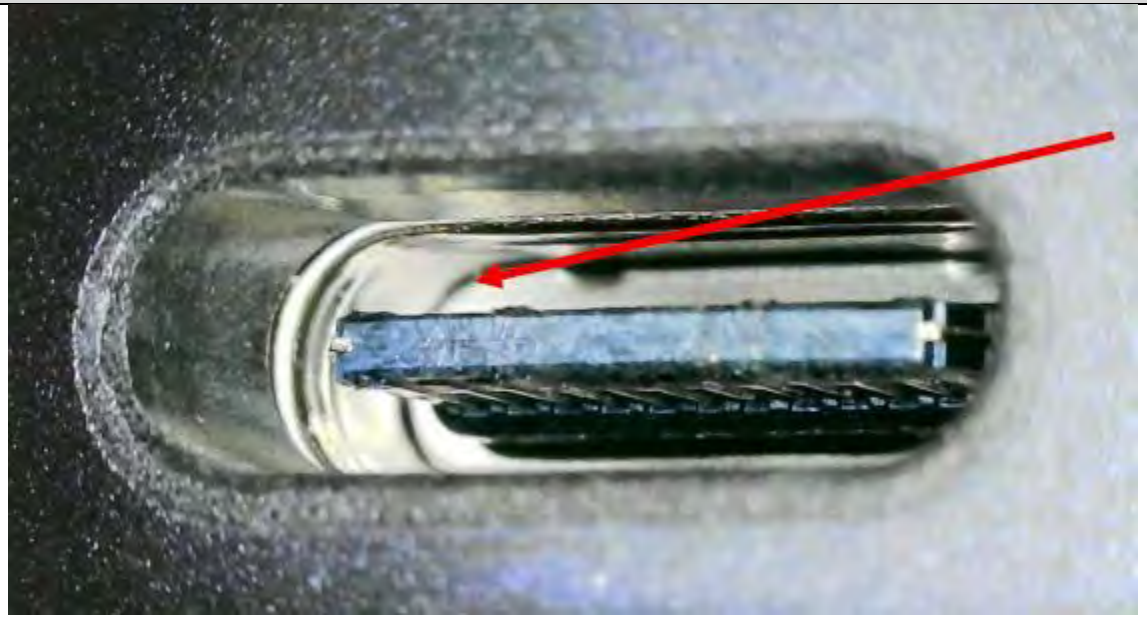
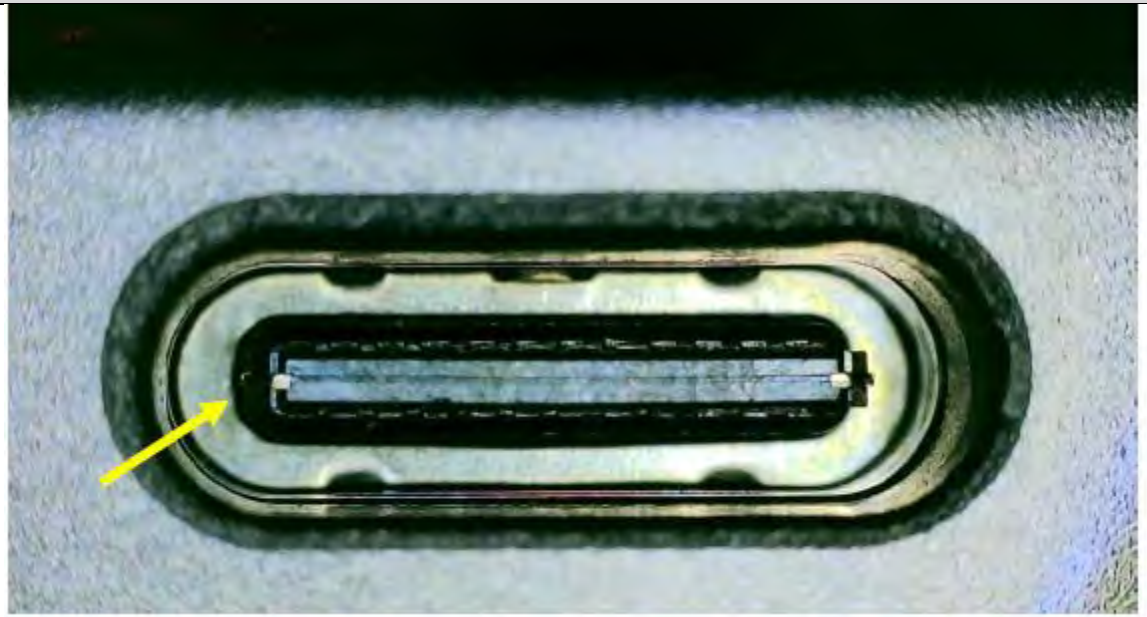
Claim 98 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34B**].
[**98C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung S24 FE includes a connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

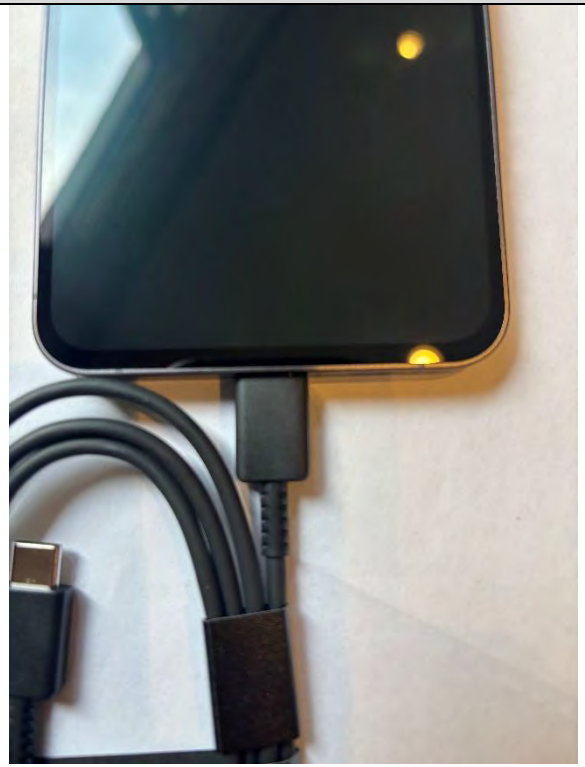
Samsung, EX1004, p. 1086

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung S24 FE, as described above in connection with element [**34A**].

Samsung, EX1004, p. 1087

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

Samsung, EX1004, p. 1088

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

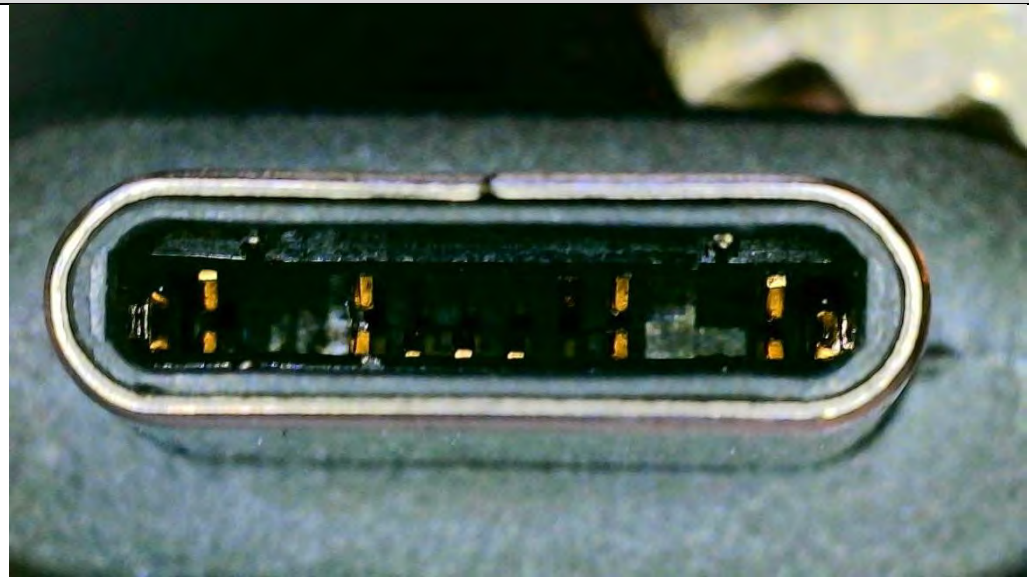
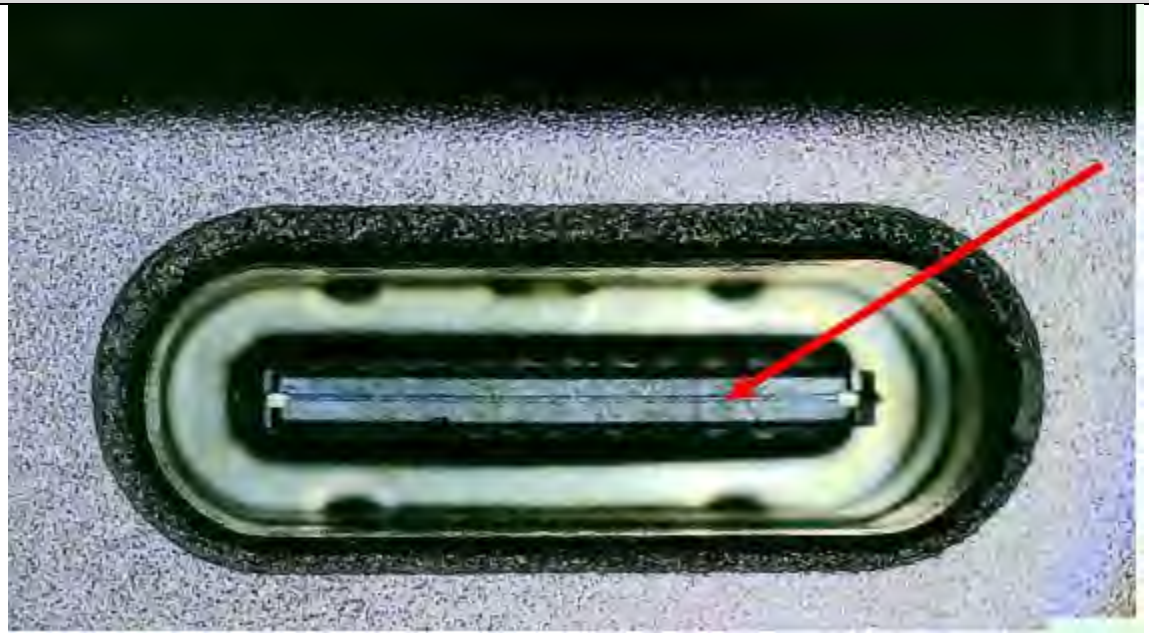
Claim 98 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**98D**] a tongue, which has a first surface with grooves, and a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung S24 FE includes a tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

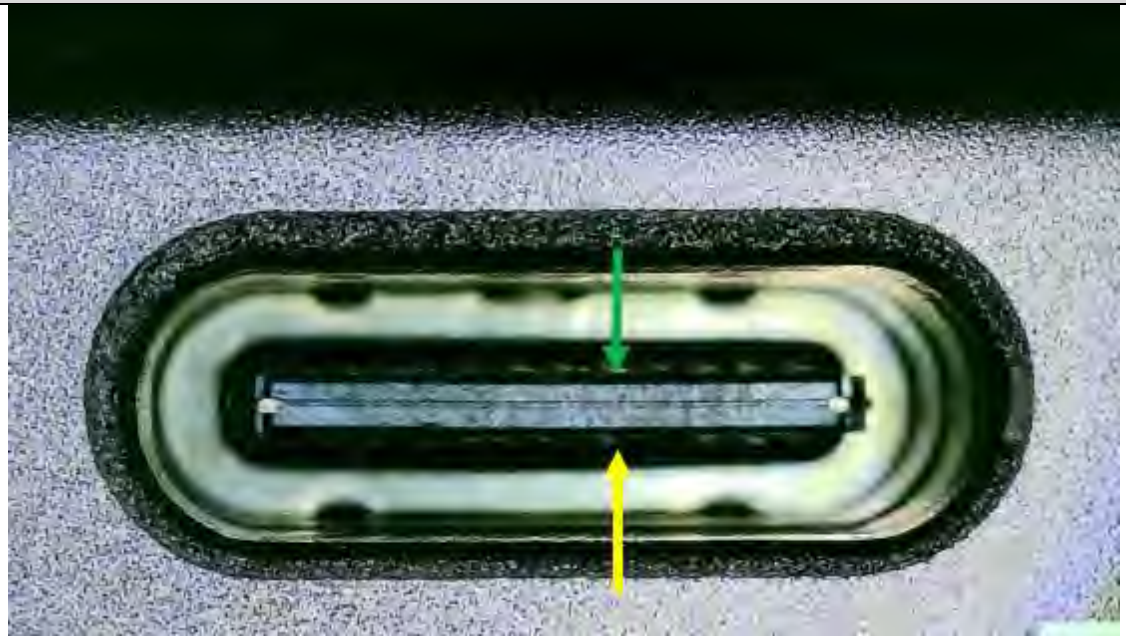
Claim 98 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1090

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

Samsung, EX1004, p. 1092

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1093

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

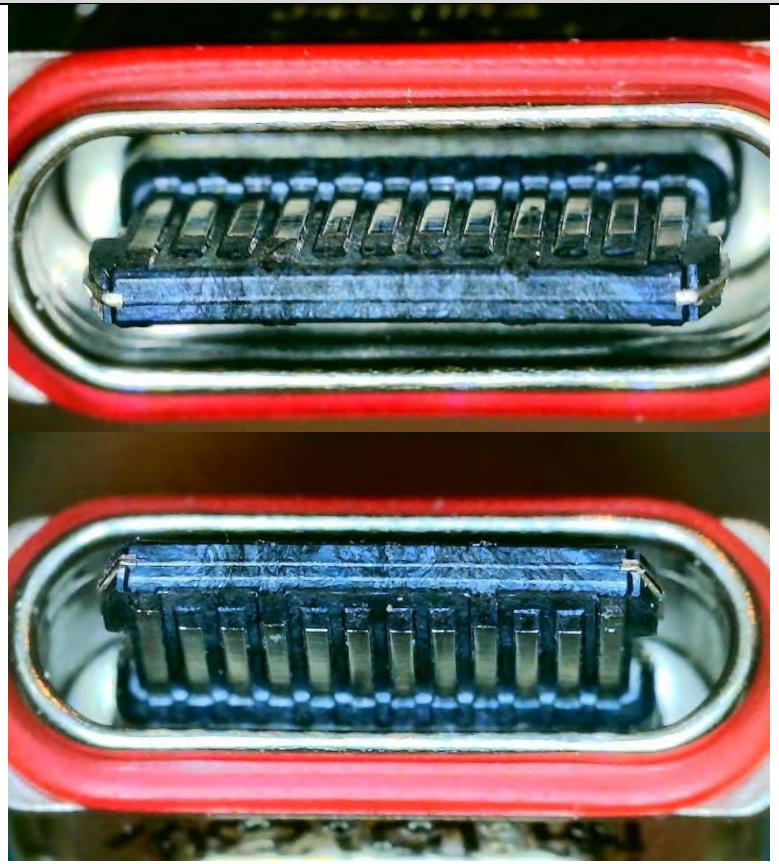
Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**].
[**98E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that	The tongue of the Samsung S24 FE (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

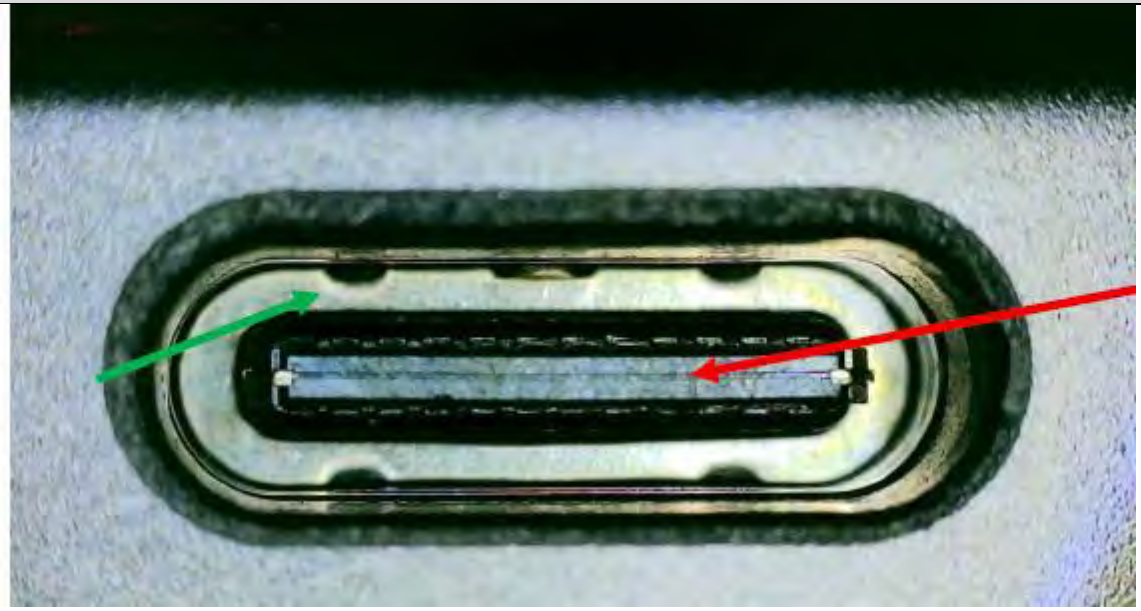
Claim 98 of the '307 Patent	Evidence of Infringement
chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot based on an operational state when the socket structure is connected to the plug;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by a blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

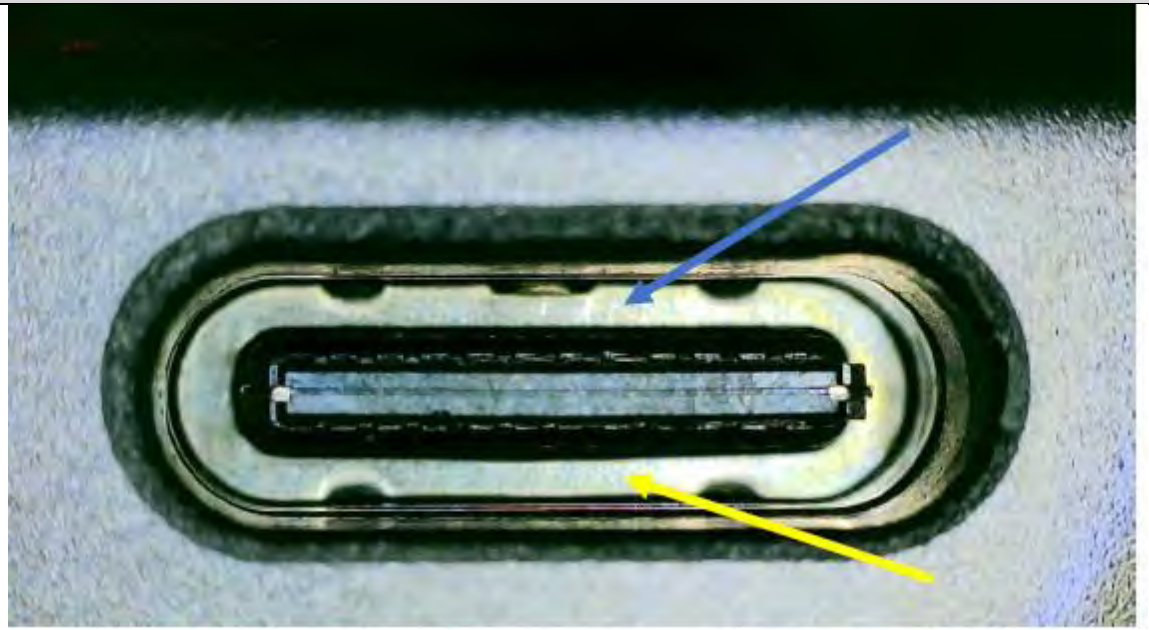
Claim 98 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

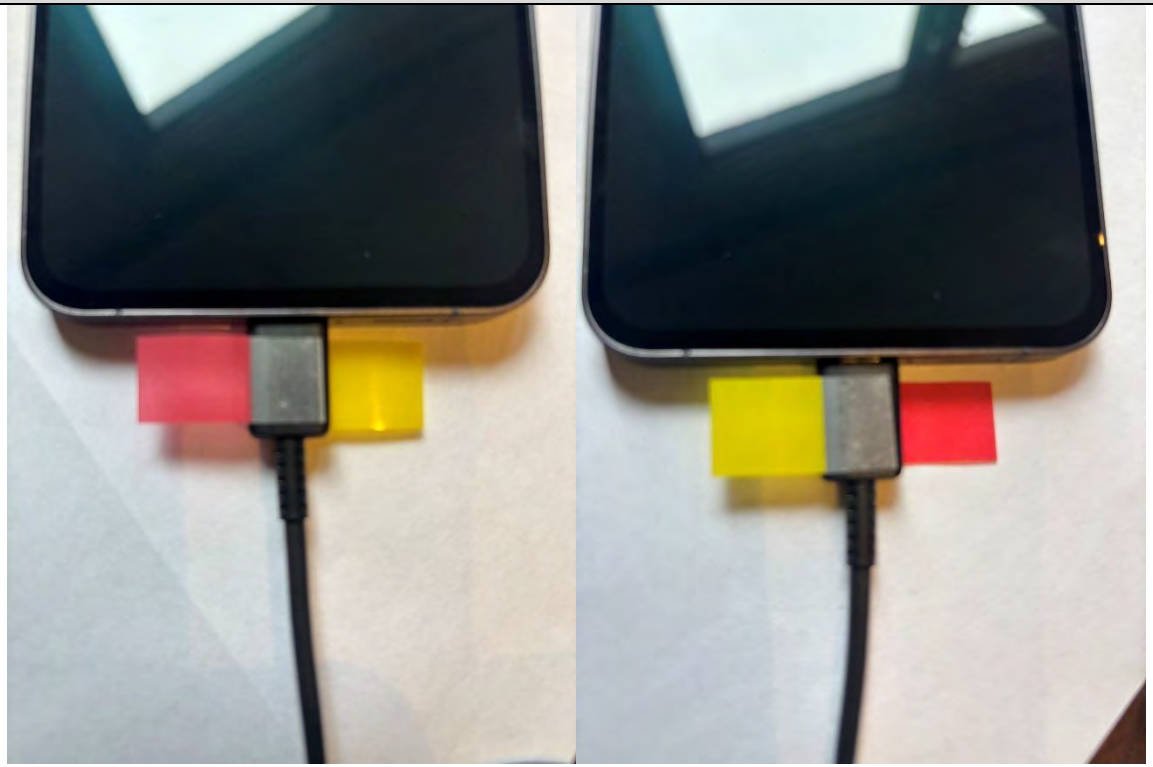
Claim 98 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the second structure of the Samsung S24 FE when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on bottom (second image). *See also* Element [**34E**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

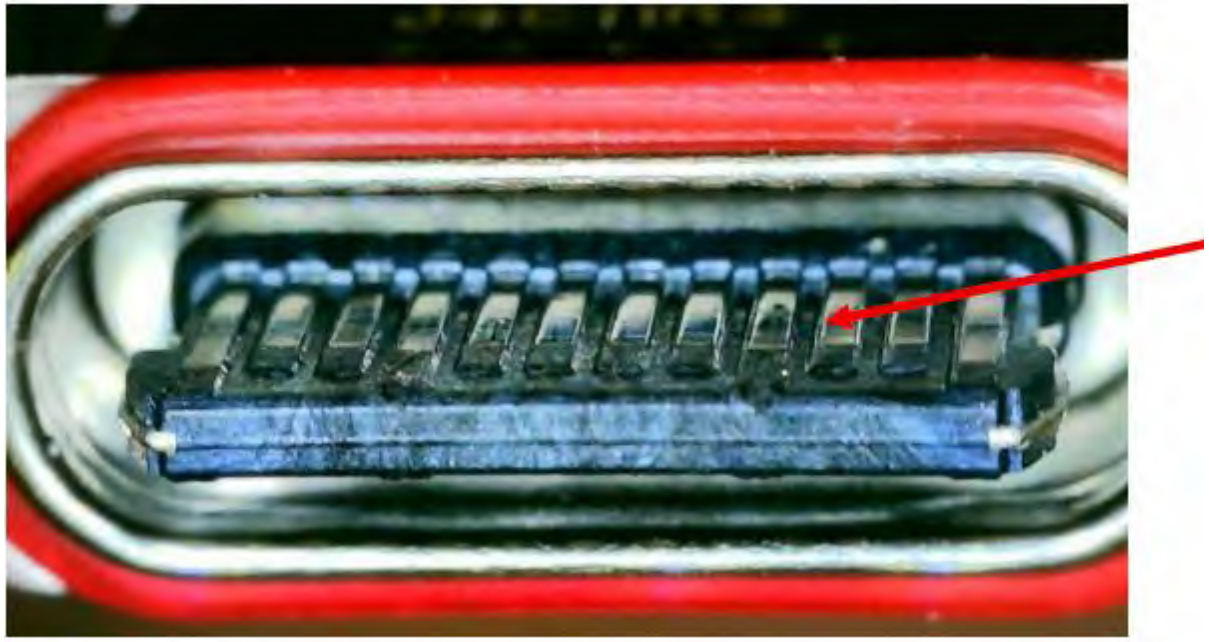
Claim 98 of the '307 Patent	**Evidence of Infringement**
[**98F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The socket structure of the Samsung S24 FE includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung S24 FE includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung S24 FE includes two rows of twelve pins extending out of the base. On information and belief, the bottom row of pins corresponds to the first contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image showing underside of socket structure where it connects to PCB.) This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung S24 FE is a USB-C socket and/or compatible with the USB-C cables).

Furthermore, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	**Evidence of Infringement**
	See also Element [**34F**].
[**98G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung S24 FE includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

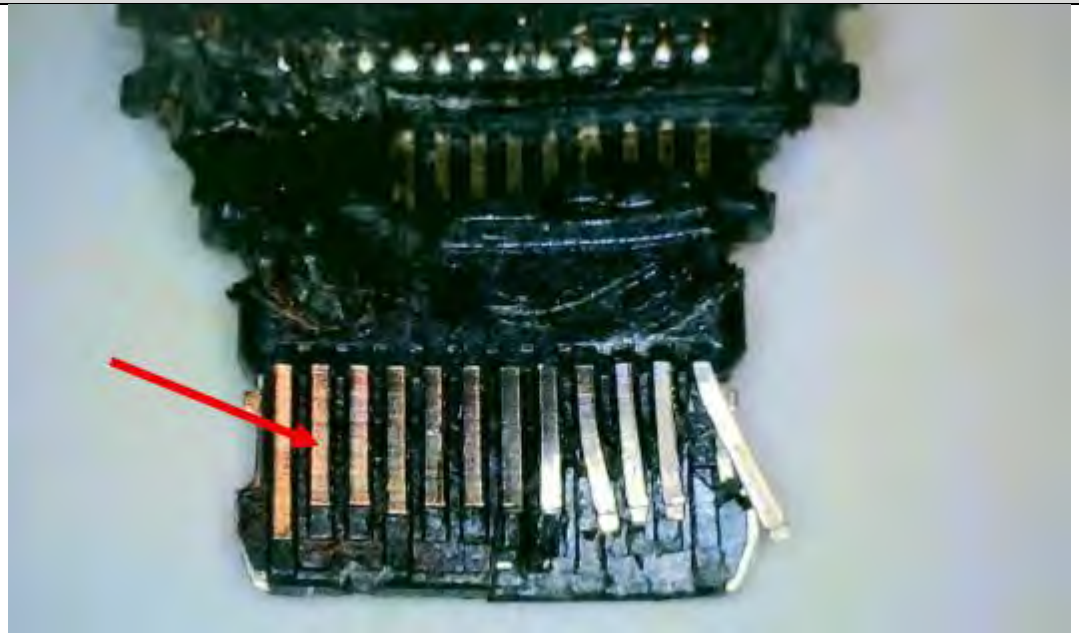
Claim 98 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34G**].
[**98H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. On information and belief, the top row of pins in the image below corresponds to the second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image showing socket structure where it connects to PCB.) In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**98I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.

Samsung, EX1004, p. 1104

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

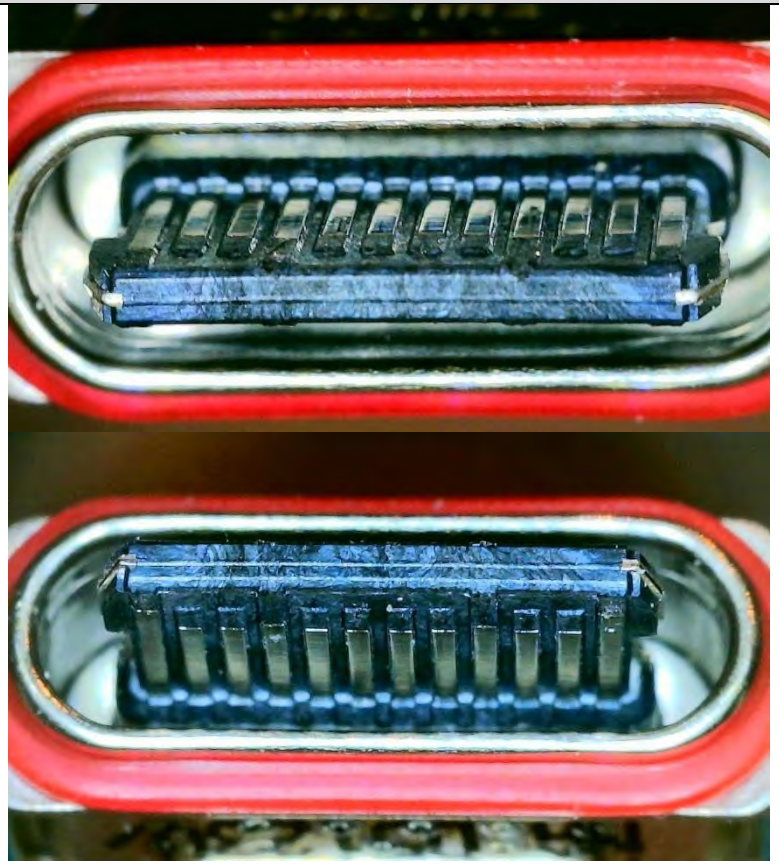
Claim 98 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

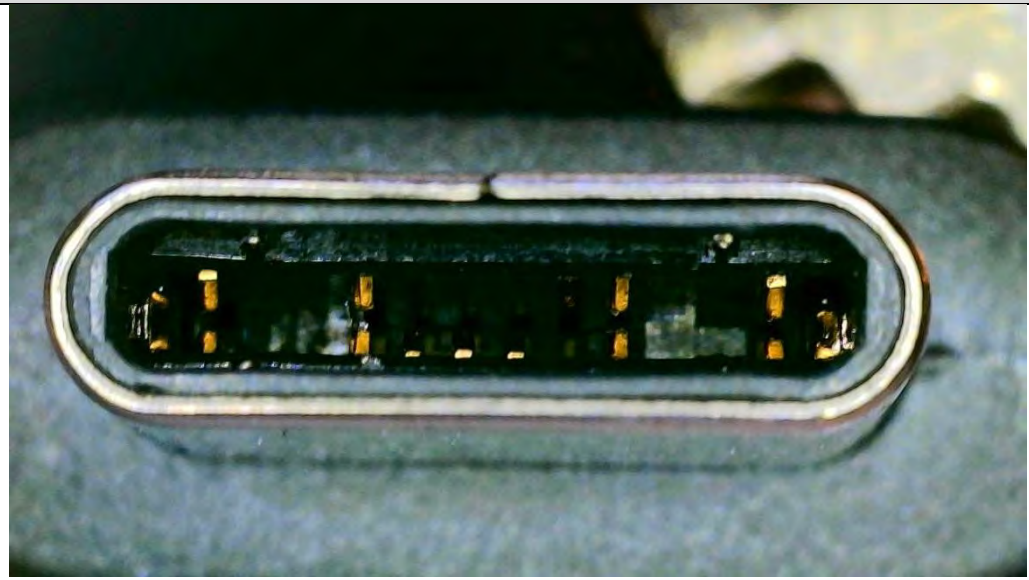
Claim 98 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

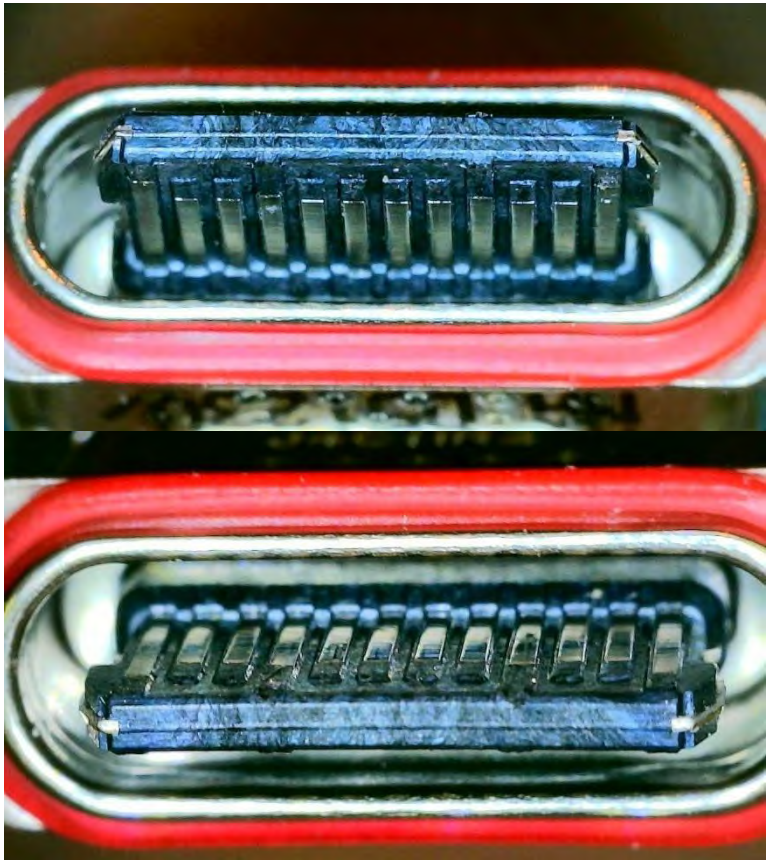
Claim 98 of the '307 Patent	**Evidence of Infringement**
[**98J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The first row of contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).  In addition, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

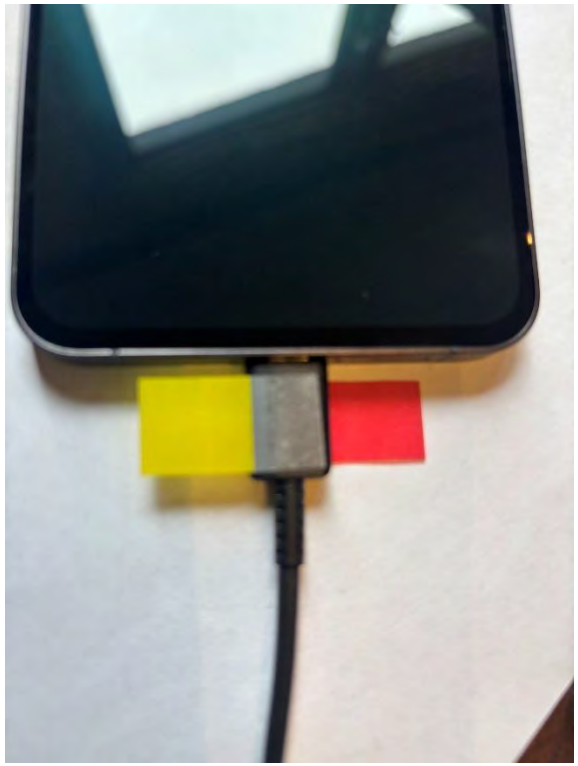
Claim 98 of the '307 Patent	Evidence of Infringement
	The socket structure is thereby configured for two operational states, as described below in connection with elements [**98K**] through [**98N**].
[**98K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed at a central location within the connection slot,	The Samsung S24 FE is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug faces the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extending inward

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

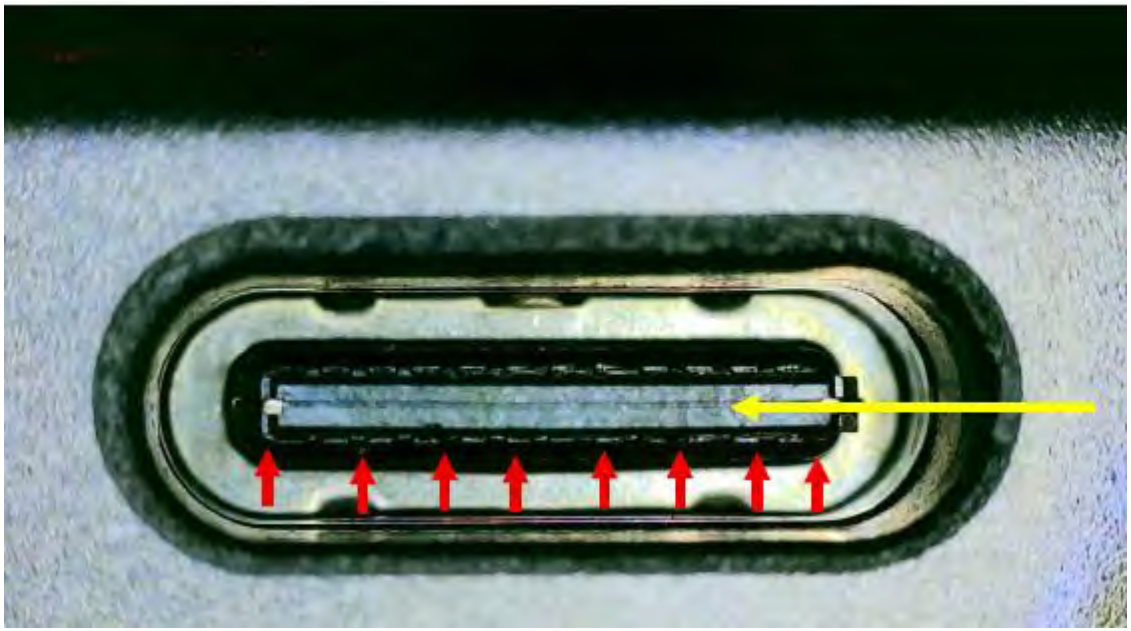
Claim 98 of the '307 Patent	Evidence of Infringement
	from the plug face marked with the red flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

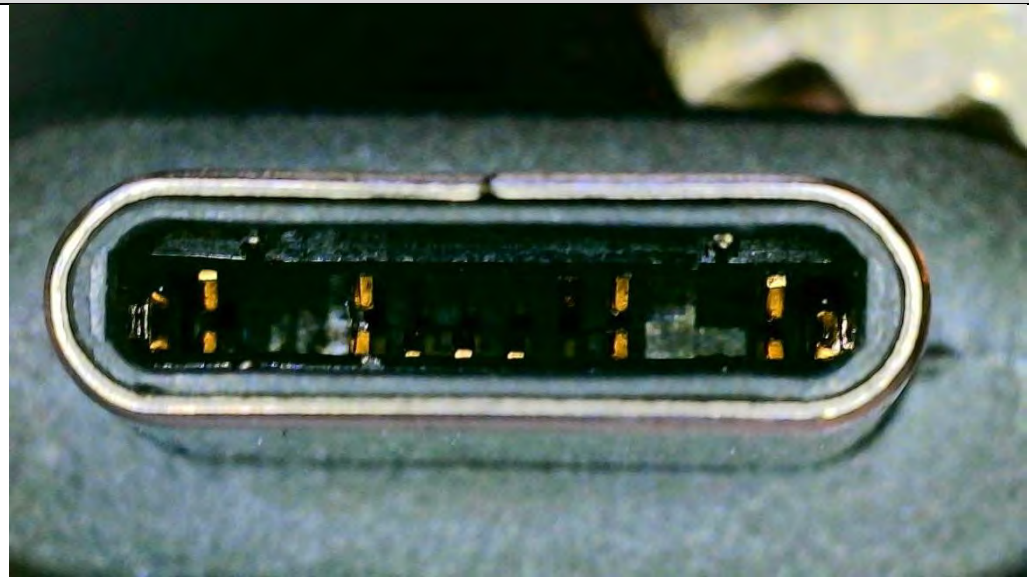
Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) The tongue is disposed at a central location within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

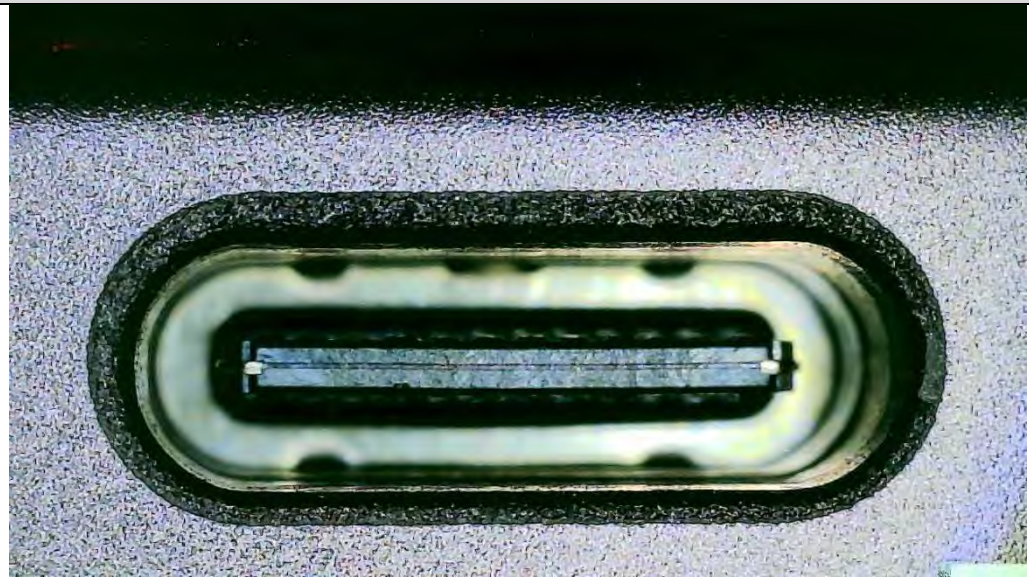
Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**].
[**98L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung S24 FE is configured for a first operational state as described above in connection with element [**98K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

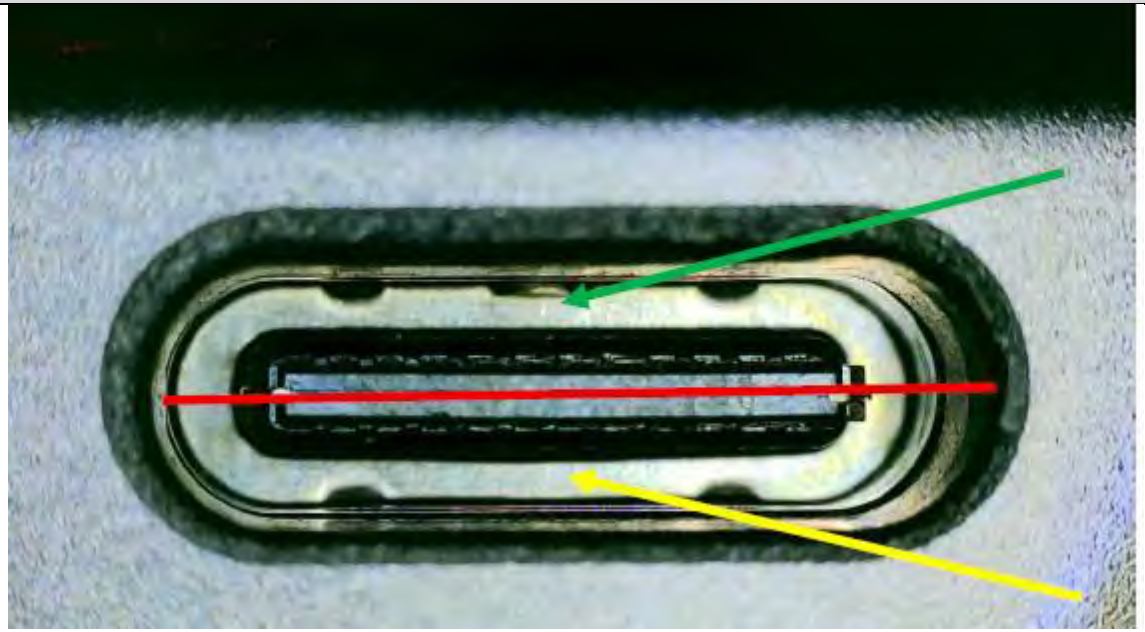
Claim 98 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

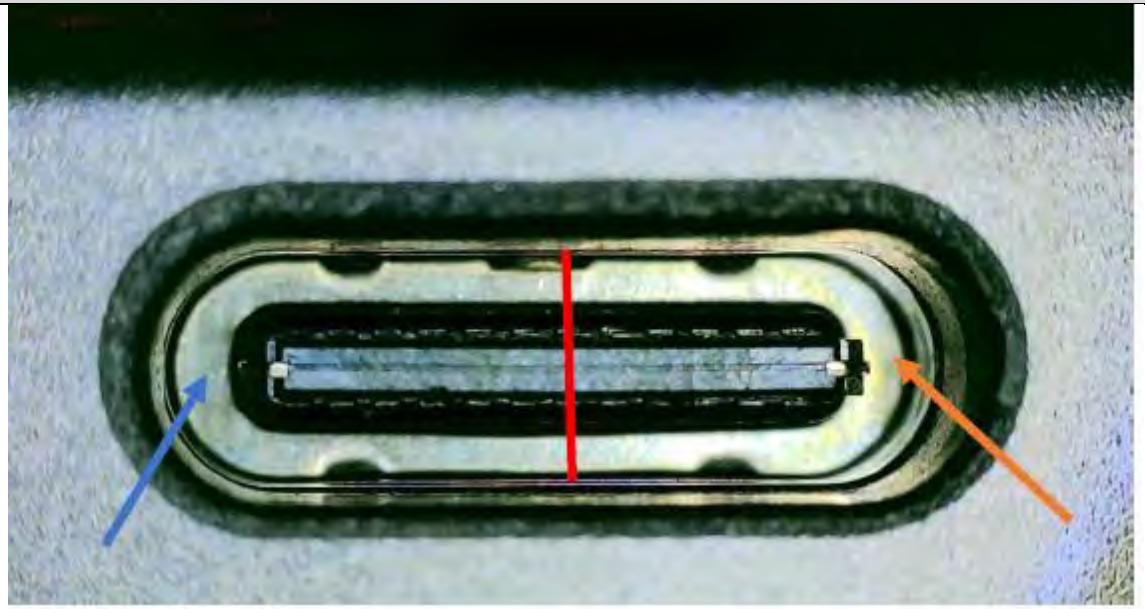
Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**].
[**98M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug	The Samsung S24 FE is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
are electrically connected to the at least one row of first contacts, and the tongue is disposed at a central location within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extending inward from the plug face marked with the red flag so as to electrically connection with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

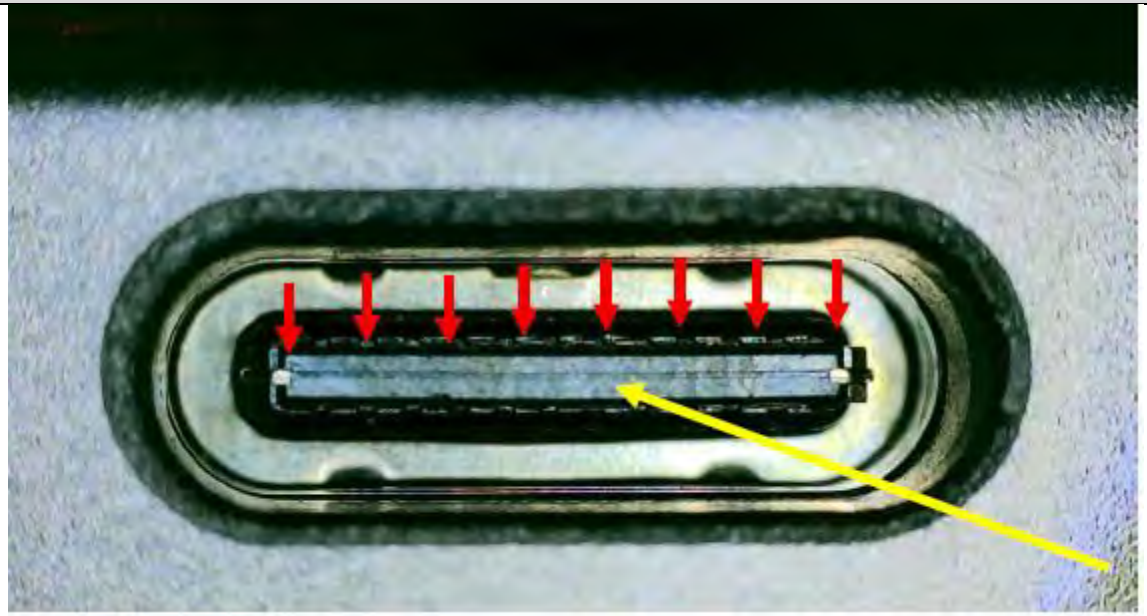
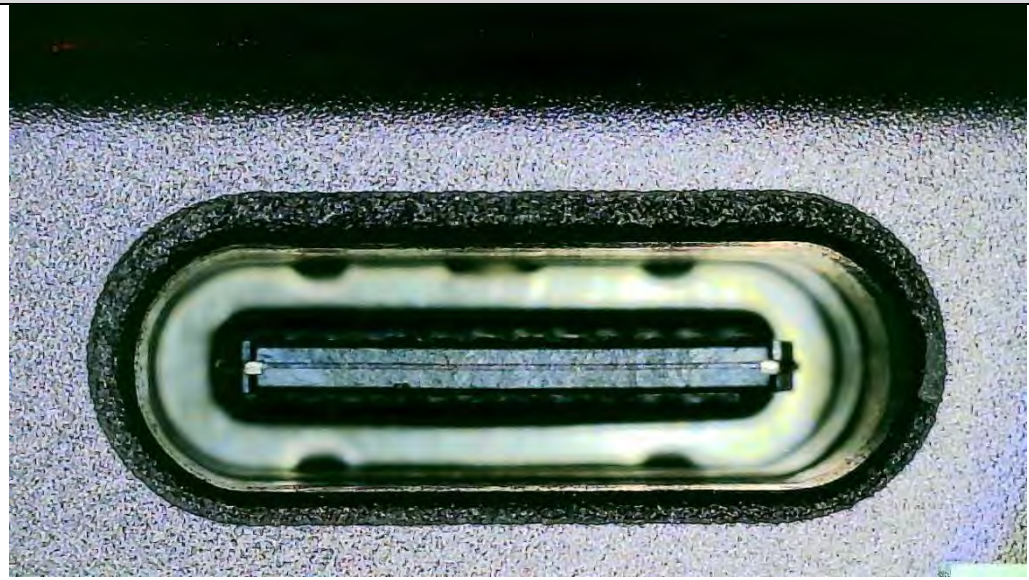
Claim 98 of the '307 Patent	Evidence of Infringement
	 The tongue is disposed at a central location within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].
[**98N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**98L**]. *See also* Element [**34N**].

Samsung, EX1004, p. 1119

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

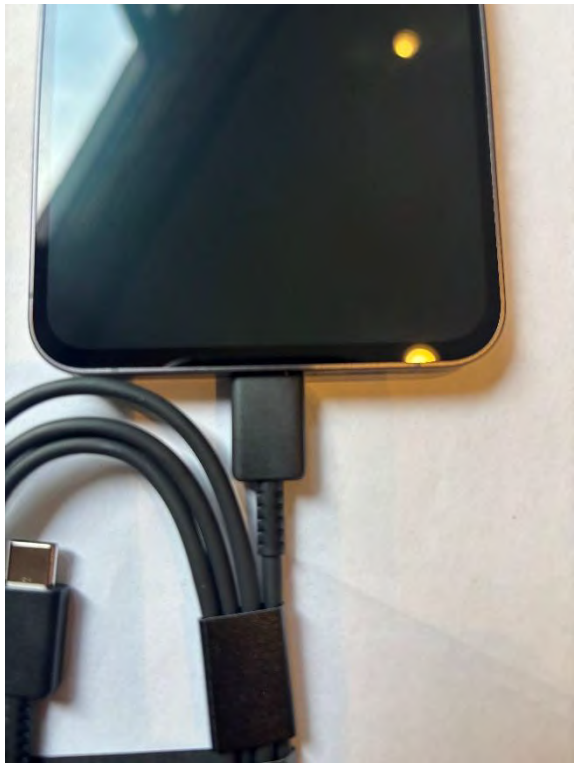
Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
[**99A**] An electrical connection system comprising	The Samsung S24 FE and a USB-C plug such as the included USB-C plug form an electrical connection system.  The socket structure of the Samsung S24 FE is specifically designed (and intended) to be connected with a USB-C plus such as the included USB-C cable. For example, the Samsung S24 FE is packaged with a USB-C cable, as further described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Samsung also provides instructions to its customers to insert the USB cable into the USB port of a phone or tablet for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

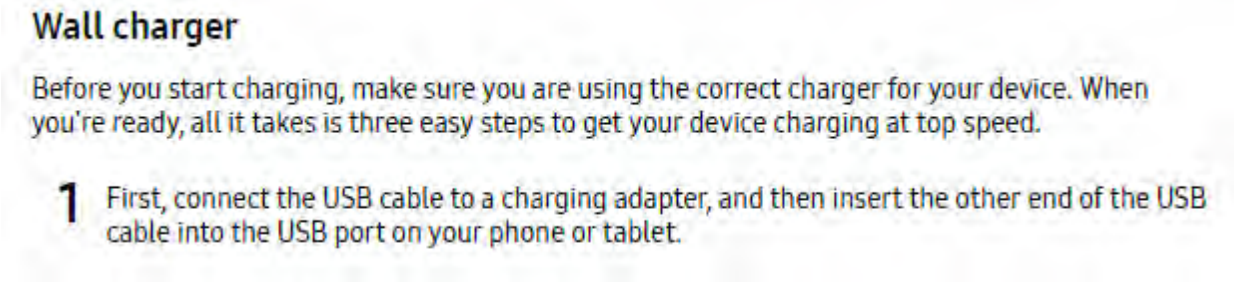
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, a primary purpose of the socket structure of the Samsung S24 FE is to connect a USB cable to the rechargeable battery of the Samsung S24 FE via the socket structure, which thereby provides power to the Samsung S24 FE and enables its use.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) *See also* Elements [**48B**], [**55A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
[**99B**] the socket structure with the duplex electrical connection of claim 98 and	This Accused Instrumentality includes a socket structure as described in claim 98 as described above in connection with elements [**98A**] through [**98N**].
[**99C**] the plug,	The Samsung S24 FE is packaged with a USB-C cable which includes a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

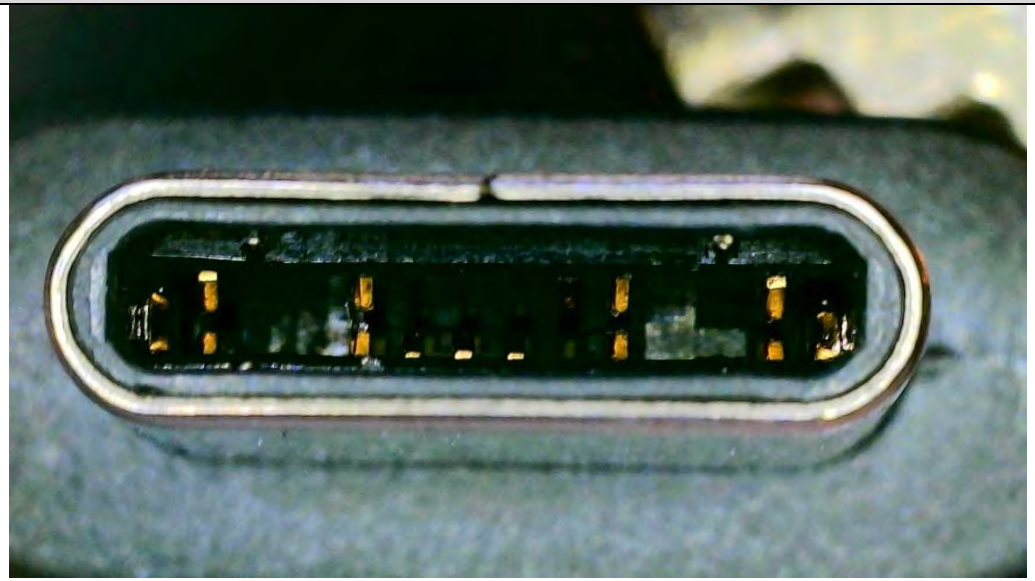
Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**55C**].
[**99D**] wherein the socket structure is operatively connected to the plug,	When the plug is connected with the socket structure, the socket structure is operatively connected to the plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

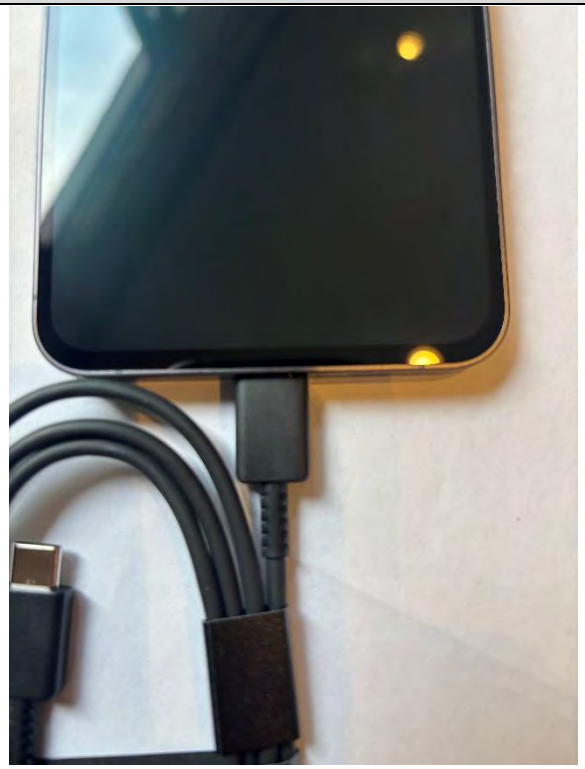
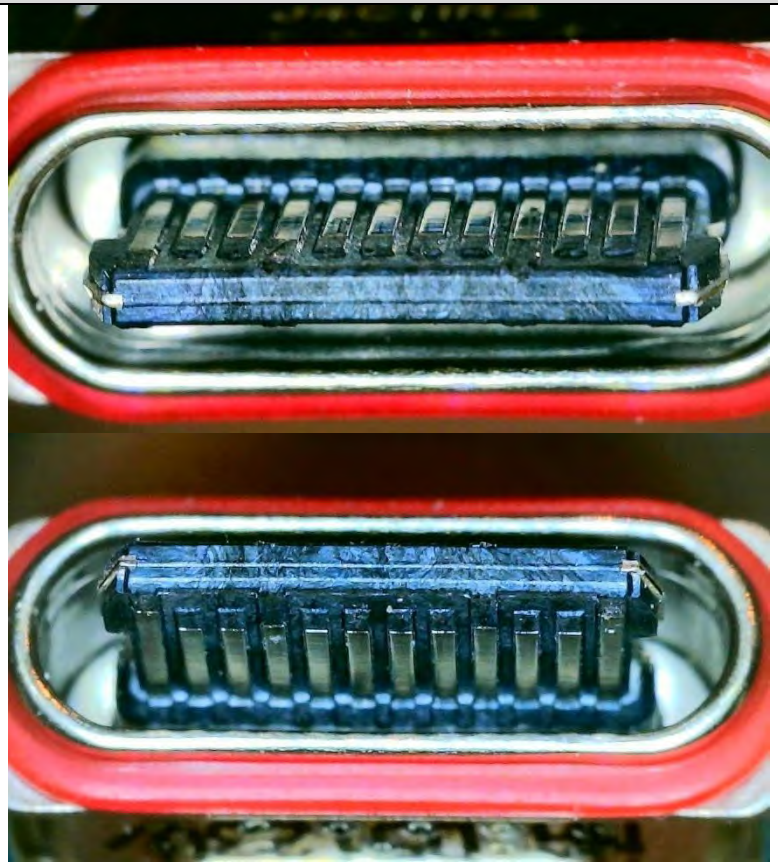
Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**48B**].
[**99E**] and wherein the socket structure is operative to simultaneously electrically connect via the first and second contacts.	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

Samsung, EX1004, p. 1128

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

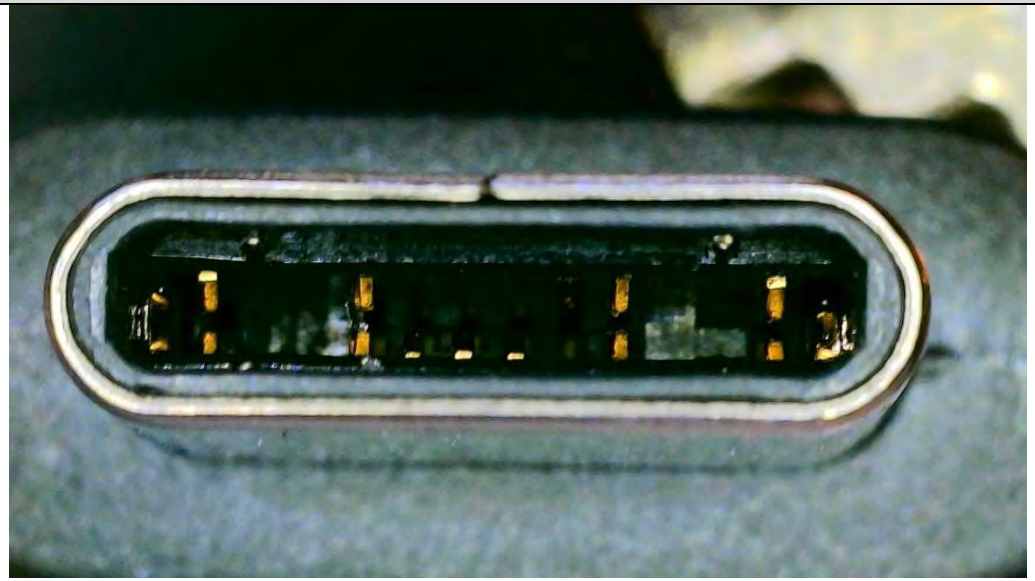
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Elements [**34I**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

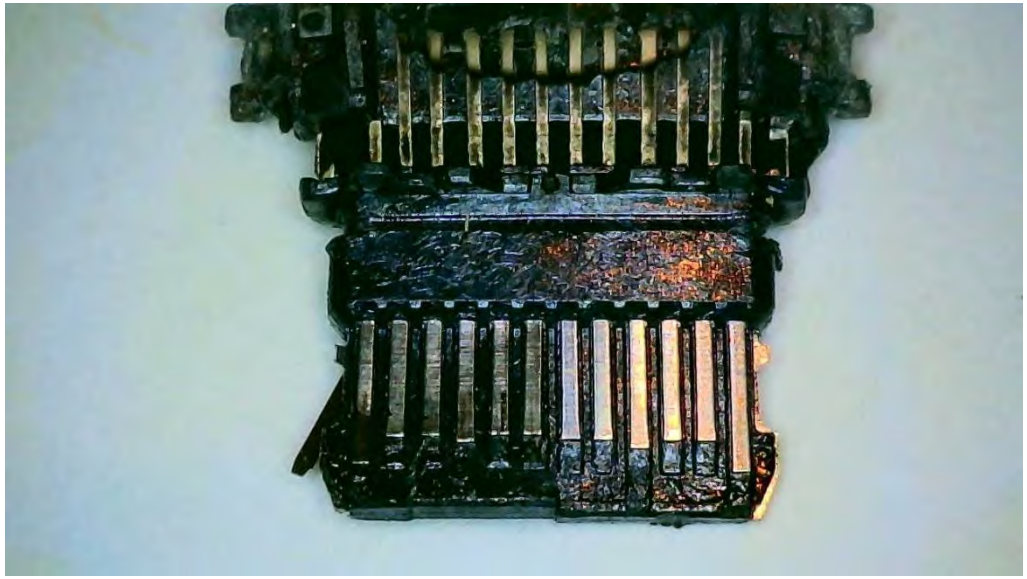
Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
[**100A**] The socket structure of claim 98,	This Accused Instrumentality includes a socket structure as described in claim 98 as described above in connection with elements [**98A**] through [**98N**].
[**100B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base of the Samsung S24 FE are integrally formed.  *See also* Element [**41B**].
[**101A**] The socket structure of claim 100,	This Accused Instrumentality includes a socket structure as described in claim 100, as described above in connection with elements [**100A**] through [**100B**].
[**101B**] wherein the metal housing at least partially covers the plastic base.	The Samsung S24 FE includes a metal housing that covers the plastic base at least in part.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
	 (Image of socket structure of Samsung S24 FE.) *See also* Element [**39B**].
[**102A**] The socket structure of claim 101,	This Accused Instrumentality includes a socket structure as described in claim 101 as described above in connection with elements [**101A**] through [**101B**].
[**102B**] wherein at least two of the first contacts are not in electrical communication with one another and at least two of the	At least one of each of the first and second contacts of the Samsung S24 FE are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung S24 FE includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementation with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
second contacts are not in electrical communication with one another.	

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The Samsung S24 FE would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
	Furthermore, test results confirm that at least some of the contacts on both sides of the tongue are not in electrical communication with others of the contacts on the same side. *See also* Element [**44B**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	**Evidence of Infringement**
[**114A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung S24 FE is a phone that includes a socket structure with duplex electrical connection. In particular, the Samsung S24 FE provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025). The socket on the Samsung S24 FE is a USB-C socket.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

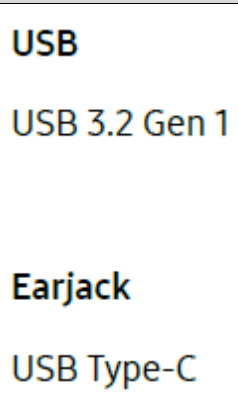
Claim 114 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung S24 FE is packaged with and capable of connecting to a USB-C cable.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

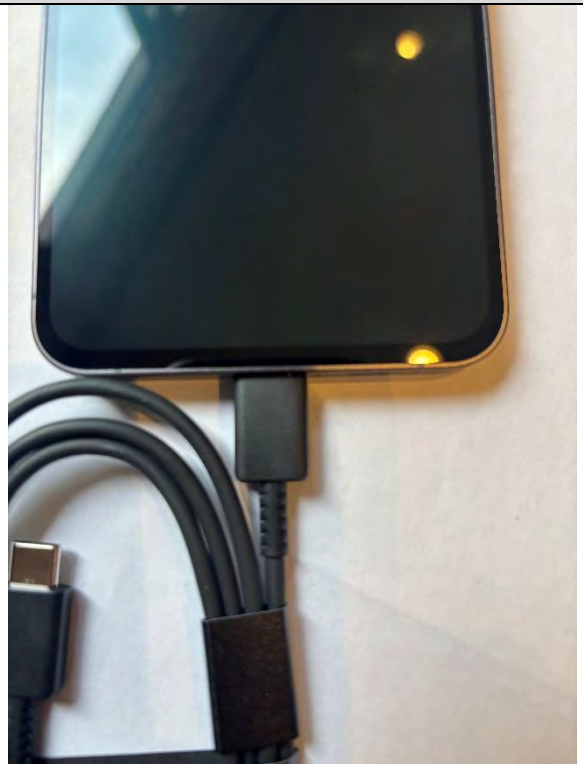
Claim 114 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**114B**] through [**114N**].
[**114B**] a plastic base;	The socket structure of the Samsung S24 FE includes a plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

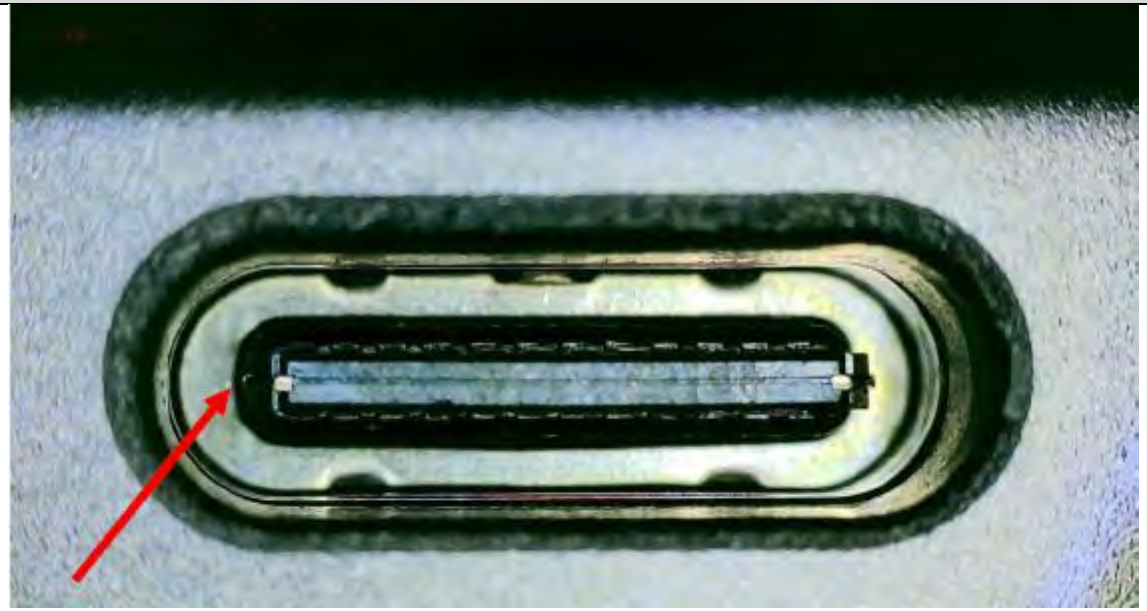
Claim 114 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

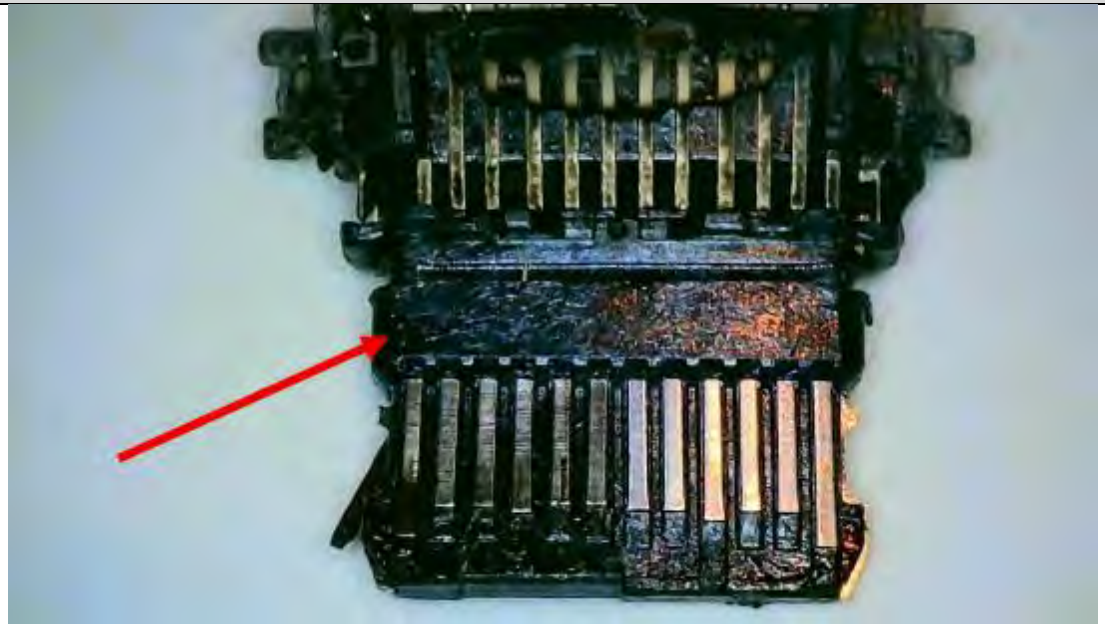
Claim 114 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34B**].
[**114C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung S24 FE includes a connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

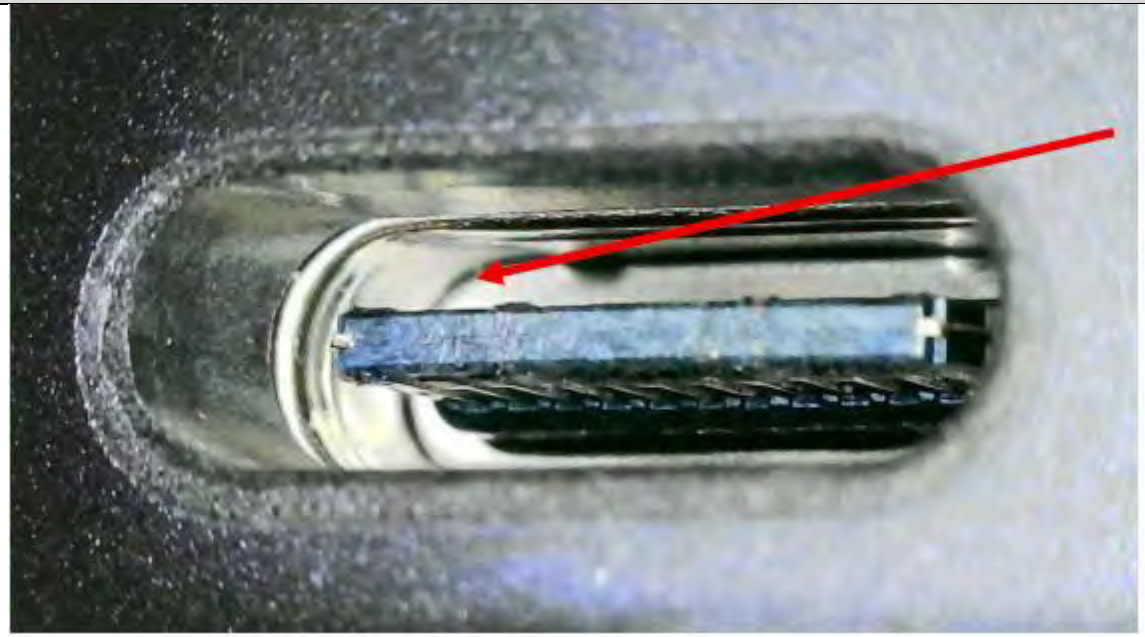
Claim 114 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

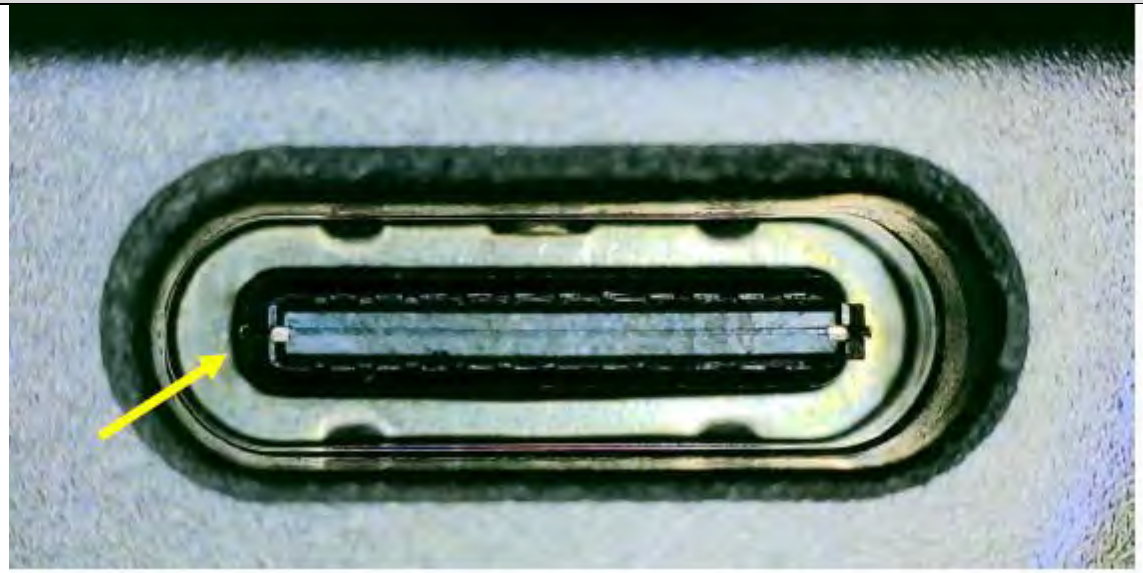
Claim 114 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung S24 FE, as described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

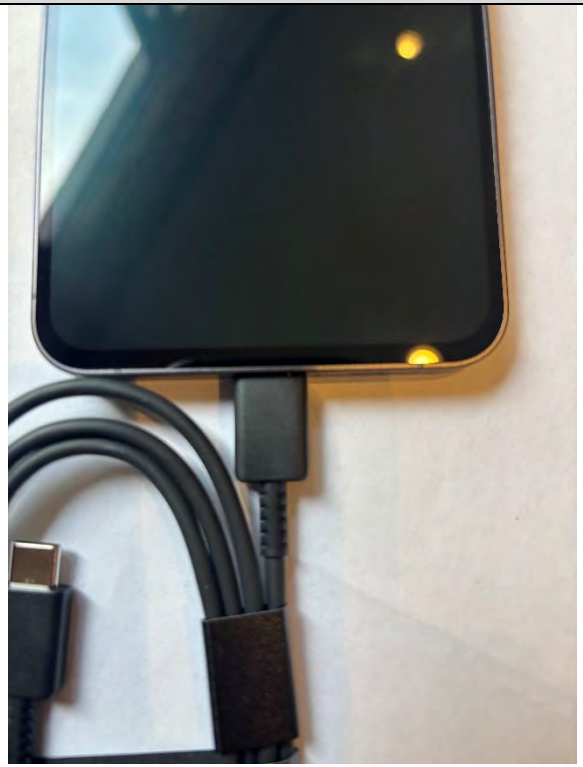
Claim 114 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

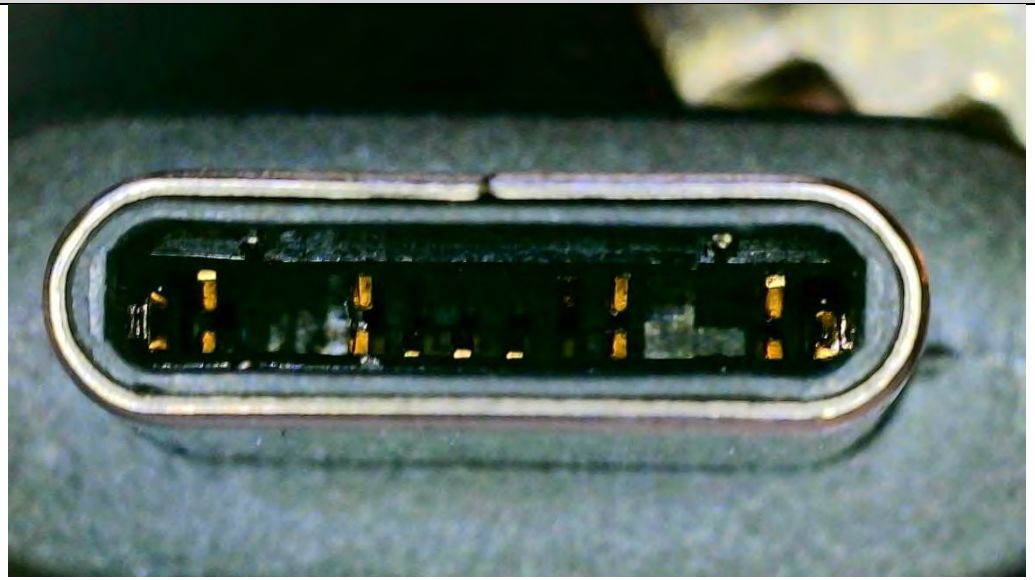
Claim 114 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**114D**] a tongue, which has a first surface and a second surface disposed opposite the first surface and	The socket structure of the Samsung S24 FE includes a tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

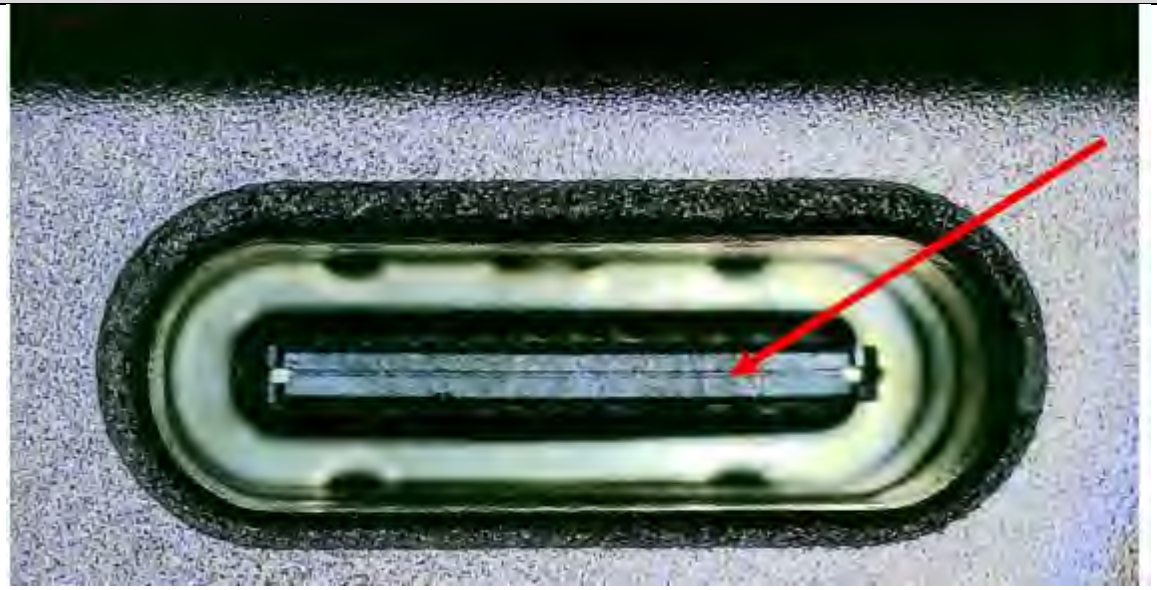
Claim 114 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

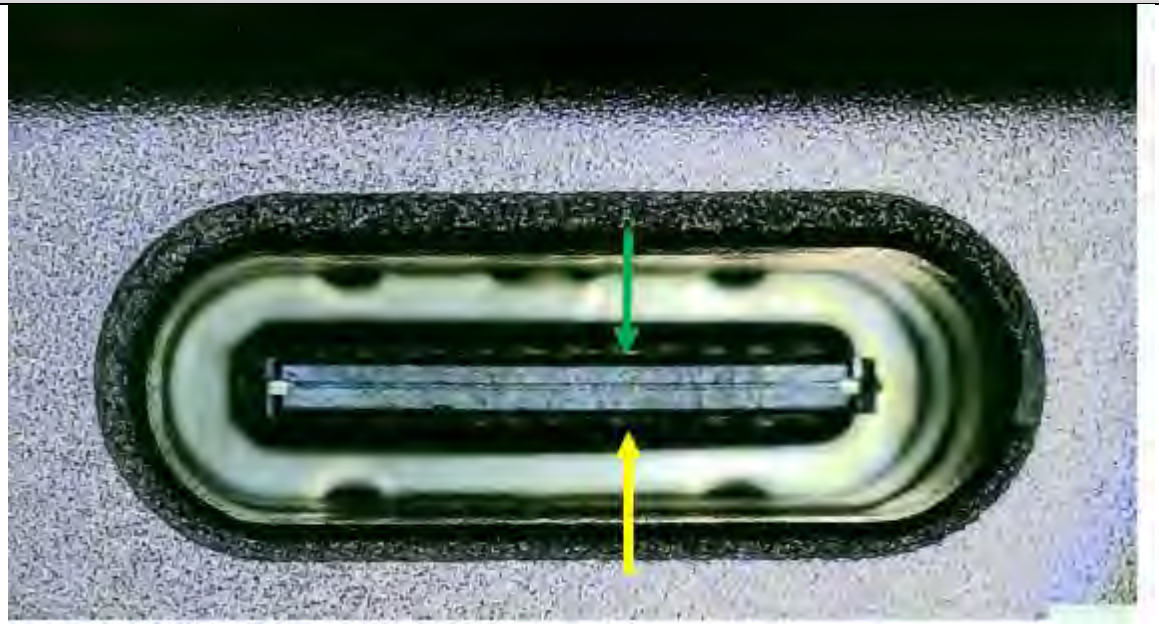
Claim 114 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

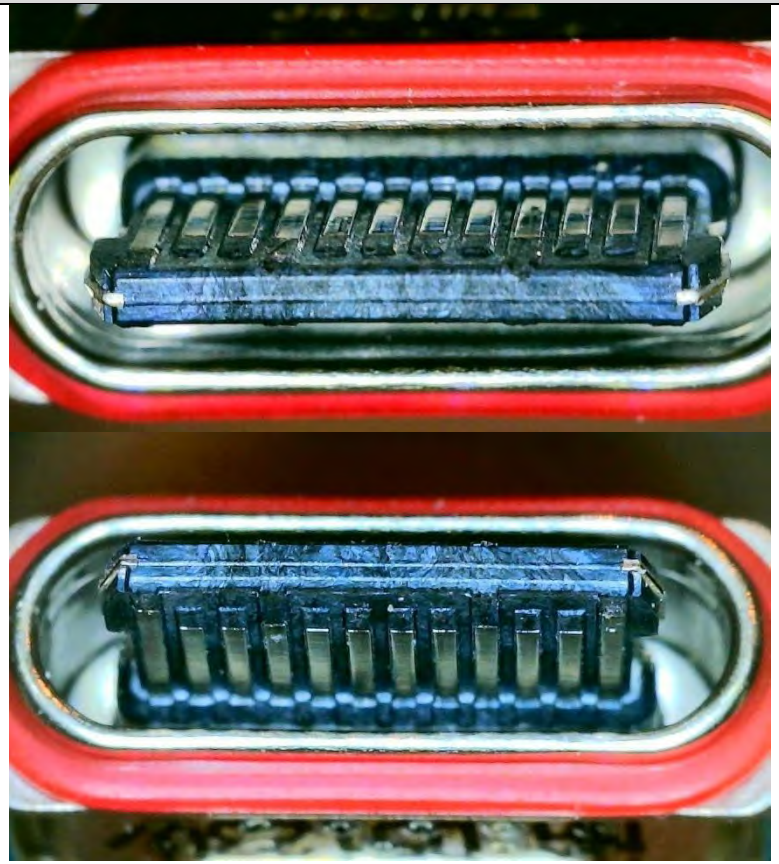
Claim 114 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34D**].
[**114E**] is disposed on one end of the plastic base and within the connection slot, such that chambers of the	The tongue of the Samsung S24 FE (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

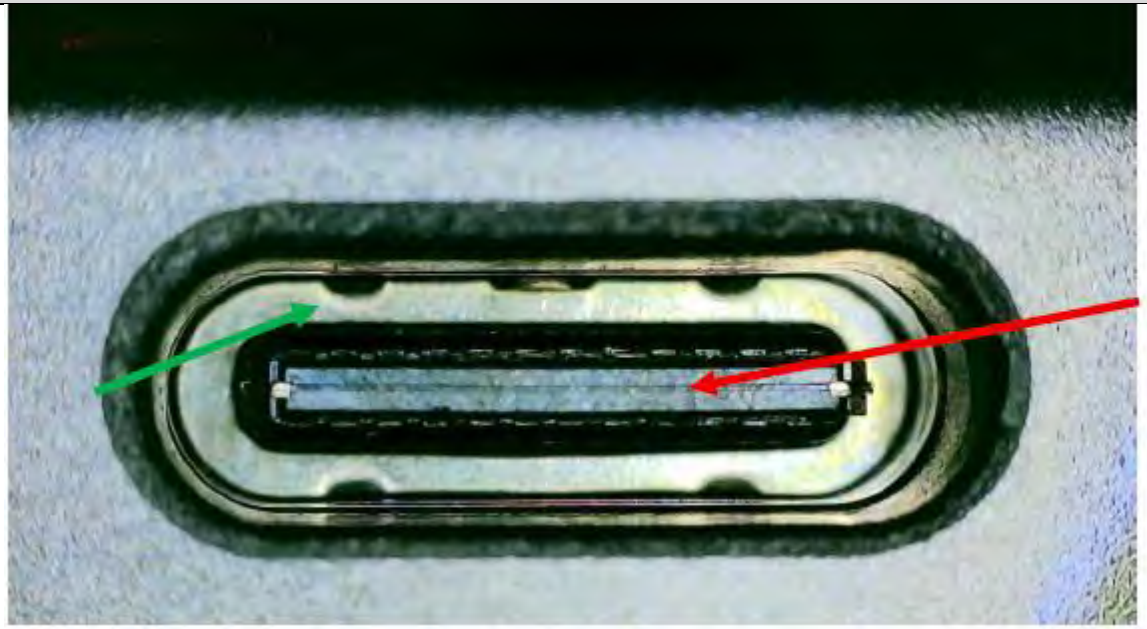
Claim 114 of the '307 Patent	Evidence of Infringement
connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot based on an operational state when the socket structure is connected to the plug;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by a blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

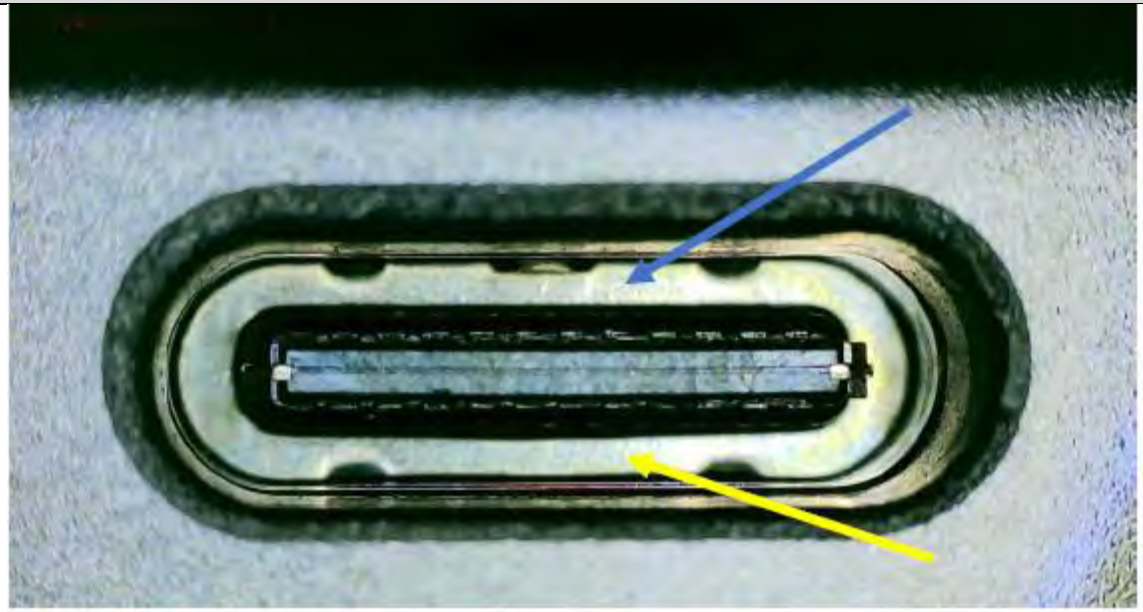
Claim 114 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

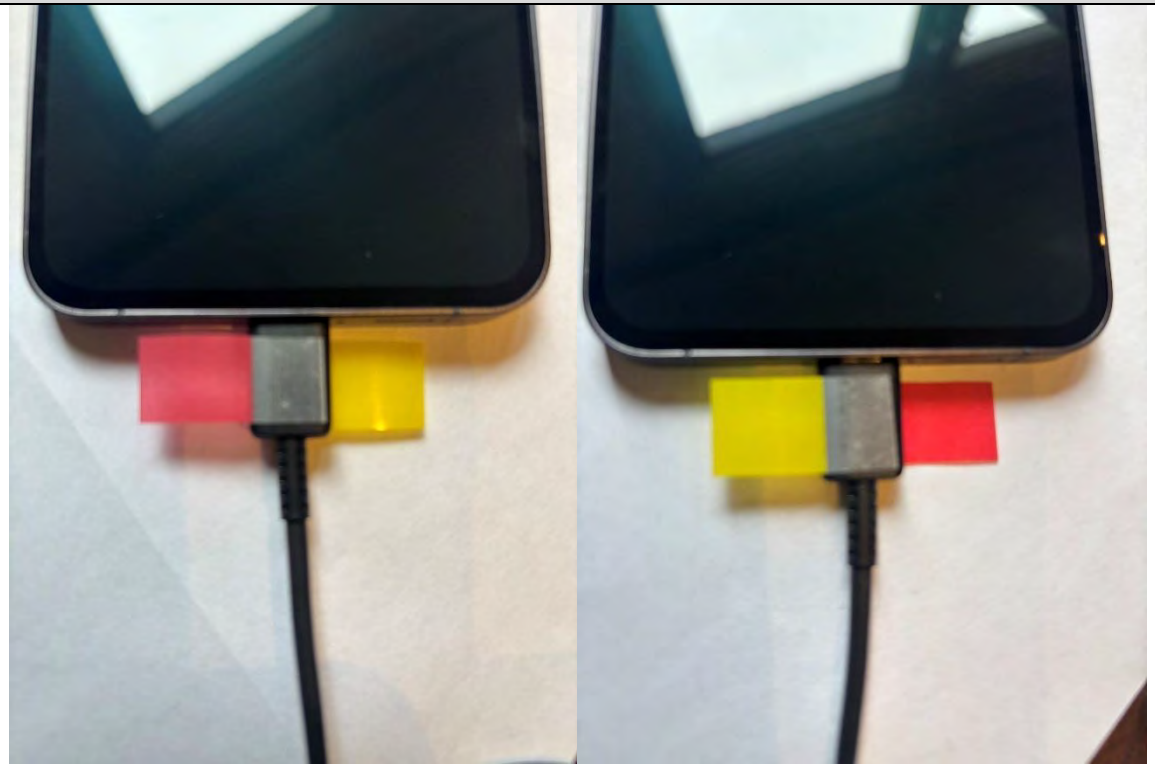
Claim 114 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the second structure of the Samsung S24 FE when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on bottom (second image). *See also* Element [**34E**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

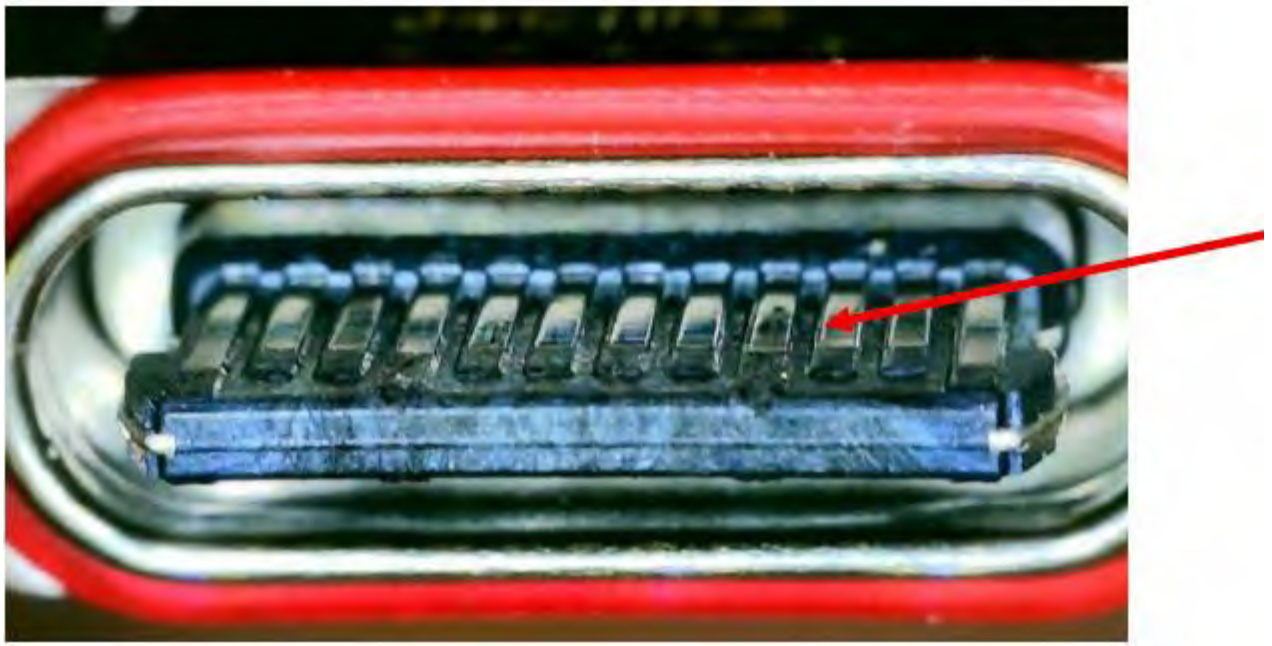
Claim 114 of the '307 Patent	**Evidence of Infringement**
[**114F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The socket structure of the Samsung S24 FE includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

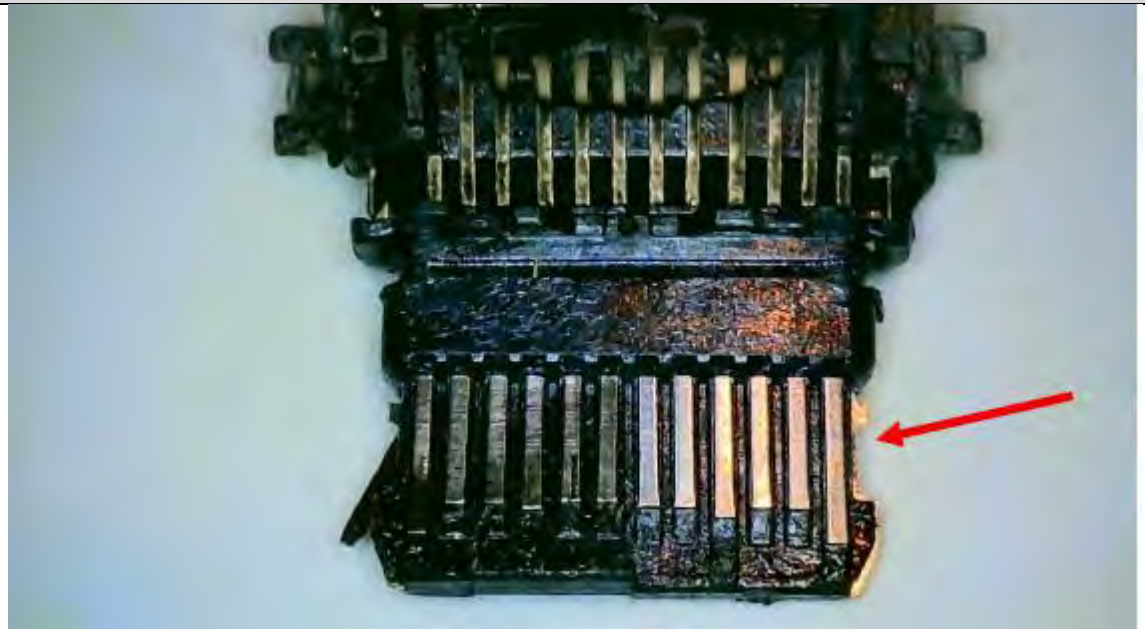
Claim 114 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung S24 FE includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung S24 FE includes two rows of twelve pins extending out of the base. On information and belief, the bottom row of pins corresponds to the first contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image showing underside of socket structure where it connects to PCB.) This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung S24 FE is a USB-C socket and/or compatible with the USB-C cables).

Furthermore, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

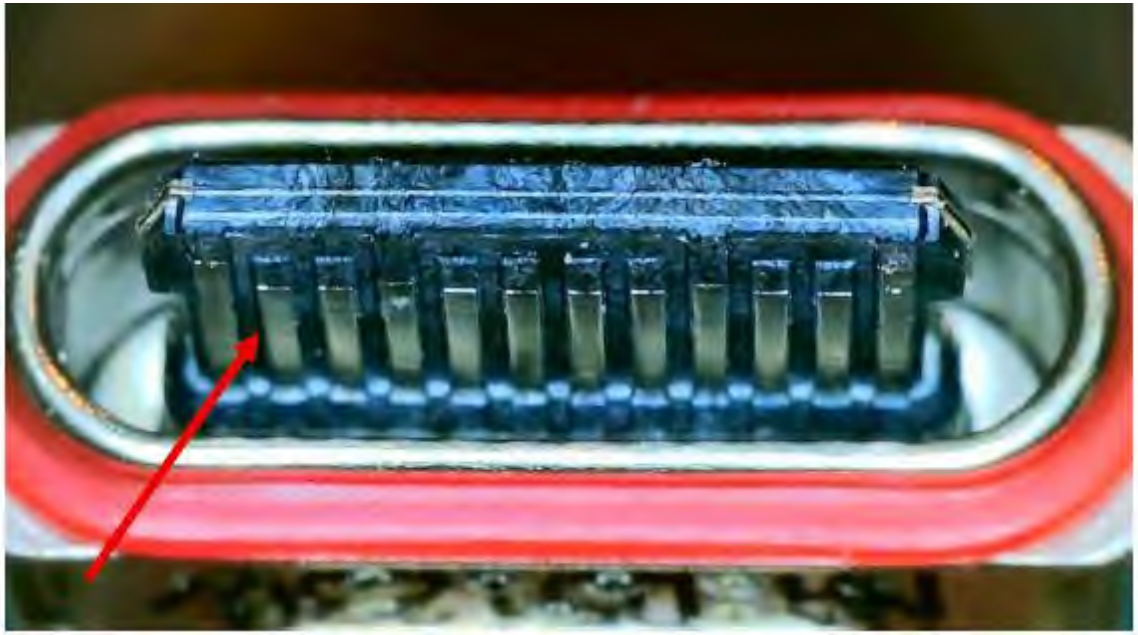
Claim 114 of the '307 Patent	Evidence of Infringement
	See also Element [**34F**].
[**114G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung S24 FE includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

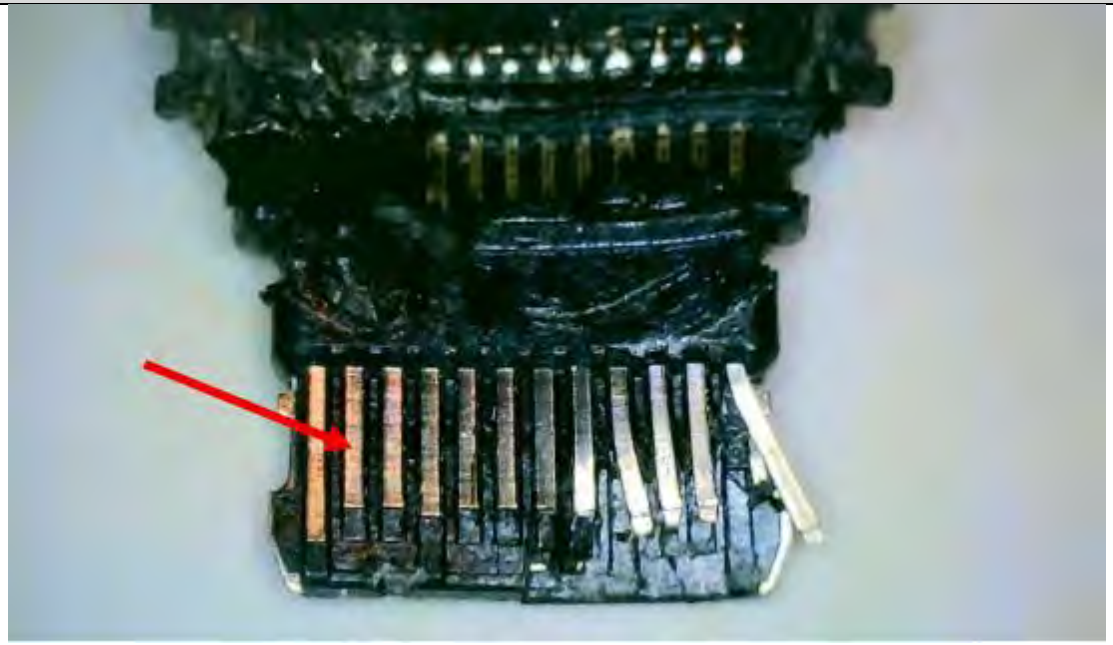
Claim 114 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34G**].
[**114H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. On information and belief, the top row of pins in the image below corresponds to the second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image showing socket structure where it connects to PCB.) In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**114I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

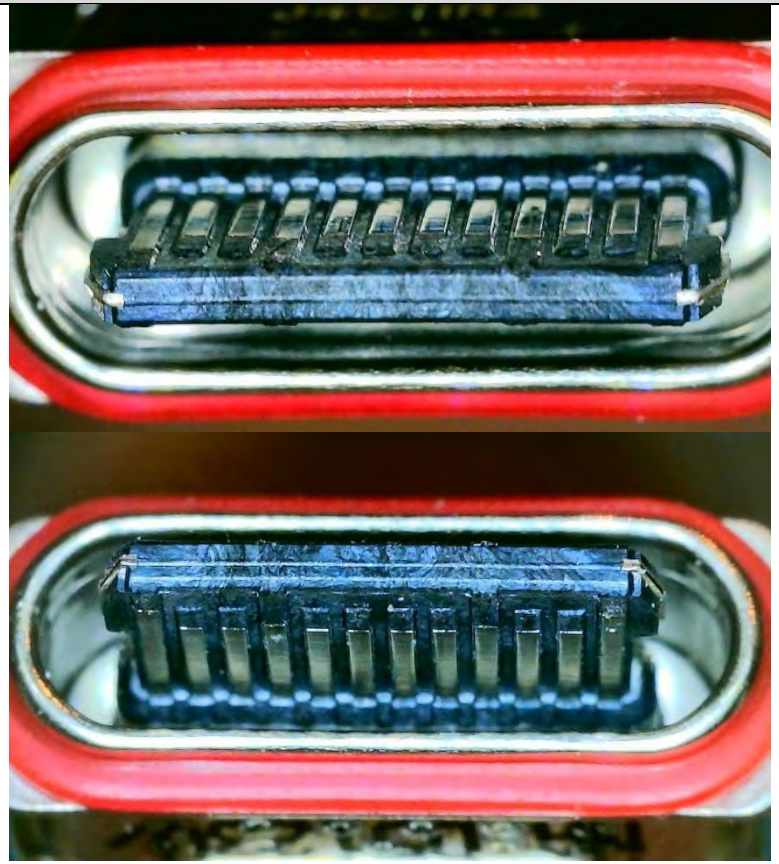
Claim 114 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

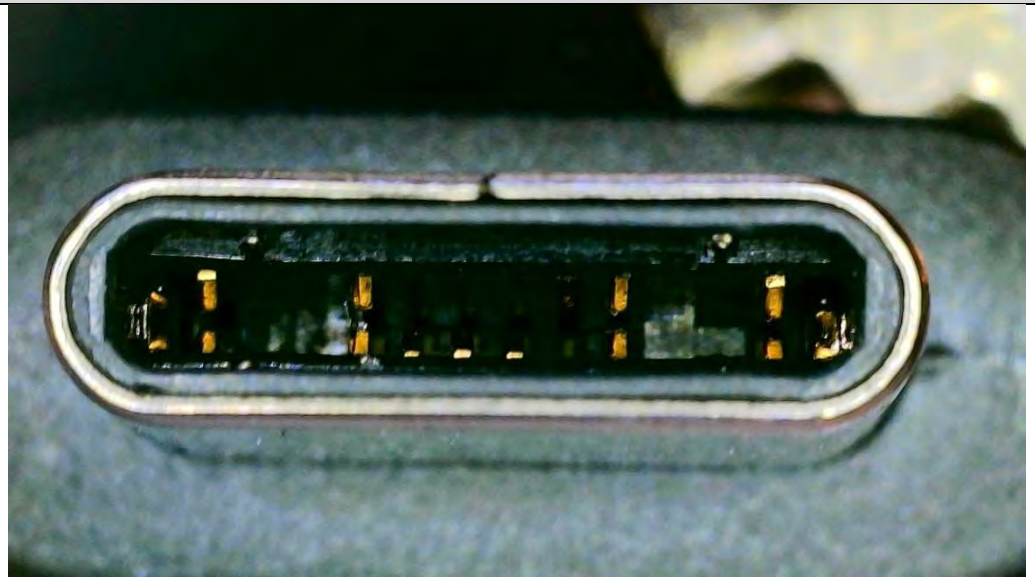
Claim 114 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**114J**] the at least one row of first contacts has	The first row of contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

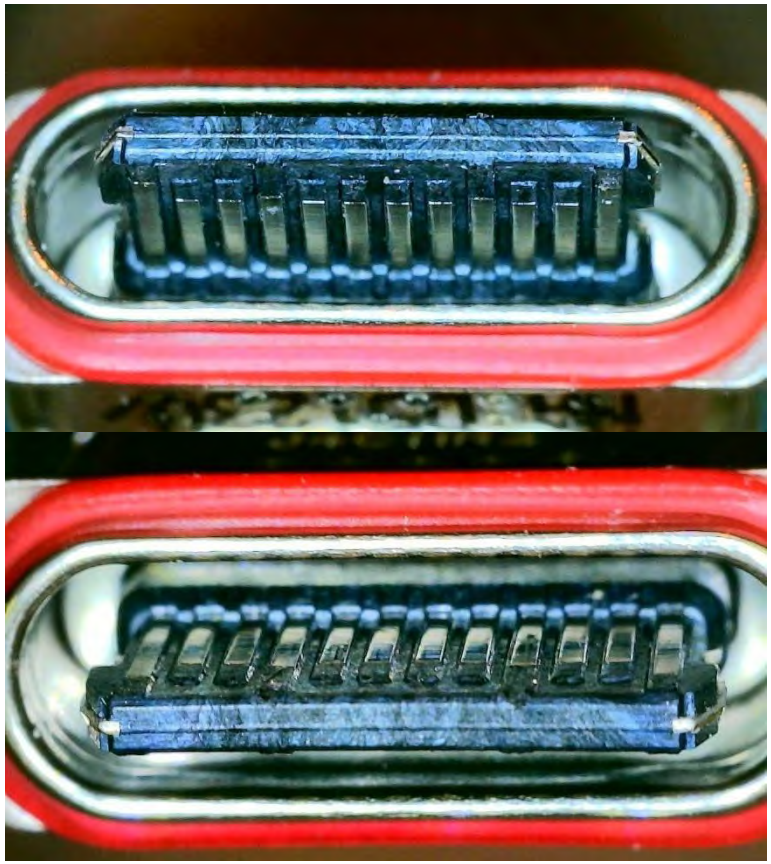
Claim 114 of the '307 Patent	**Evidence of Infringement**
a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	 In addition, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**114K**] through [**114N**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

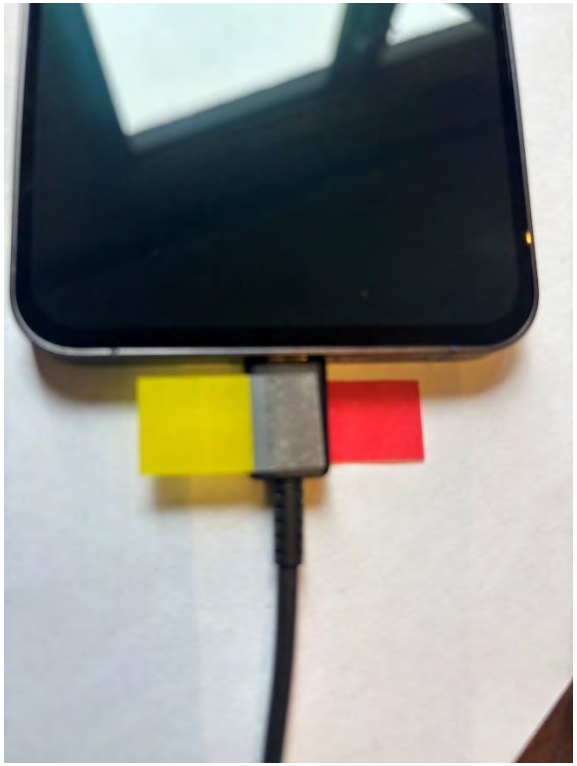
Claim 114 of the '307 Patent	Evidence of Infringement
[**114K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is centrally located within the connection slot,	The Samsung S24 FE is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug faces the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extending inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as red arrows in the image below. In

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

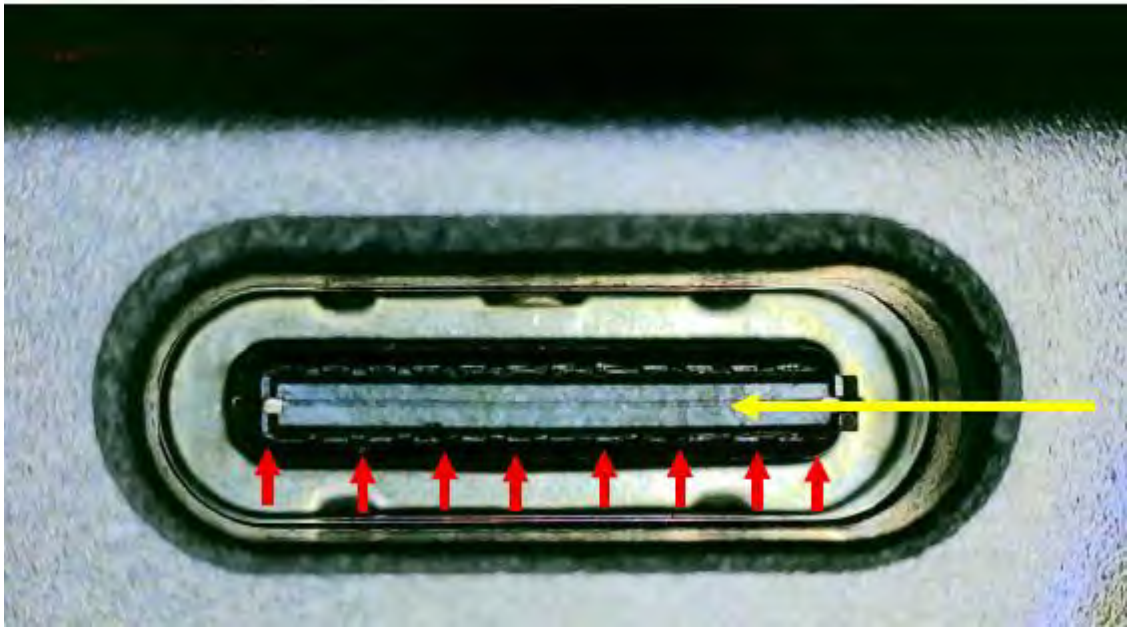
Claim 114 of the '307 Patent	Evidence of Infringement
	this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

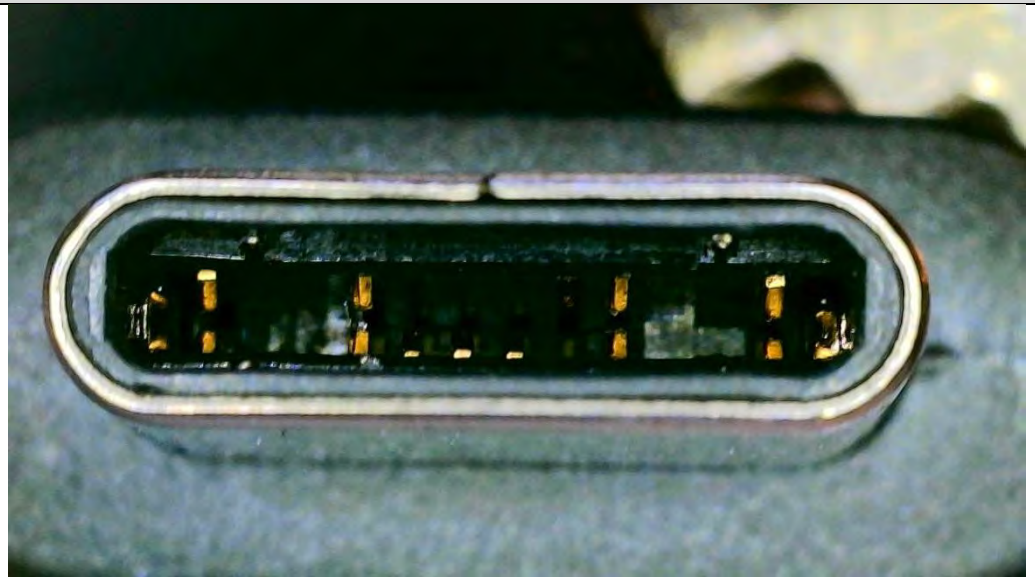
Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) The tongue is centrally located within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

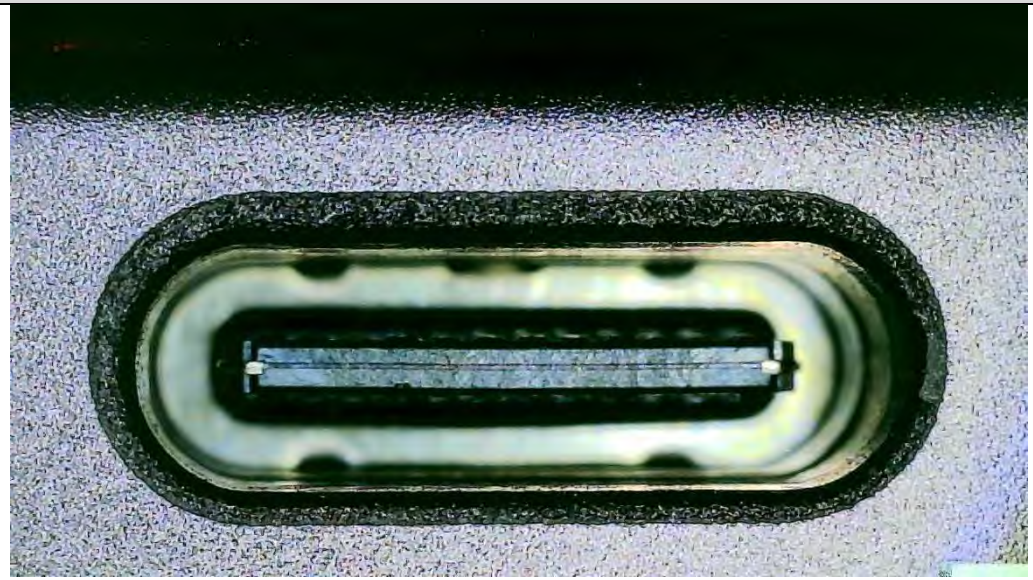
Claim 114 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**].
[**114L**] wherein the connection slot is symmetric with up, down, left and right chambers around the tongue; and	The Samsung S24 FE is configured for a first operational state as described above in connection with element [**114K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

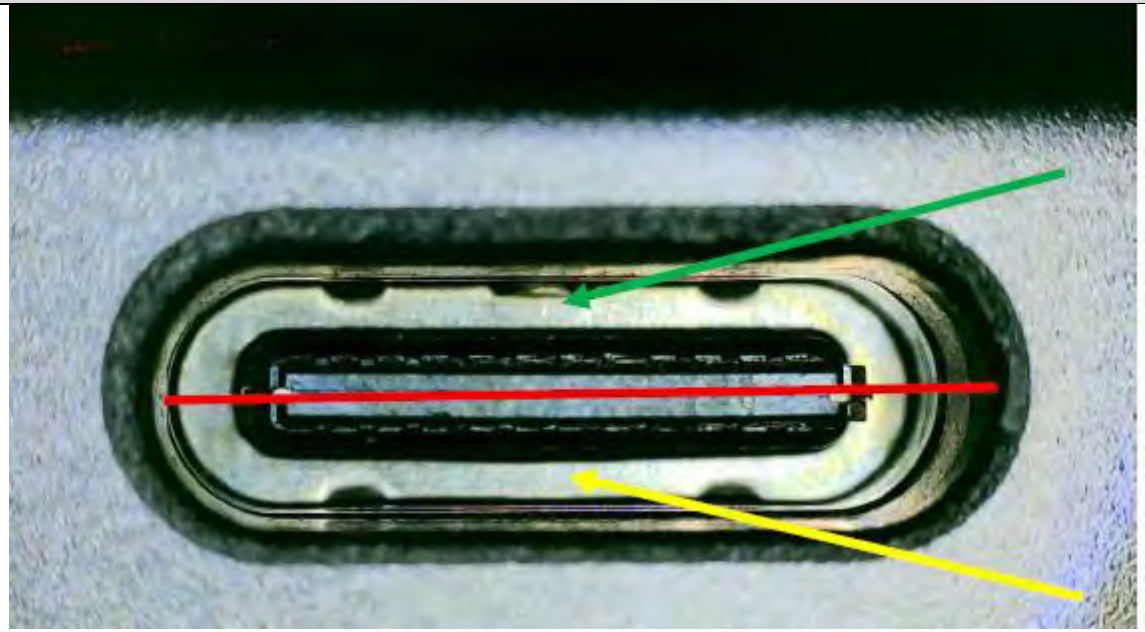
Claim 114 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

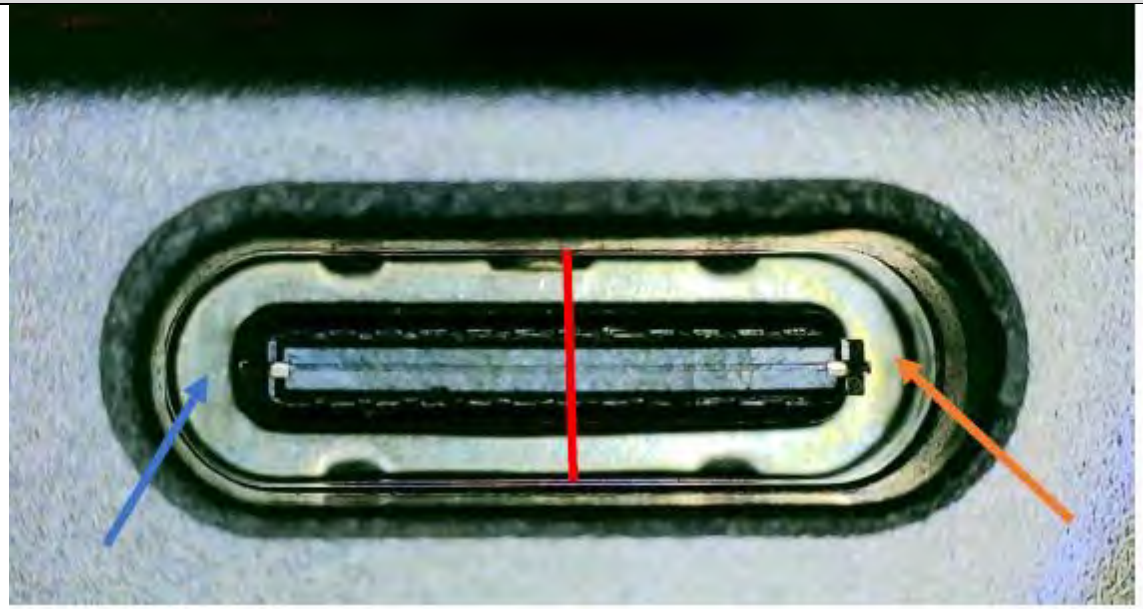
Claim 114 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**].
[**114M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically	The Samsung S24 FE is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
connected to the at least one row of first contacts, and the tongue is centrally located within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extending inward from the plug face marked with the red flag so as to electrically connection with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

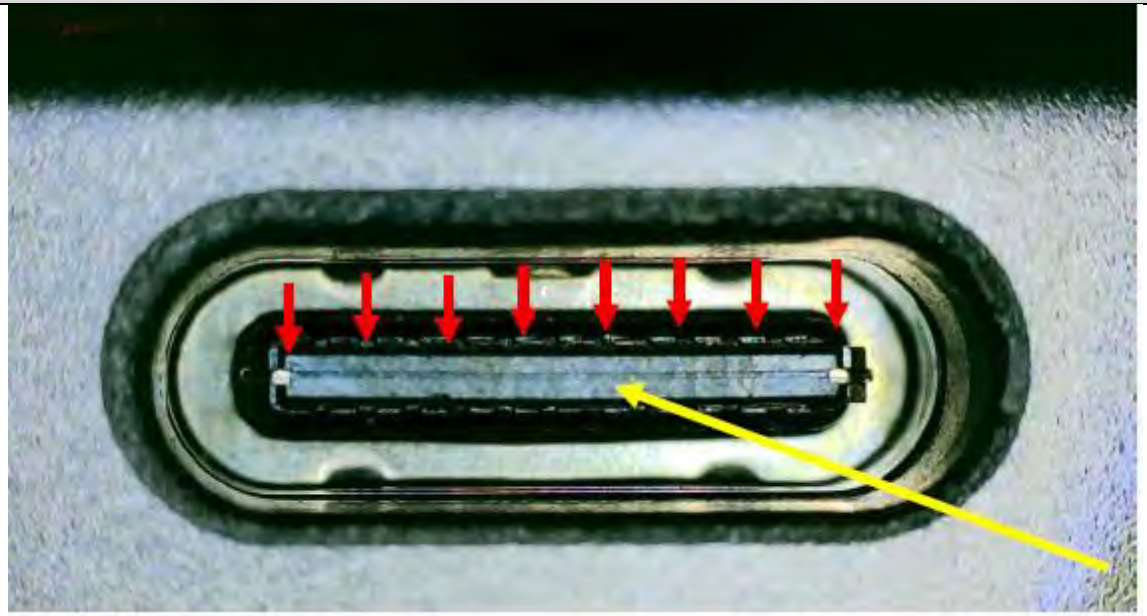
Claim 114 of the '307 Patent	Evidence of Infringement
	 The tongue is centrally located within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

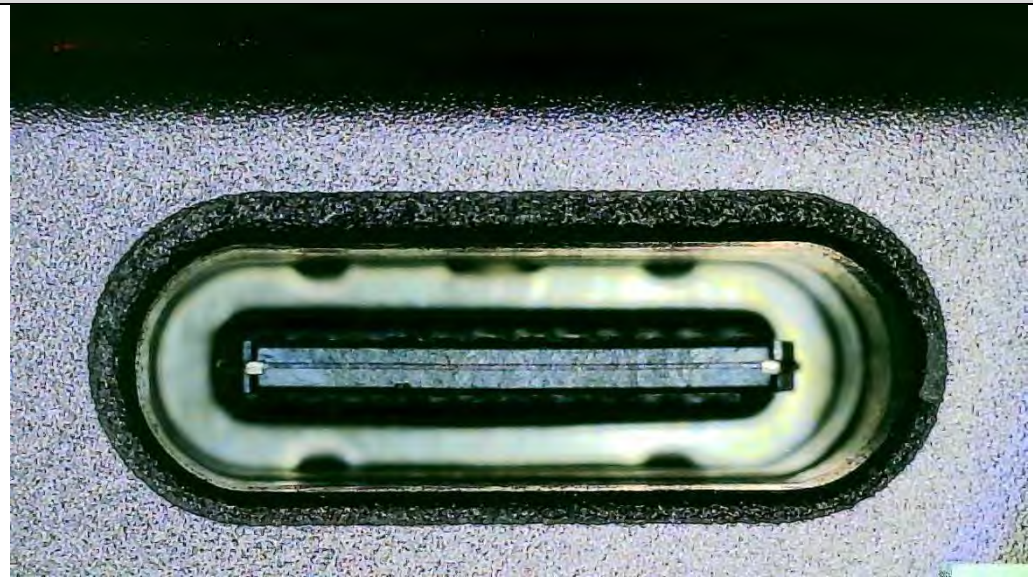
Claim 114 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].
[**114N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**114L**]. *See also* Element [**34N**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	**Evidence of Infringement**
[**116A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung S24 FE is a phone that includes a socket structure with duplex electrical connection. In particular, the Samsung S24 FE provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025). The socket on the Samsung S24 FE is a USB-C socket.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

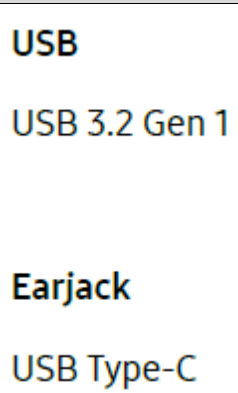
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung S24 FE is packaged with and capable of connecting to a USB-C cable.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

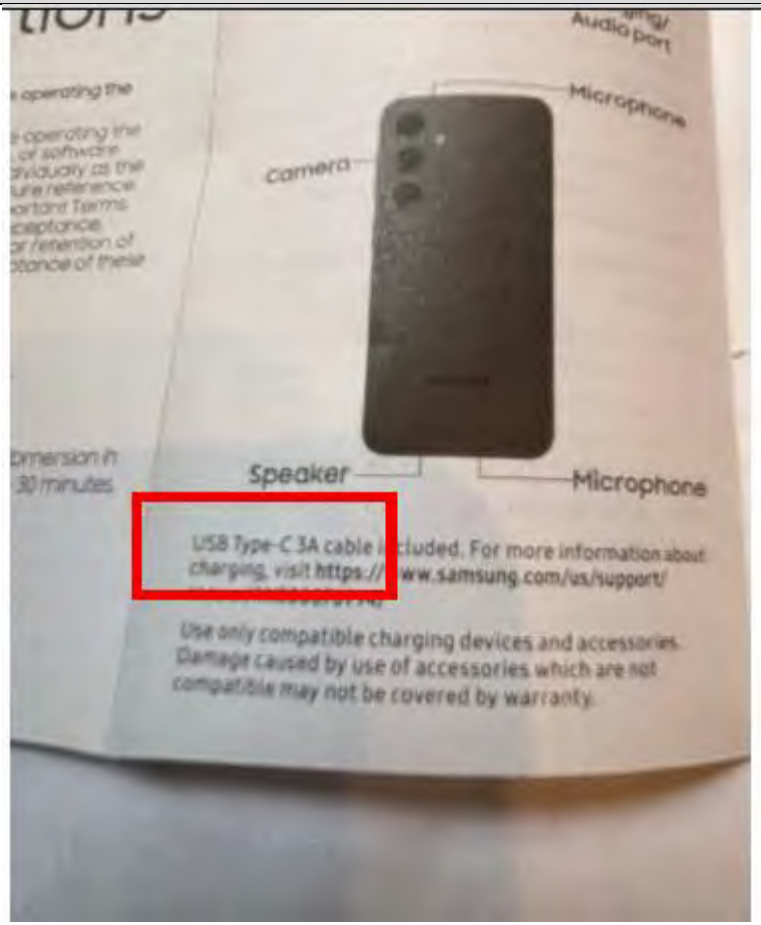
Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

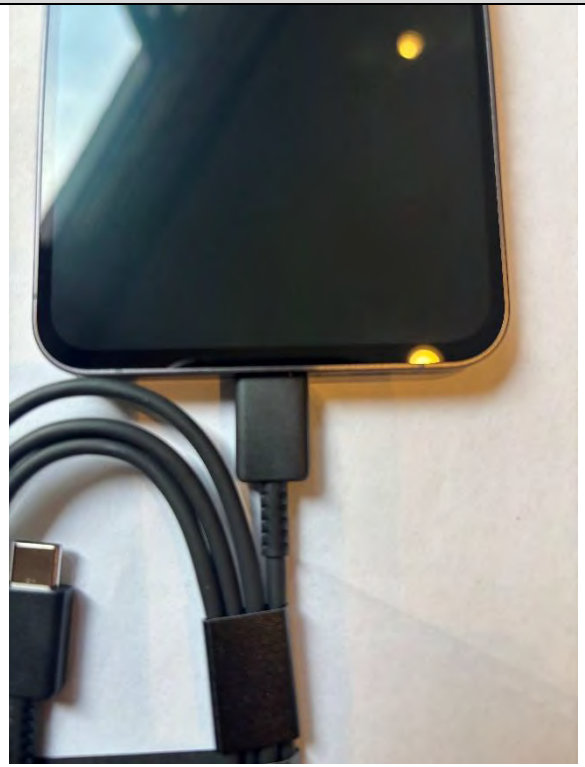
Claim 116 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**116B**] through [**116P**].
[**116B**] a plastic base;	The socket structure of the Samsung S24 FE includes a plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

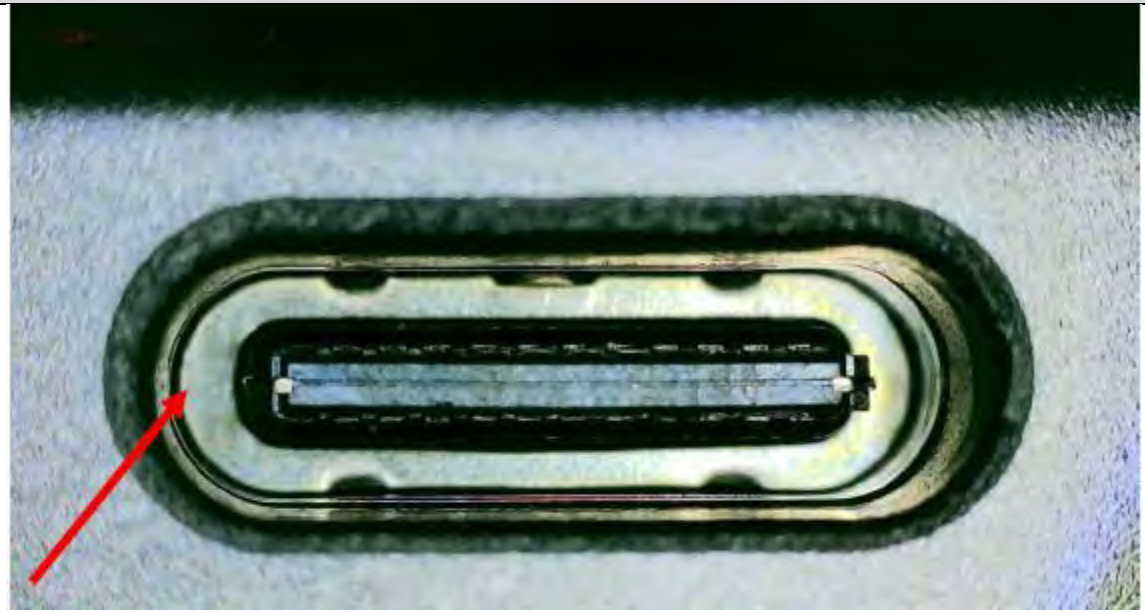
Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

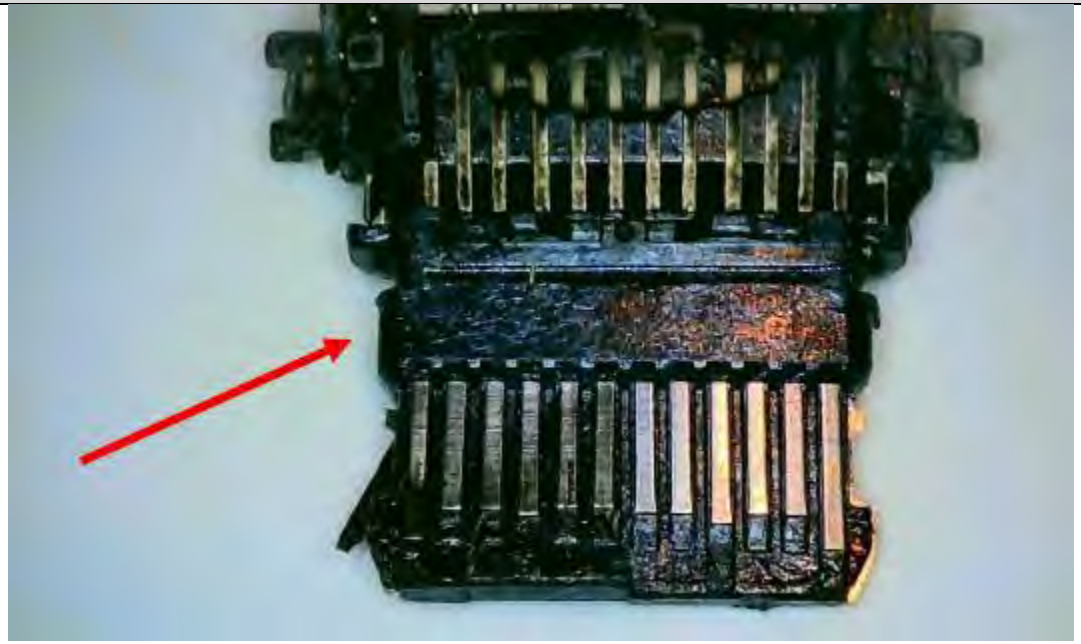
Claim 116 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34B**].
[**116C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung S24 FE includes a connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

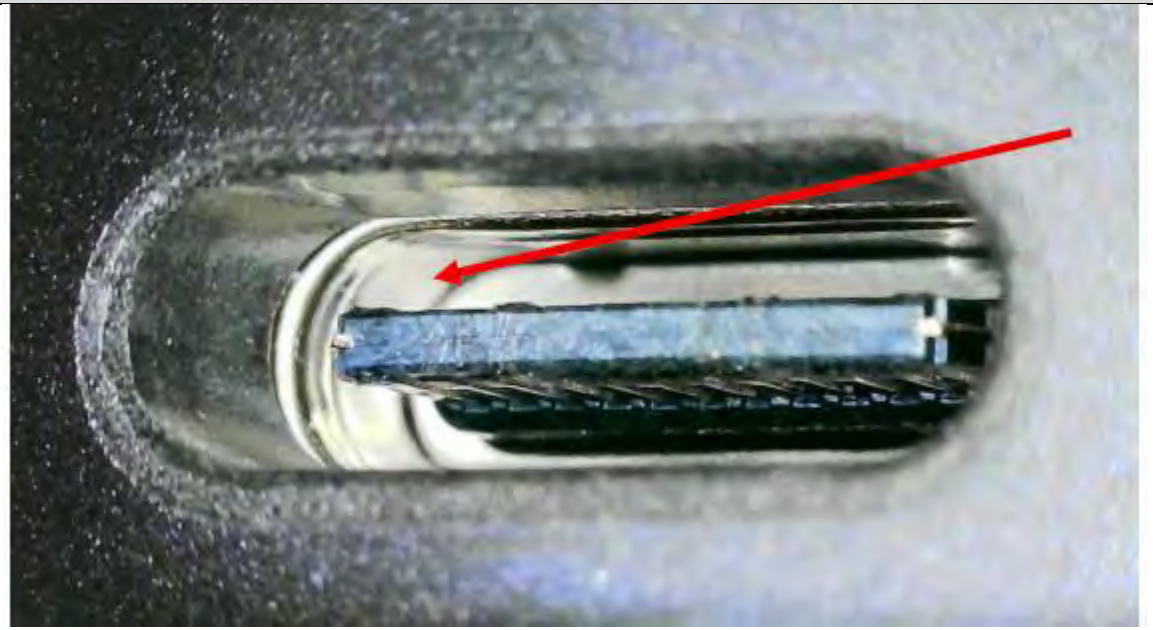
Claim 116 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

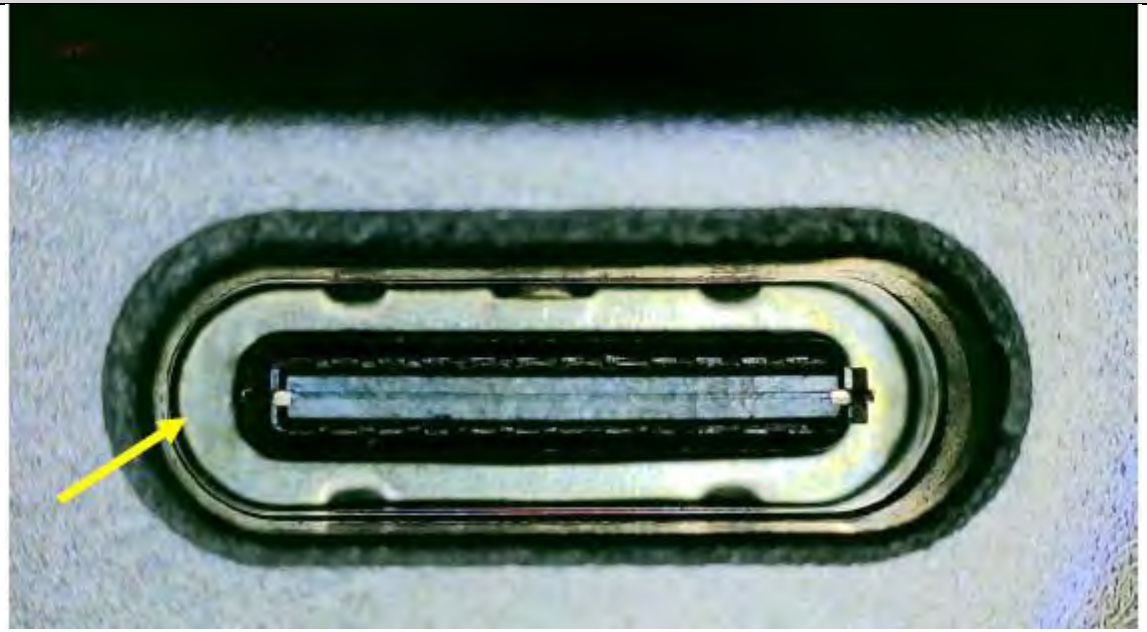
Claim 116 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung S24 FE, as described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

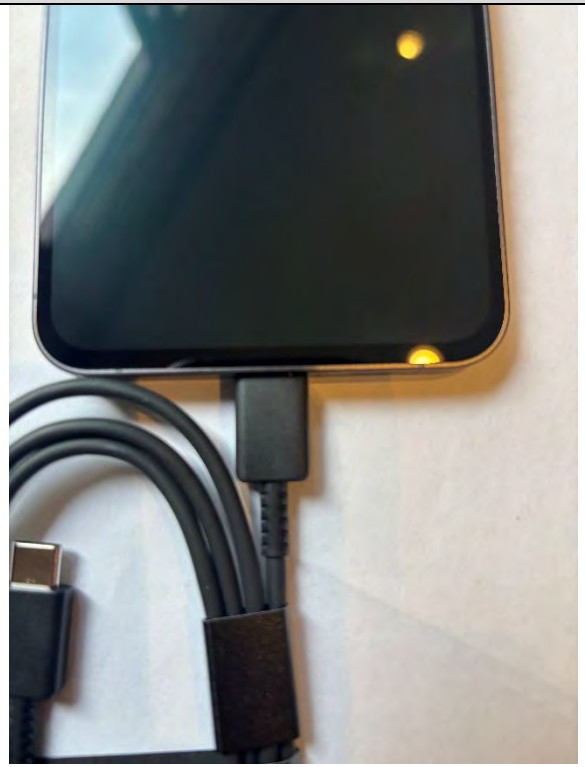
Claim 116 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

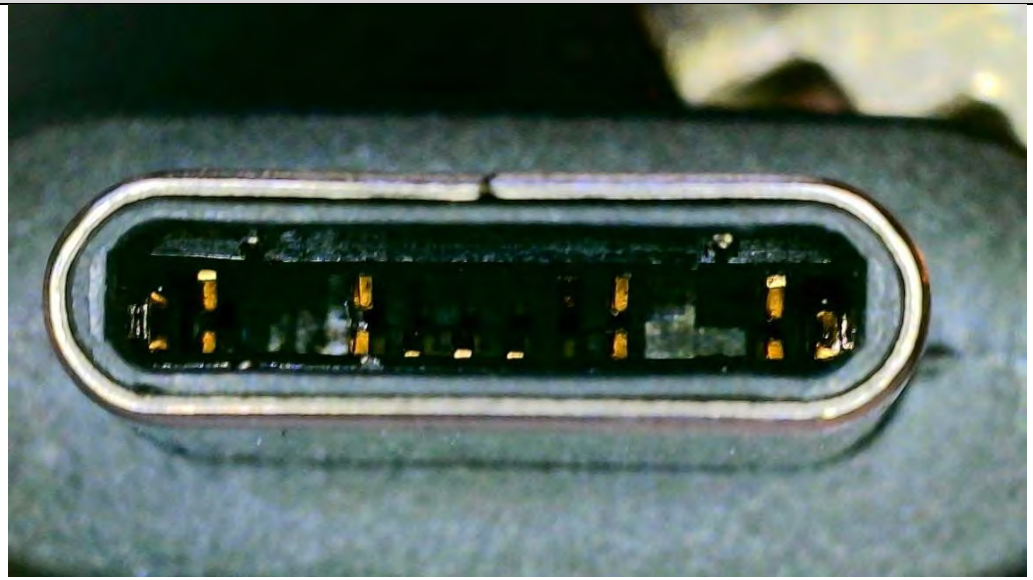
Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**116D**] a tongue, which has a first surface and a second surface disposed opposite the first surface and	The socket structure of the Samsung S24 FE includes a tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

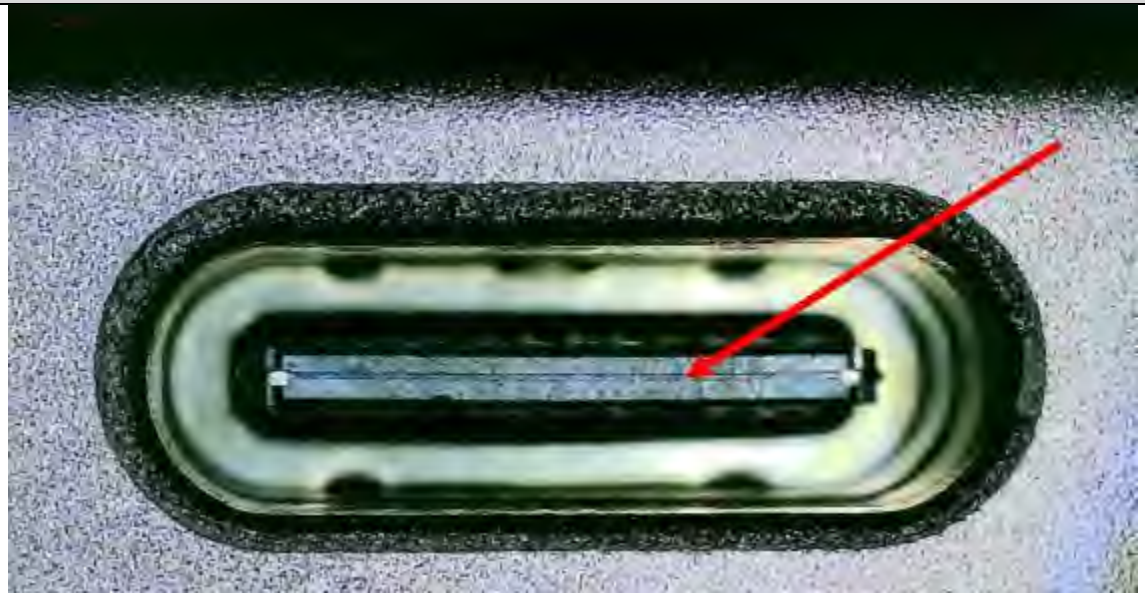
Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

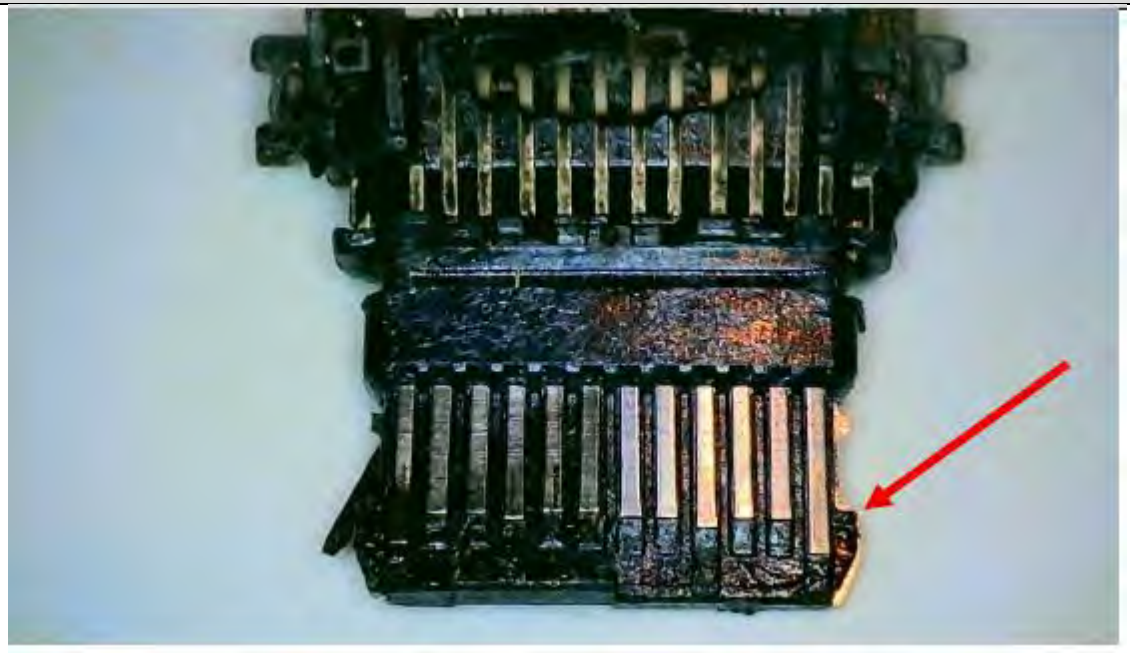
Claim 116 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

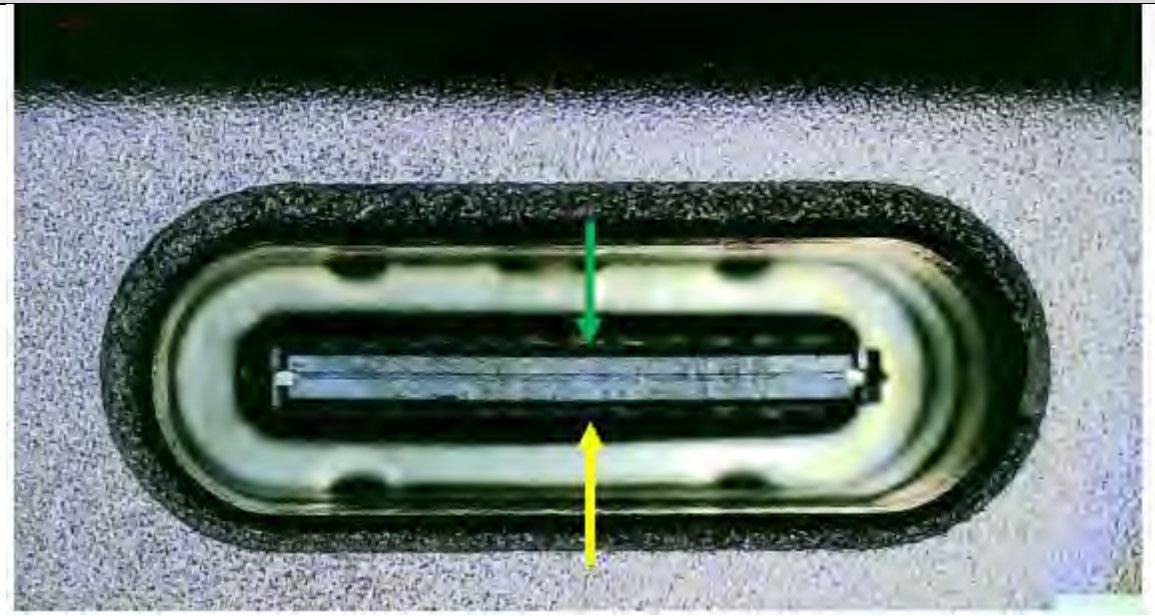
Claim 116 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

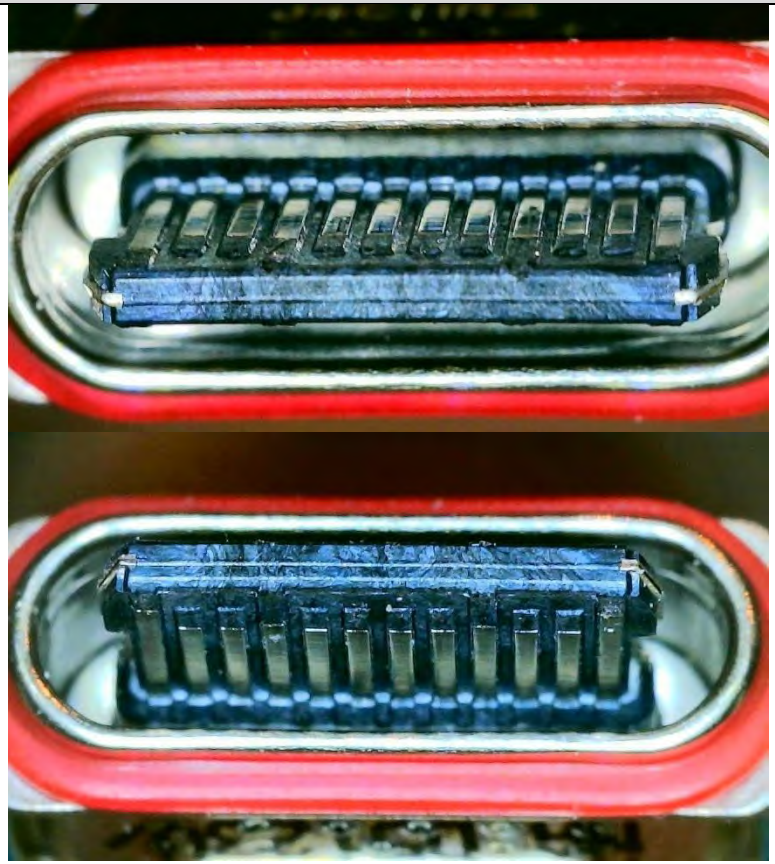
Claim 116 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34D**].
[**116E**] is disposed on one end of the plastic base and within the connection slot, such	The tongue of the Samsung S24 FE (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

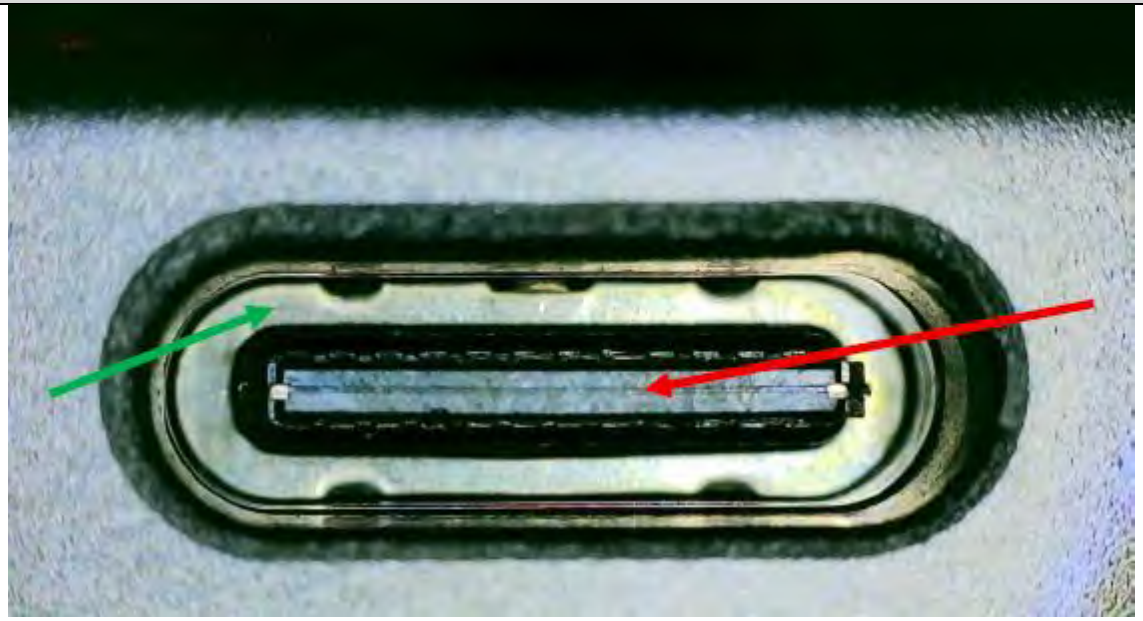
Claim 116 of the '307 Patent	Evidence of Infringement
that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot based on an operational state when the socket structure is connected to the plug;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by a blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

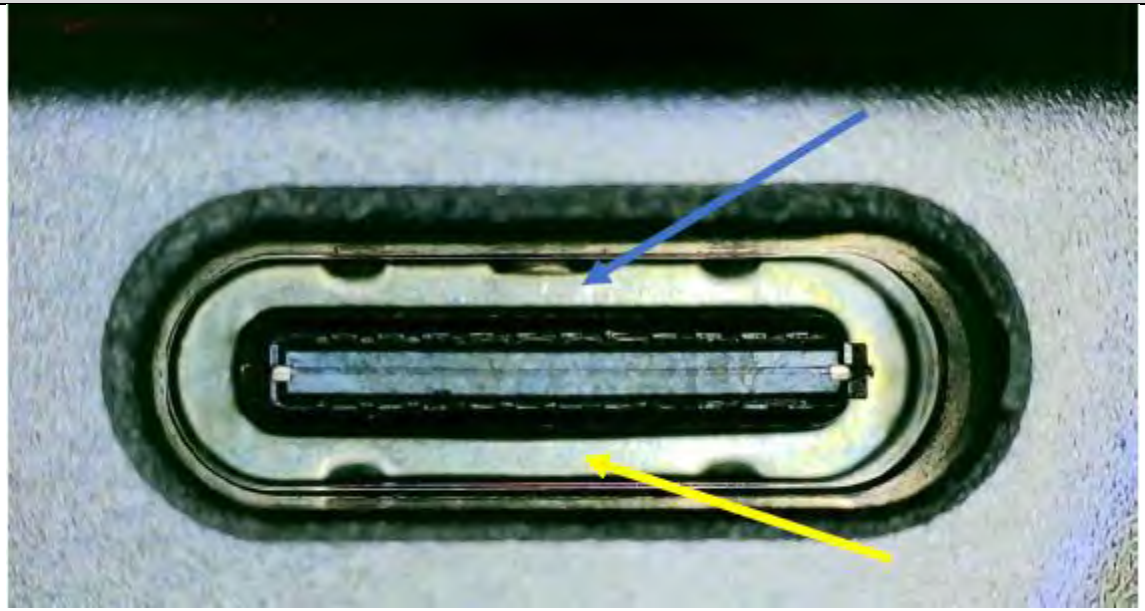
Claim 116 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

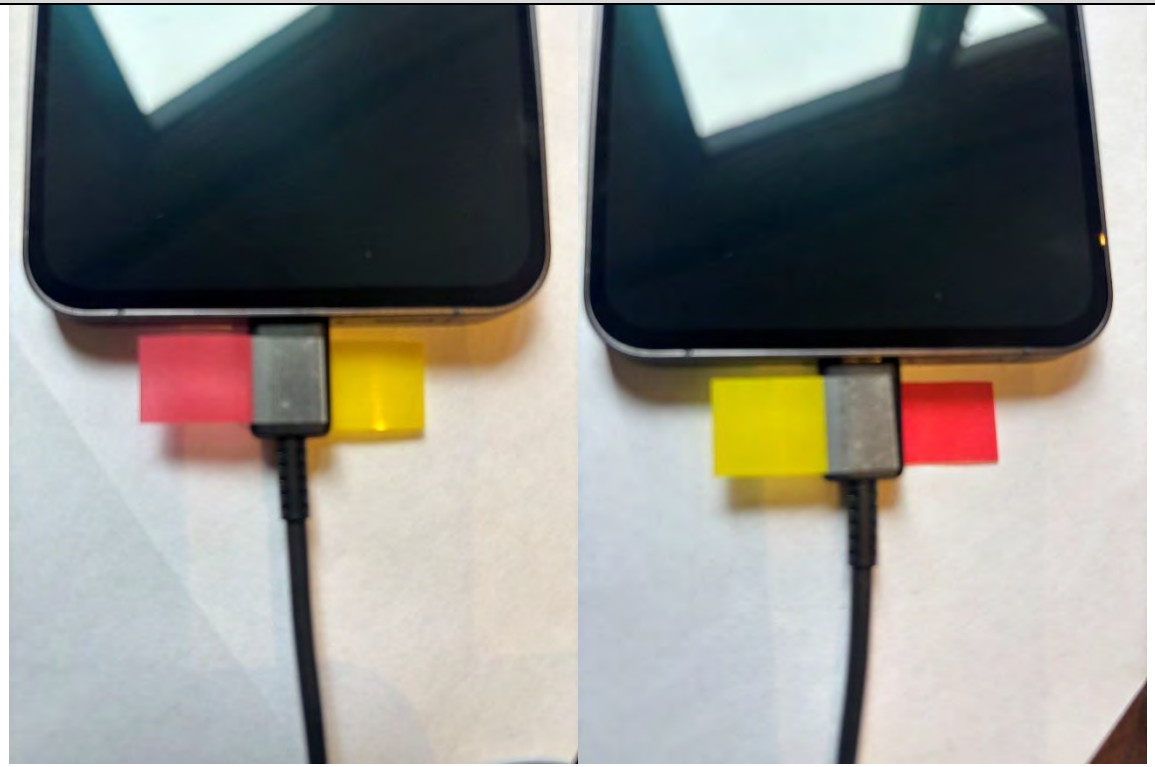
Claim 116 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the second structure of the Samsung S24 FE when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on bottom (second image). *See also* Element [**34E**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

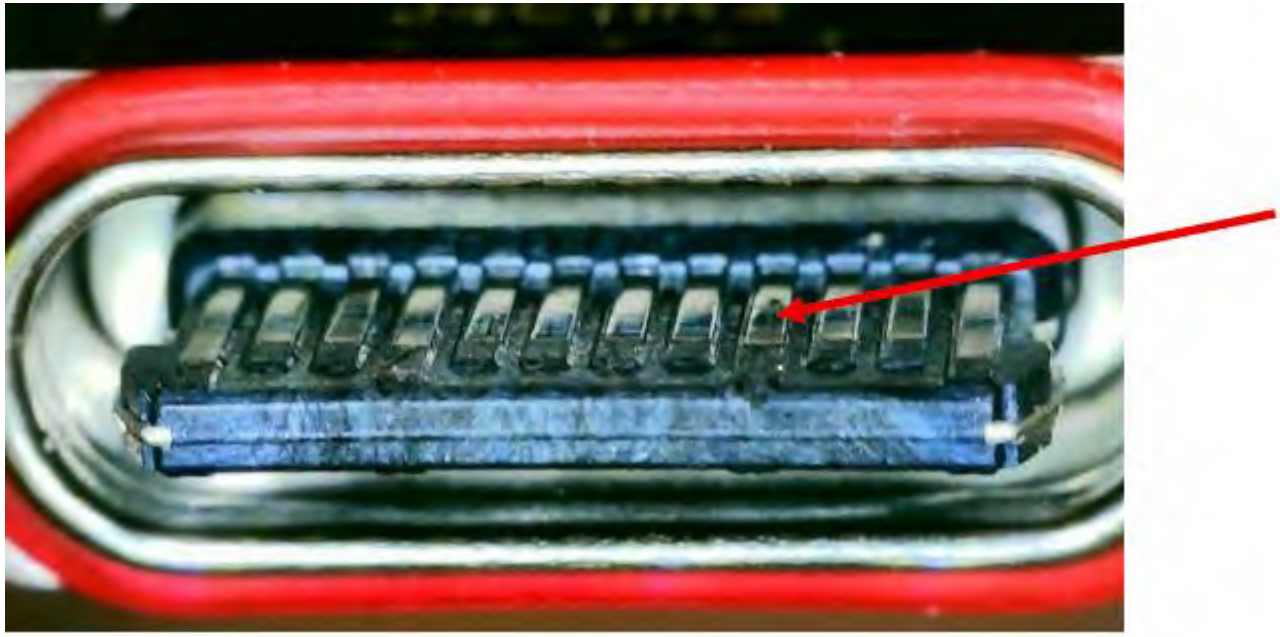
Claim 116 of the '307 Patent	**Evidence of Infringement**
[**116F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base,	The socket structure of the Samsung S24 FE includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

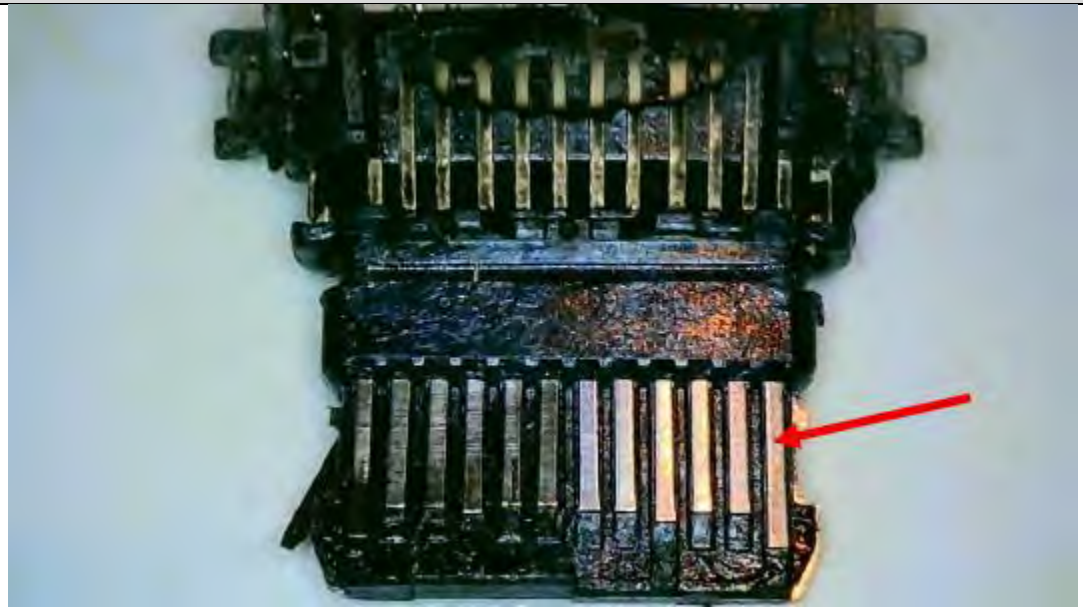
Claim 116 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung S24 FE includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung S24 FE includes two rows of twelve pins extending out of the base. On information and belief, the bottom row of pins corresponds to the first contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image showing underside of socket structure where it connects to PCB.) This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung S24 FE is a USB-C socket and/or compatible with the USB-C cables).

Furthermore, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

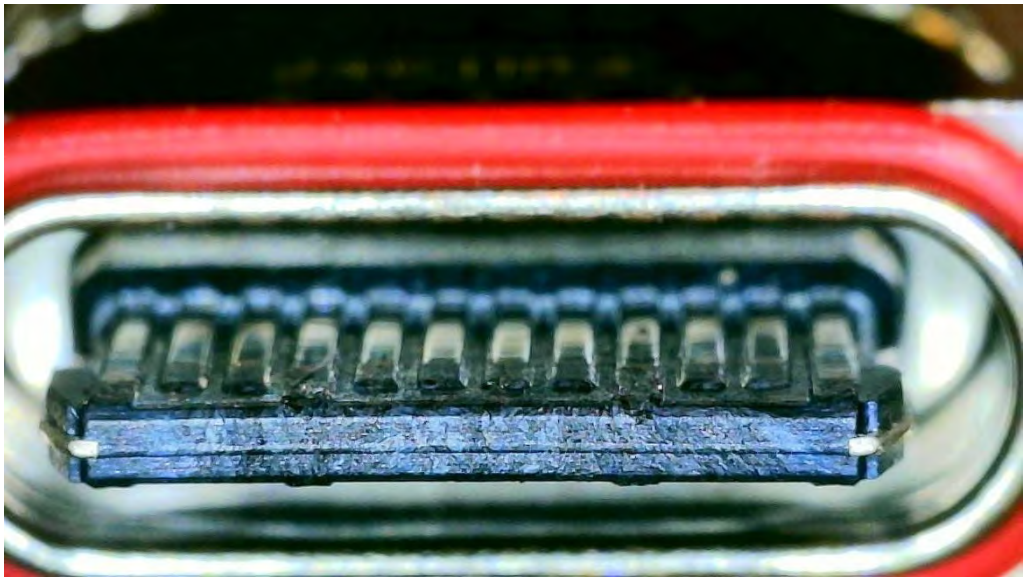
Claim 116 of the '307 Patent	**Evidence of Infringement**
	See also Element [**34F**]
[**116G**] wherein a first portion of each of the first contacts is proud of a top-most surface of the tongue; and	A portion of each of the first contacts of the Samsung S24 FE is proud of a top-most surface of the tongue.  In addition, the Samsung S24 FE includes a USB-C port and is compatible with the included USB-C cable, as further described above in connection with element [**34A**]. The USB-C standard indicates that the contacts should be proud of plastic.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

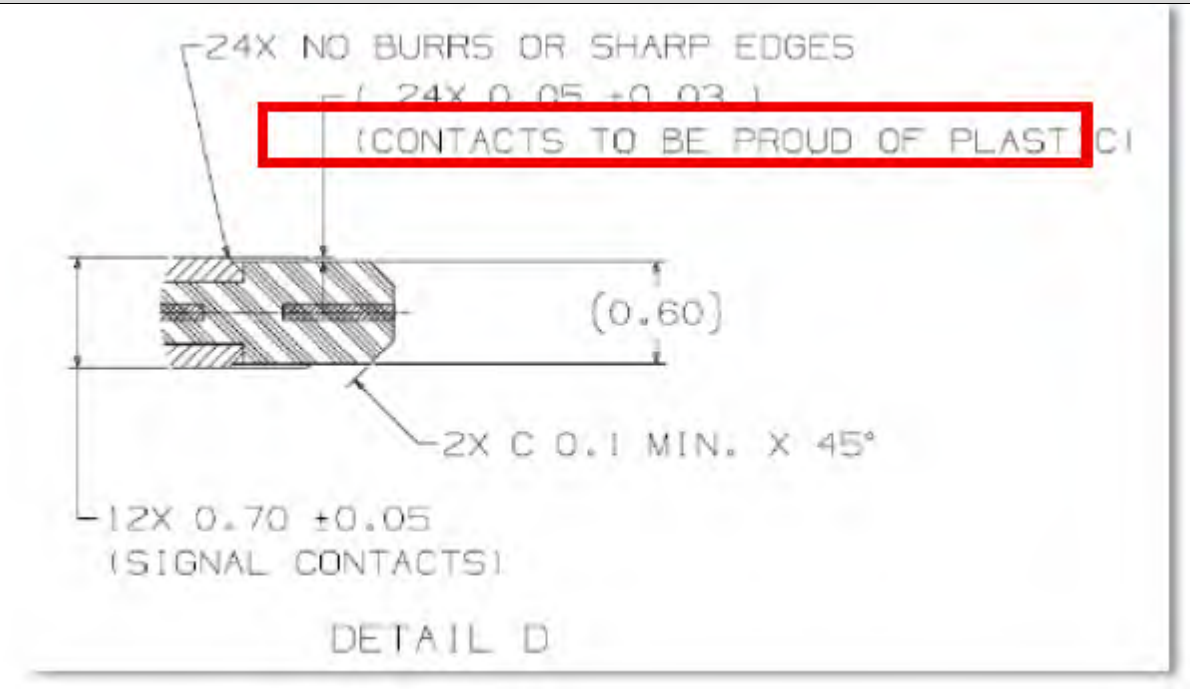
Claim 116 of the '307 Patent	Evidence of Infringement
	 Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1. *See also* element [**52B**].
[**116H**] at least one row of second contacts separately arranged on the second surface of the tongue,	The socket structure of the Samsung S24 FE includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

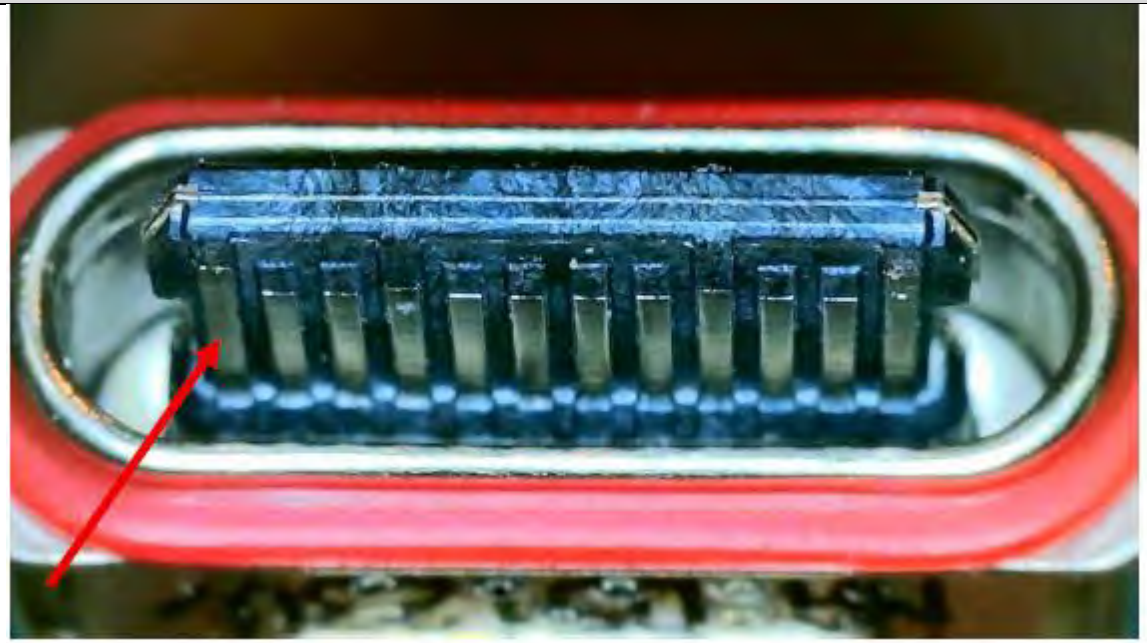
Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

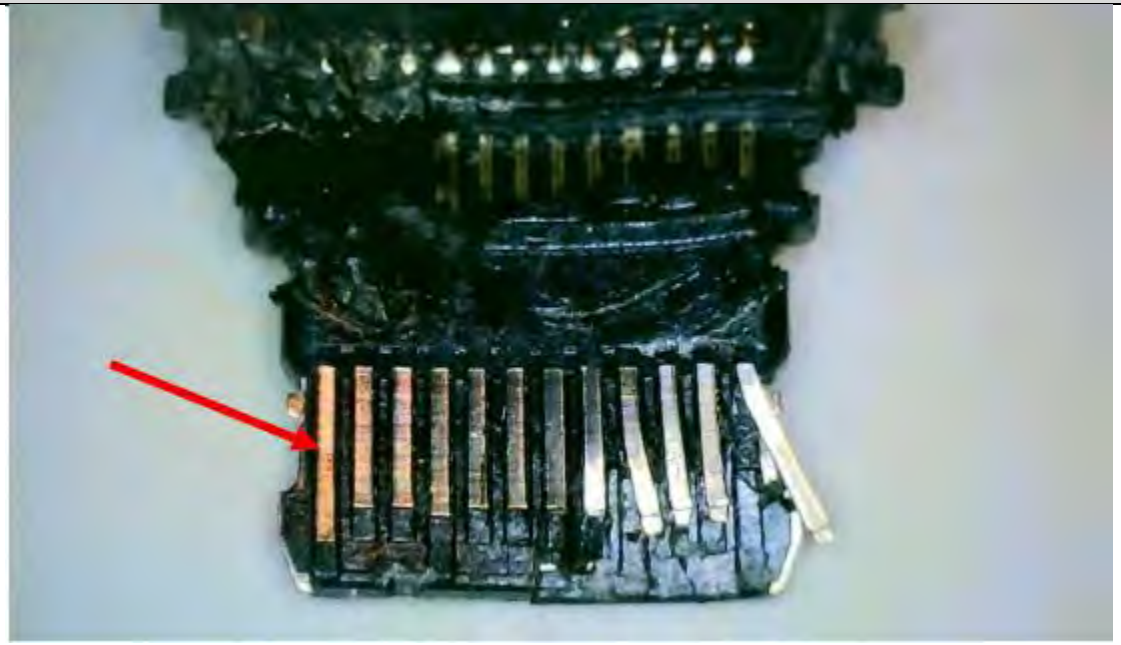
Claim 116 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34G**].
[**116I**] wherein a second portion of each of the second contacts is proud of a bottom-most surface of the tongue, and	A portion of each of the second contacts is proud of a bottom-most surface of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

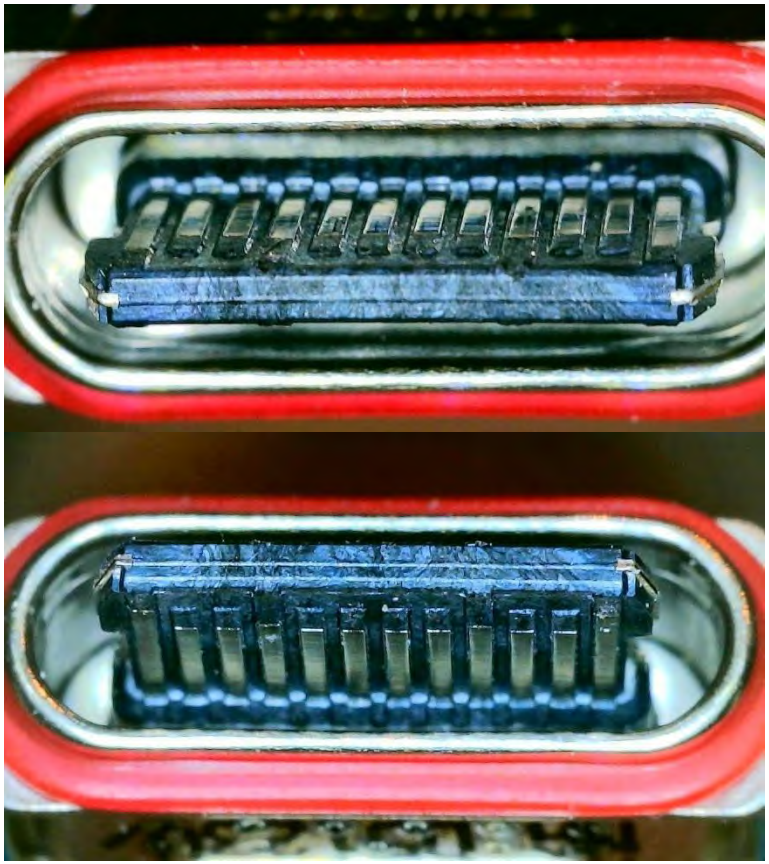
Claim 116 of the '307 Patent	**Evidence of Infringement**
[**116J**] the socket structure is operative to simultaneously electrically connect on both sides of the tongue via the first and second contacts, wherein:	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect on both sides of the tongue via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.  The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

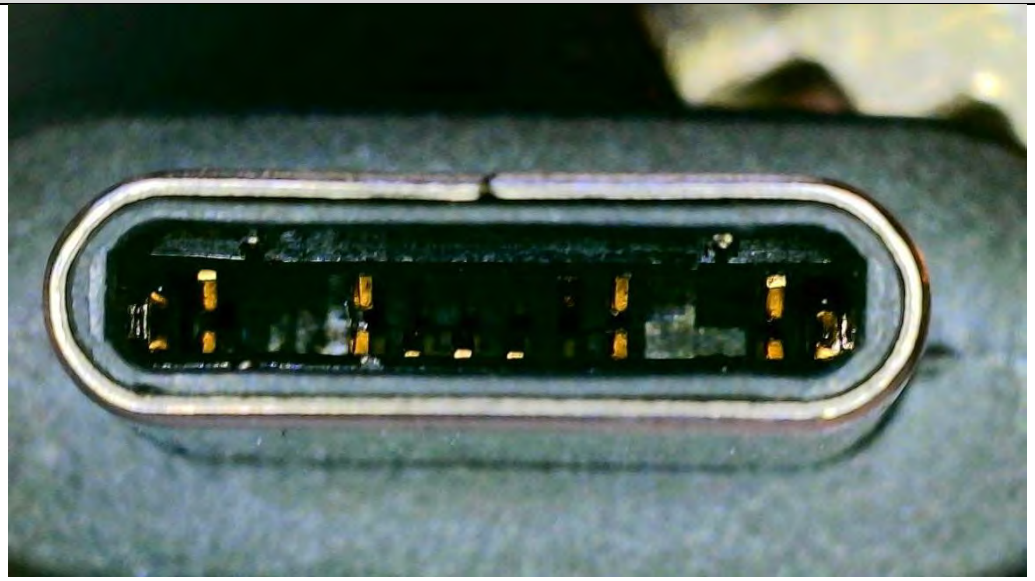
Claim 116 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**116K**] each of the second contacts is	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. On information and belief, the top row of pins in the image below corresponds to the second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	**Evidence of Infringement**
electrically connected to a respective second pin extending out of the plastic base; and	 (Image showing socket structure where it connects to PCB.) In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**116L**] the socket structure is thereby configured for two separate operational states:	The first row of contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

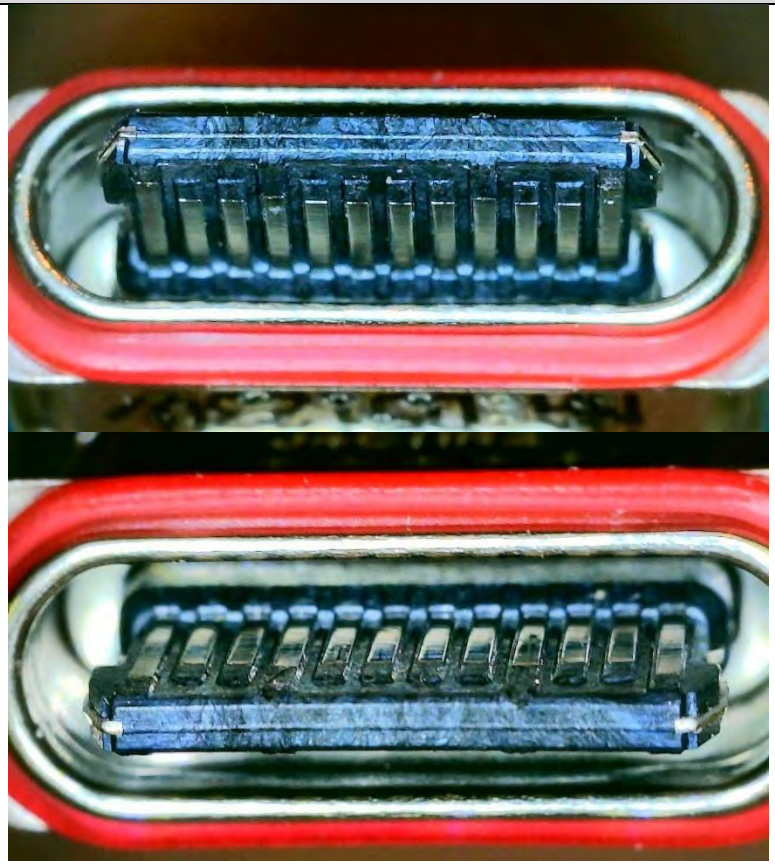
Claim 116 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**116M**] through [**116P**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

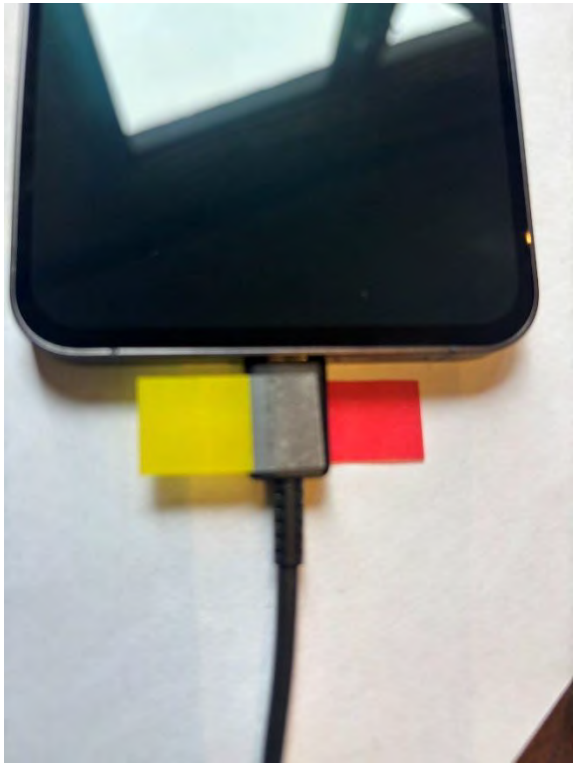
Claim 116 of the '307 Patent	**Evidence of Infringement**
[**116M**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed at a middle within the connection slot,	The Samsung S24 FE is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug faces the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extending inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

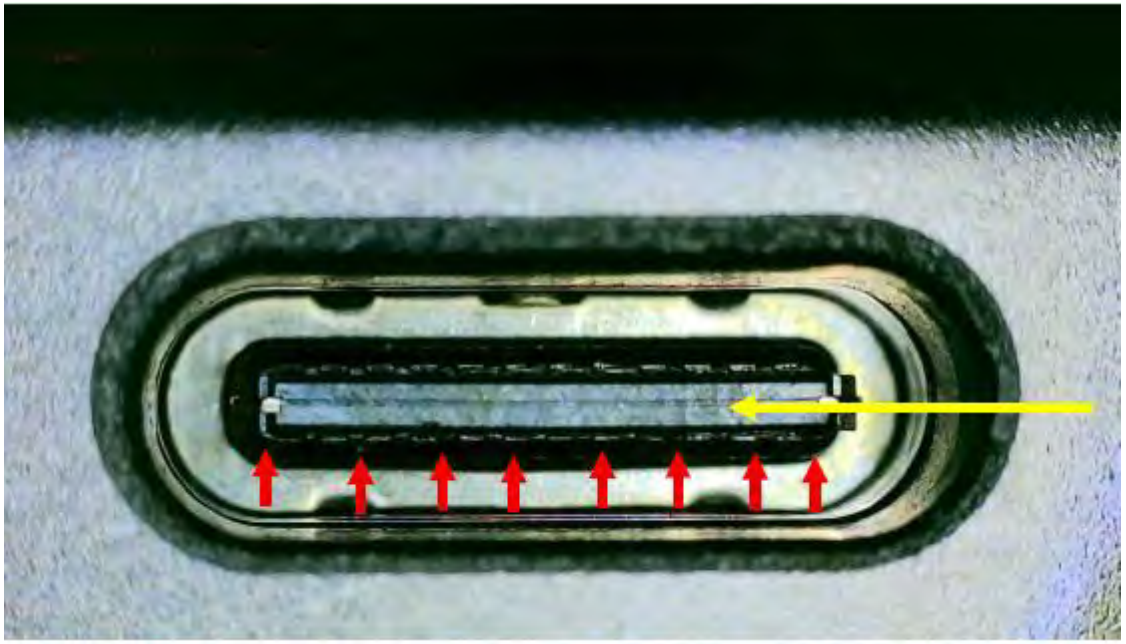
Claim 116 of the '307 Patent	Evidence of Infringement
	bottom surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

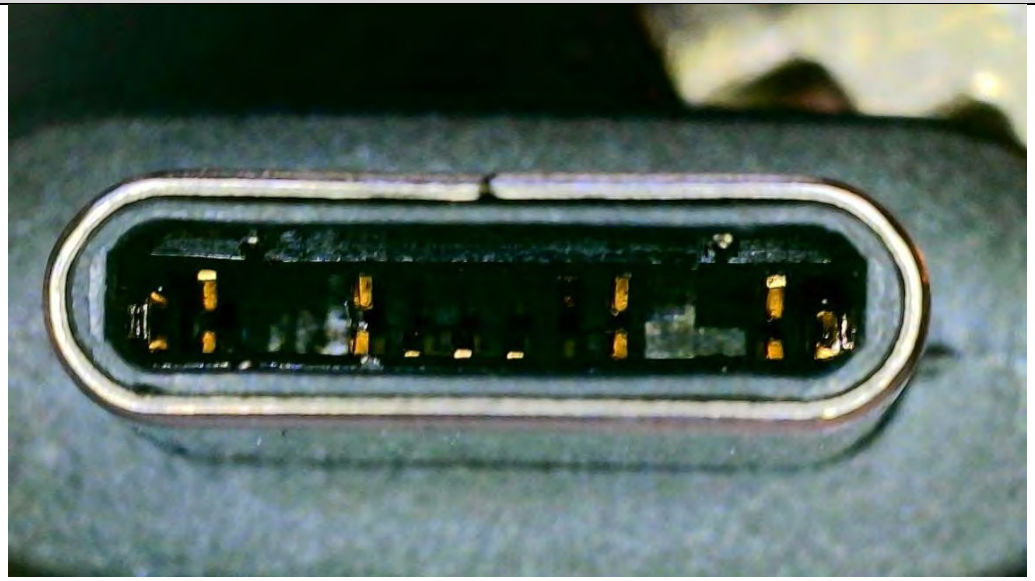
Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) The tongue is disposed at a middle within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

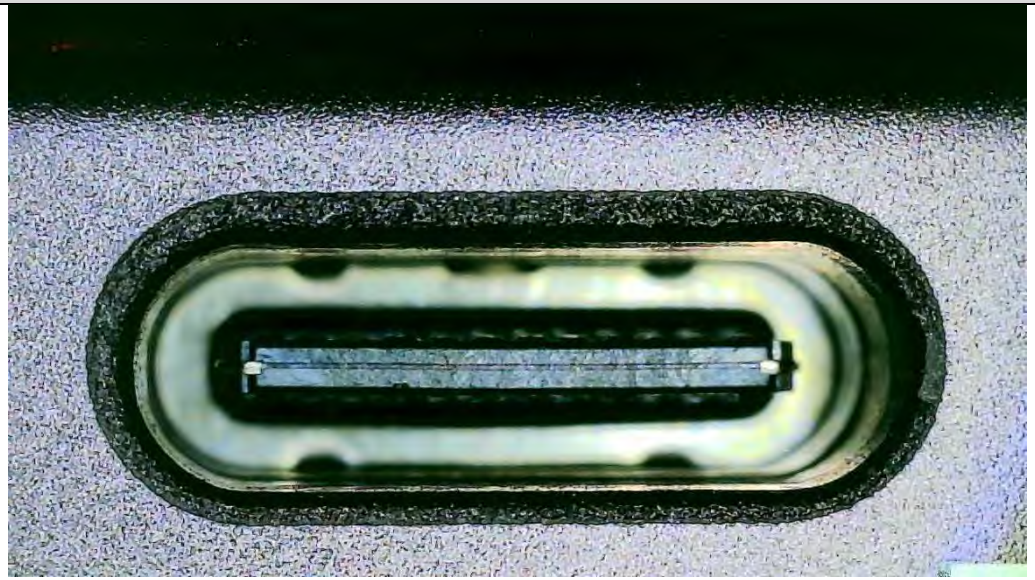
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**].
[**116N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung S24 FE is configured for a first operational state as described above in connection with element [**116M**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

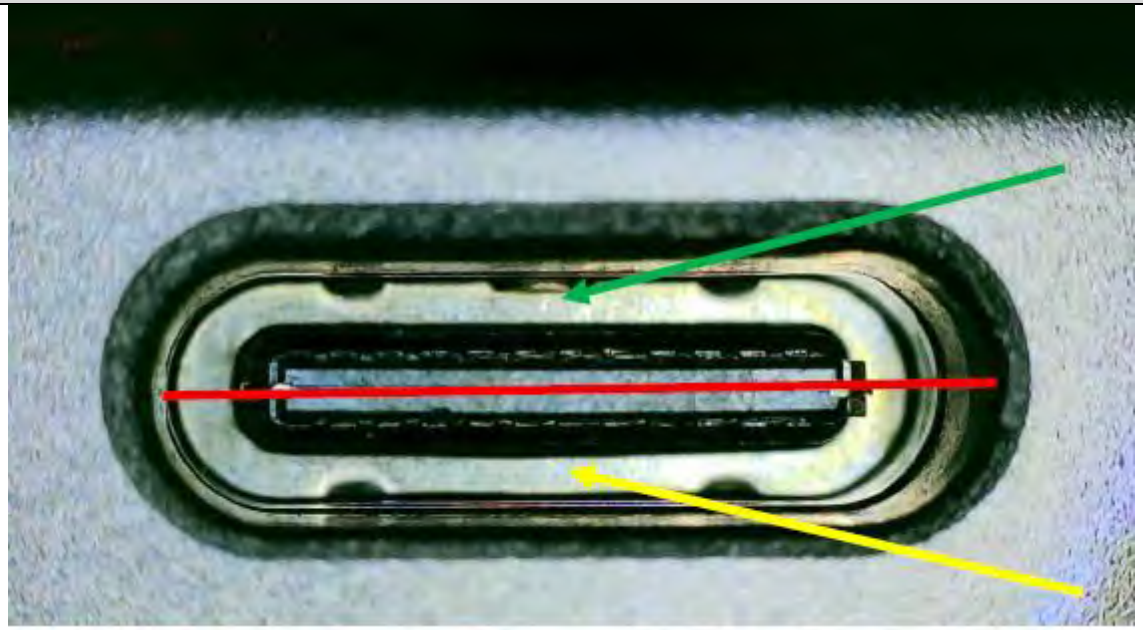
Claim 116 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

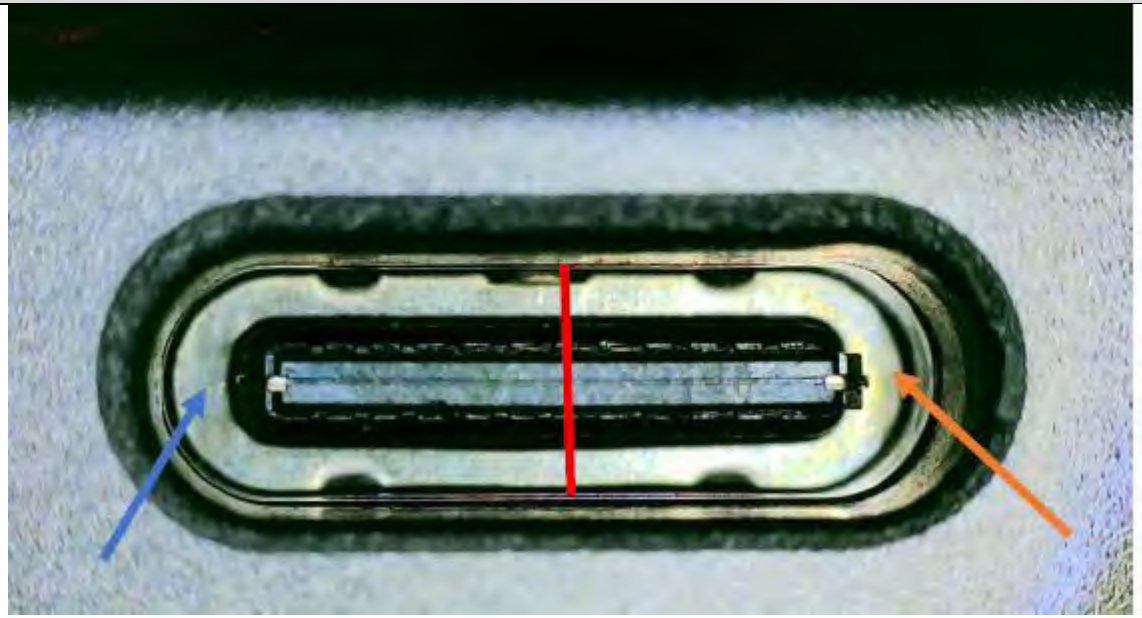
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**].
[**116O**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of	The Samsung S24 FE is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed at within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extending inward from the plug face marked with the red flag so as to electrically connection with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

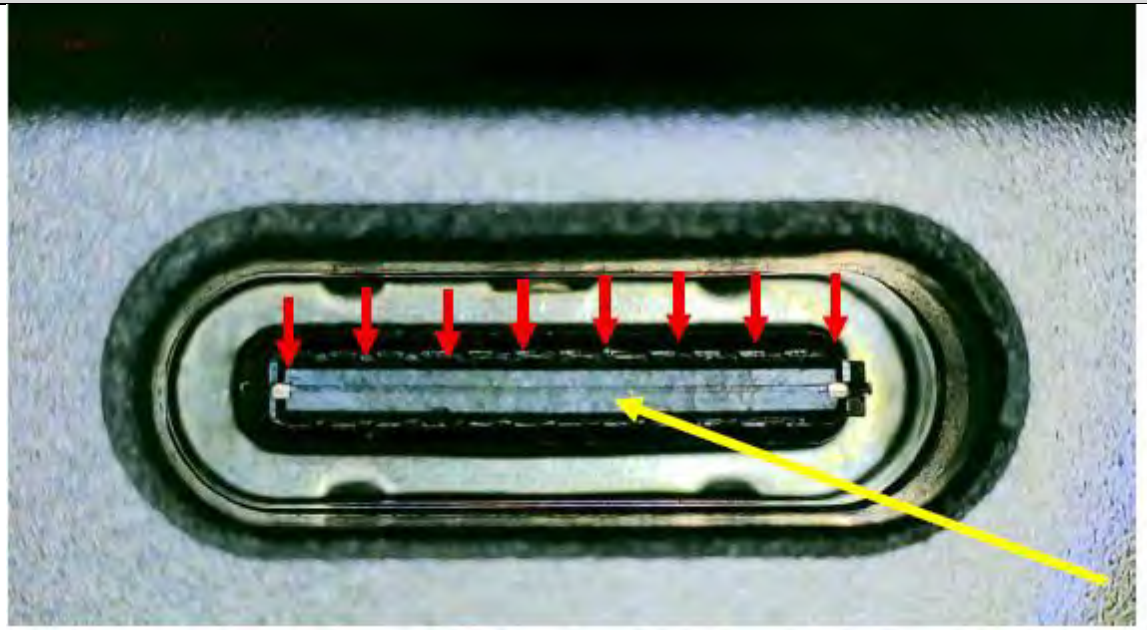
Claim 116 of the '307 Patent	Evidence of Infringement
	 The tongue is disposed within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

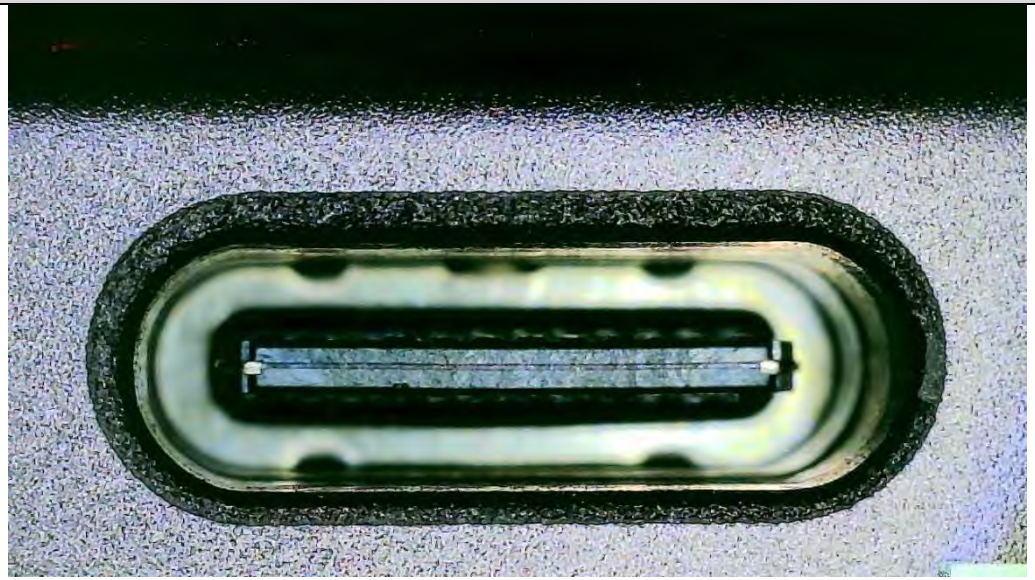
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].
[**116P**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**116N**]. *See also* Element [**34N**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	**Evidence of Infringement**
[**130A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung S24 FE is a phone that includes a socket structure with duplex electrical connection. In particular, the Samsung S24 FE provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025). The socket on the Samsung S24 FE is a USB-C socket.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	USB USB 3.2 Gen 1 **Earjack** USB Type-C *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5[illegible] 21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S2[illegible], S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung S24 FE is packaged with and capable of connecting to a USB-C cable.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

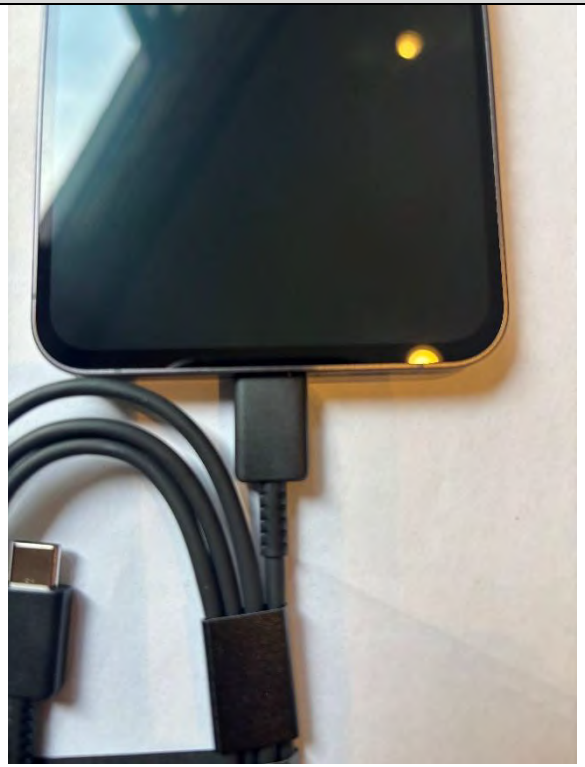
Claim 130 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**130B**] through [**130N**].
[**130B**] a plastic base;	The socket structure of the Samsung S24 FE includes a plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

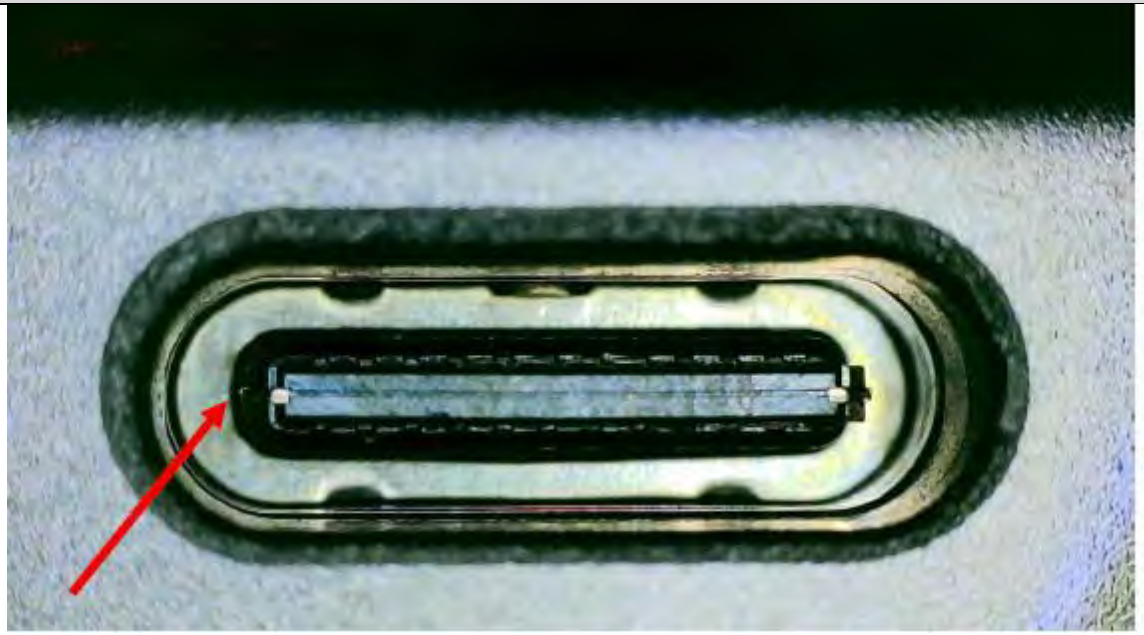
Claim 130 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

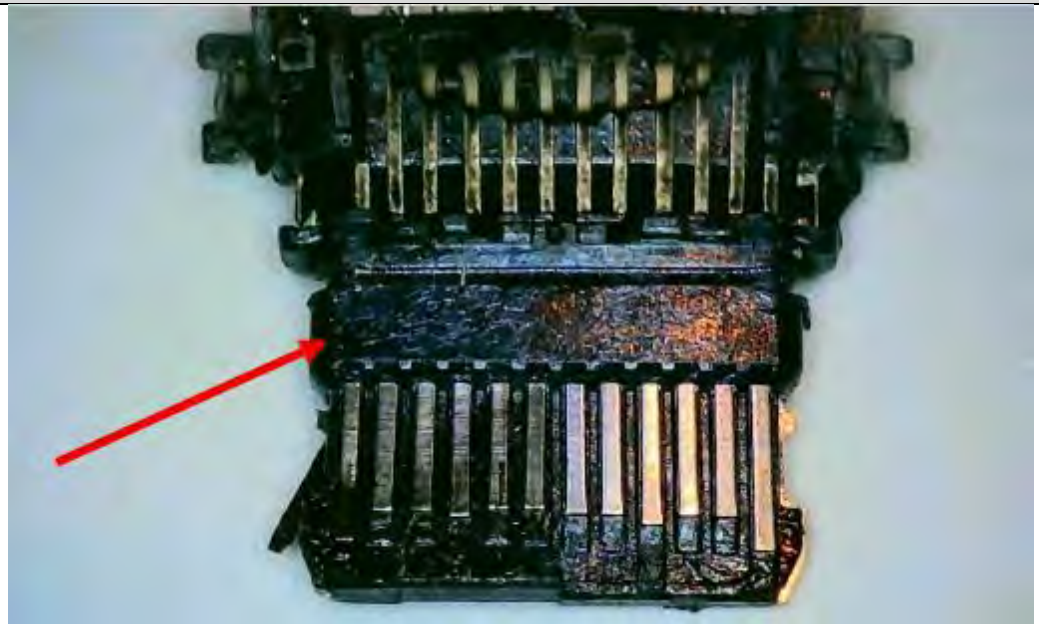
Claim 130 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34B**].
[**130C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung S24 FE includes a connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

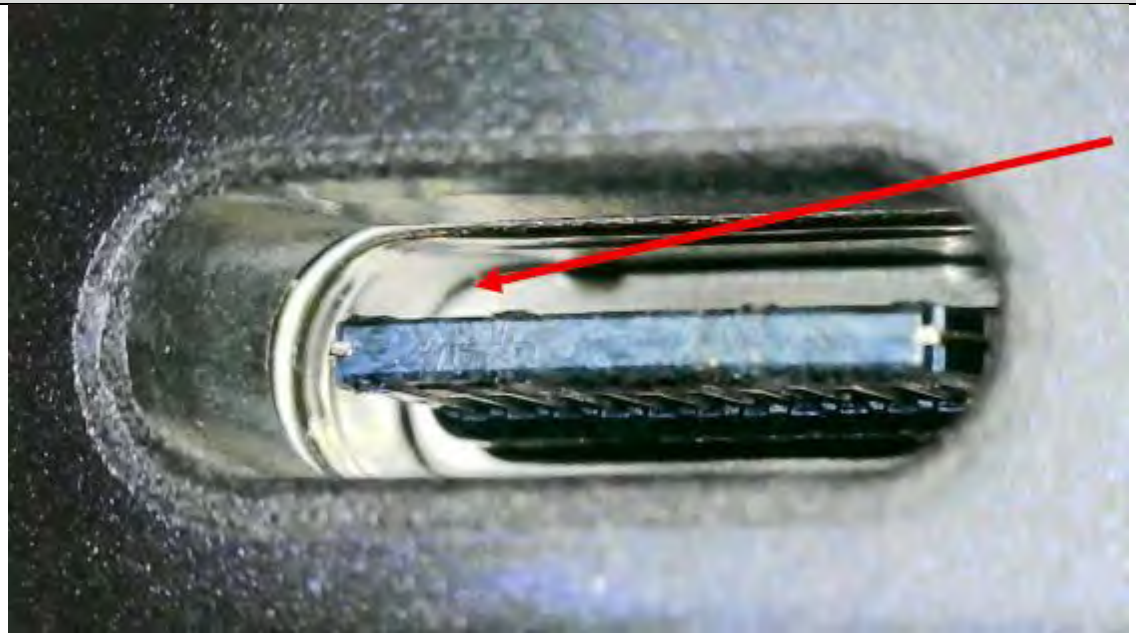
Claim 130 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

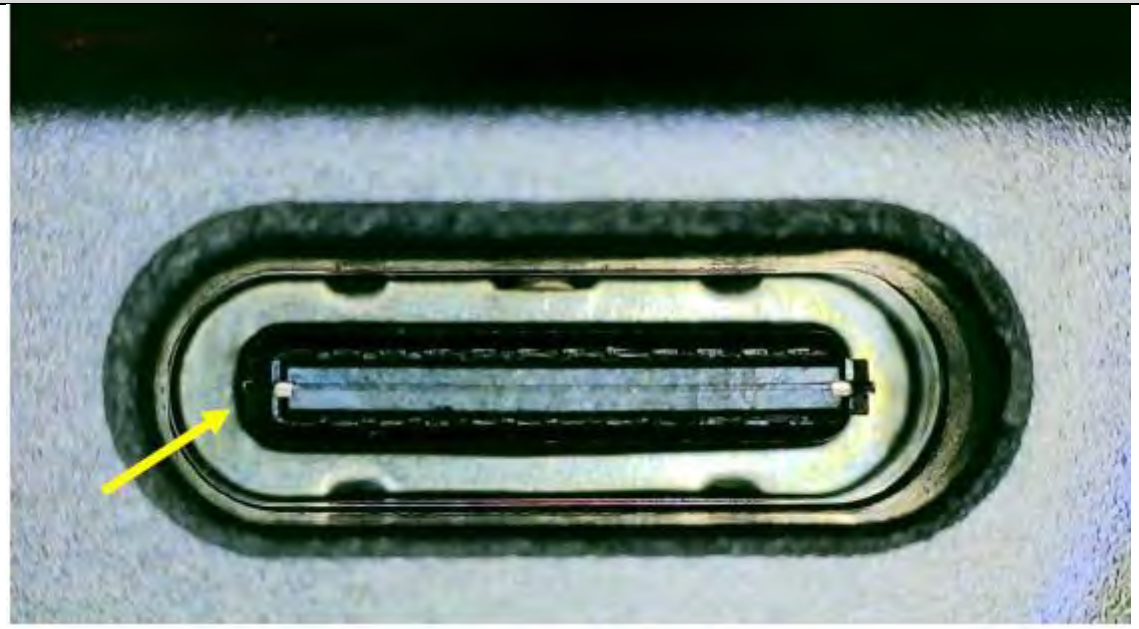
Claim 130 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung S24 FE, as described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

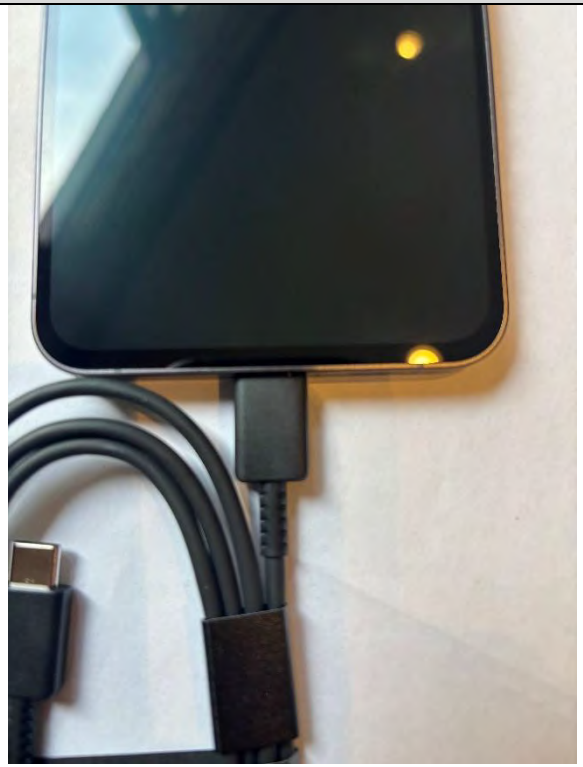
Claim 130 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

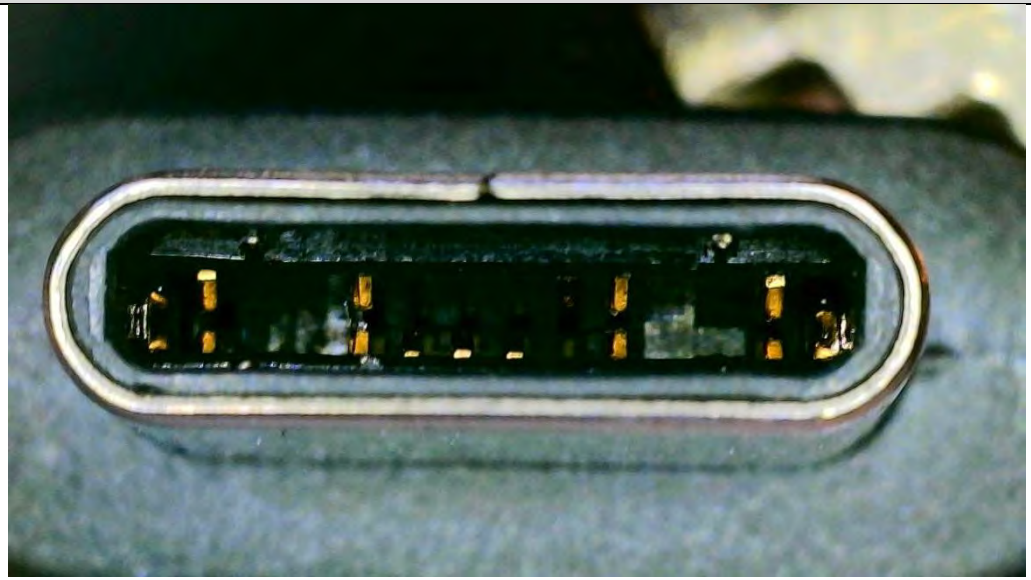
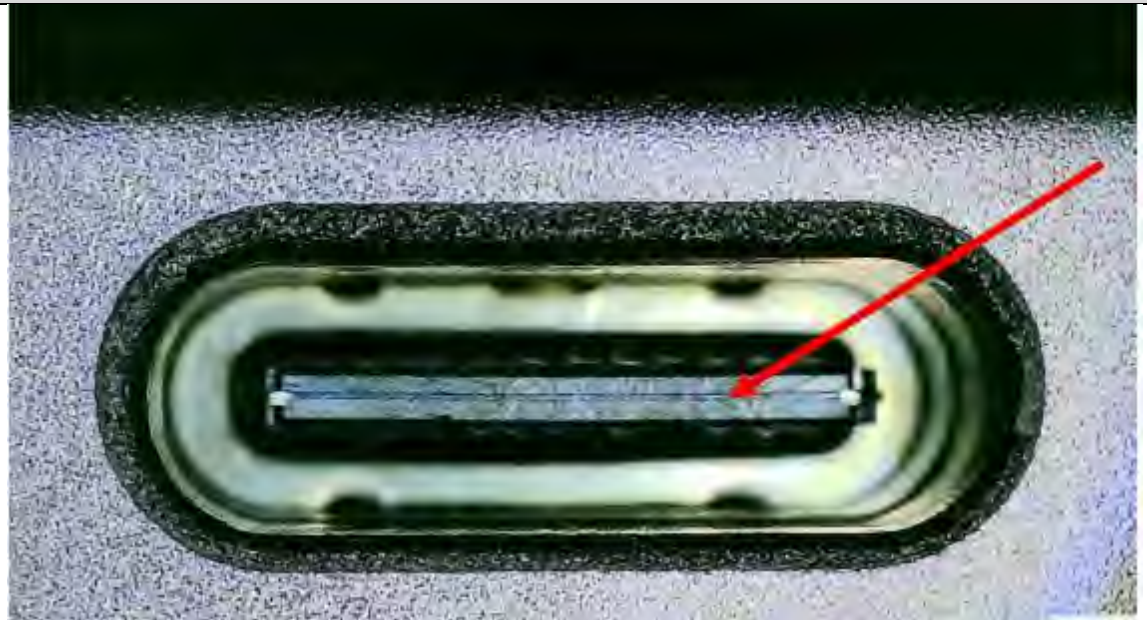
Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**130D**] a tongue, which has a first surface with recesses, and a second surface with recesses, the second surface disposed opposite the first surface,	The socket structure of the Samsung S24 FE includes a tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

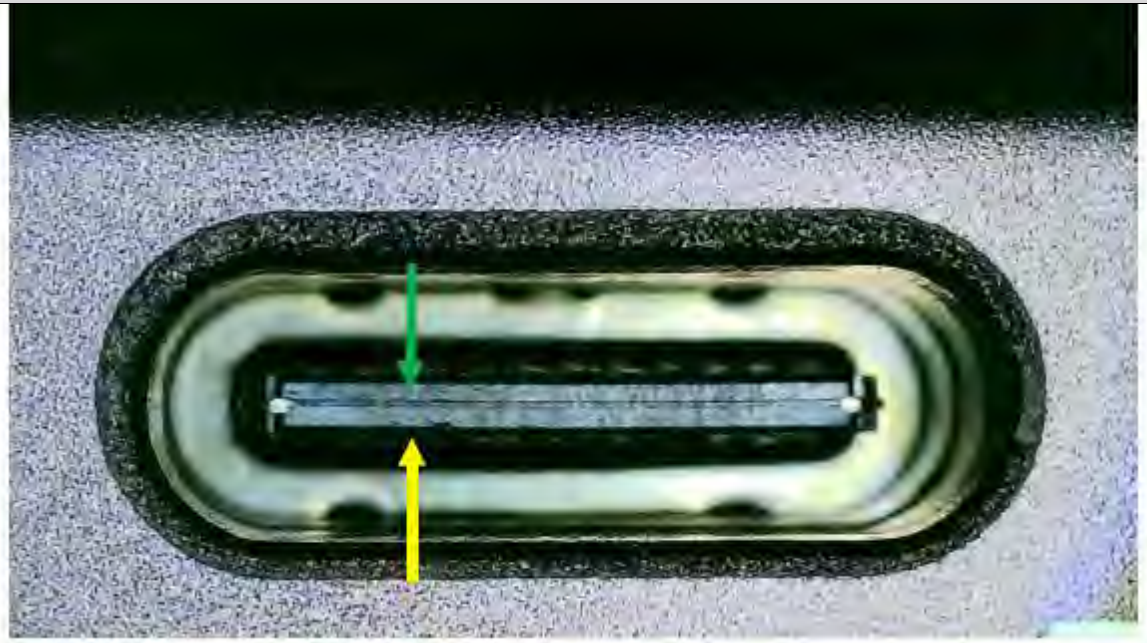
Claim 130 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1237

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has recesses.

Samsung, EX1004, p. 1239

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

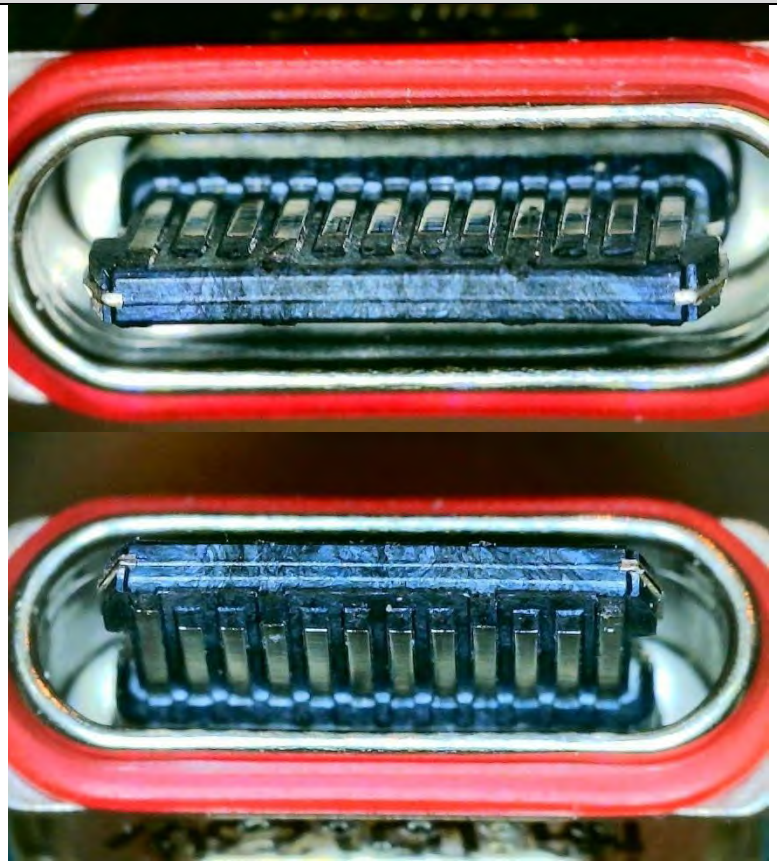
Claim 130 of the '307 Patent	Evidence of Infringement
	
[**130E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two	The tongue of the Samsung S24 FE (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

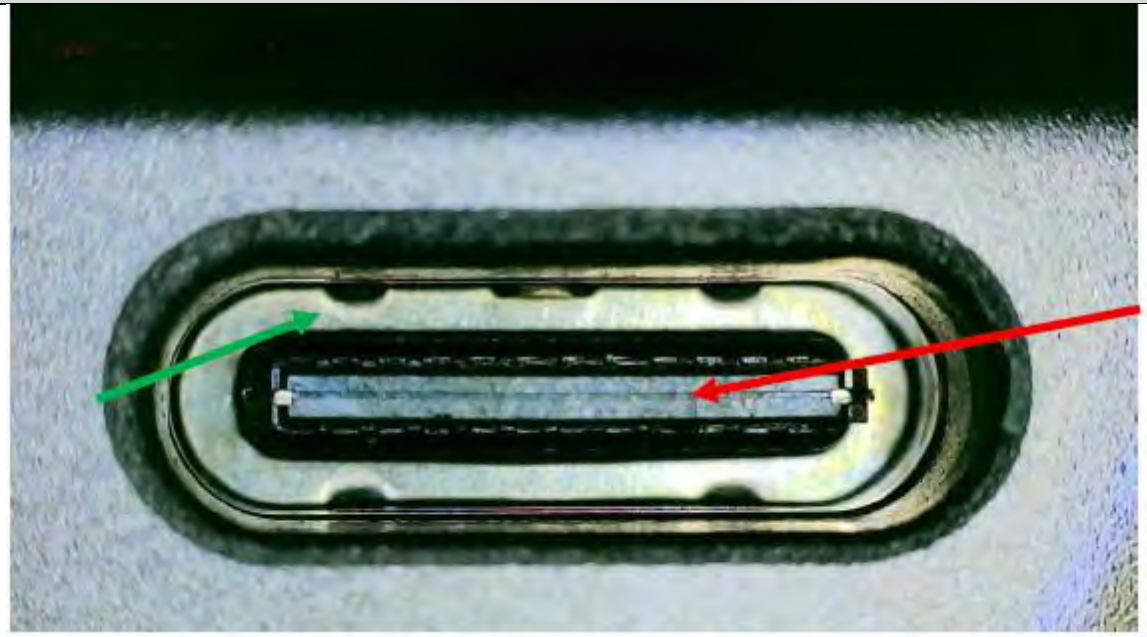
Claim 130 of the '307 Patent	Evidence of Infringement
sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by a blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

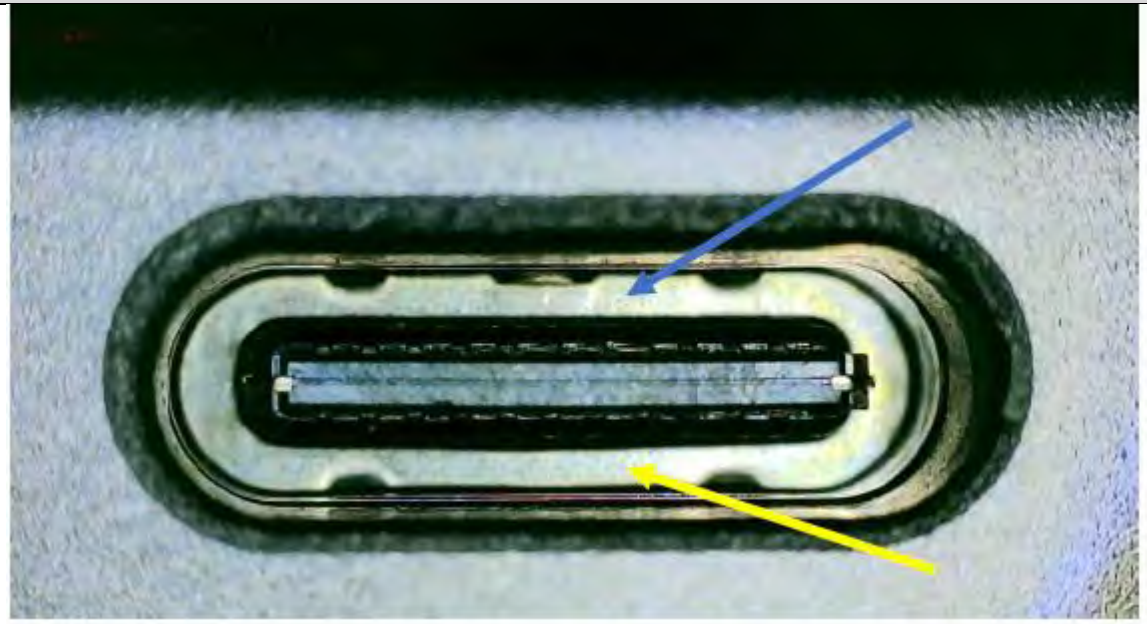
Claim 130 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

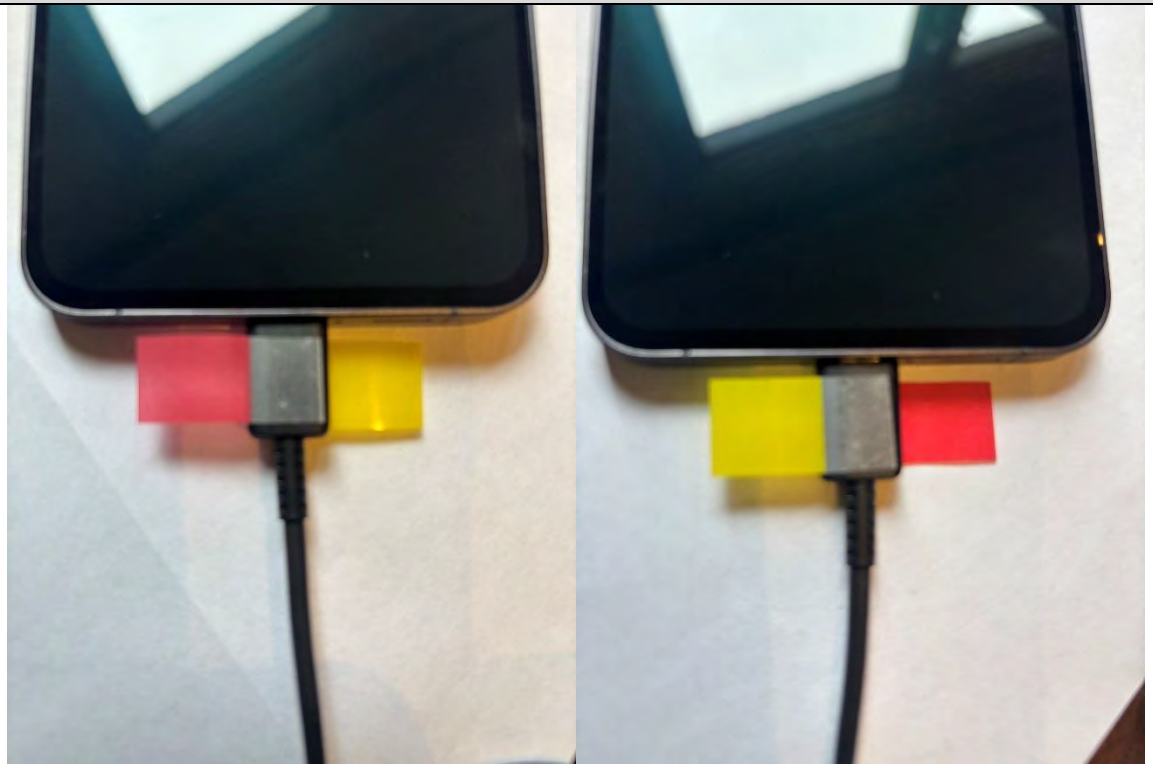
Claim 130 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the second structure of the Samsung S24 FE when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on bottom (second image). *See also* Element [**34E**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

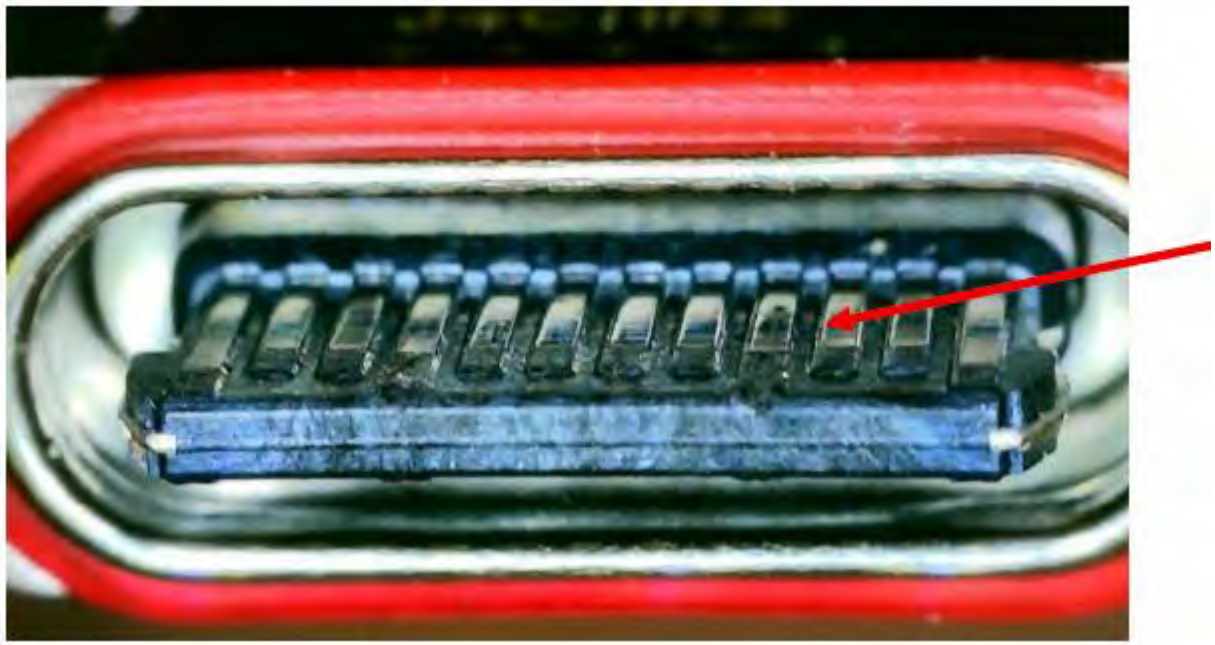
Claim 130 of the '307 Patent	Evidence of Infringement
[**130F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The socket structure of the Samsung S24 FE includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

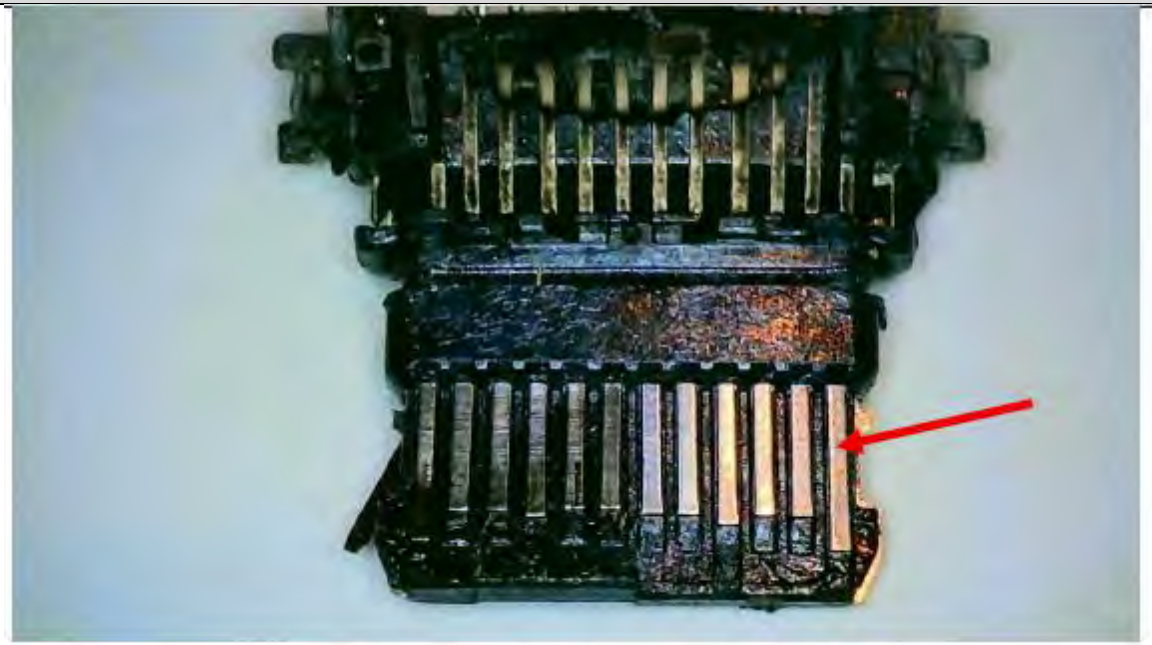
Claim 130 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung S24 FE includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung S24 FE includes two rows of twelve pins extending out of the base. On information and belief, the bottom row of pins corresponds to the first contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image showing underside of socket structure where it connects to PCB.) This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung S24 FE is a USB-C socket and/or compatible with the USB-C cables).

Furthermore, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	**Evidence of Infringement**
	See also Element [**34F**].
[**130G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung S24 FE includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

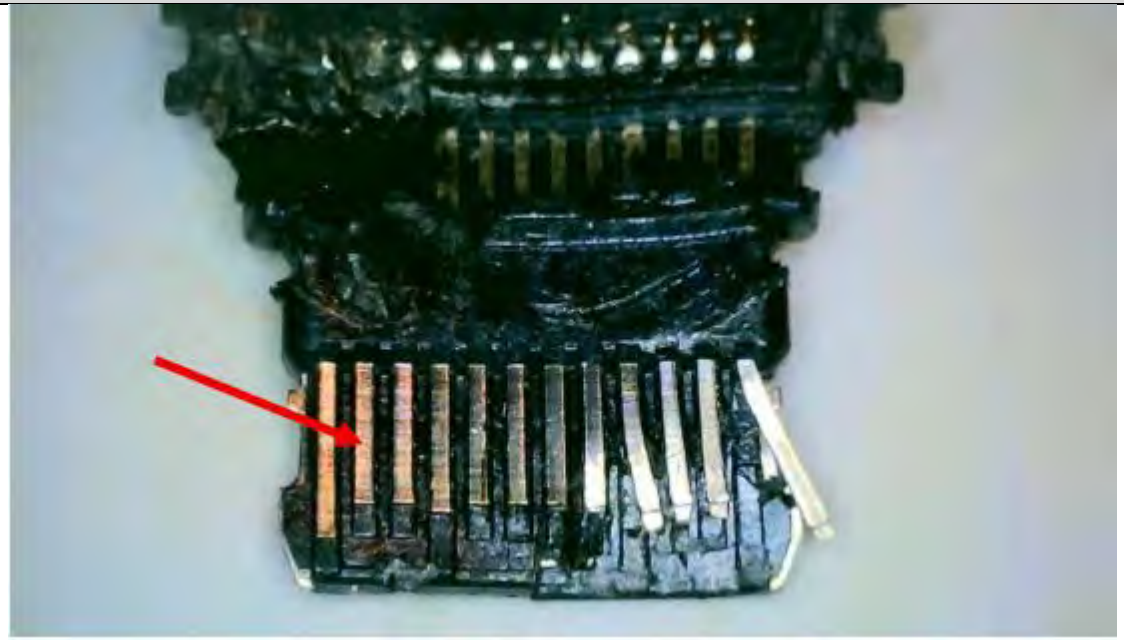
Claim 130 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34G**].
[**130H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. On information and belief, the top row of pins in the image below corresponds to the second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image showing socket structure where it connects to PCB.) In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**130I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

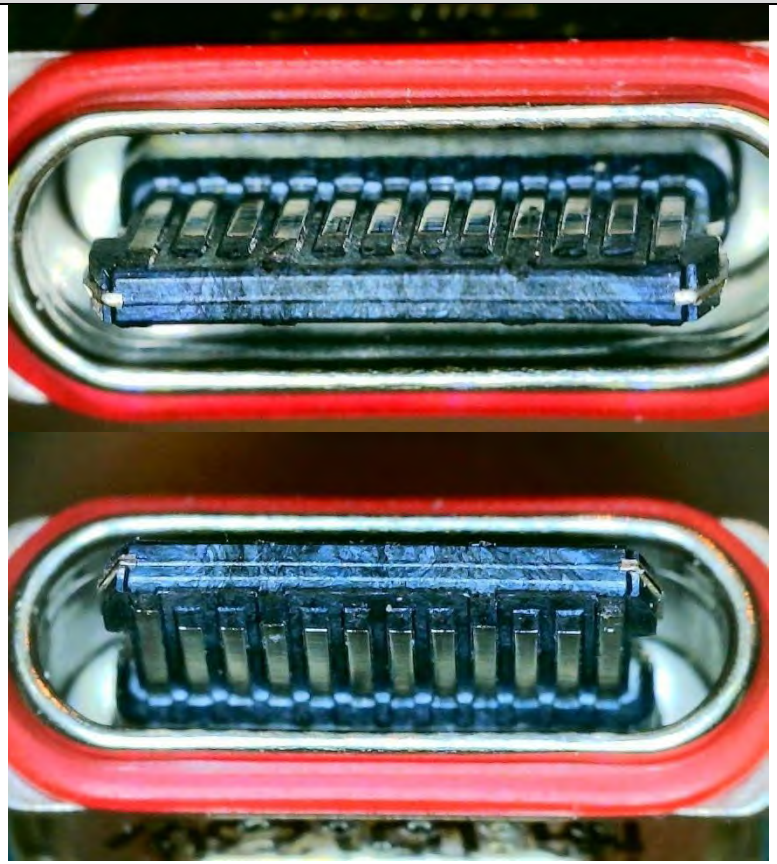
Claim 130 of the '307 Patent	Evidence of Infringement
	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

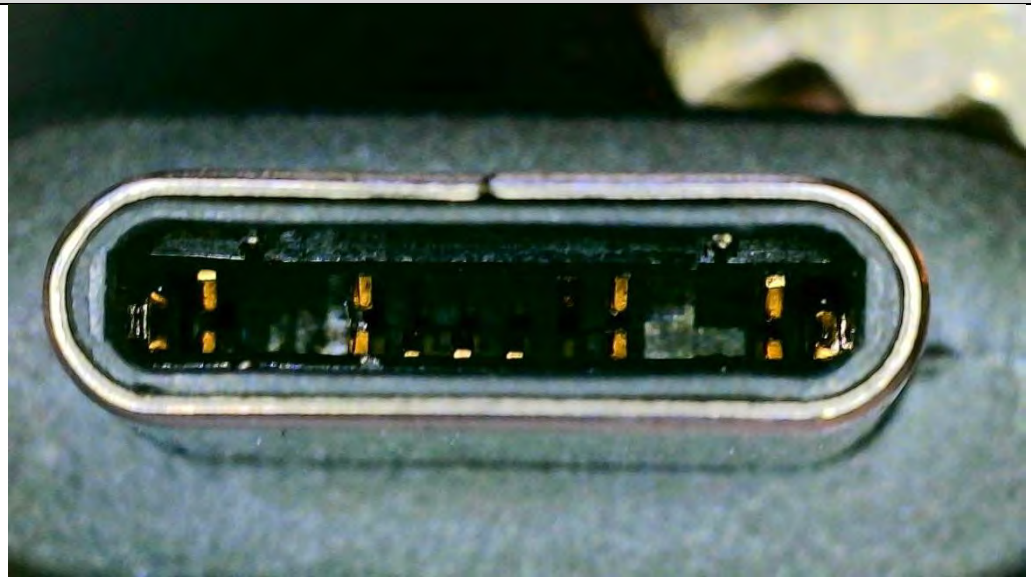
Claim 130 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**130J**] the at least one row of first contacts	The first row of contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

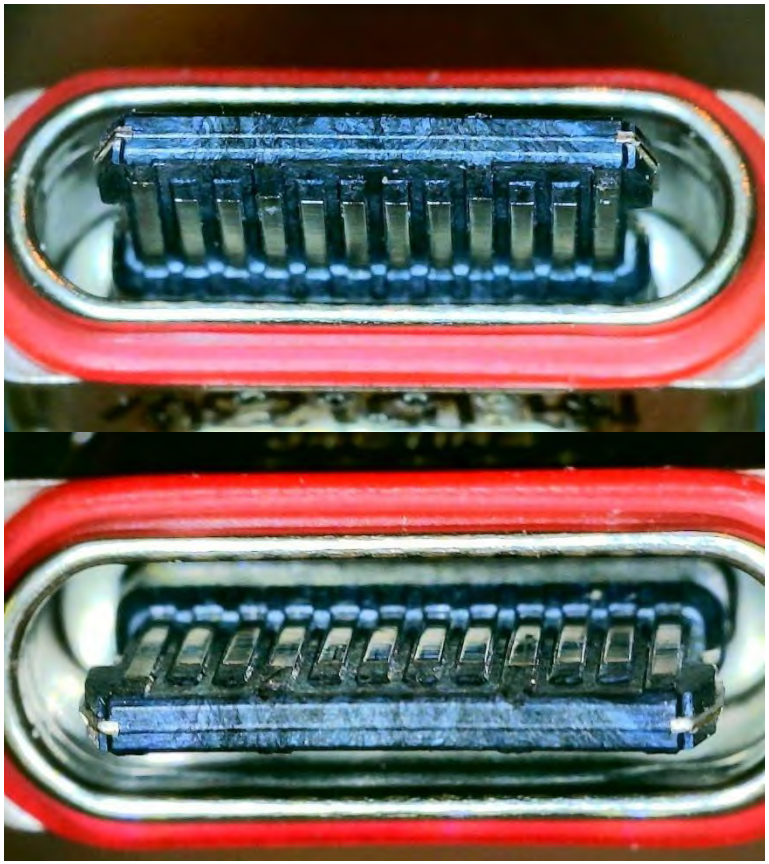
Claim 130 of the '307 Patent	**Evidence of Infringement**
has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two separate operational states:	 In addition, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement

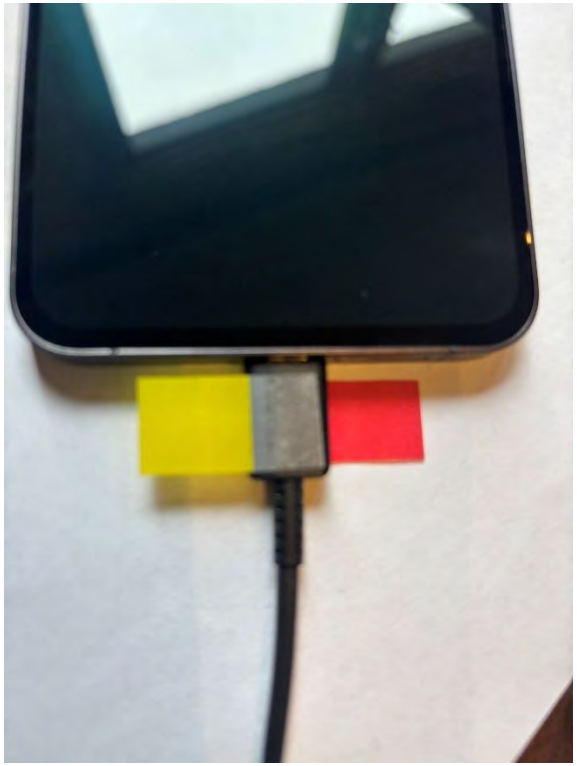
Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**130K**] through [**130N**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
[**130K**] a first operational states when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed within the connection slot,	The Samsung S24 FE is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug faces the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extending inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the

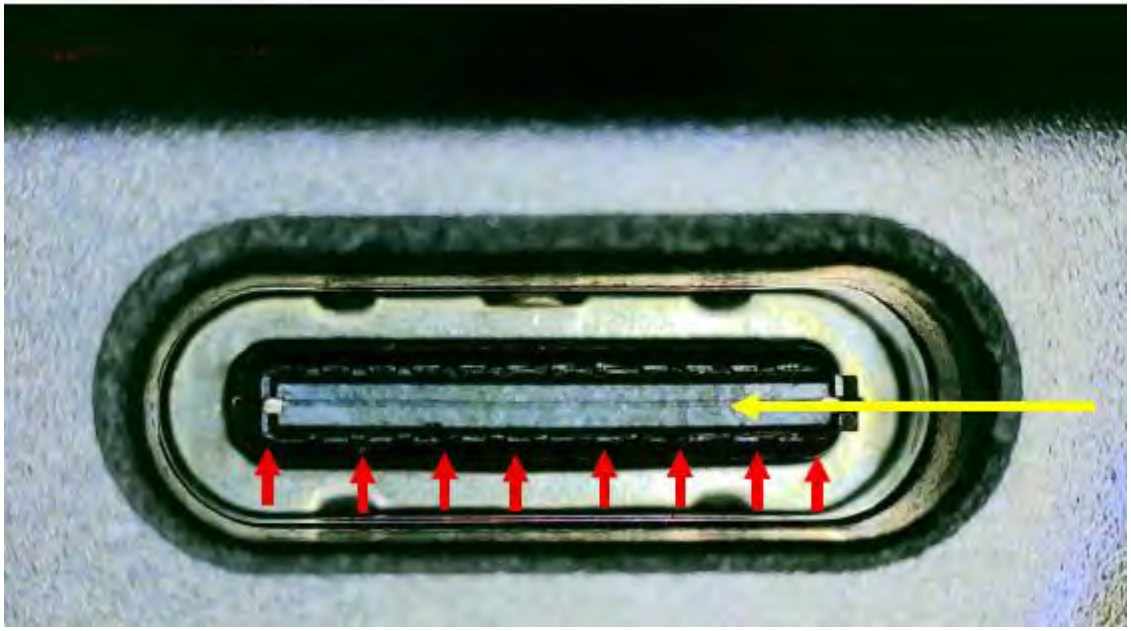
Claim 130 of the '307 Patent	Evidence of Infringement
	bottom surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

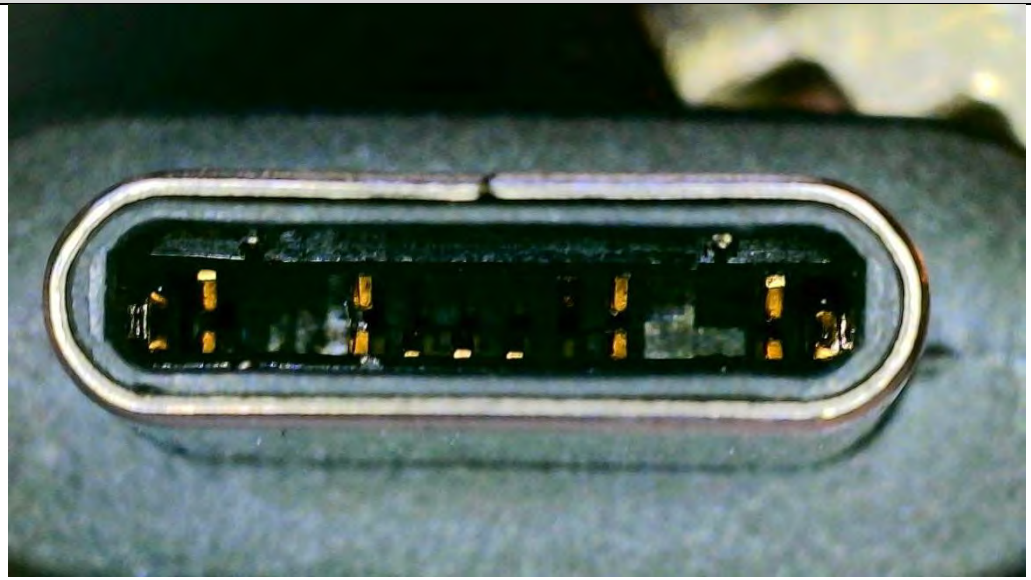
Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**130L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung S24 FE is configured for a first operational state as described above in connection with element [**130K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

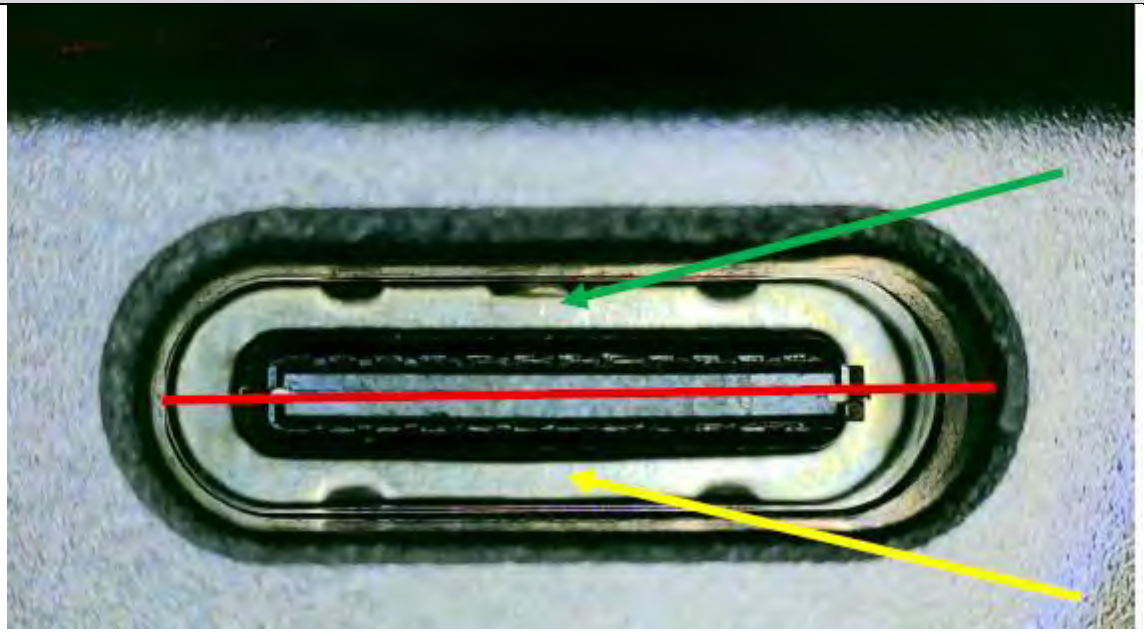
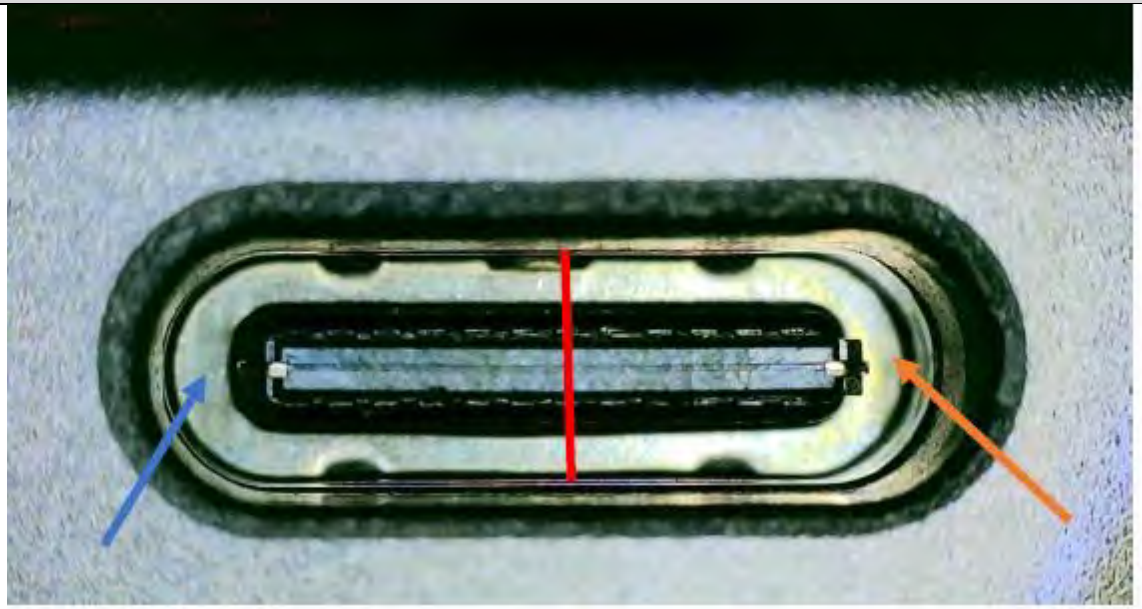
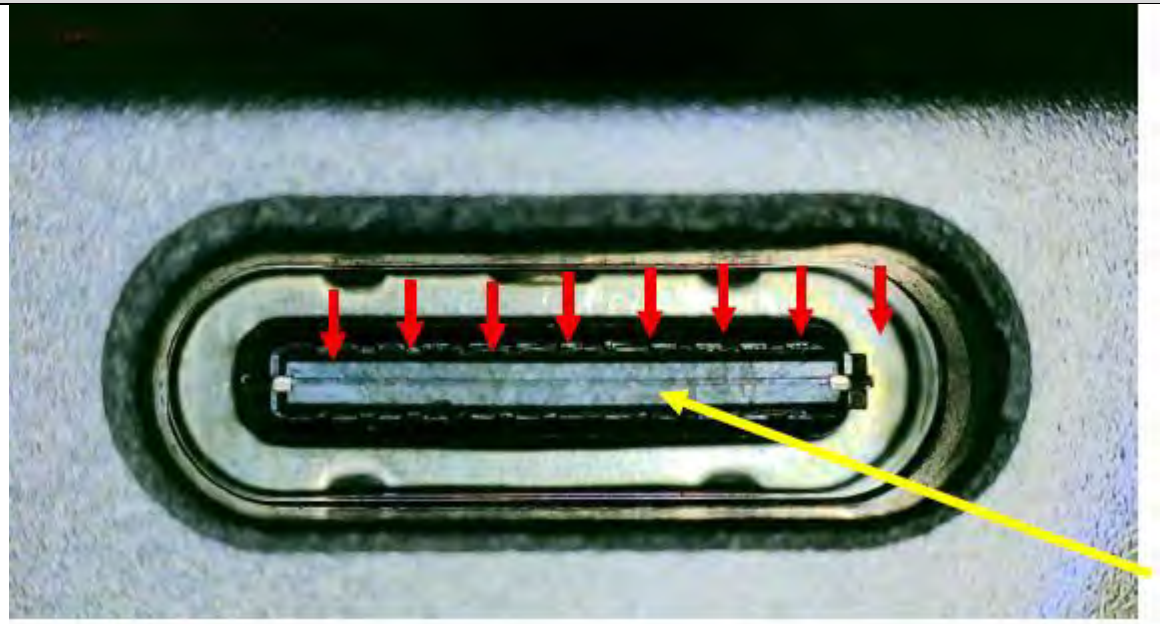
Claim 130 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**].
[**130M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug	The Samsung S24 FE is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

Claim 130 of the '307 Patent	Evidence of Infringement
are electrically connected to the at least one row of first contacts, and the tongue is disposed within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extending inward from the plug face marked with the red flag so as to electrically connection with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].
[**130N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**130L**]. *See also* Element [**34N**].

Samsung, EX1004, p. 1264

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	**Evidence of Infringement**
[**131A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung S24 FE is a phone that includes a socket structure with duplex electrical connection. In particular, the Samsung S24 FE provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025). The socket on the Samsung S24 FE is a USB-C socket.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	USB USB 3.2 Gen 1 **Earjack** USB Type-C *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5[illegible] Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S2[illegible], S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung S24 FE is packaged with and capable of connecting to a USB-C cable.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

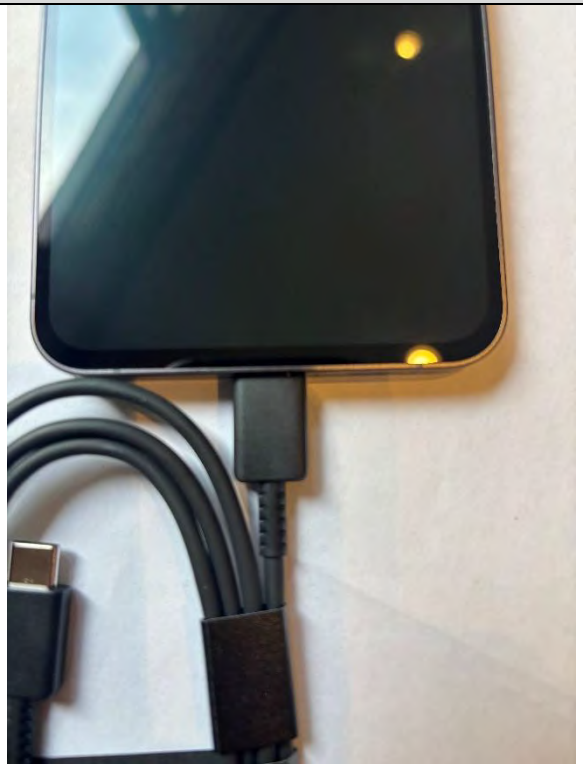
Claim 131 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**131B**] through [**131L**].
[**131B**] a plastic base;	The socket structure of the Samsung S24 FE includes a plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

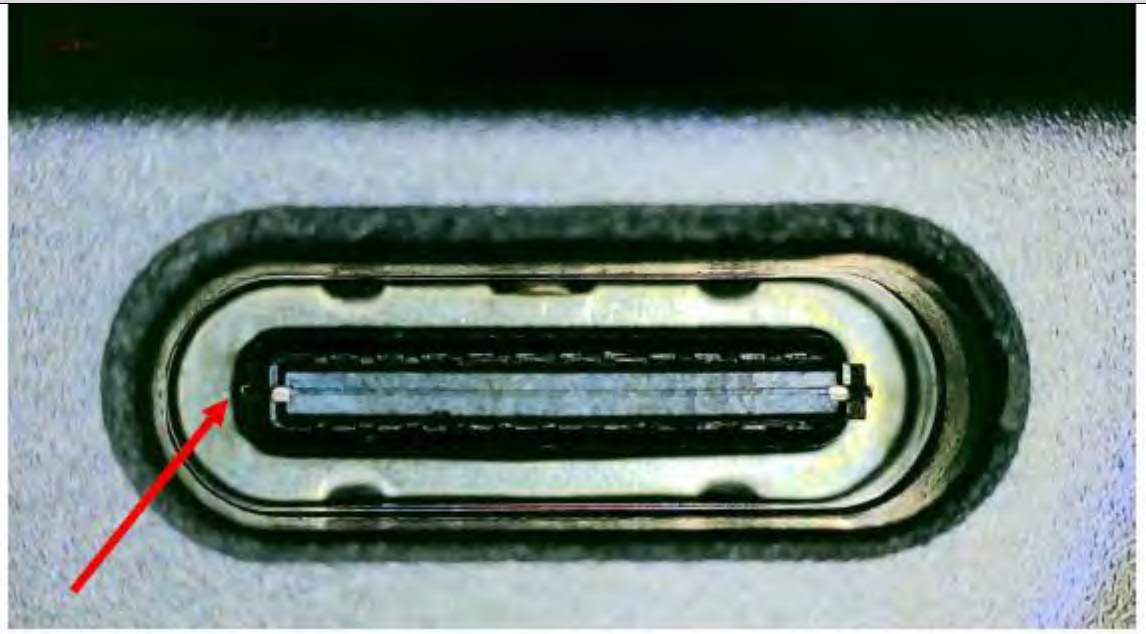
Claim 131 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

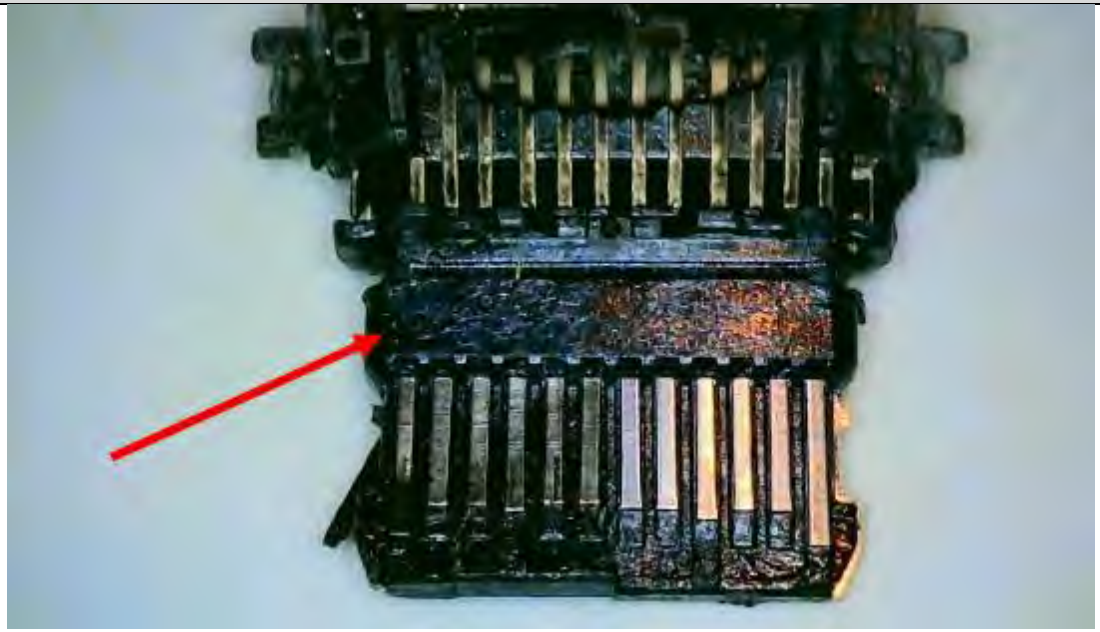
Claim 131 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34B**].
[**131C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung S24 FE includes a connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

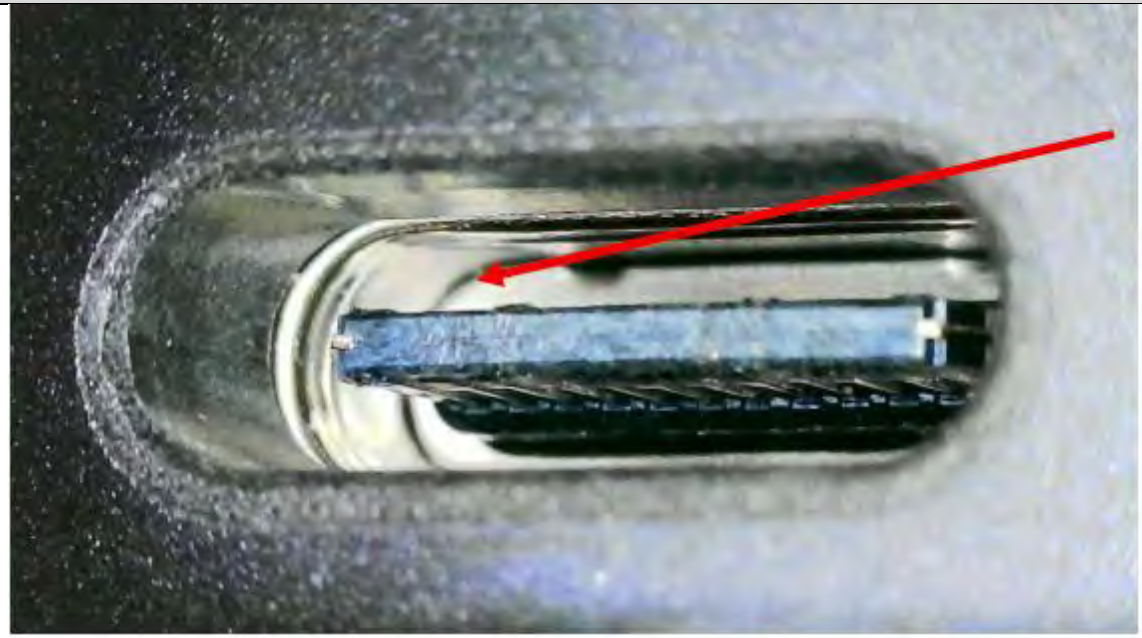
Claim 131 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

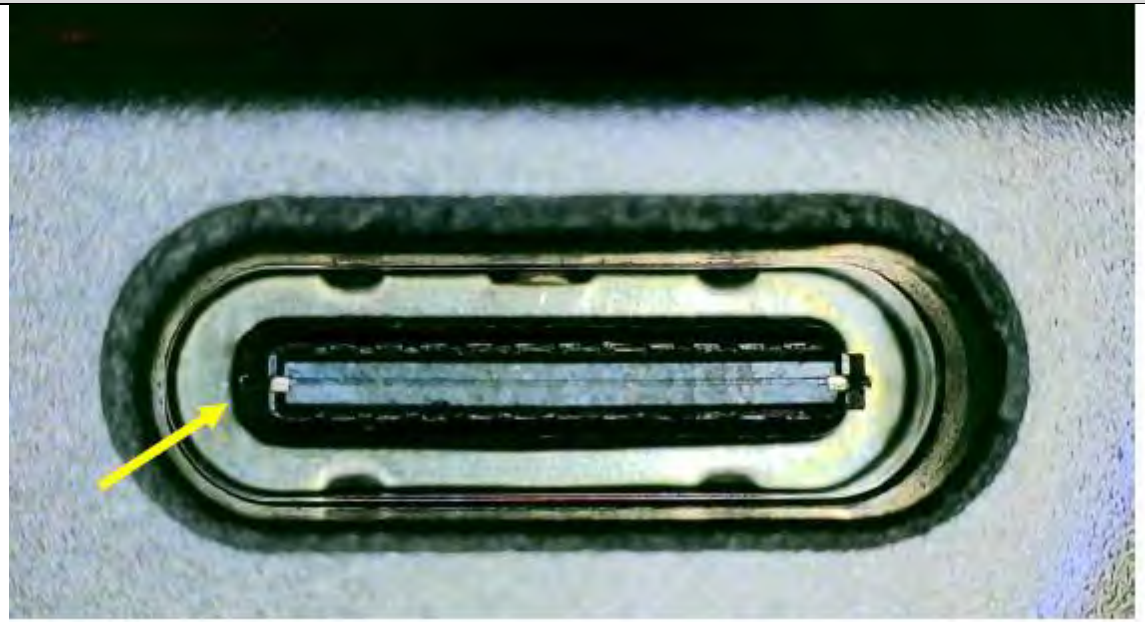
Claim 131 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung S24 FE, as described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

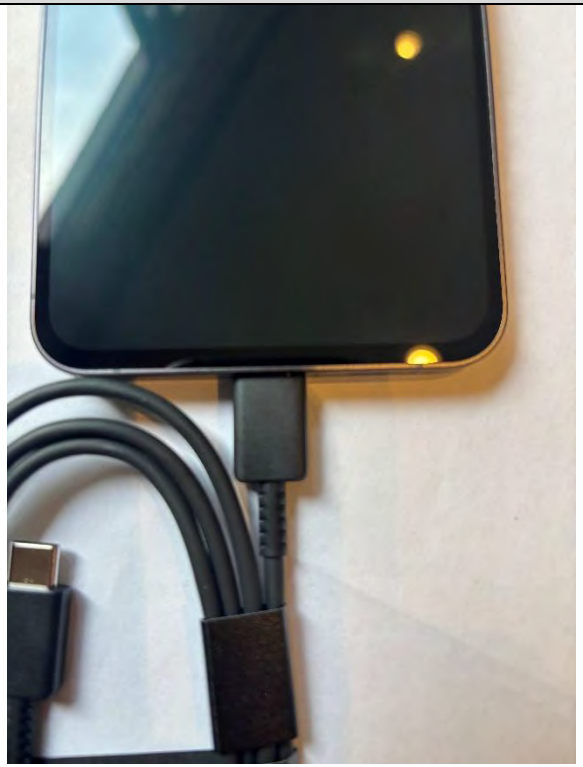
Claim 131 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

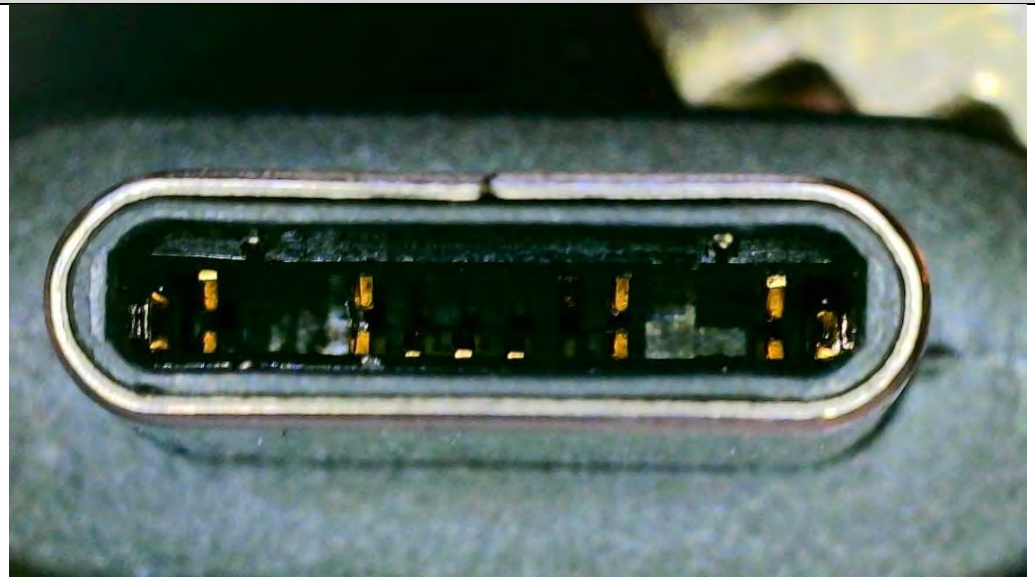
Claim 131 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**131D**] a tongue, which has a top side with a first surface with grooves, and a bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung S24 FE includes a tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

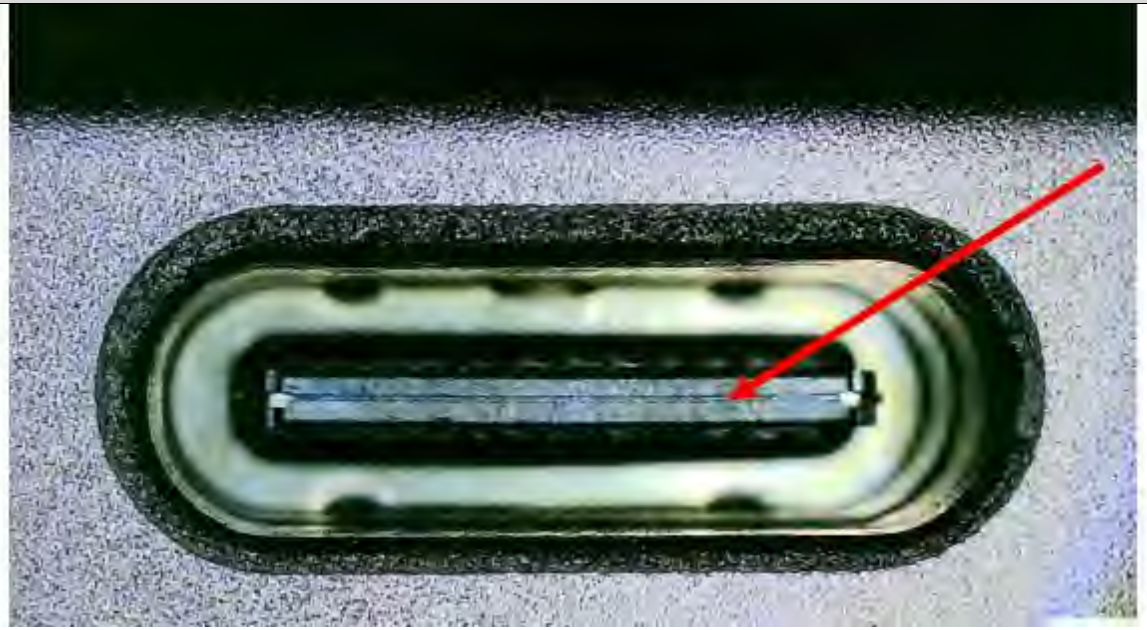
Claim 131 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

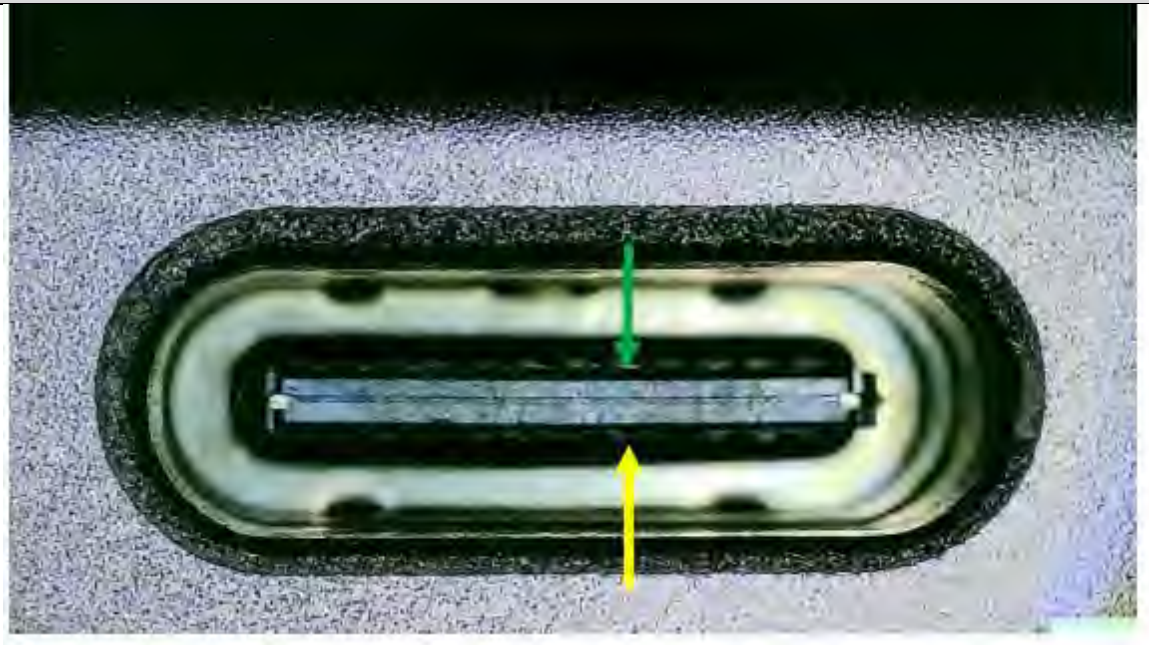
Claim 131 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1281

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

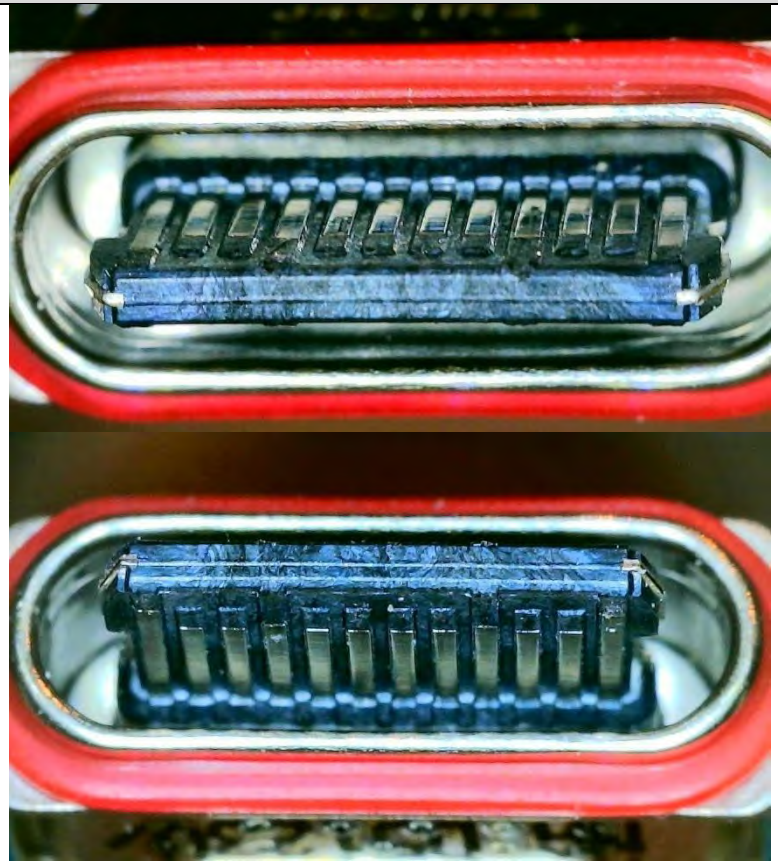
Claim 131 of the '307 Patent	**Evidence of Infringement**
	 *See also* Elements [**34D**], [**56D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponds to the side with the second surface as described in element [**34D**].
[**131E**] the tongue being disposed on one end of the plastic	The tongue of the Samsung S24 FE (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

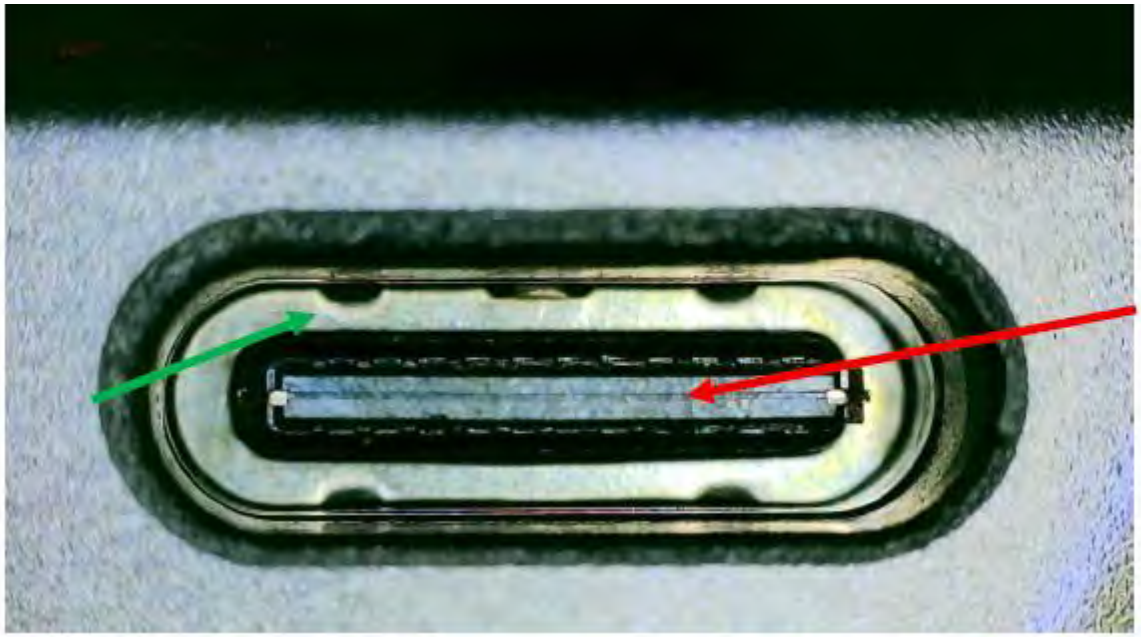
Claim 131 of the '307 Patent	**Evidence of Infringement**
base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by a blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

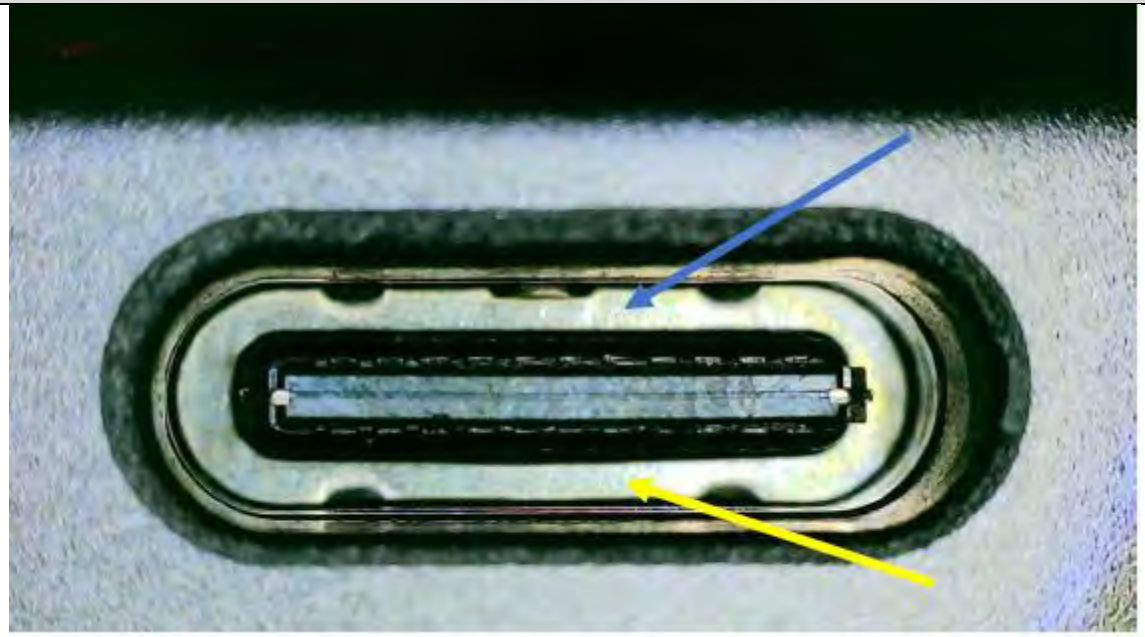
Claim 131 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

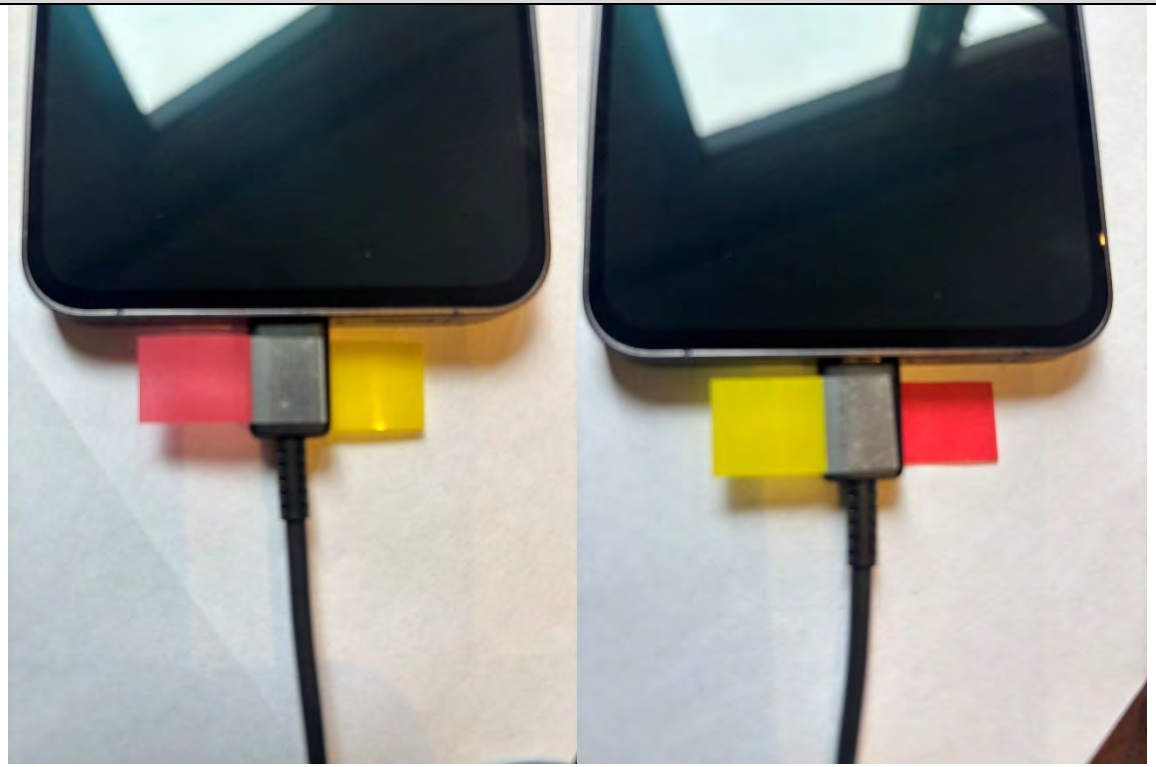
Claim 131 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the second structure of the Samsung S24 FE when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on bottom (second image). *See also* Element [**34E**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

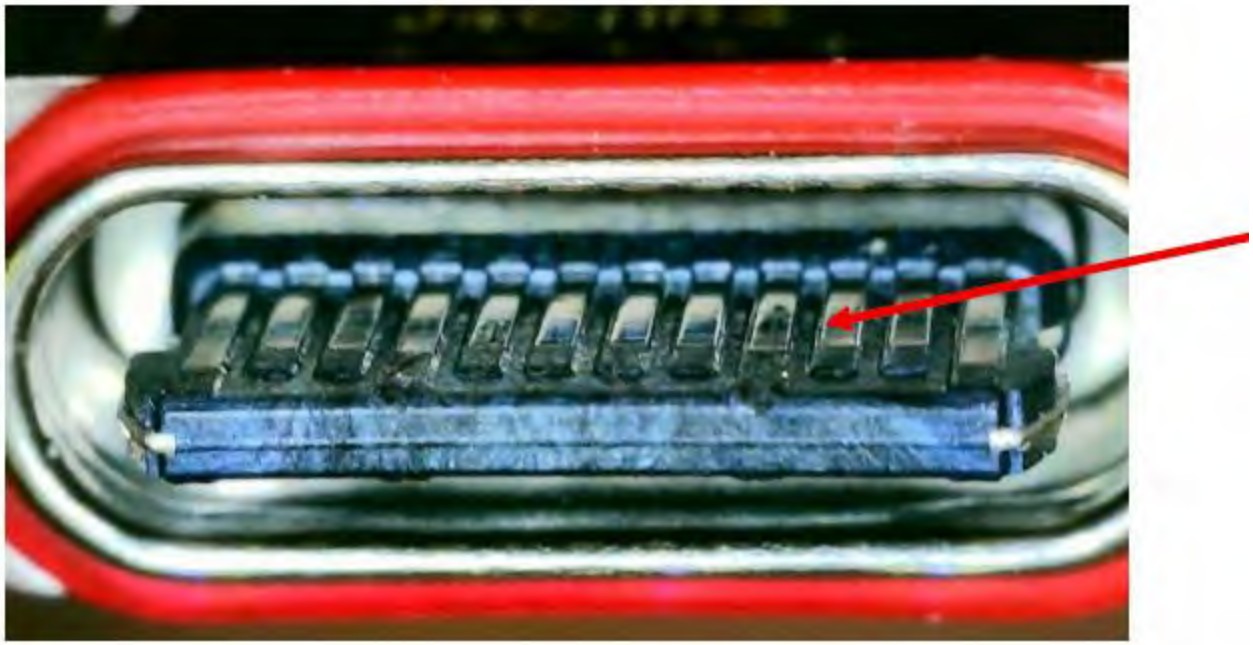
Claim 131 of the '307 Patent	**Evidence of Infringement**
[**131F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a first pin extending out of the plastic base; and	The socket structure of the Samsung S24 FE includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

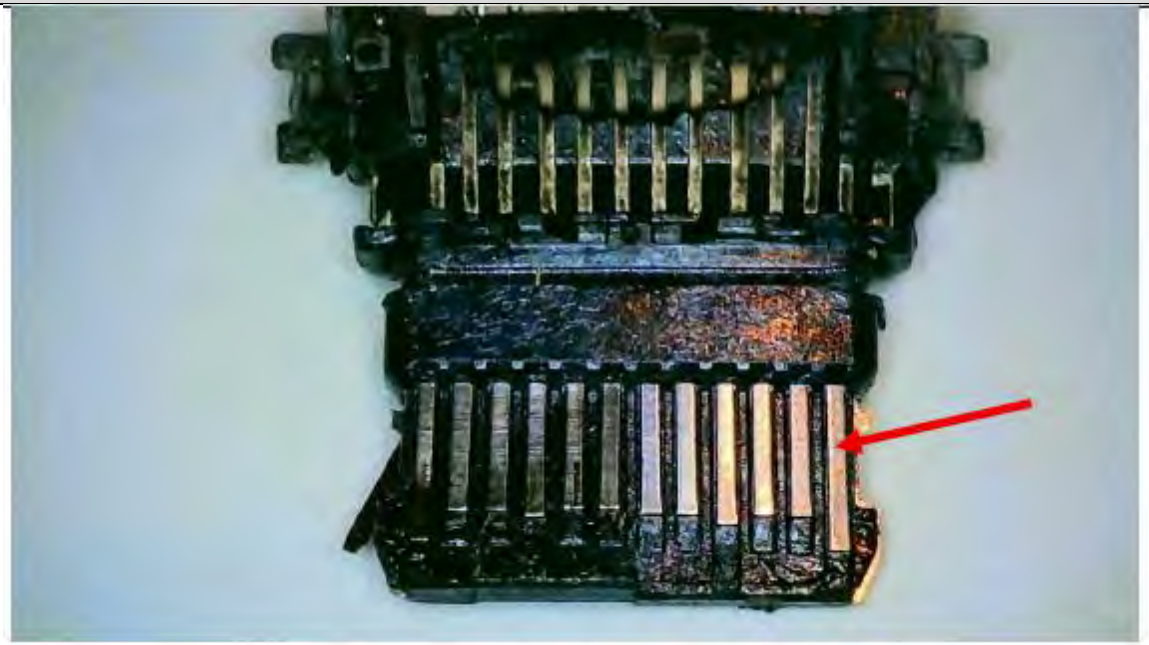
Claim 131 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung S24 FE includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung S24 FE includes two rows of twelve pins extending out of the base. On information and belief, the bottom row of pins corresponds to the first contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 (Image showing underside of socket structure where it connects to PCB.) This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung S24 FE is a USB-C socket and/or compatible with the USB-C cables).

Furthermore, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

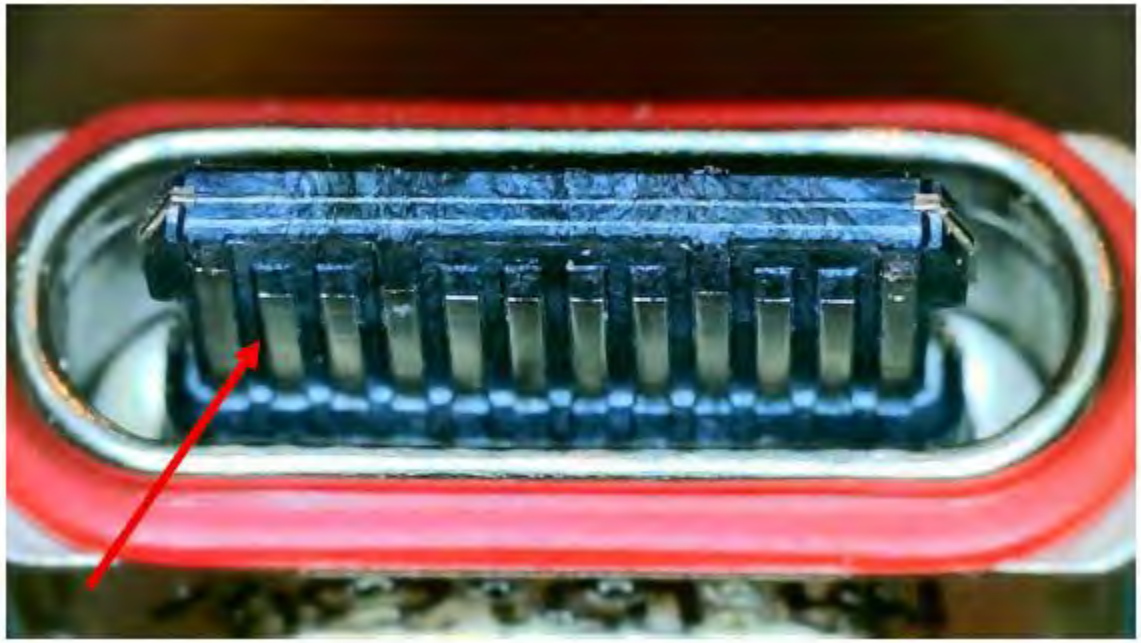
Claim 131 of the '307 Patent	**Evidence of Infringement**
	See also Element [**34F**].
[**131G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung S24 FE includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34G**].
[**131H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. On information and belief, the top row of pins in the image below corresponds to the second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 (Image showing socket structure where it connects to PCB.) In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**131I**] the socket structure is operative to simultaneously electrically connect on the top and the	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect on both sides of the tongue via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

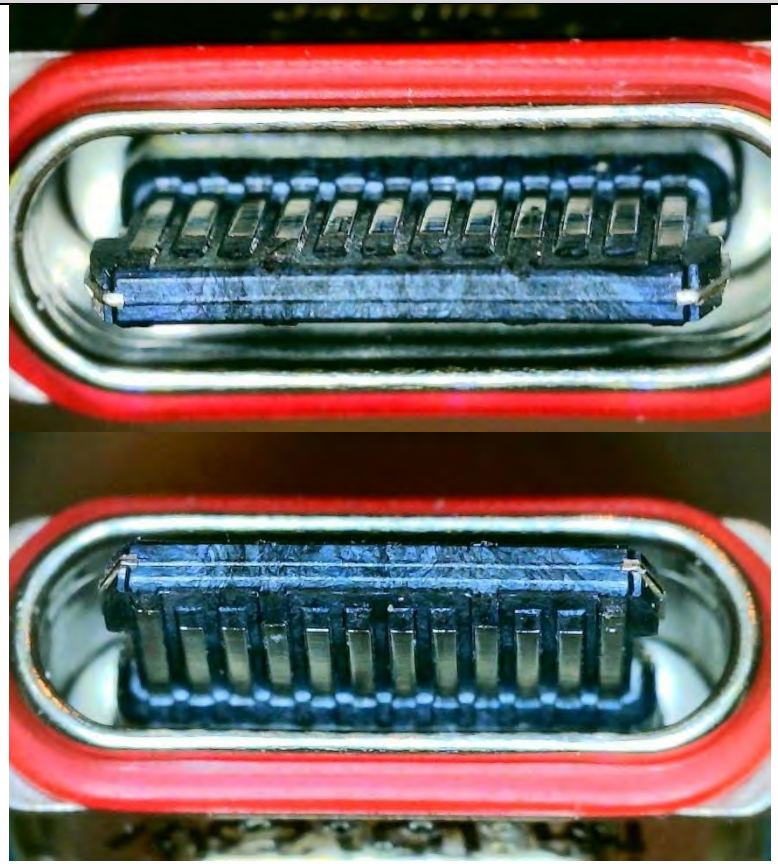
Claim 131 of the '307 Patent	**Evidence of Infringement**
bottom side of the tongue;	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

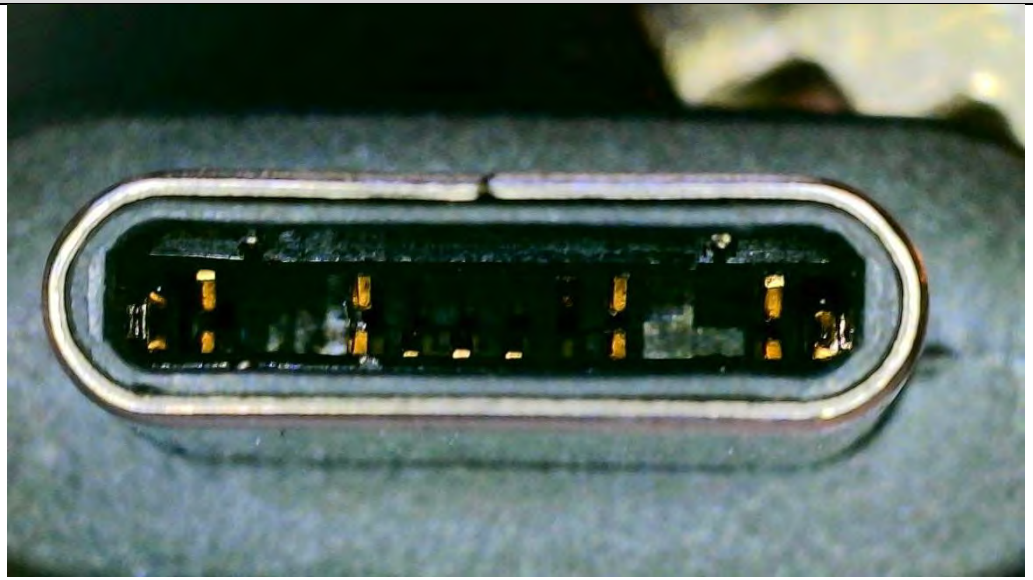
Claim 131 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Elements [**34I**], [**56I**].
[**131J**] the at least one row of first contacts has a functional	The first row of contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

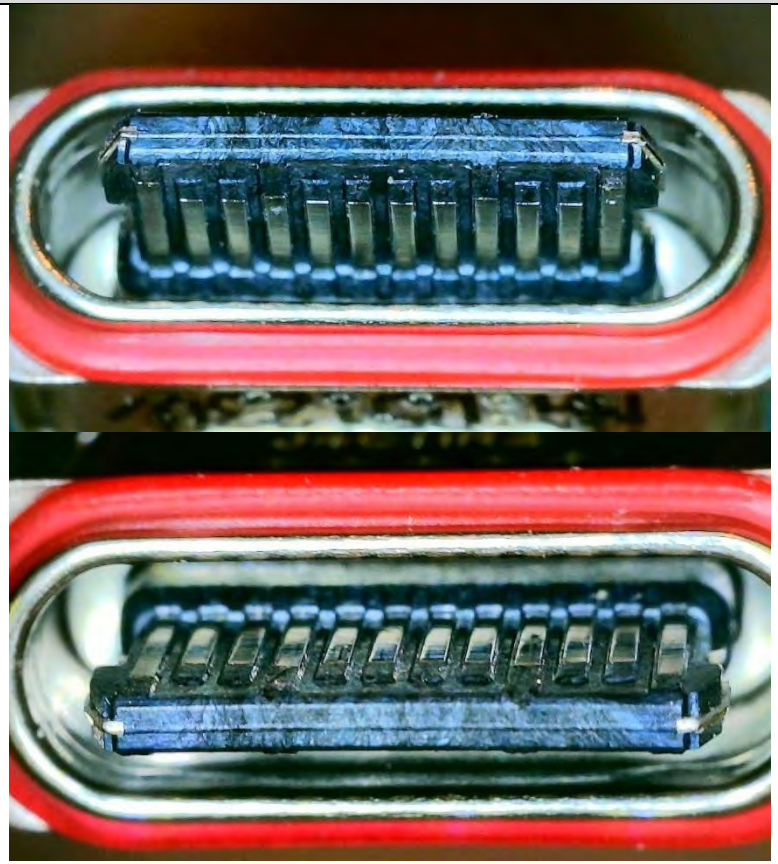
Claim 131 of the '307 Patent	**Evidence of Infringement**
reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured such that:	 In addition, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement

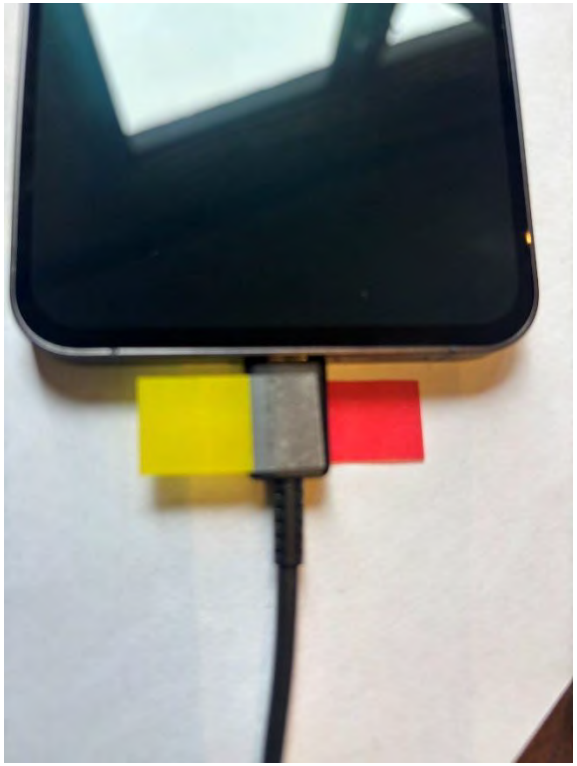
Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**131K**] through [**131L**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	**Evidence of Infringement**
[**131K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung S24 FE is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug faces the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extending inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the

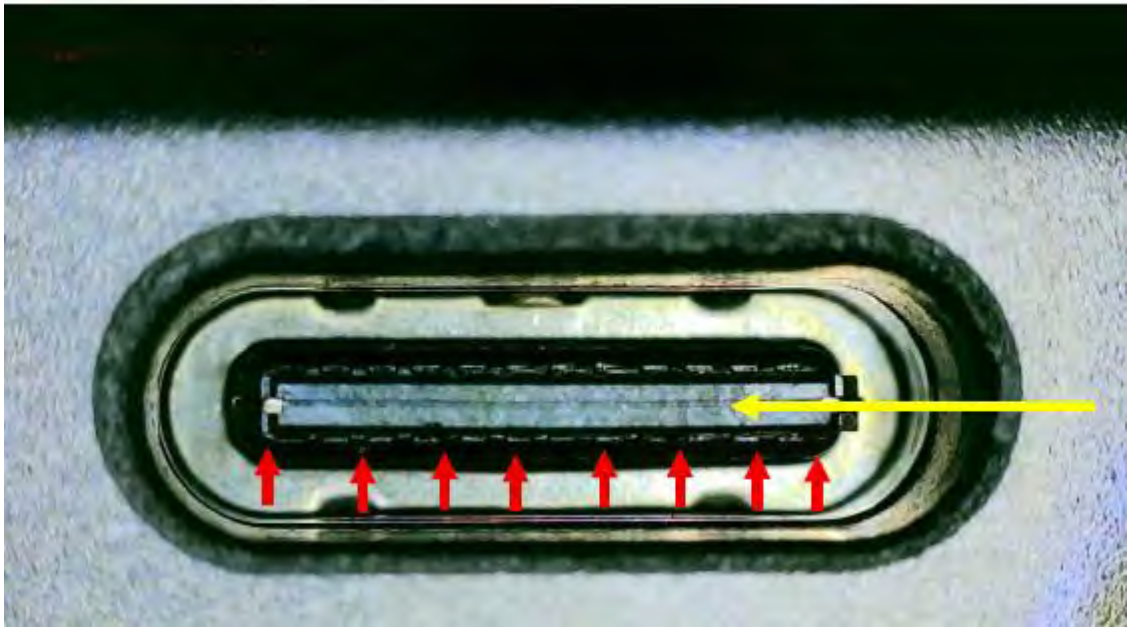
Claim 131 of the '307 Patent	Evidence of Infringement
	bottom surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

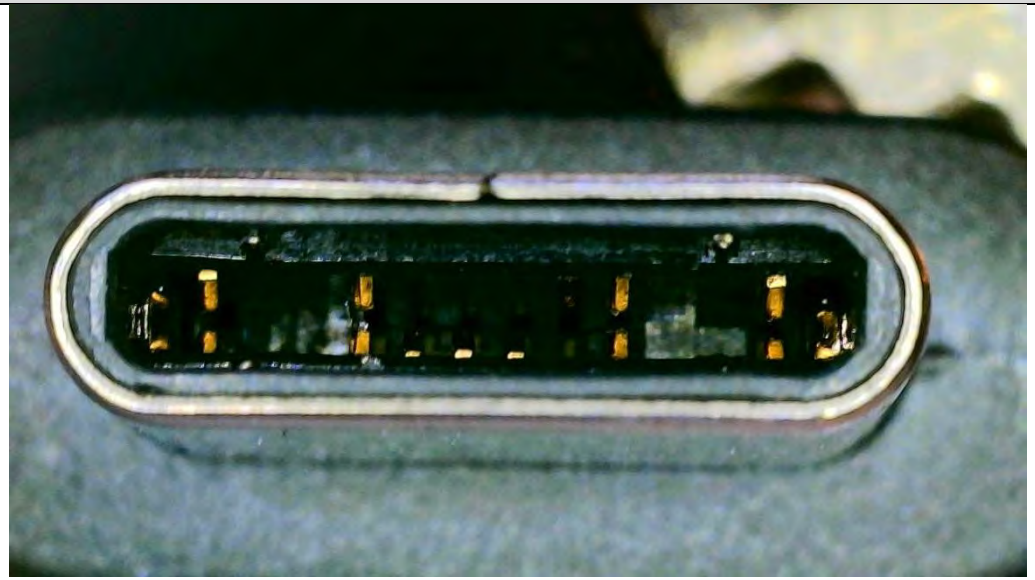
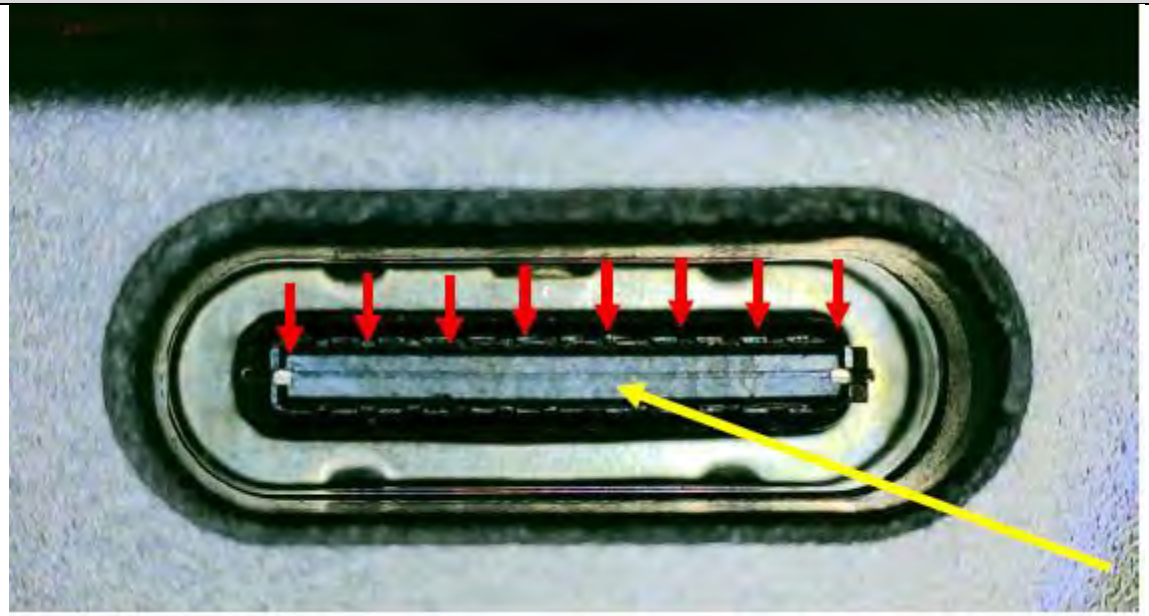
Claim 131 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**]
[**131L**] when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals	The Samsung S24 FE is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
of the plug are electrically connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extending inward from the plug face marked with the red flag so as to electrically connection with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].

Samsung, EX1004, p. 1303

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	**Evidence of Infringement**
[**132A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung S24 FE is a phone that includes a socket structure with duplex electrical connection. In particular, the Samsung S24 FE provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025). The socket on the Samsung S24 FE is a USB-C socket.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	USB USB 3.2 Gen 1 **Earjack** USB Type-C *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung S24 FE is packaged with and capable of connecting to a USB-C cable.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

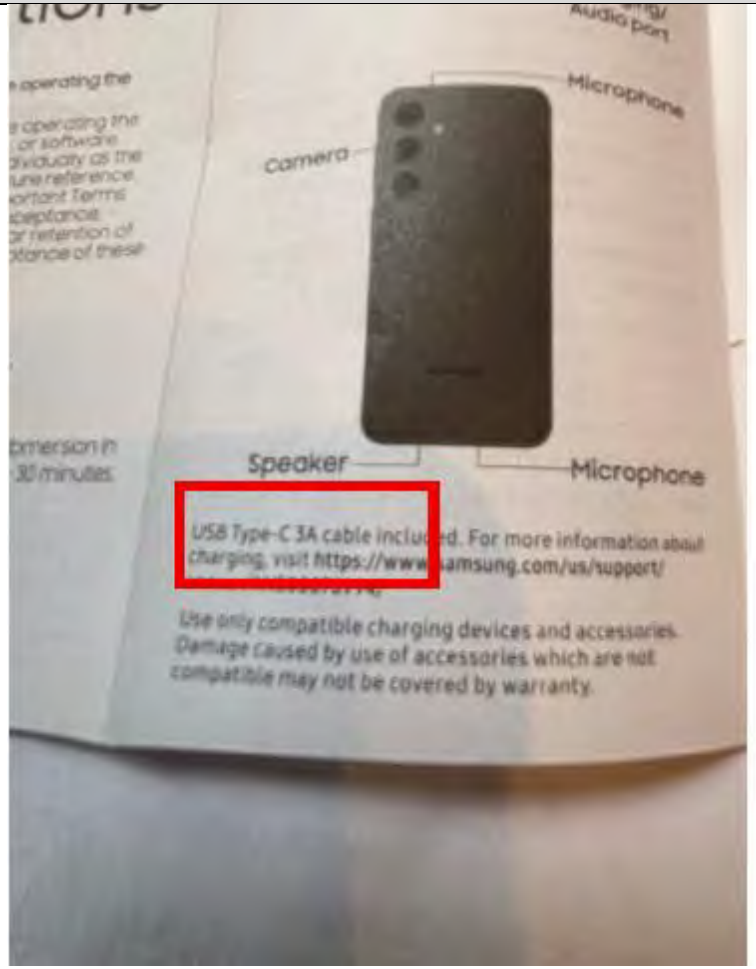
Claim 132 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

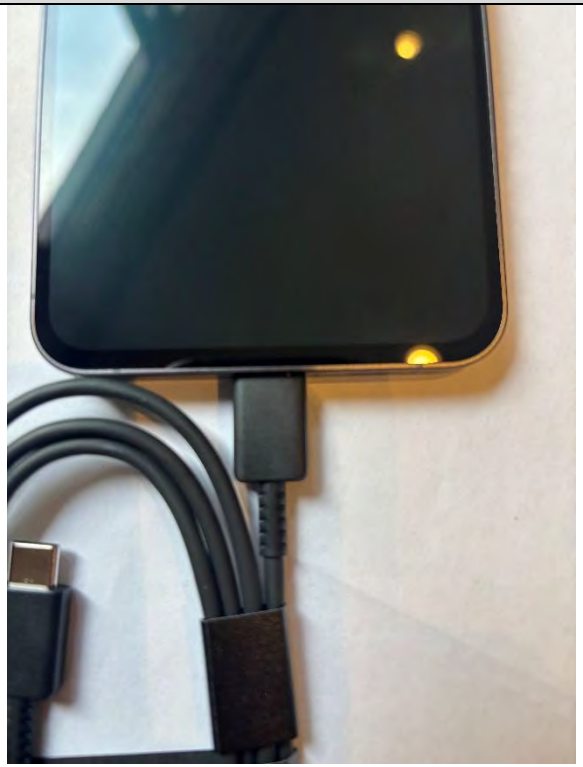
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**132B**] through [**132L**].
[**132B**] a plastic base;	The socket structure of the Samsung S24 FE includes a plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

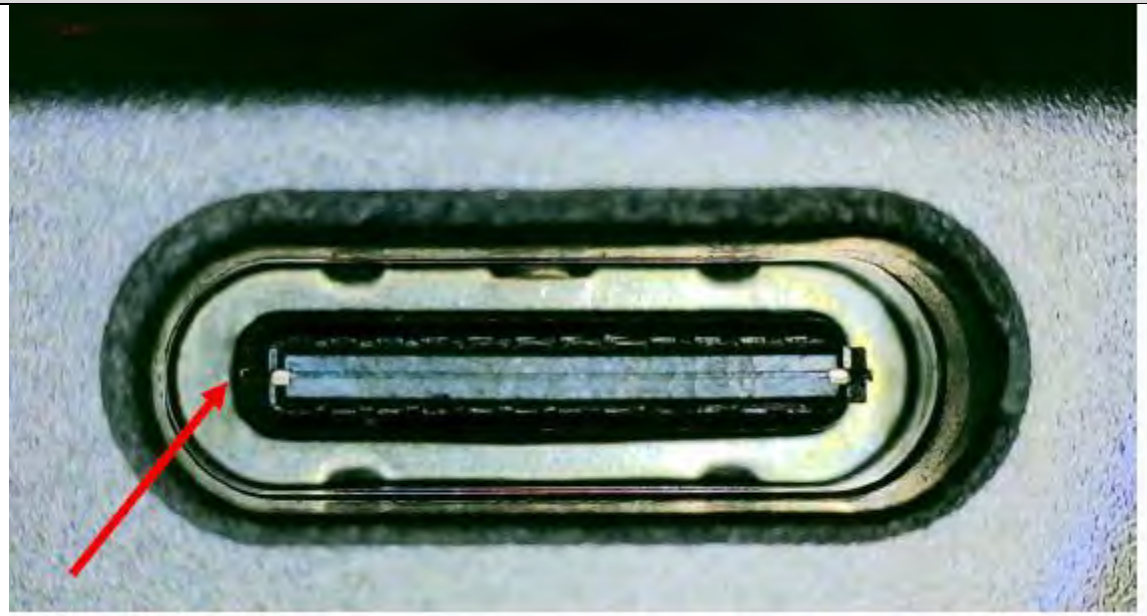
Claim 132 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

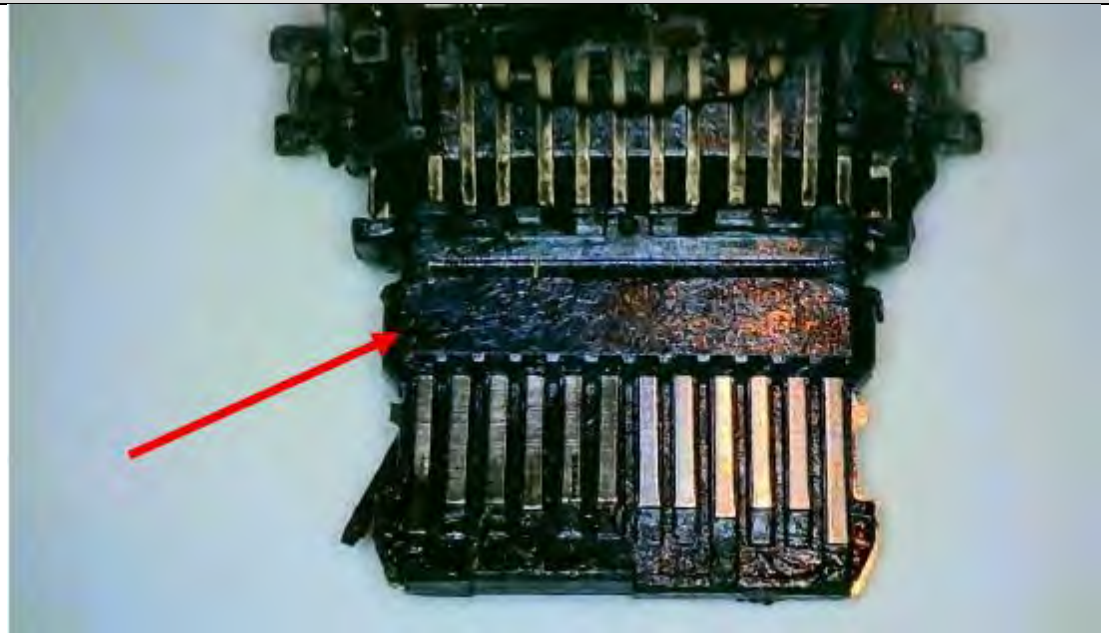
Claim 132 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34B**].
[**132C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung S24 FE includes a connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

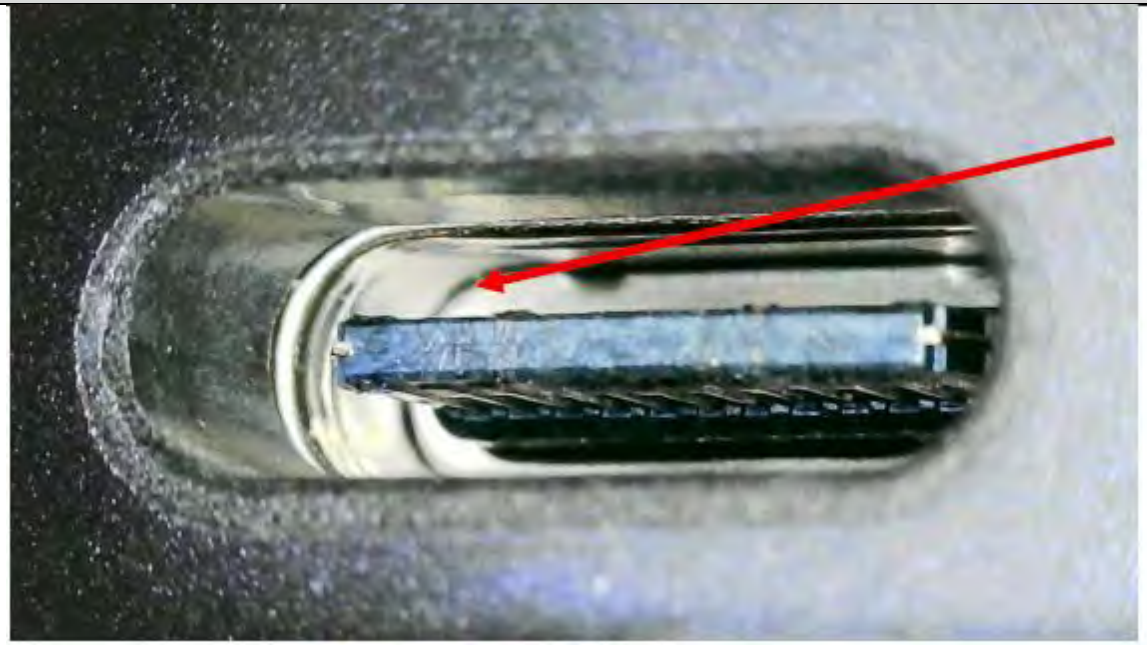
Claim 132 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

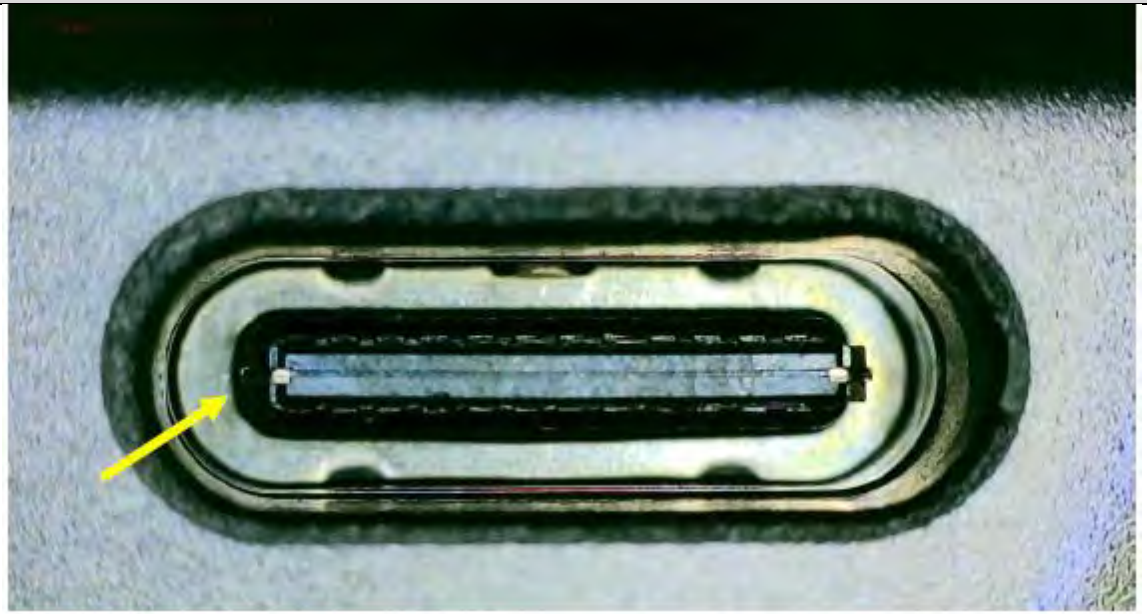
Claim 132 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung S24 FE, as described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

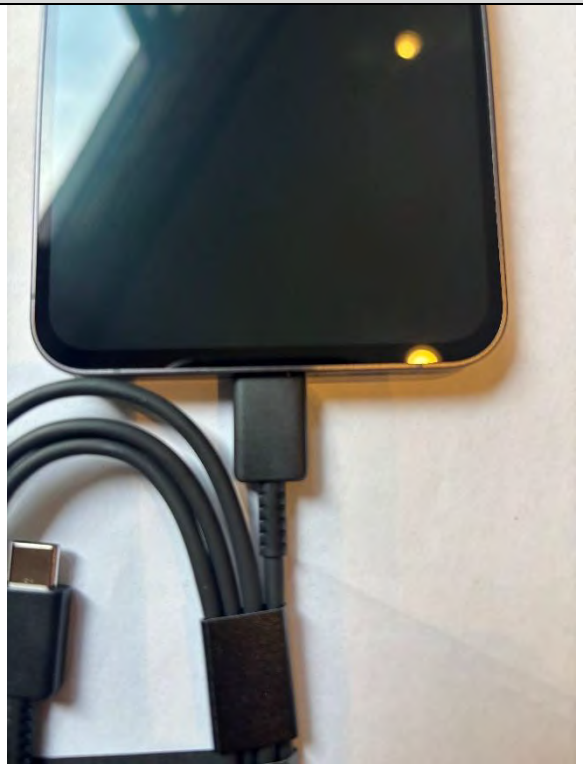
Claim 132 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

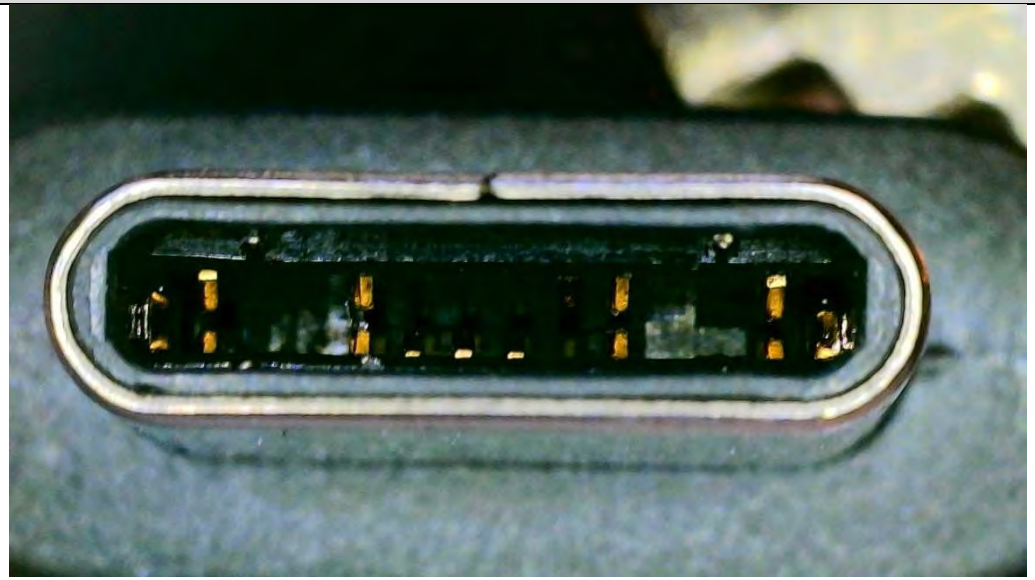
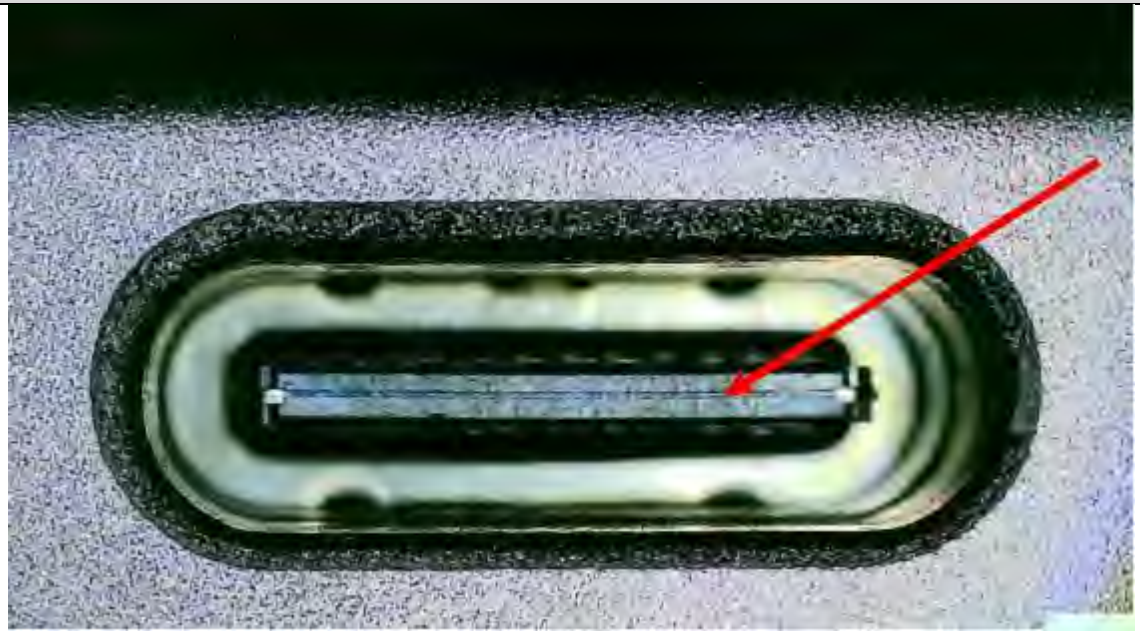
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**132D**] a tongue, which has a top side with a first surface with grooves, and a bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung S24 FE includes a tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

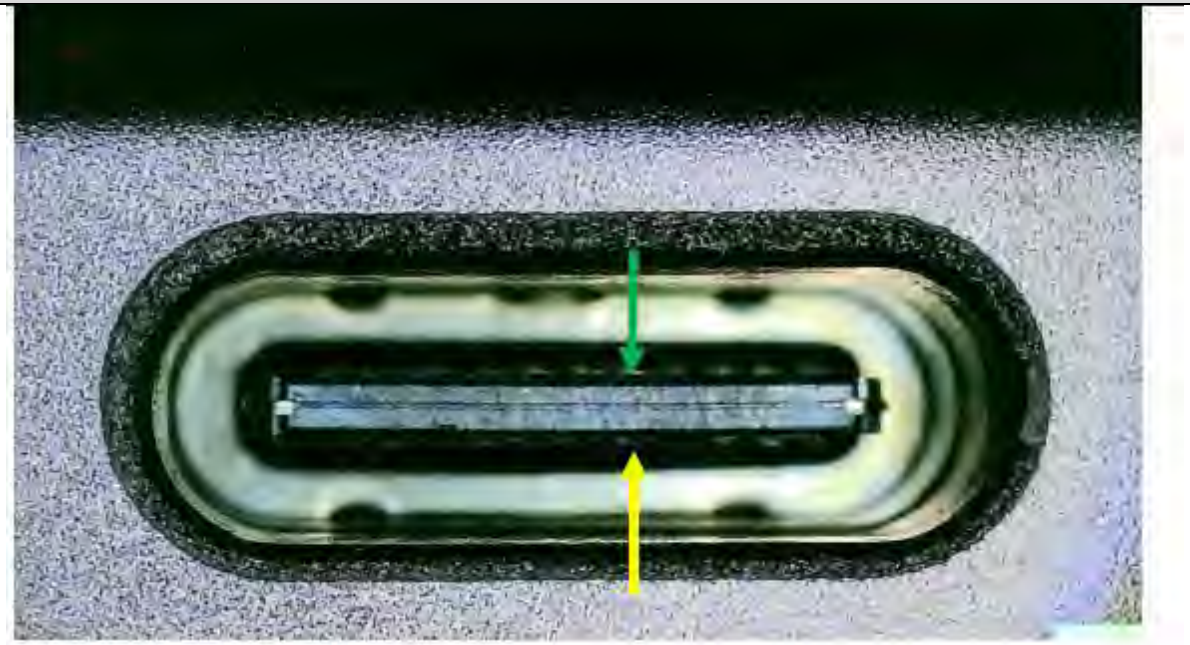
Claim 132 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1317

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

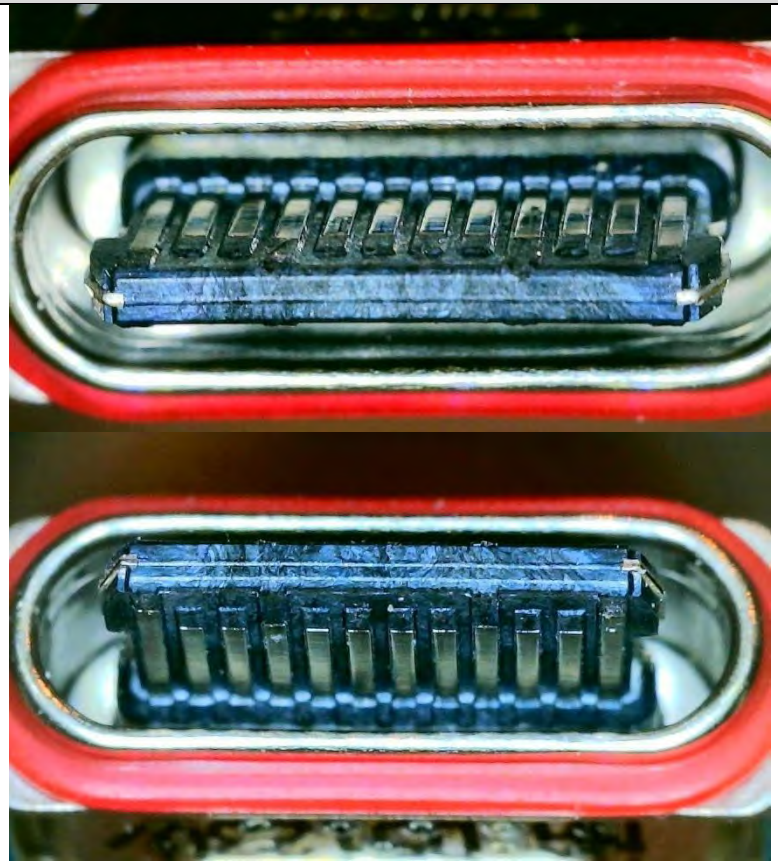
Claim 132 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

Samsung, EX1004, p. 1319

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	**Evidence of Infringement**
	 *See also* Elements [**34D**], [**56D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponds to the side with the second surface as described in element [**34D**].
[**132E**] the tongue being disposed on one end of the plastic	The tongue of the Samsung S24 FE (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

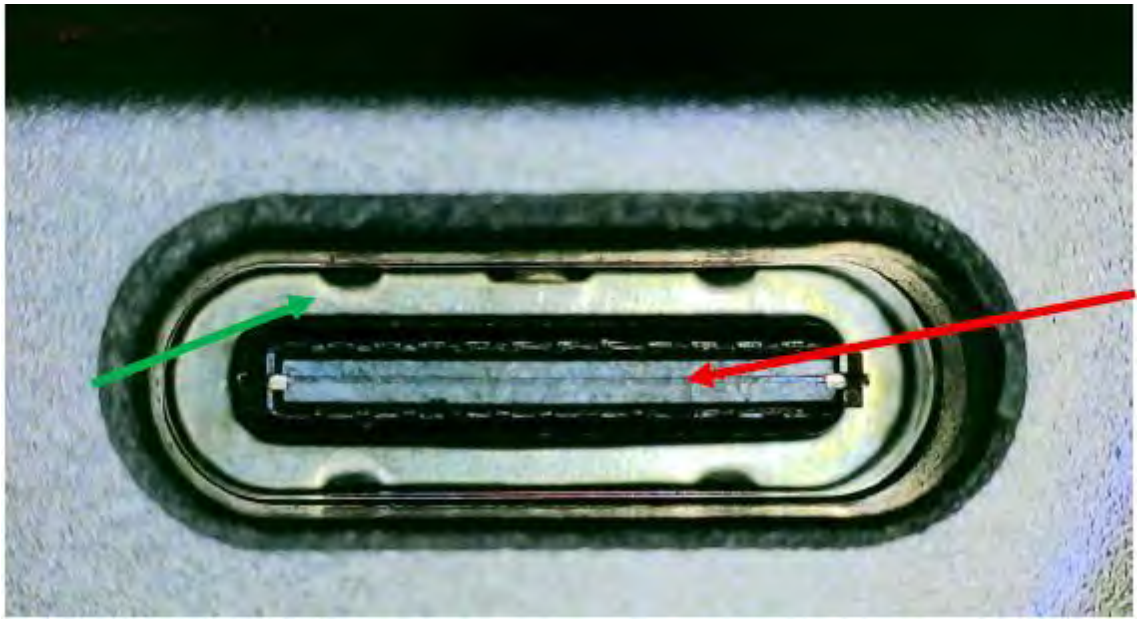
Claim 132 of the '307 Patent	Evidence of Infringement
base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by a blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

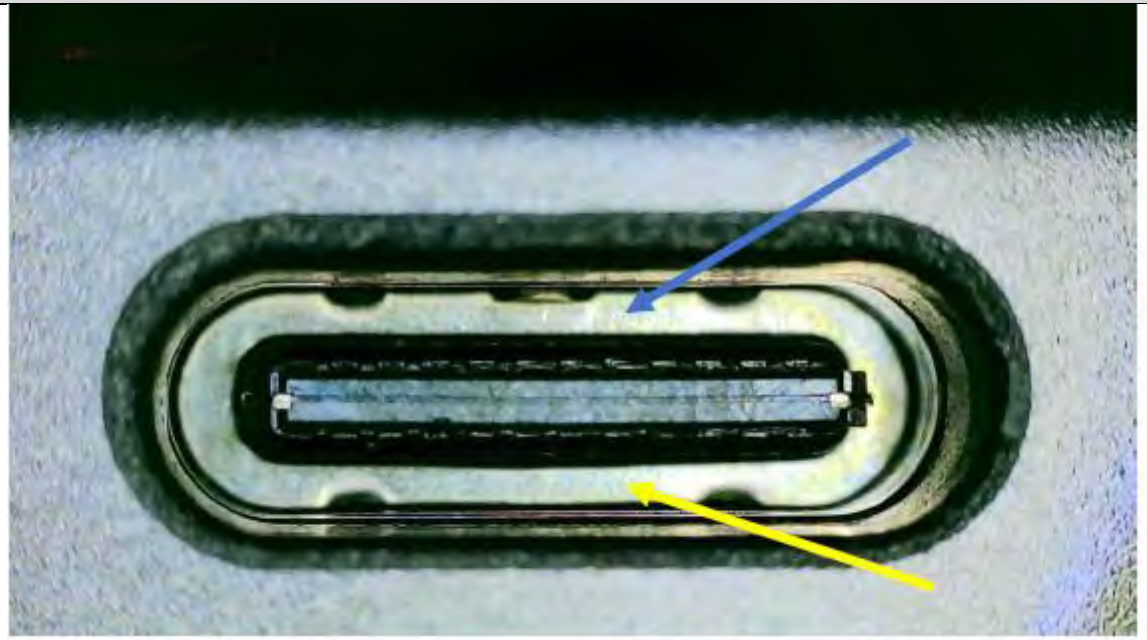
Claim 132 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

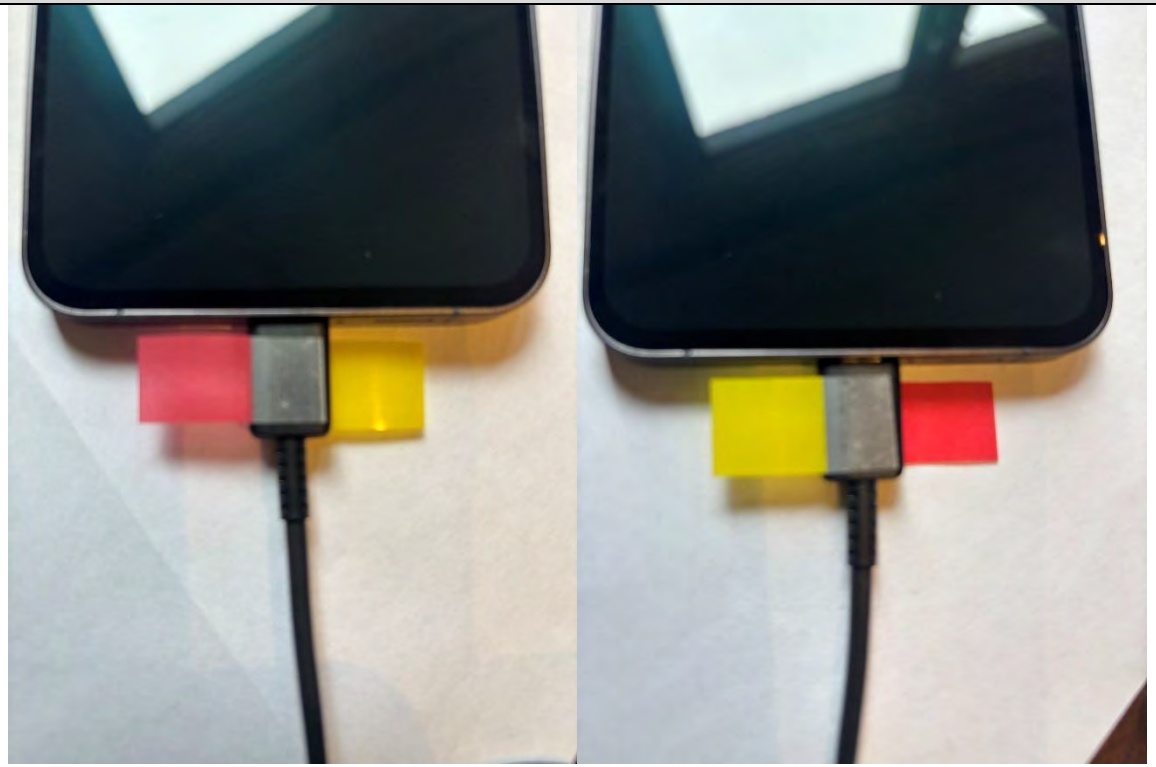
Claim 132 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the second structure of the Samsung S24 FE when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on bottom (second image). *See also* Element [**34E**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

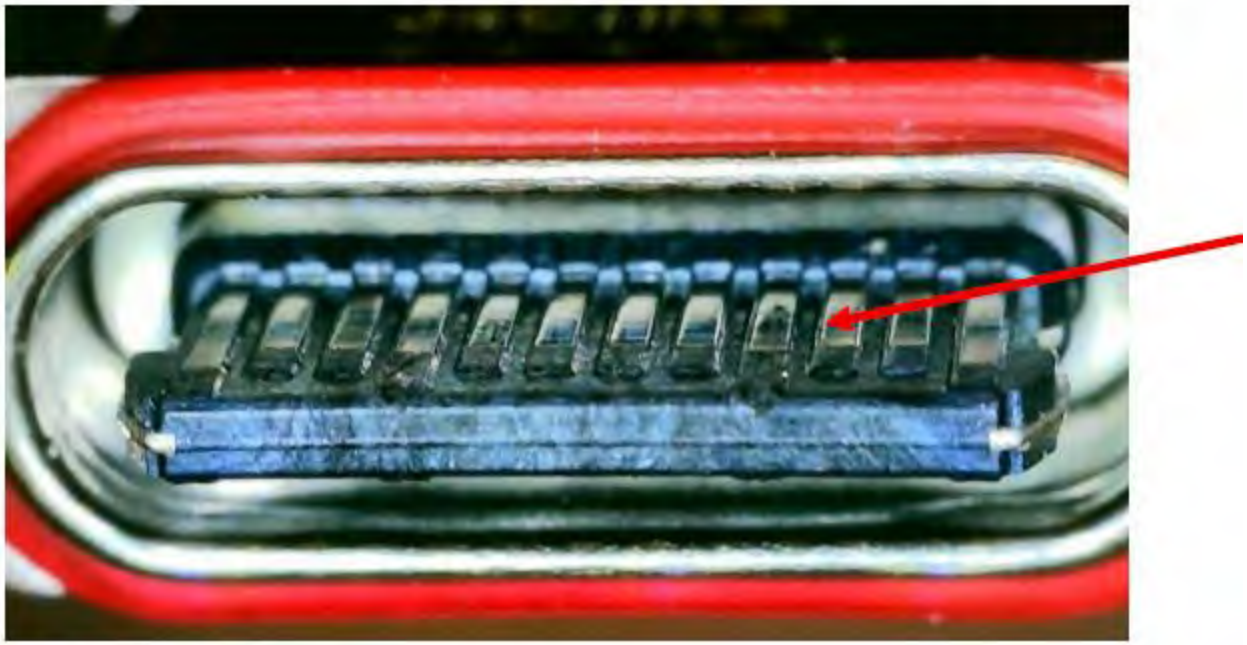
Claim 132 of the '307 Patent	**Evidence of Infringement**
[**132F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a first pin extending out of the plastic base; and	The socket structure of the Samsung S24 FE includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

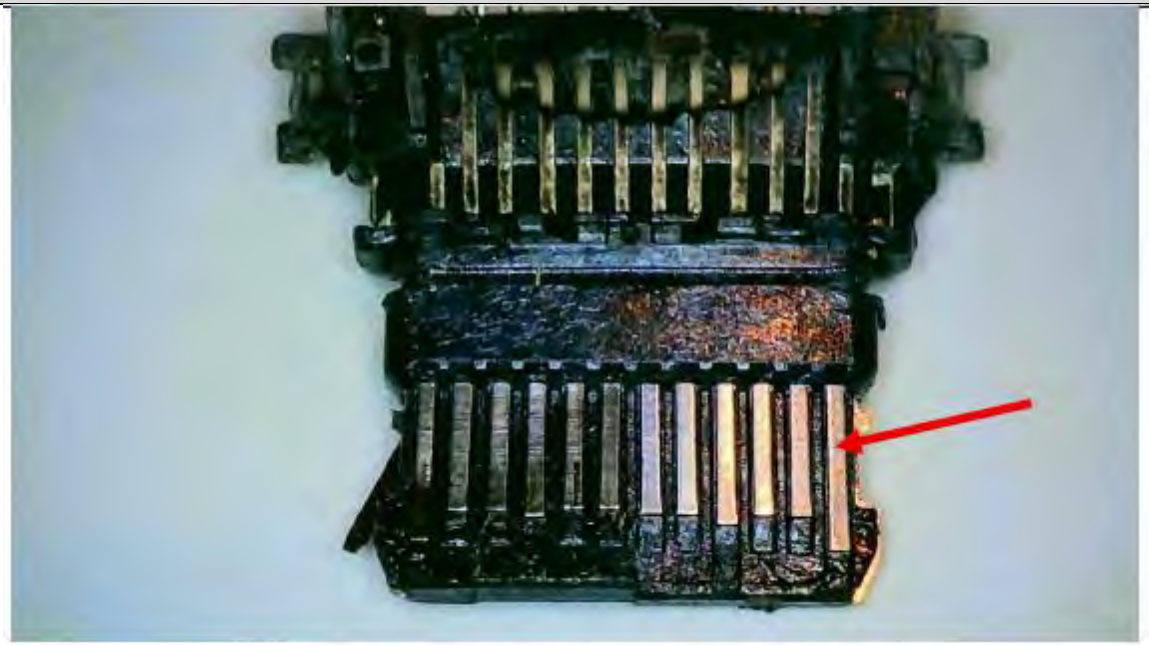
Claim 132 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung S24 FE includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung S24 FE includes two rows of twelve pins extending out of the base. On information and belief, the bottom row of pins corresponds to the first contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 (Image showing underside of socket structure where it connects to PCB.) This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung S24 FE is a USB-C socket and/or compatible with the USB-C cables).

Furthermore, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

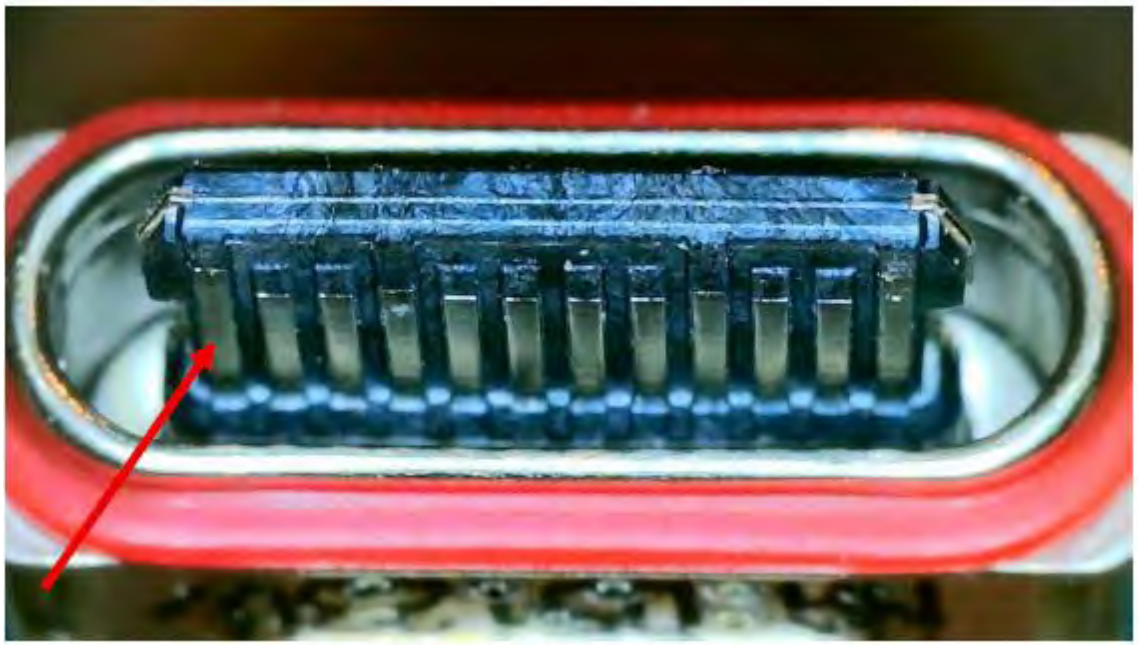
Claim 132 of the '307 Patent	**Evidence of Infringement**
	See also Element [**34F**].
[**132G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung S24 FE includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

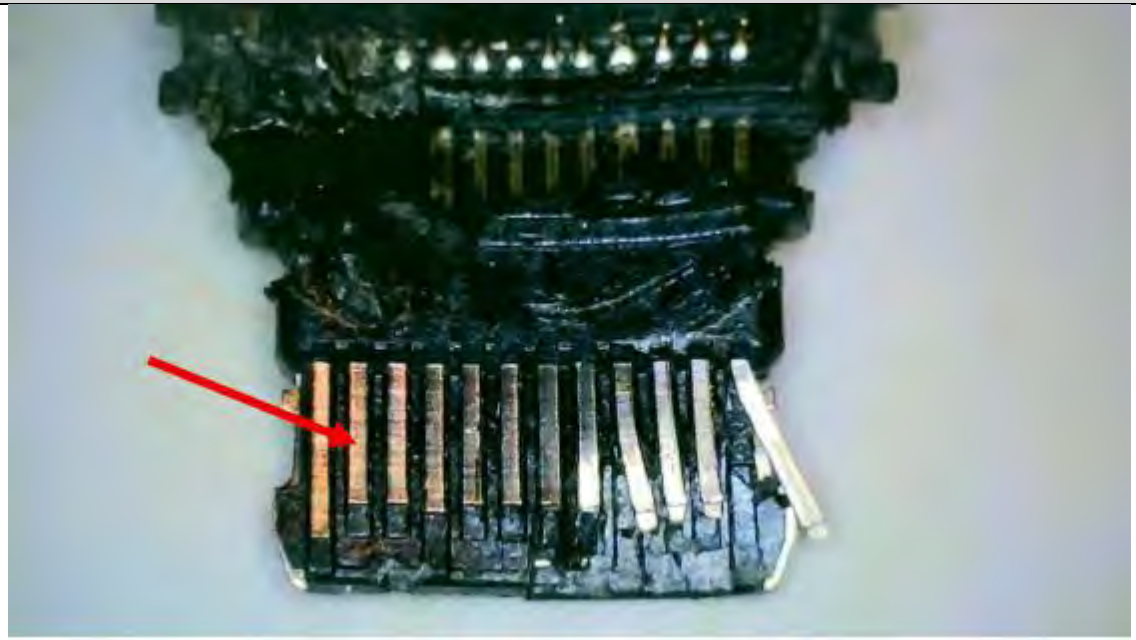
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34G**].
[**132H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. On information and belief, the top row of pins in the image below corresponds to the second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 (Image showing socket structure where it connects to PCB.) In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**132I**] the socket structure is operative to simultaneously electrically connect on the top and the	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect on both sides of the tongue via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

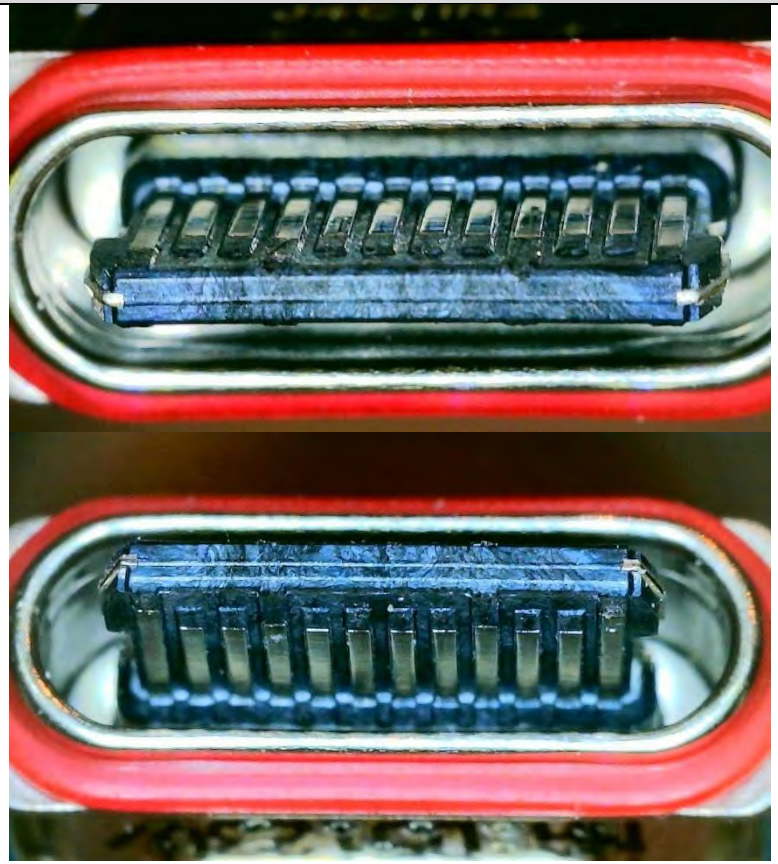
Claim 132 of the '307 Patent	Evidence of Infringement
bottom side of the tongue;	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

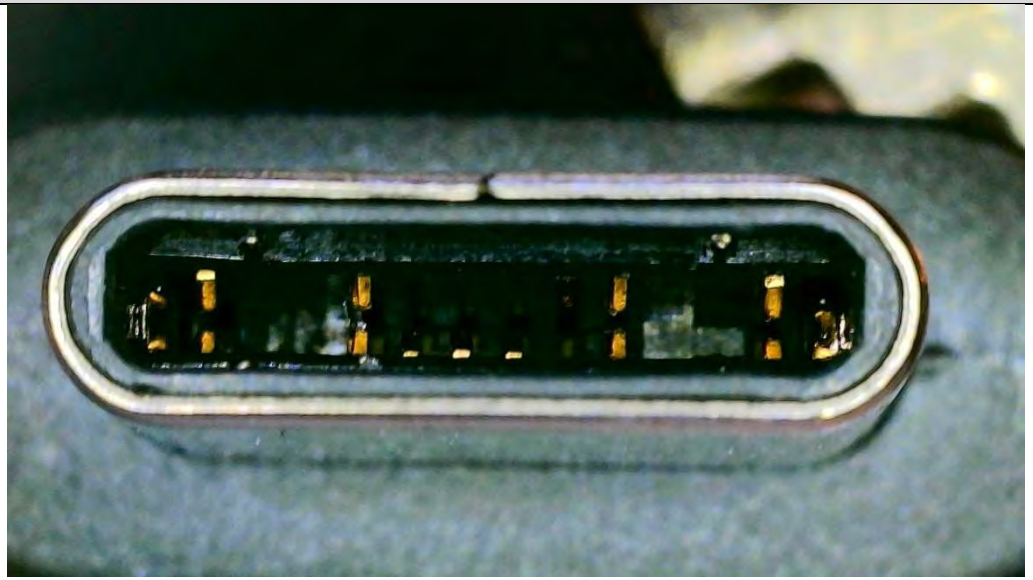
Claim 132 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Elements [**34I**], [**56I**].
[**132J**] the at least one row of first contacts	The first row of contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

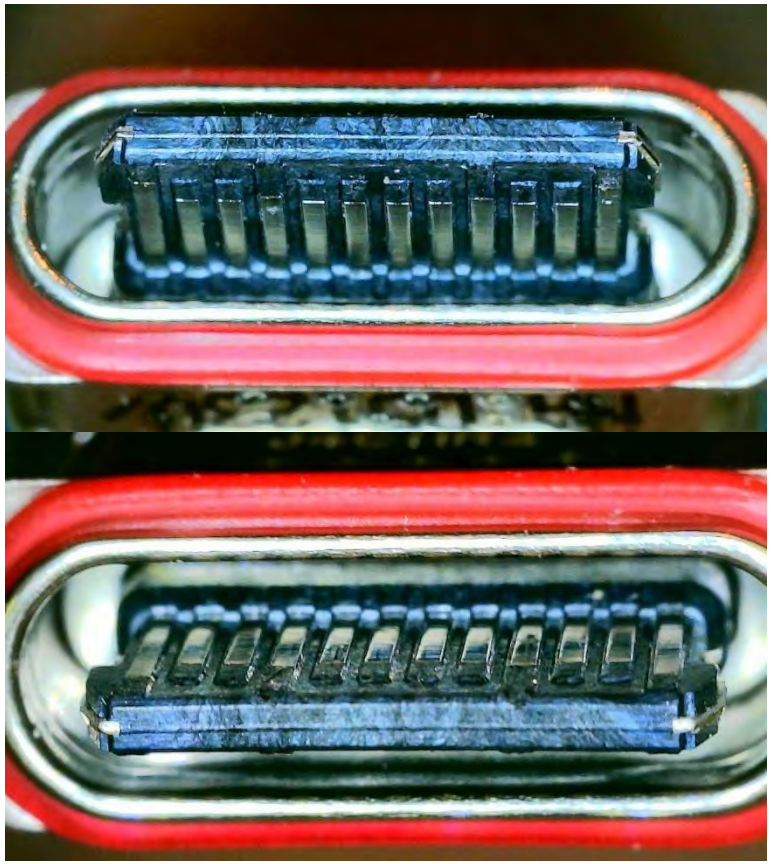
Claim 132 of the '307 Patent	**Evidence of Infringement**
has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for reversable connection such that:	 In addition, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured for reversable connection, as described below in connection with elements [**132K**] through [**132L**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

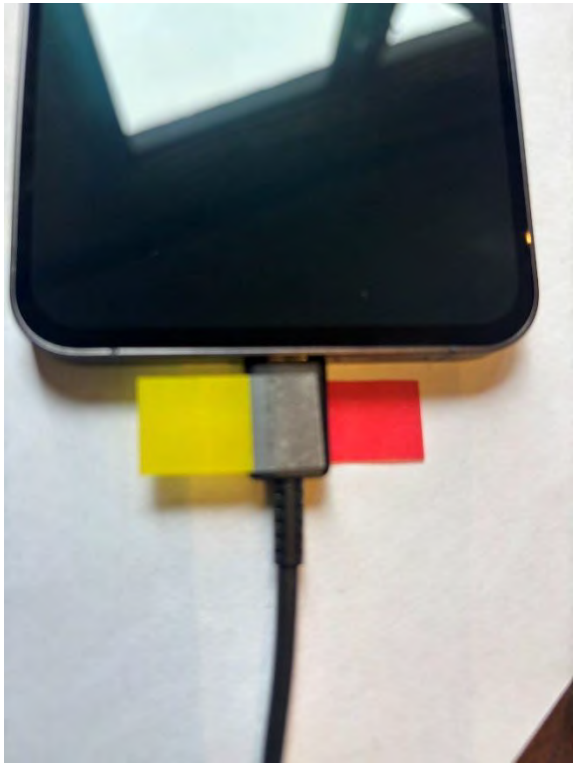
Claim 132 of the '307 Patent	**Evidence of Infringement**
[**132K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung S24 FE is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug faces the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extending inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

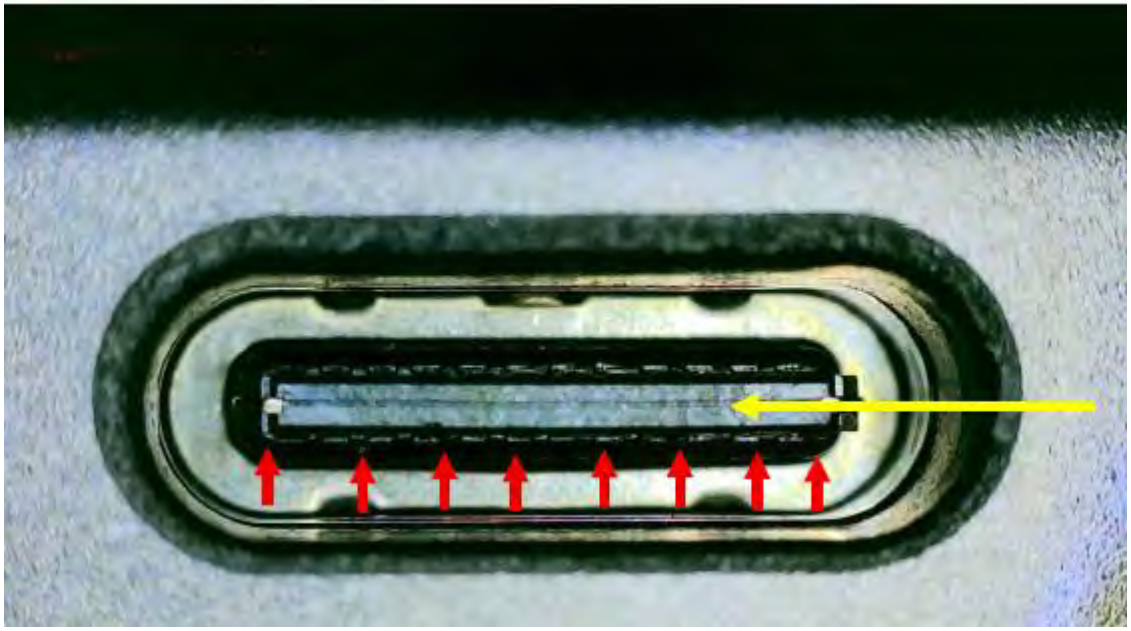
Claim 132 of the '307 Patent	Evidence of Infringement
	bottom surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

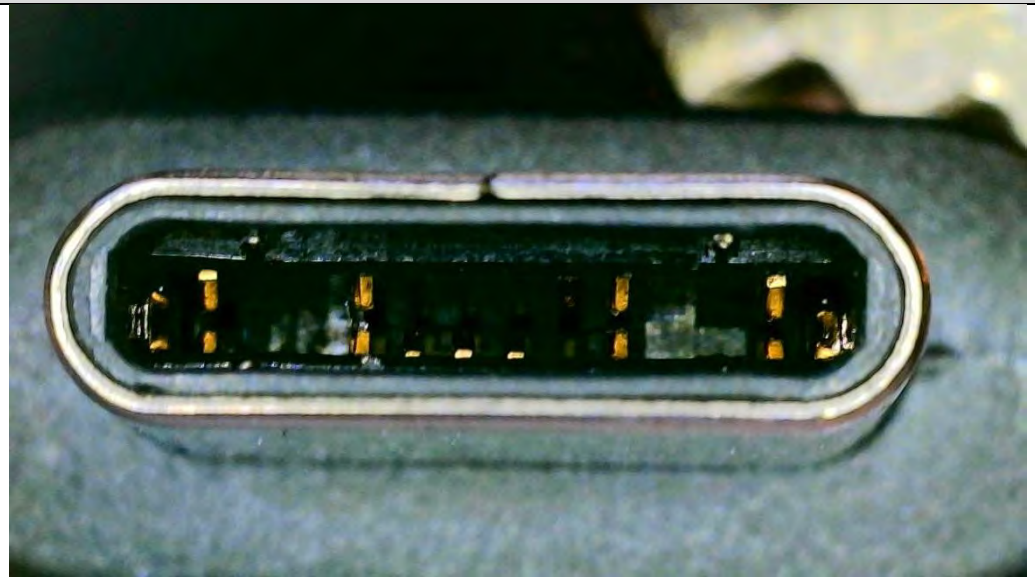
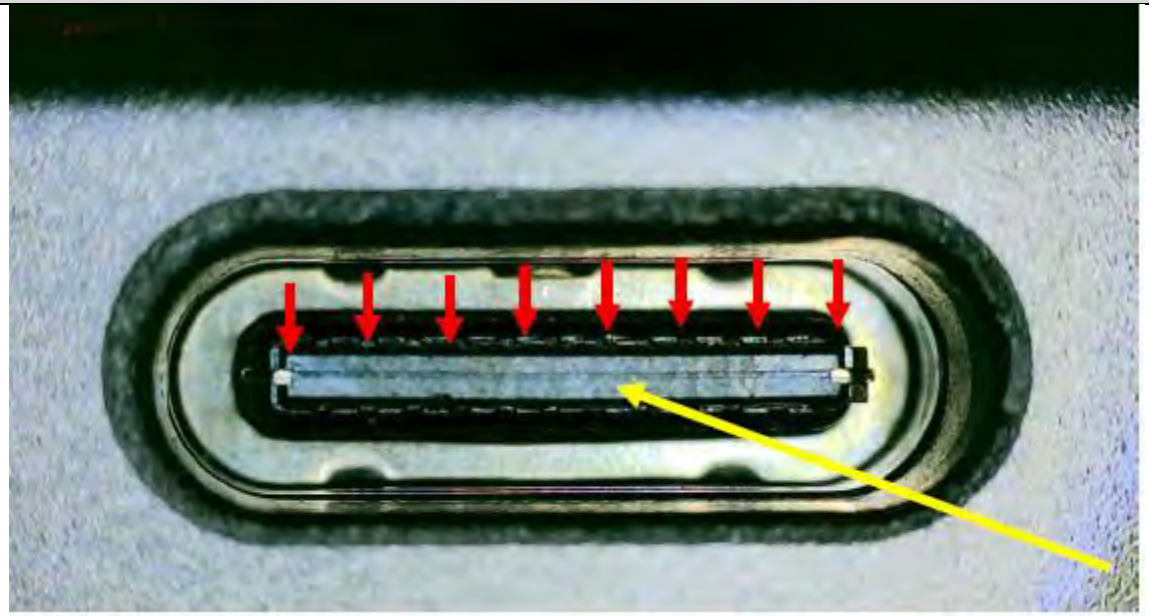
Claim 132 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**132L**] when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals	The Samsung S24 FE is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
of the plug are electrically connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extending inward from the plug face marked with the red flag so as to electrically connection with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].

Samsung, EX1004, p. 1342

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	**Evidence of Infringement**
[**133A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung S24 FE is a phone that includes a socket structure with duplex electrical connection. In particular, the Samsung S24 FE provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025). The socket on the Samsung S24 FE is a USB-C socket.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

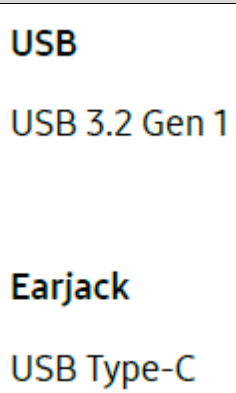
Claim 133 of the '307 Patent	Evidence of Infringement
	 *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones**: Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones**: S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones**: Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones**: A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones**: Galaxy XCover6 Pro • **Galaxy S tablets**: Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets**: Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung S24 FE is packaged with and capable of connecting to a USB-C cable.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	

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Claim 133 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

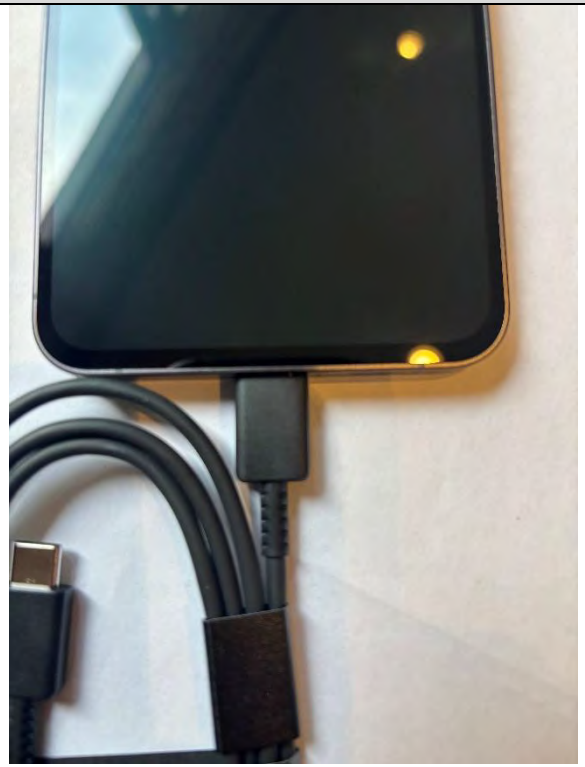
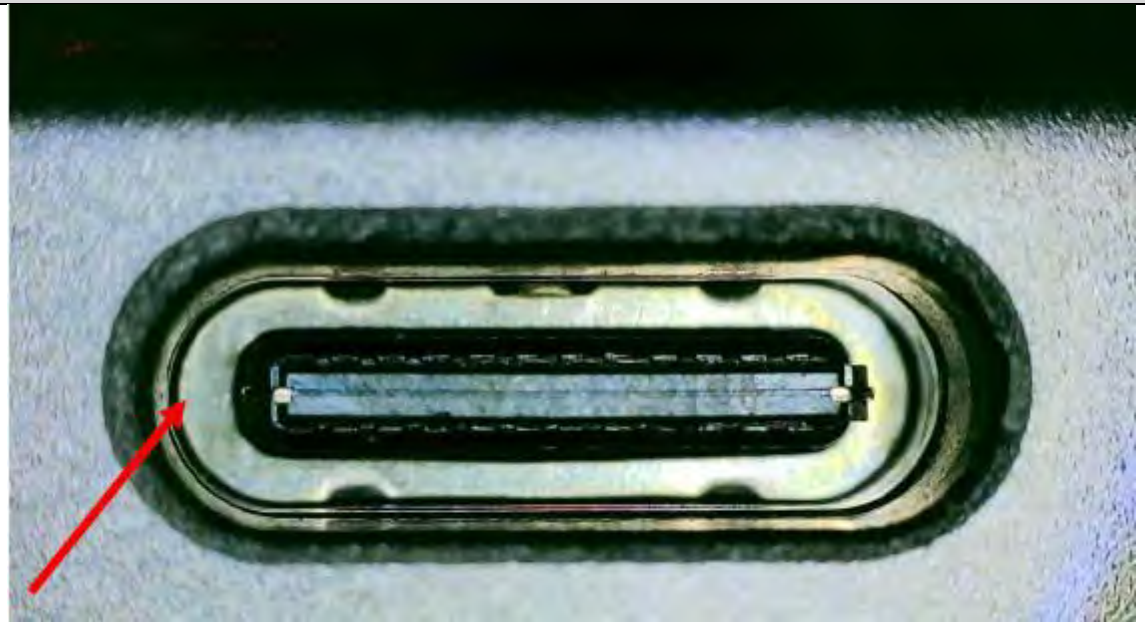
Claim 133 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**133B**] through [**133N**].
[**133B**] a plastic base;	The socket structure of the Samsung S24 FE includes a plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1350

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

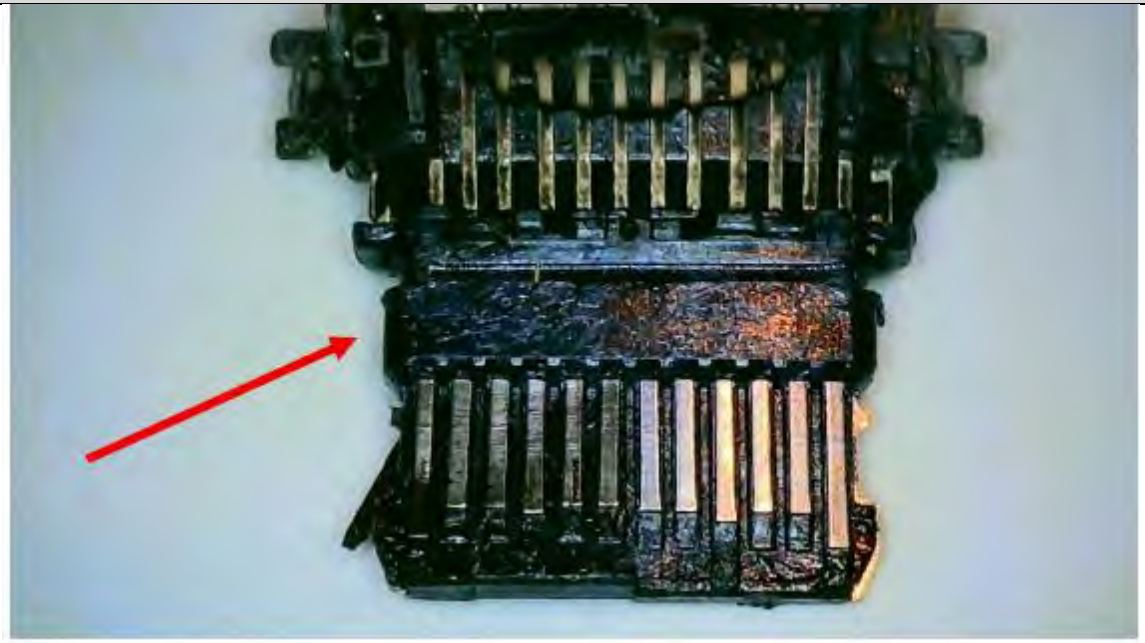
Claim 133 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34B**].
[**133C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung S24 FE includes a connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

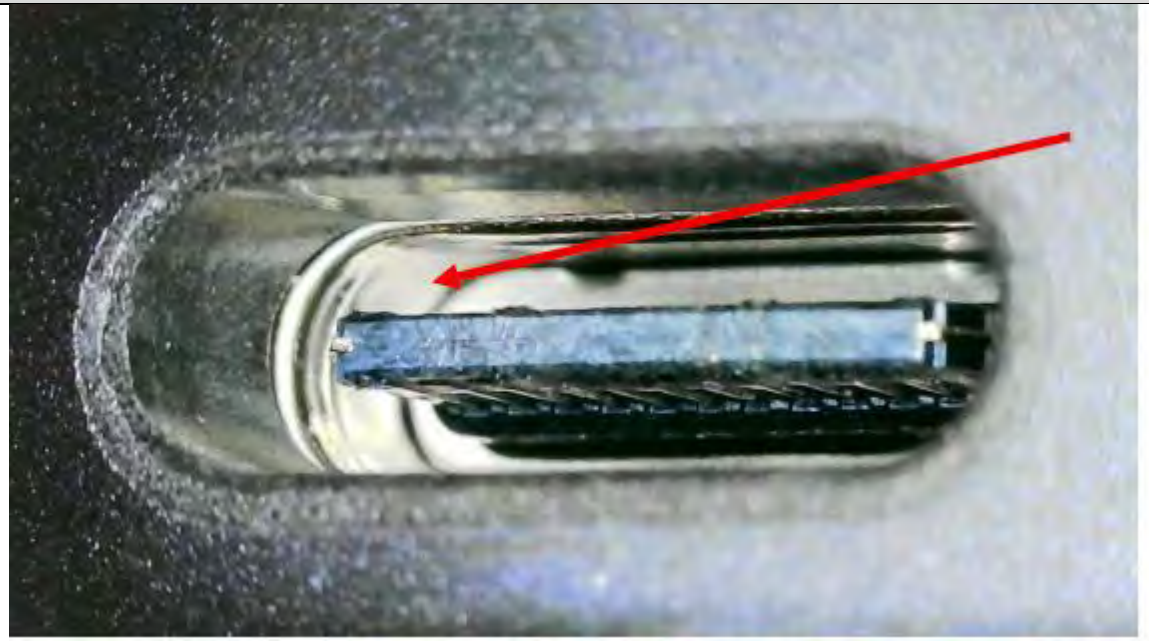
Claim 133 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

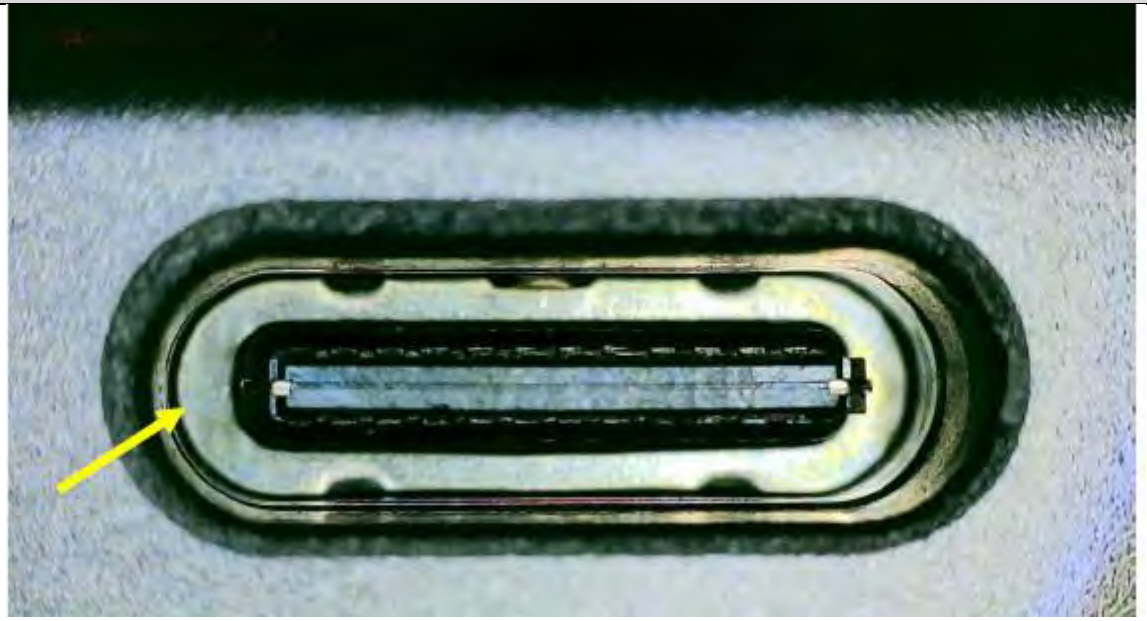
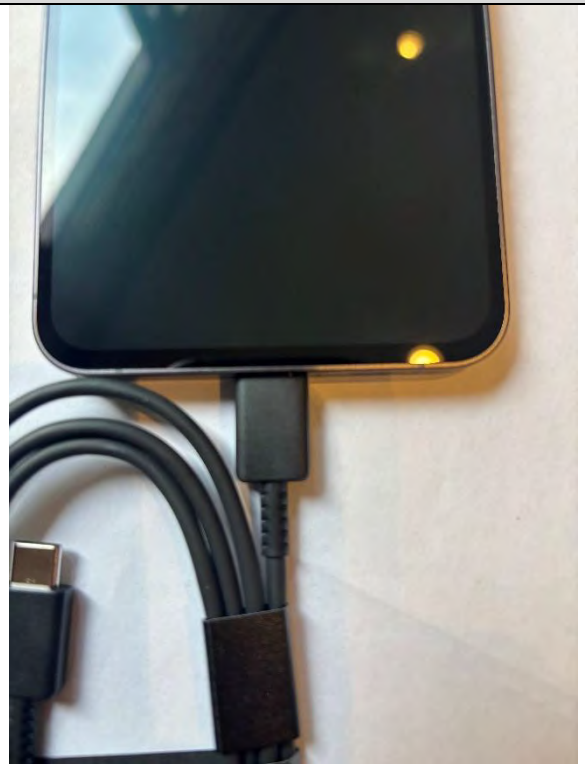
Claim 133 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung S24 FE, as described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

Samsung, EX1004, p. 1354

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

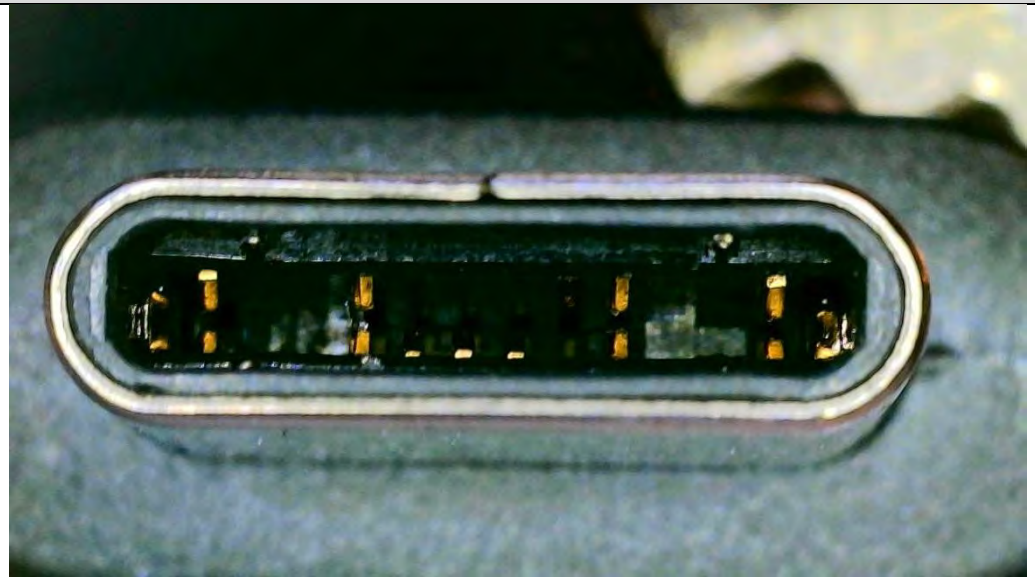
Claim 133 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**133D**] a tongue, which has a first surface with recesses, and a second surface with recesses, the second surface disposed opposite the first surface,	The socket structure of the Samsung S24 FE includes a tongue.

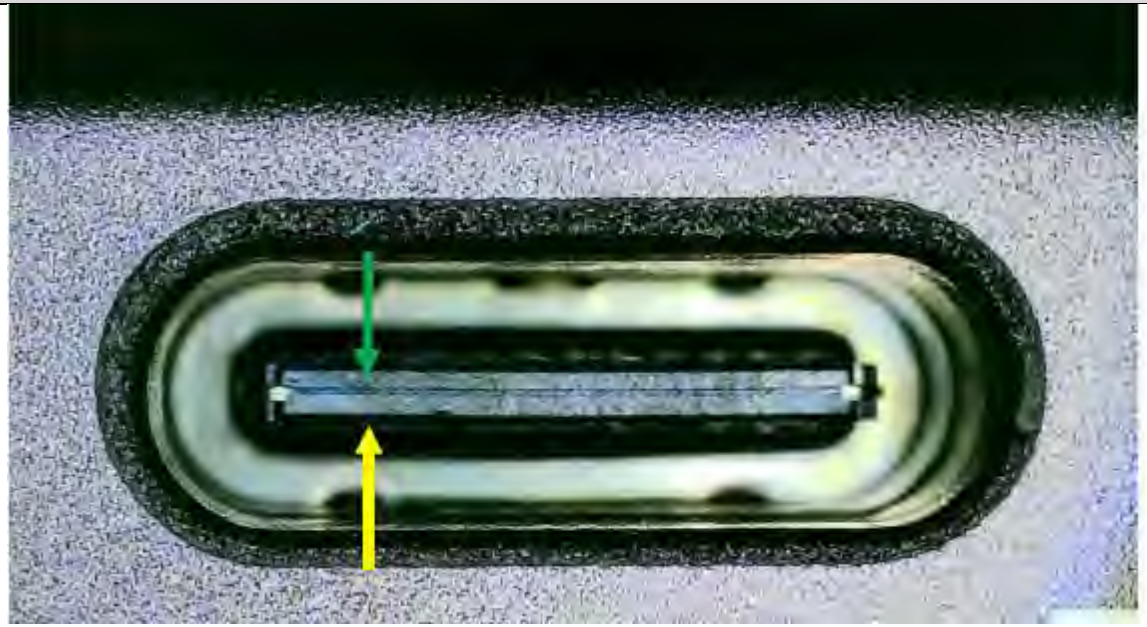
EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has recesses.

Samsung, EX1004, p. 1358

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

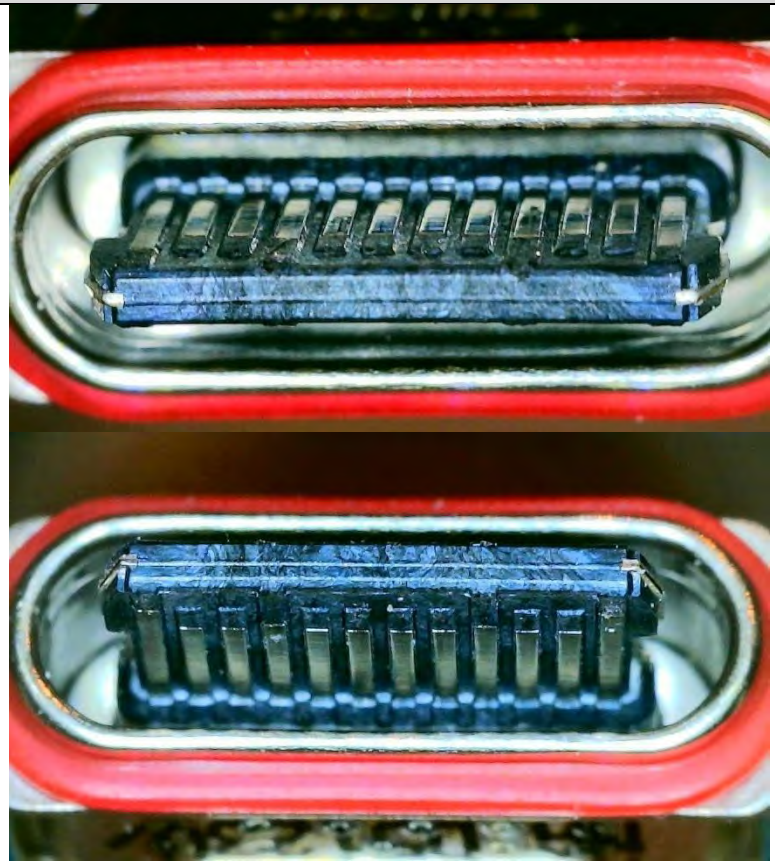
Claim 133 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**130D**].
[**133E**] the tongue being disposed on one end of the plastic base and within the	The tongue of the Samsung S24 FE (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

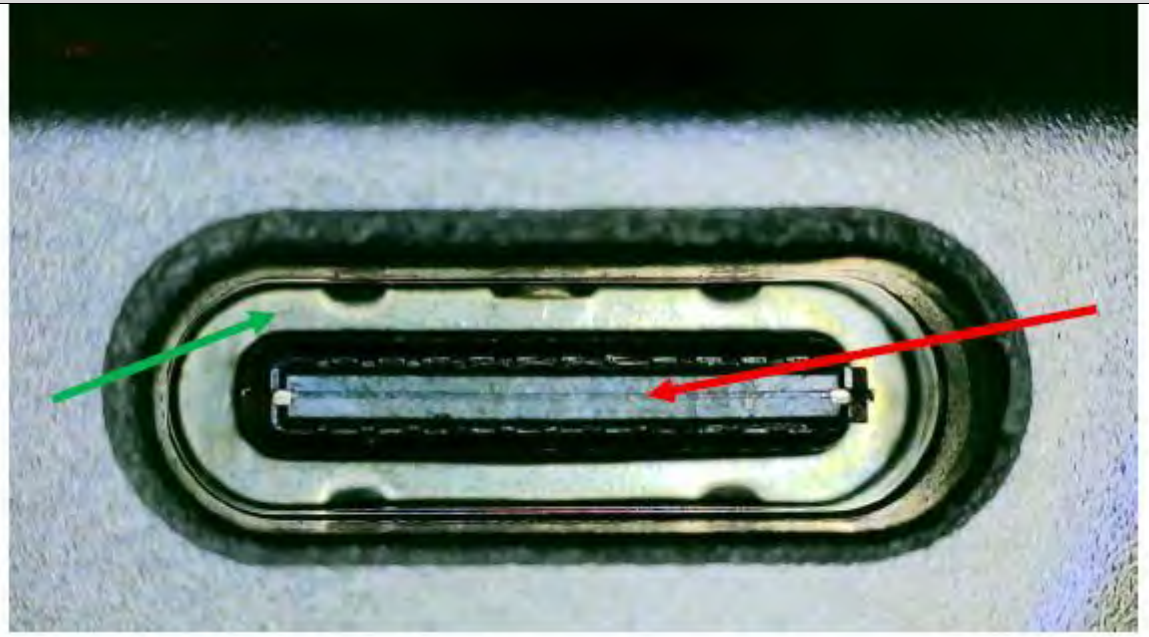
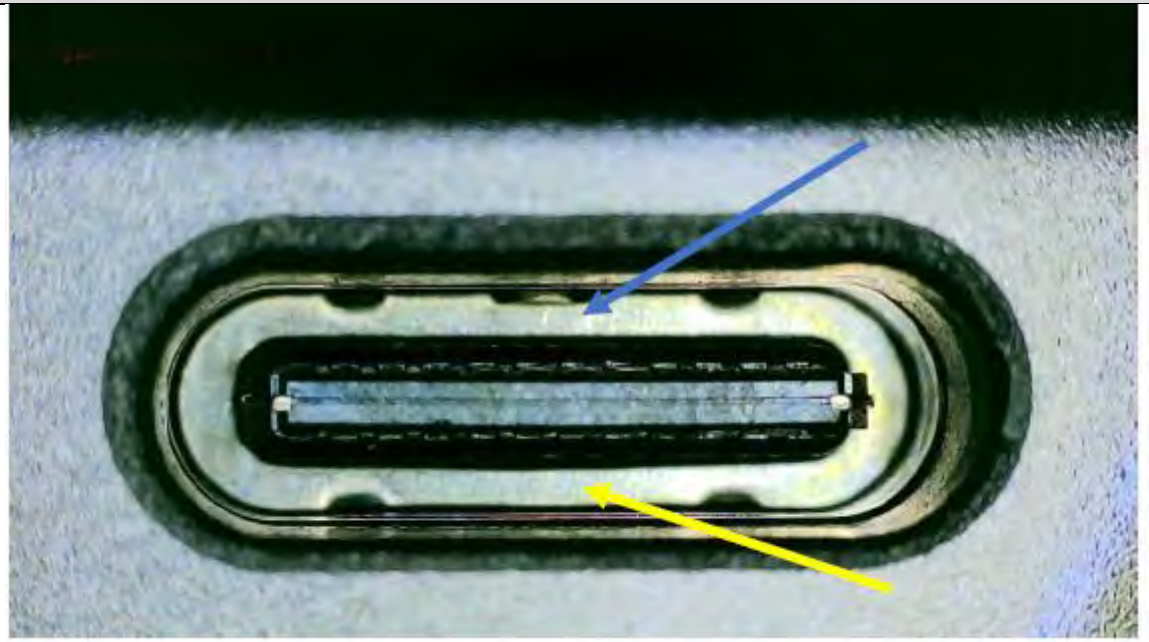
Claim 133 of the '307 Patent	Evidence of Infringement
connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by a blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

Samsung, EX1004, p. 1362

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

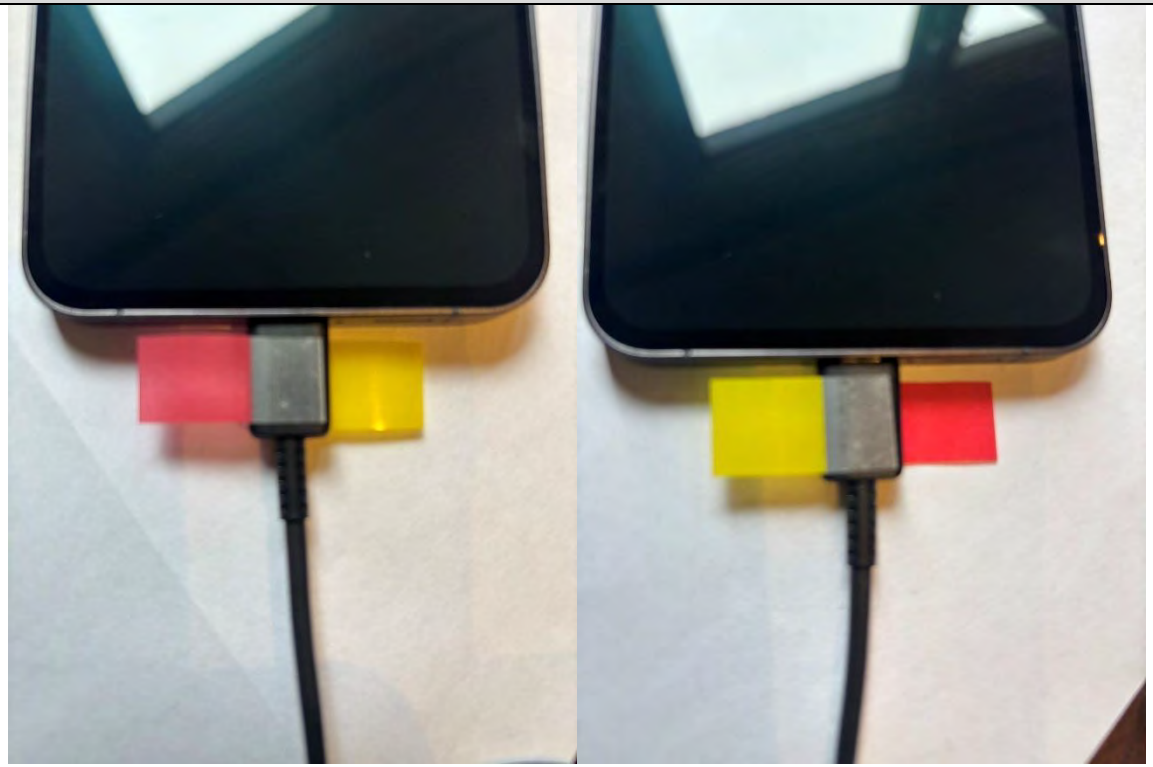
Claim 133 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the second structure of the Samsung S24 FE when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on bottom (second image). *See also* Element [**34E**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

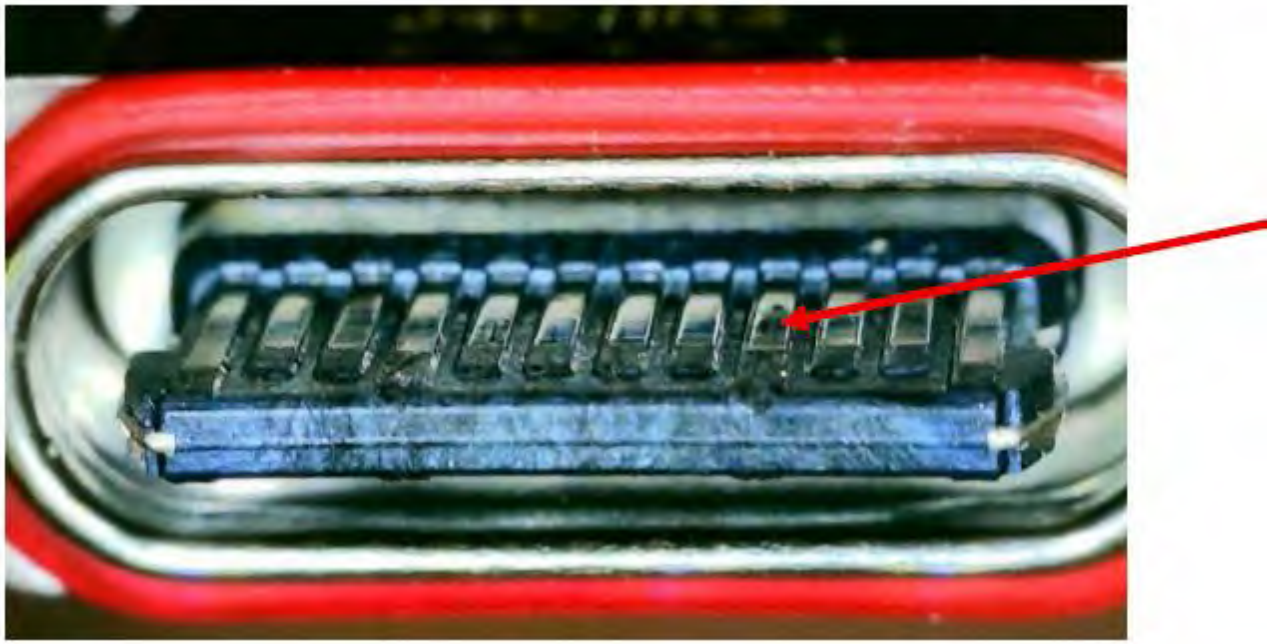
Claim 133 of the '307 Patent	**Evidence of Infringement**
[**133F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin extending out of the plastic base; and	The socket structure of the Samsung S24 FE includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

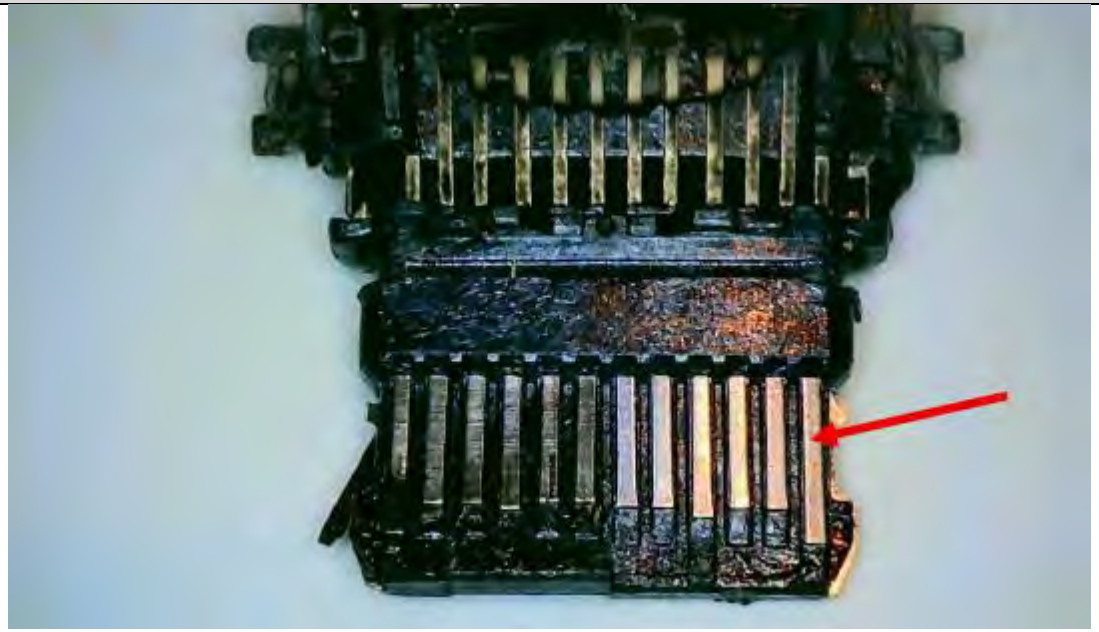
Claim 133 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung S24 FE includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung S24 FE includes two rows of twelve pins extending out of the base. On information and belief, the bottom row of pins corresponds to the first contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image showing underside of socket structure where it connects to PCB.) This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung S24 FE is a USB-C socket and/or compatible with the USB-C cables).

Furthermore, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

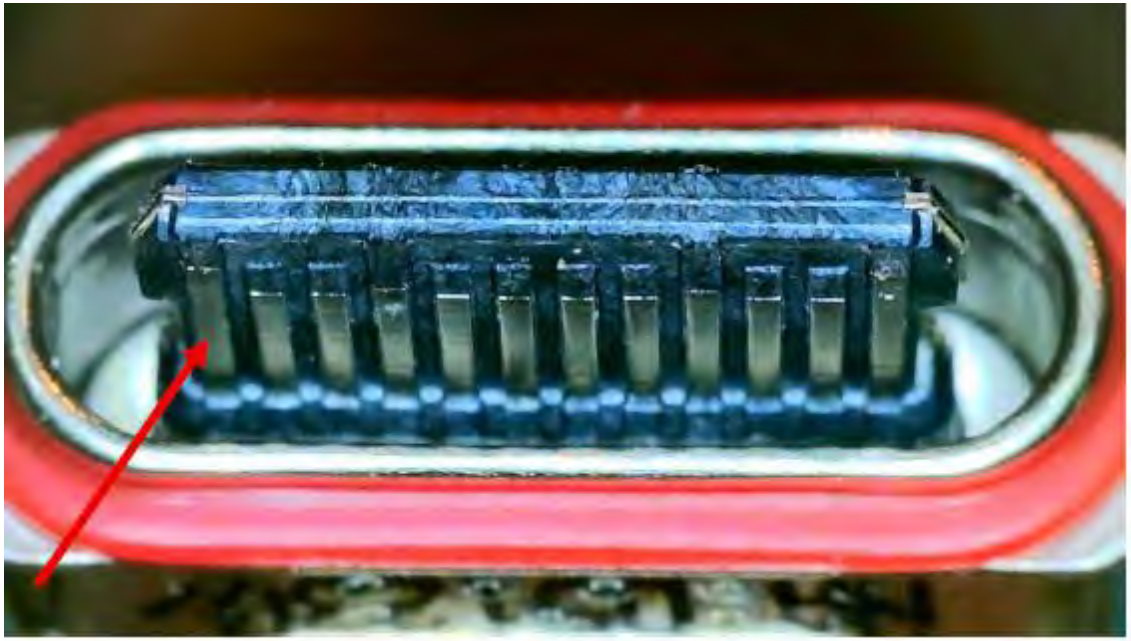
Claim 133 of the '307 Patent	**Evidence of Infringement**
	See also Element [**34F**].
[**133G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung S24 FE includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

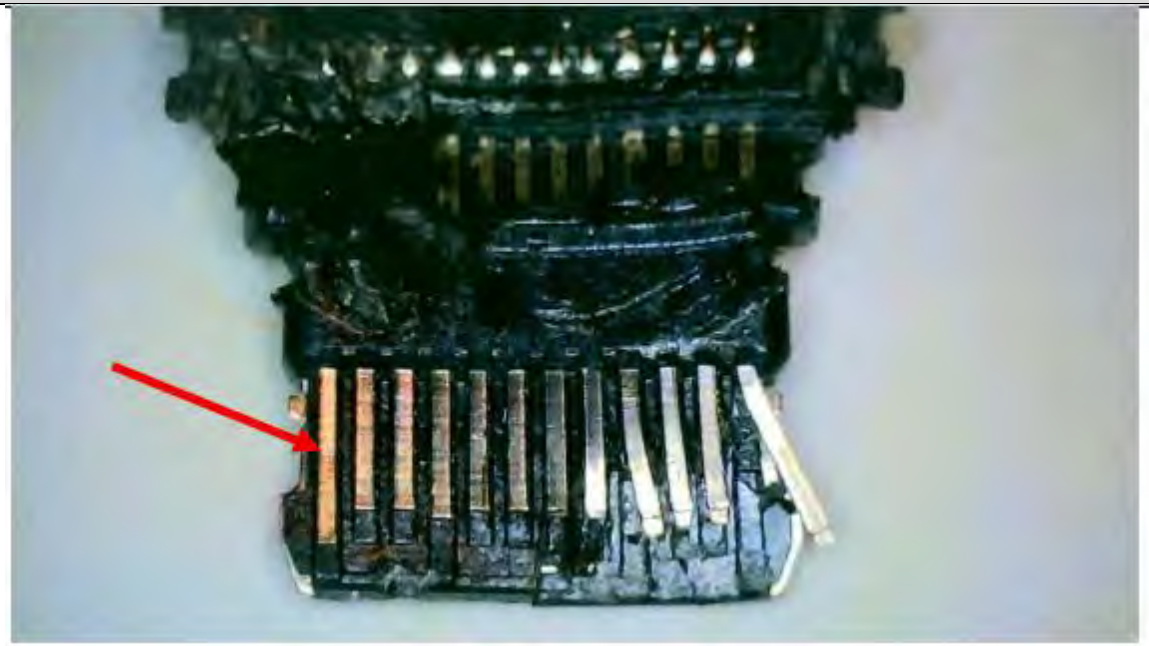
Claim 133 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34G**].
[**133H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. On information and belief, the top row of pins in the image below corresponds to the second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image showing socket structure where it connects to PCB.) In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**133I**] the socket structure is operative to simultaneously electrically connect	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

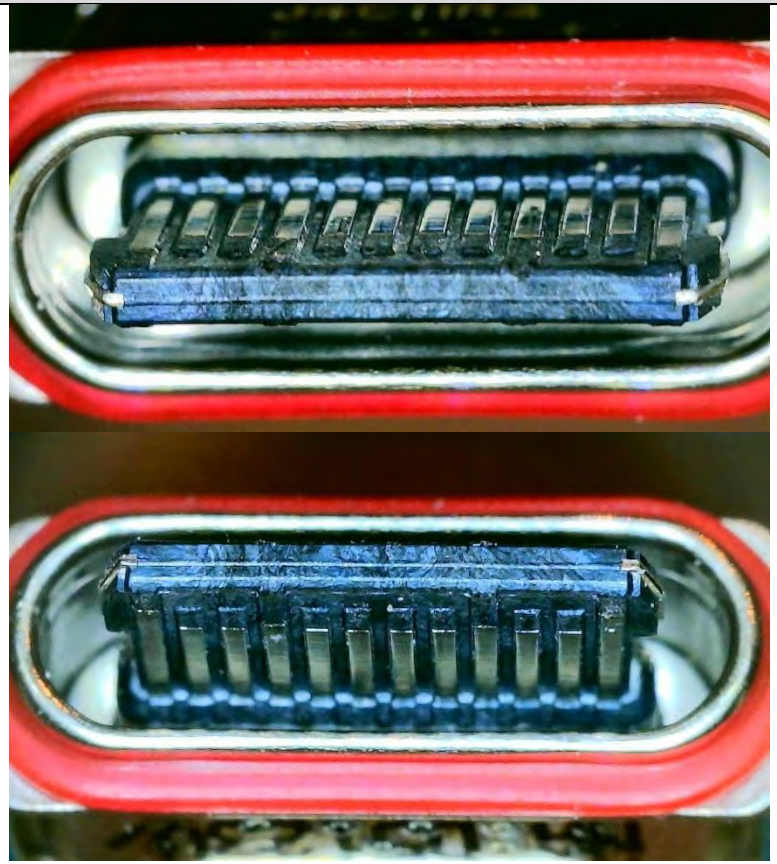
Claim 133 of the '307 Patent	Evidence of Infringement
via the first and second contacts;	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

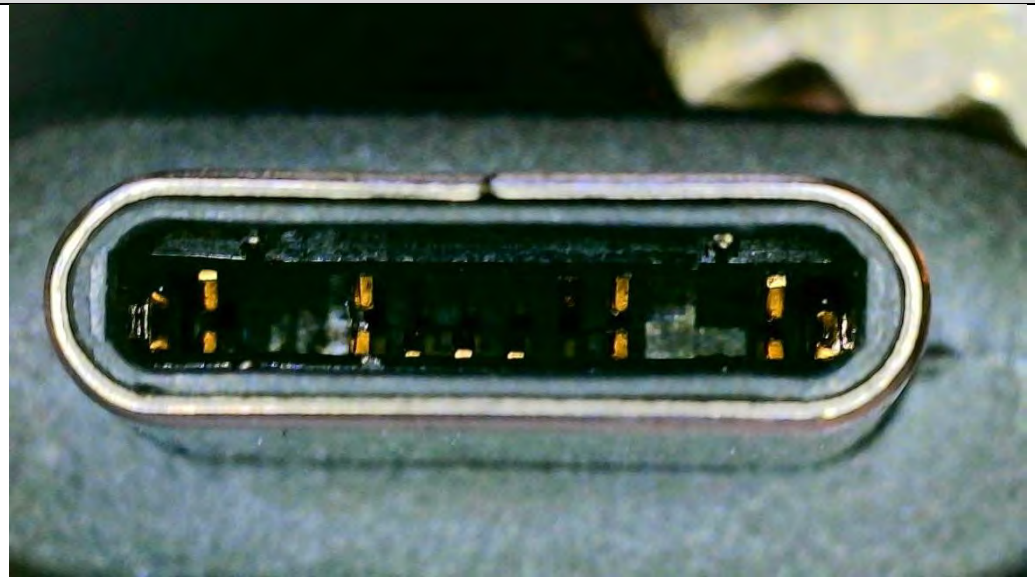
Claim 133 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**133J**] some of the at least one row of first contacts has a	The first row of contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

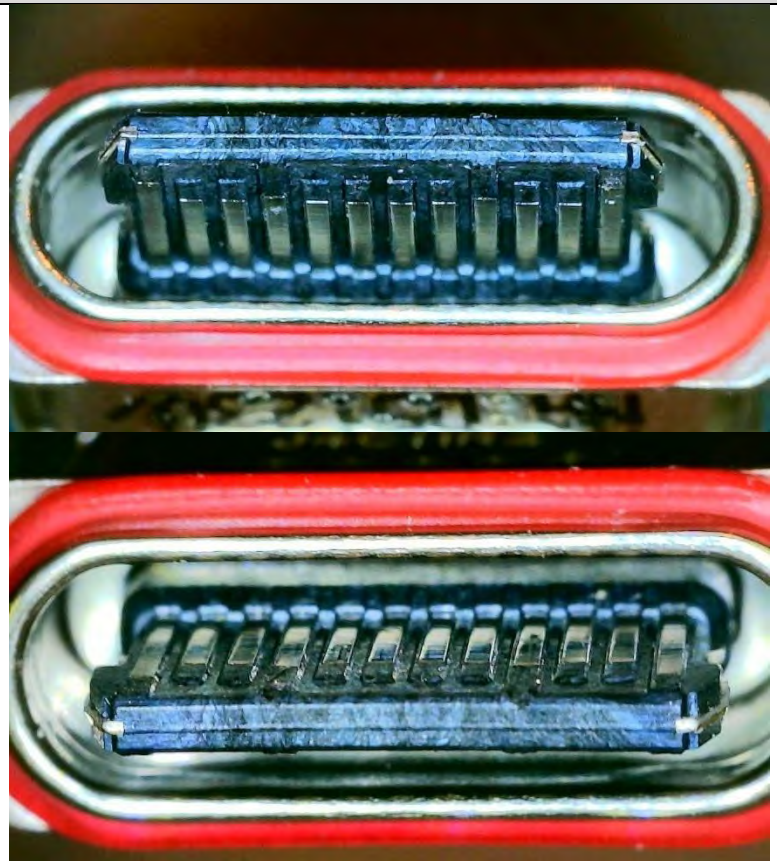
Claim 133 of the '307 Patent	**Evidence of Infringement**
functional reverse mirror configuration relative to some of the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	 In addition, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**133K**] through [**133N**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

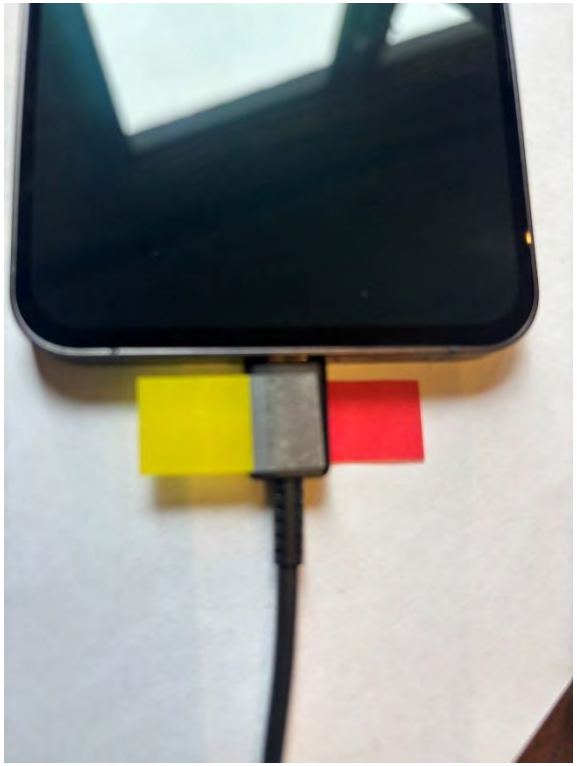
Claim 133 of the '307 Patent	Evidence of Infringement
[**133K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed within the connection slot,	The Samsung S24 FE is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug faces the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extending inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

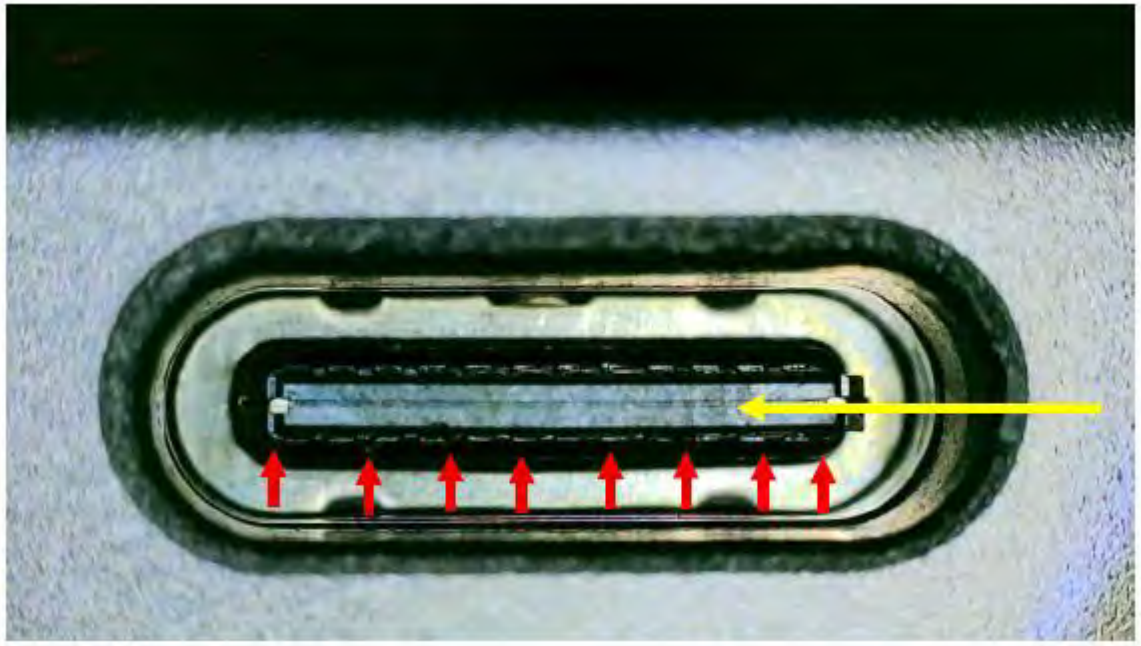
Claim 133 of the '307 Patent	Evidence of Infringement
	bottom surface of the tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

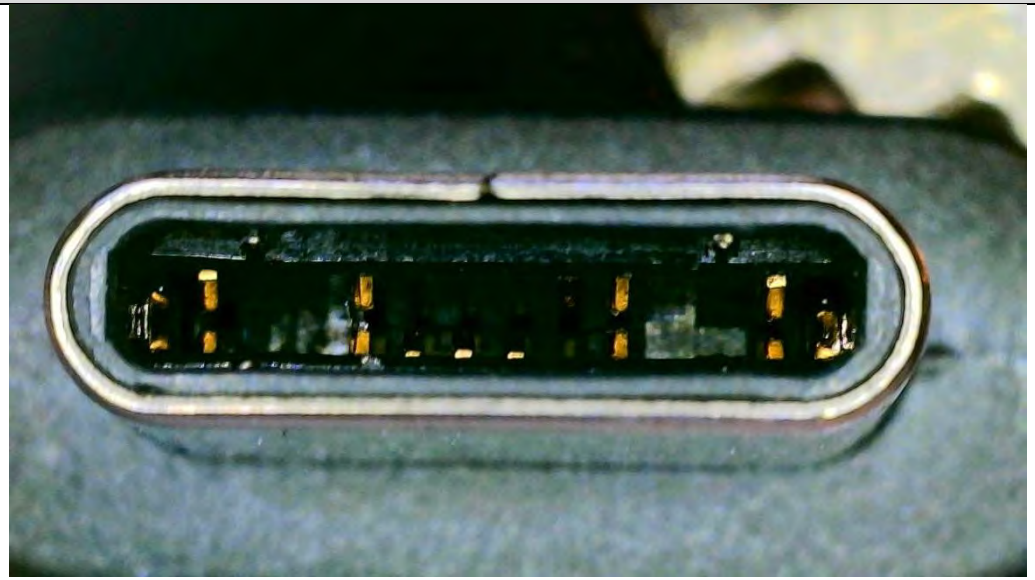
Claim 133 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**133L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The Samsung S24 FE is configured for a first operational state as described above in connection with element [**133K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

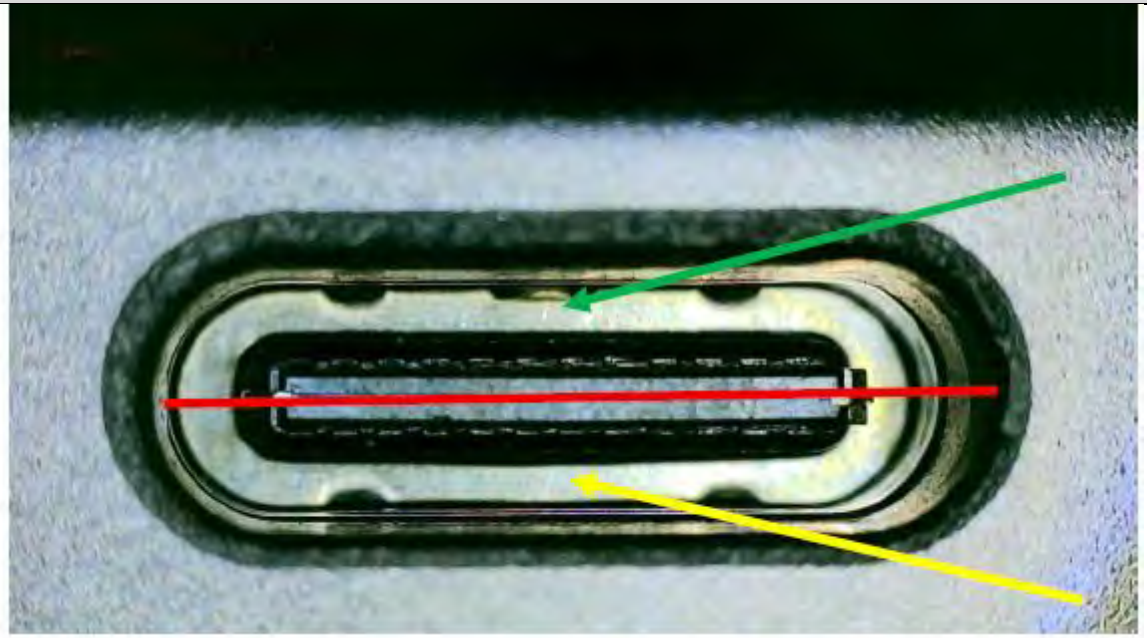
Claim 133 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows respectively, in the image below.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

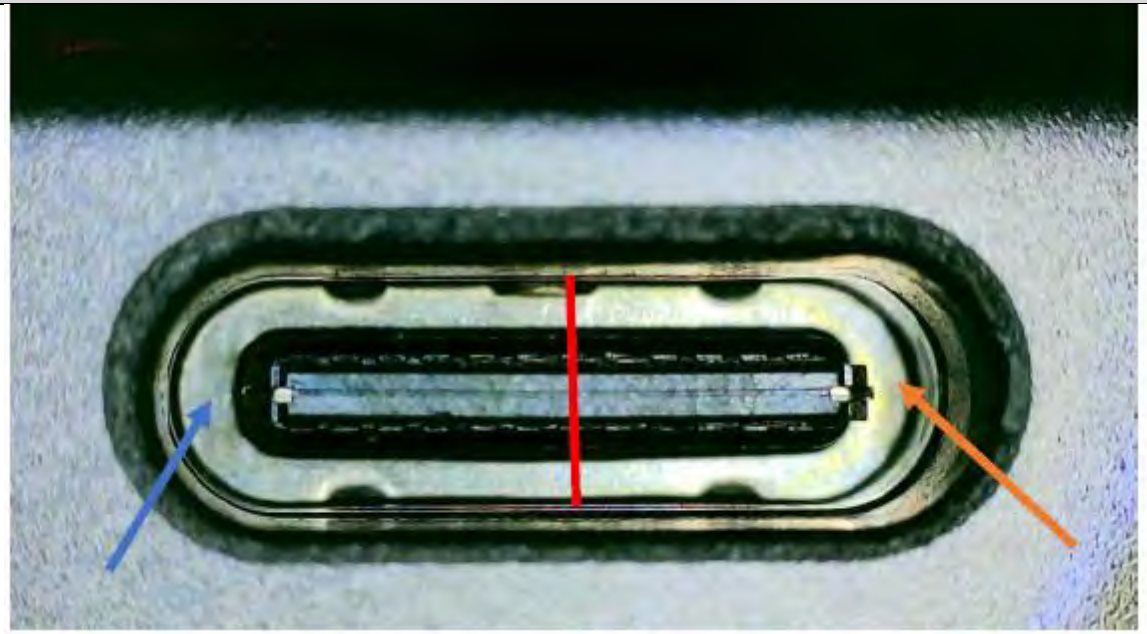
Claim 133 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**].
[**133M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the	The Samsung S24 FE is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extending inward from the plug face marked with the red flag so as to electrically connection with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

Samsung, EX1004, p. 1382

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

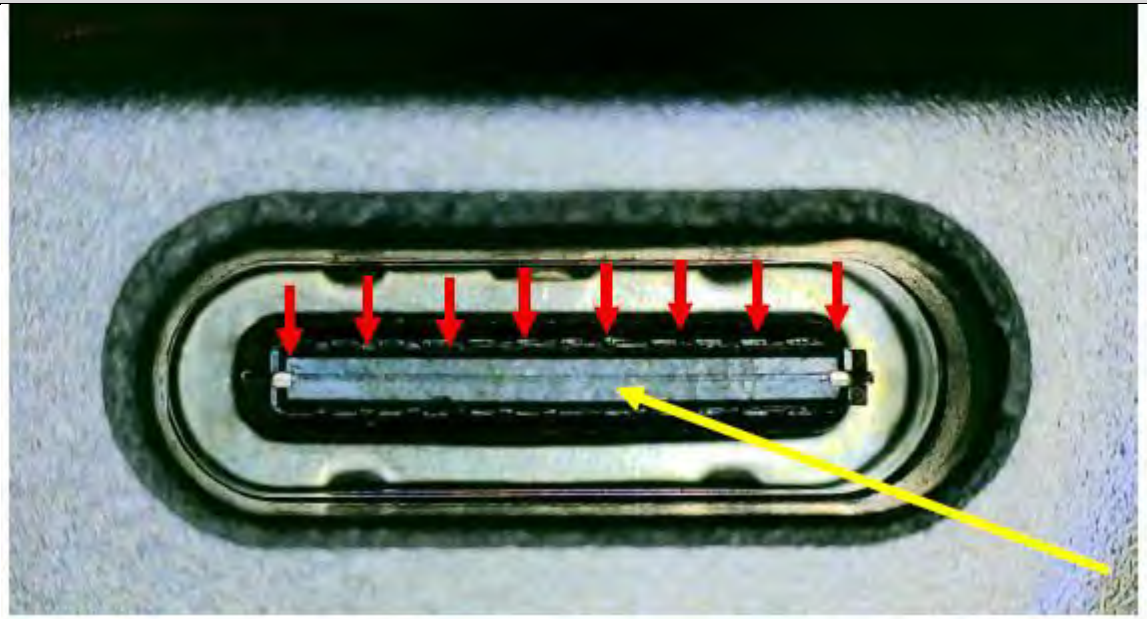
Claim 133 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].
[**133N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**133L**]. *See also* Element [**34N**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	**Evidence of Infringement**
[**134A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung S24 FE is a phone that includes a socket structure with duplex electrical connection. In particular, the Samsung S24 FE provides duplex electrical connection via a USB port.  *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025). The socket on the Samsung S24 FE is a USB-C socket.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	USB USB 3.2 Gen 1 **Earjack** USB Type-C *See* https://www.samsung.com/us/smartphones/galaxy-s24-fe/buy/galaxy-s24-fe-128gb-unlocked-sm-s721uzkaxaa/ (accessed April 22, 2025).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.)

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	Devices that use USB Type C • **Galaxy Z phones:** Z Fold, Z Fold2, Z Fold3, Z Fold4, Z Fold 5, Z Fold6, Z Flip, Z Flip 5G, Z Flip3 5G, Z Flip4, Z Flip5, Z Flip6 • **Galaxy S phones:** S8, S8+, S9, S9+, S10e, S10, S10+, S10 5G, S20 FE, S20 5G, S20+ 5G, S20 Ultra 5G, S21 FE 5G, S21 5G, S21+ 5G, S21 Ultra 5G, S22, S22+, S22 Ultra, S23 FE, S23, S23+, S23 Ultra, S24, S24+, S24 Ultra, S24 FE, S25, S25+, and S25 Ultra • **Galaxy Note phones:** Note8, Note9, Note10, Note10+, Note10+ 5G, Note 20 5G, Note20 Ultra 5G • **Galaxy A phones:** A01, A02, A03s, A10e, A11, A12, A13, A13 5G, A14 5G, A15 5G, A16 5G, A20, A21, A23 5G, A25 5G, A26 5G, A32 5G, A35, A36 5G, A42 5G, A50, A51, A52 5G, A53 5G, A54 5G, and A71 • **Galaxy XCover phones:** Galaxy XCover6 Pro • **Galaxy S tablets:** Tab S3, Tab S4, Tab S5e, Tab S6, Tab S7, TabS7+, Tab S8, Tab S9, Tab S9 FE, Tab S9+, Tab S9 FE+, Tab S9 Ultra, Tab S10 FE, and Tab S10 FE+ • **Galaxy A tablets:** Tab A9+, Tab A 10.1 (2019-2020), Tab A 10.5 (2019), Tab A 8.0 (2016-2019), Tab A 8.4 (2020), Tab A7 (2020), Tab A7 Lite (2021), Tab A 8 (2022) *See* https://www.samsung.com/us/support/answer/ANS10001612/ (accessed June 25, 2025). Indeed, the Samsung S24 FE is packaged with and capable of connecting to a USB-C cable.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

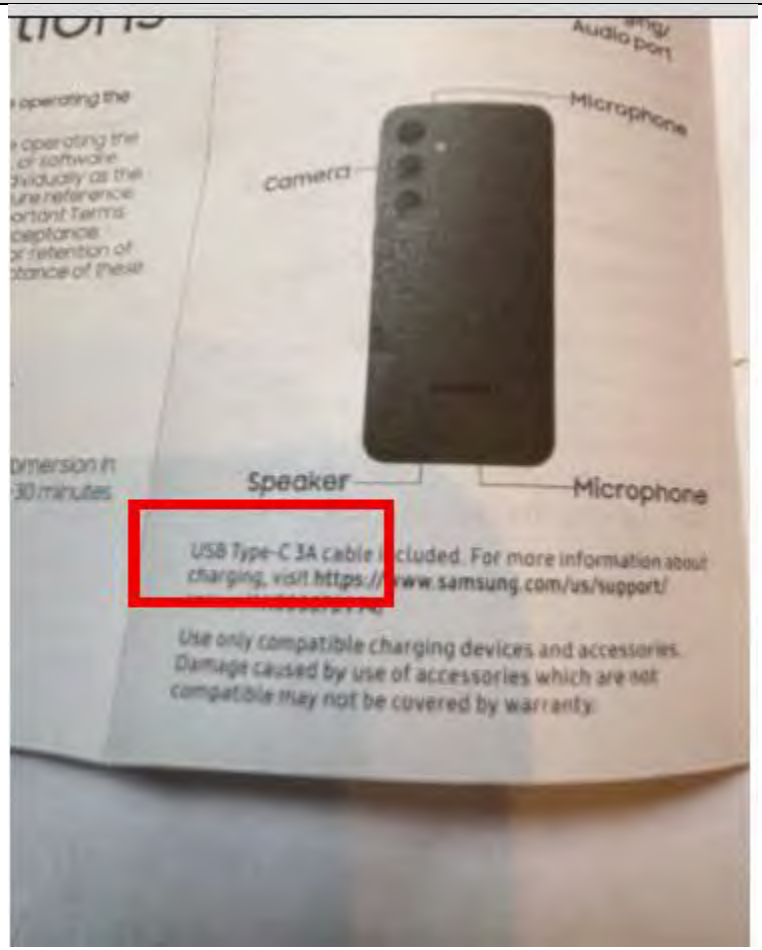
Claim 134 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

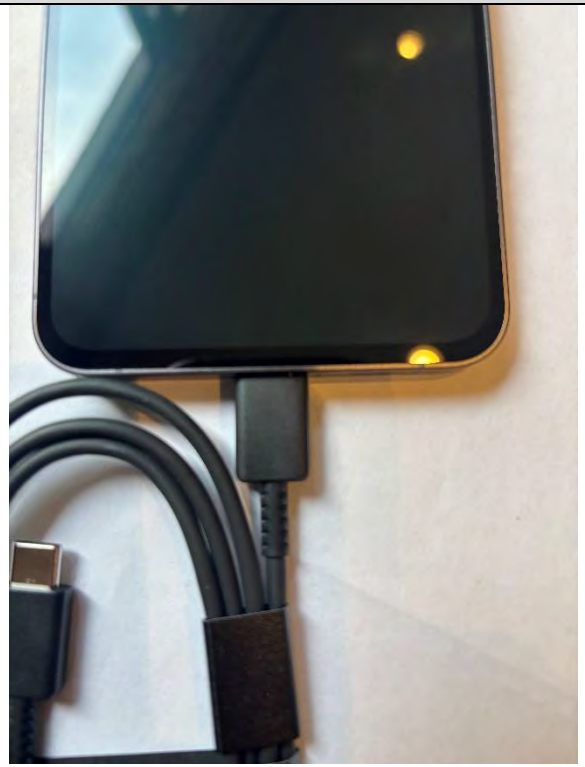
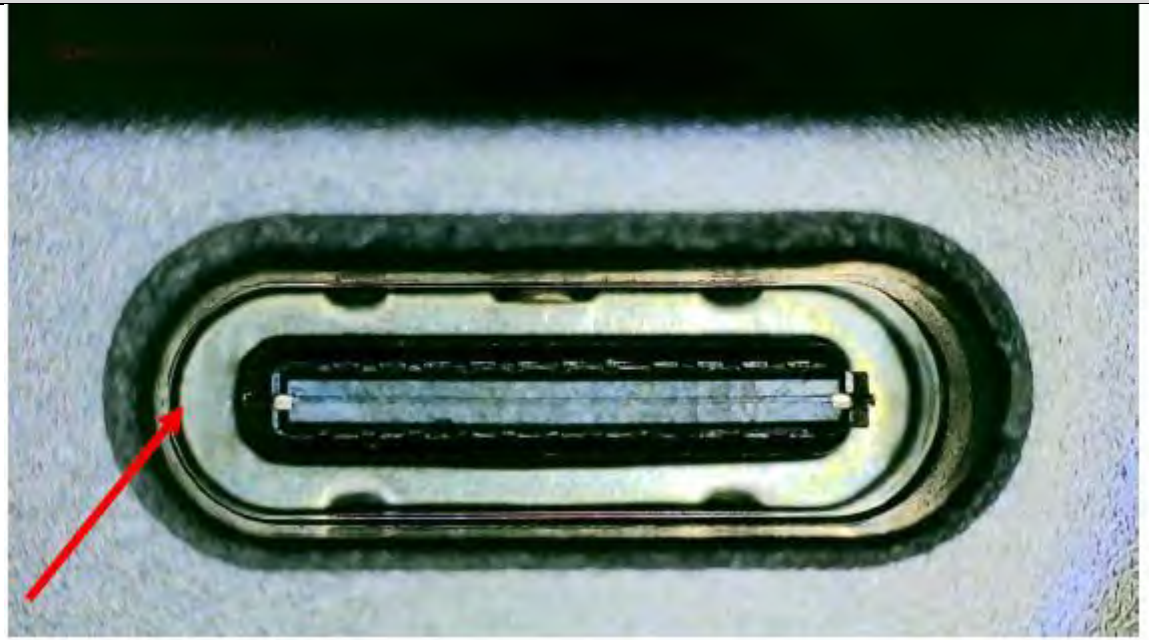
Claim 134 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**134B**] through [**134L**].
[**134B**] a plastic base;	The socket structure of the Samsung S24 FE includes a plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1391

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

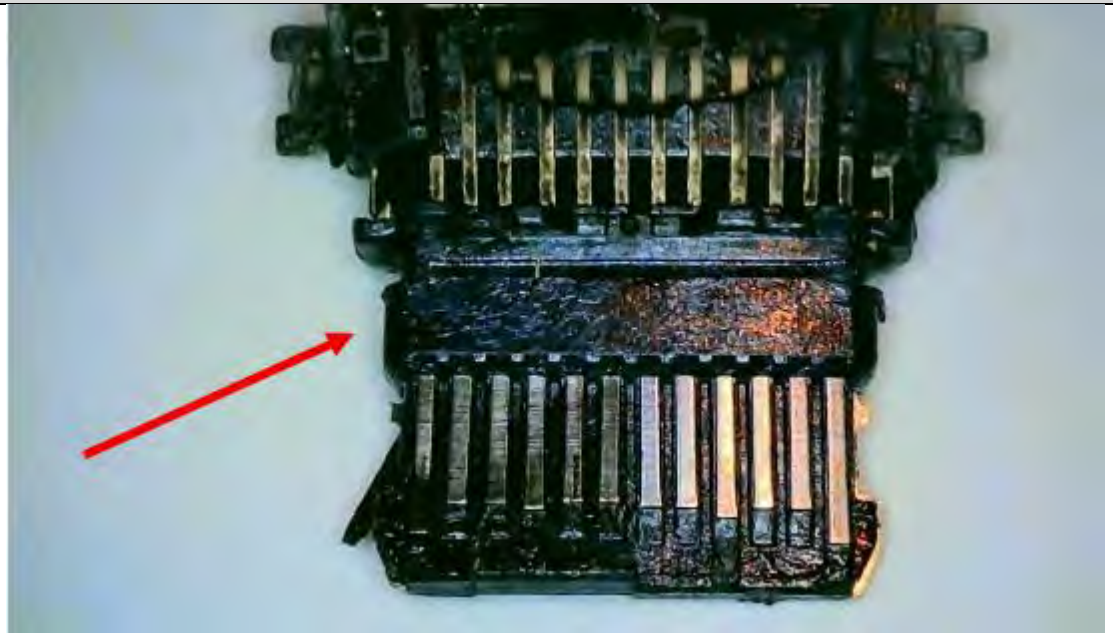
Claim 134 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34B**].
[**134C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one	The socket structure of the Samsung S24 FE includes a connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

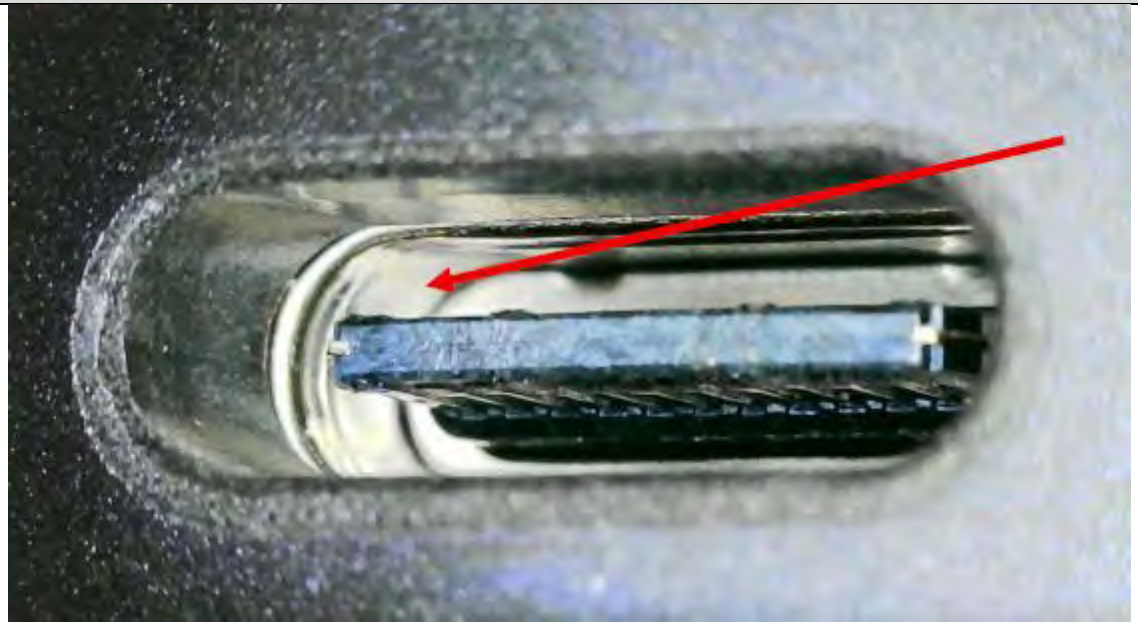
Claim 134 of the '307 Patent	Evidence of Infringement
row of connection terminals;	 The connection slot is disposed in front of the plastic base, which is indicated by the yellow arrow.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung S24 FE, as described above in connection with element [**34A**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

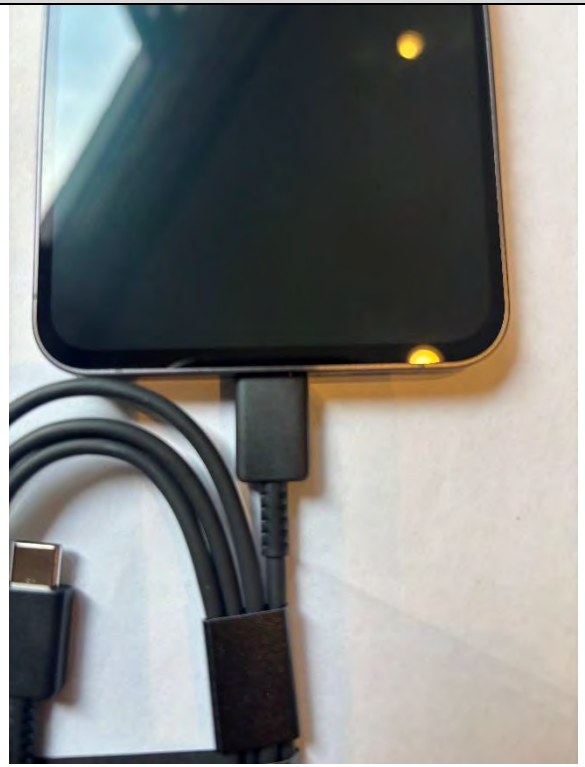
Claim 134 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

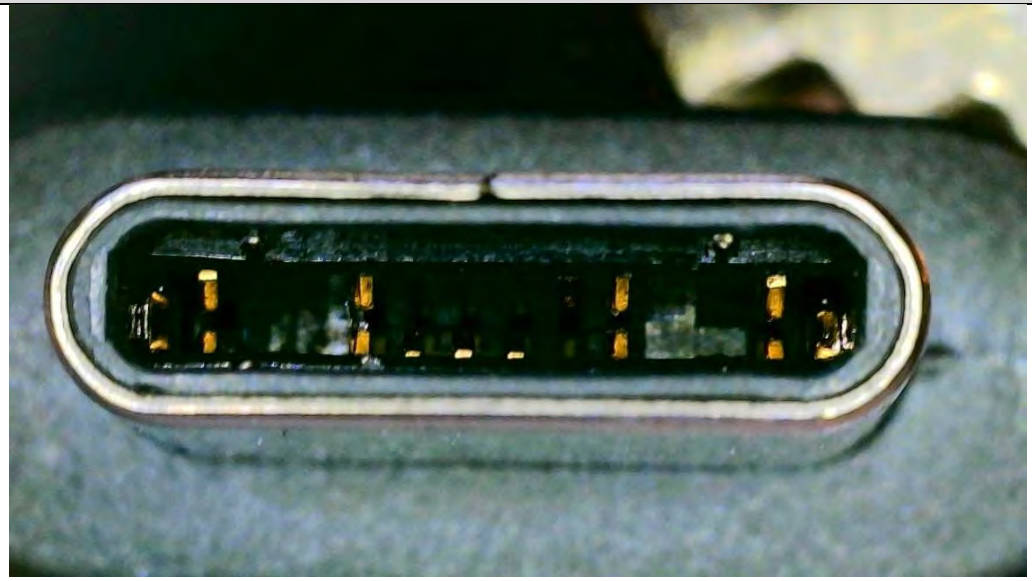
Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**134D**] a tongue, which has a top side with a first surface with grooves, and bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung S24 FE includes a tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

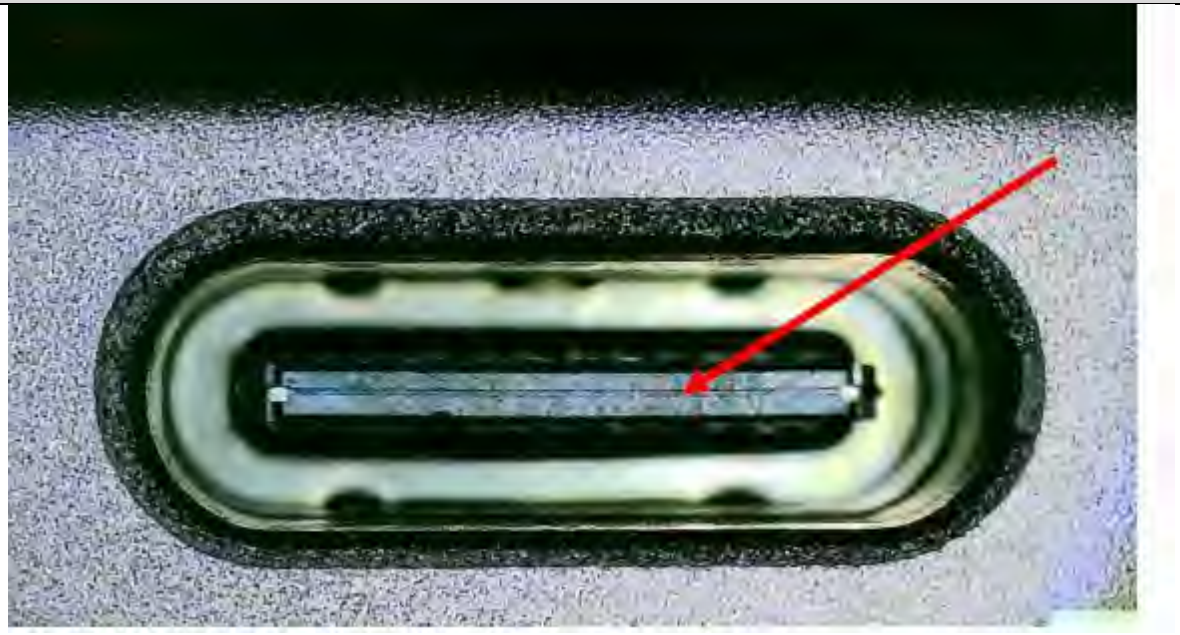
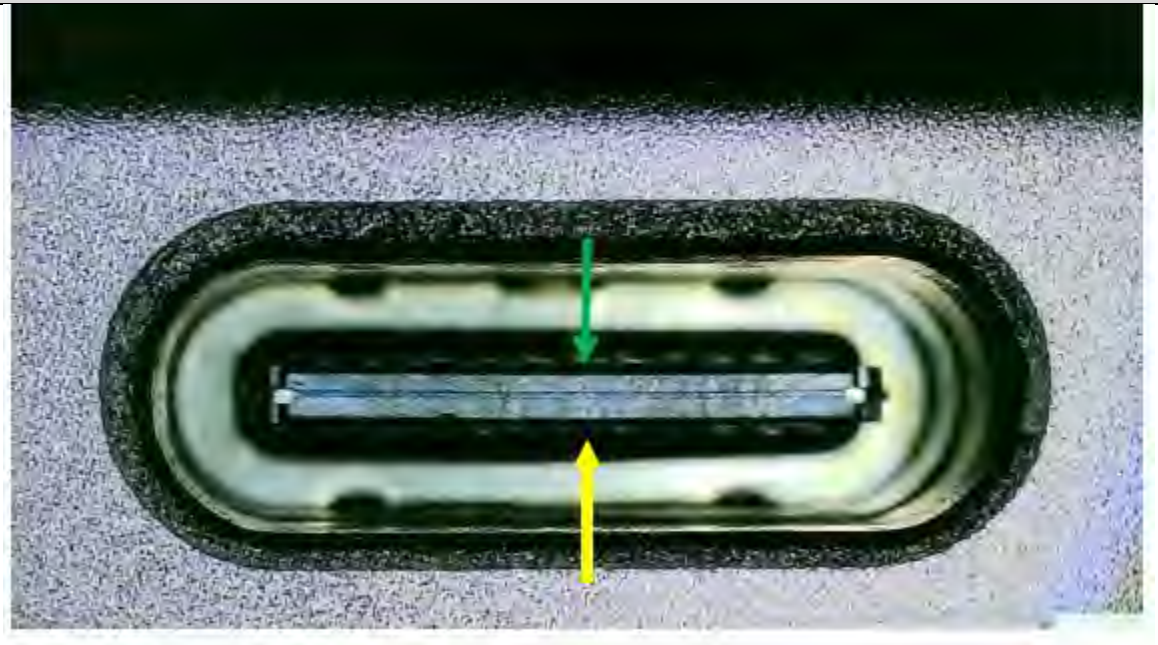
Claim 134 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

Samsung, EX1004, p. 1399

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

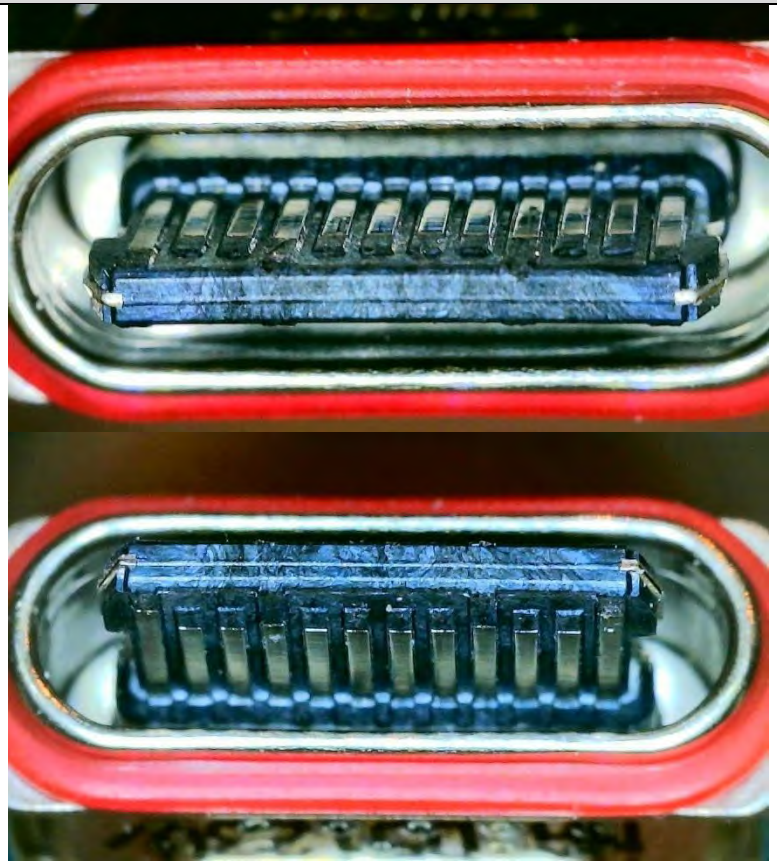
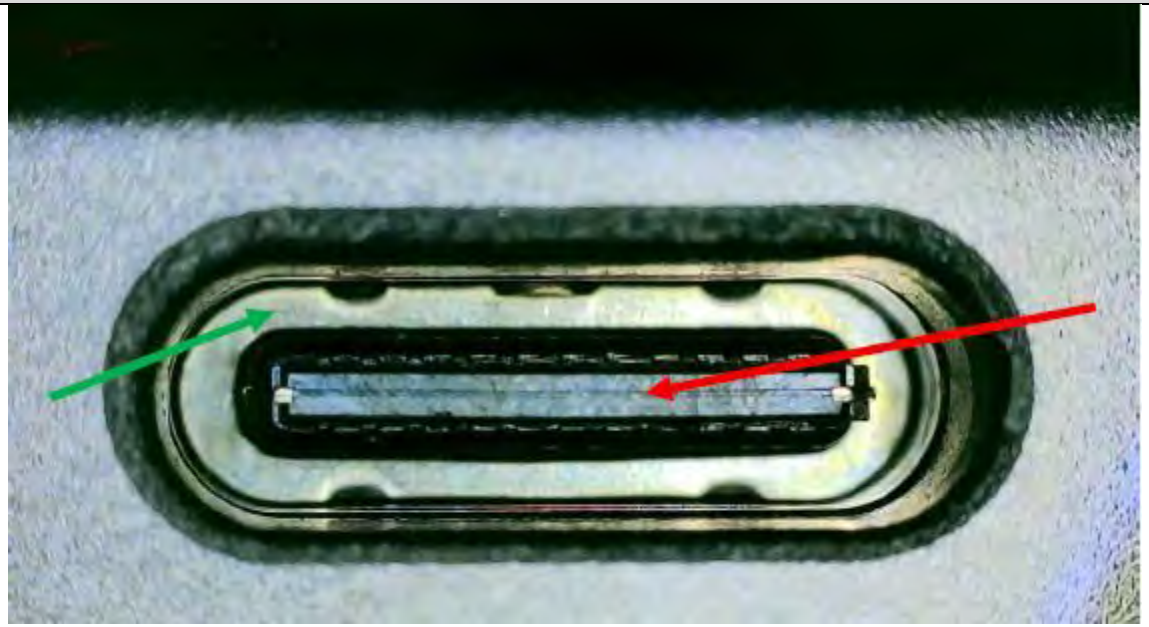
Claim 134 of the '307 Patent	**Evidence of Infringement**
	 *See also* Elements [**34D**], [**56D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponds to the side with the second surface as described in element [**34D**].
[**134E**] the tongue being disposed on one end of the	The tongue of the Samsung S24 FE (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by a blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

Samsung, EX1004, p. 1402

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

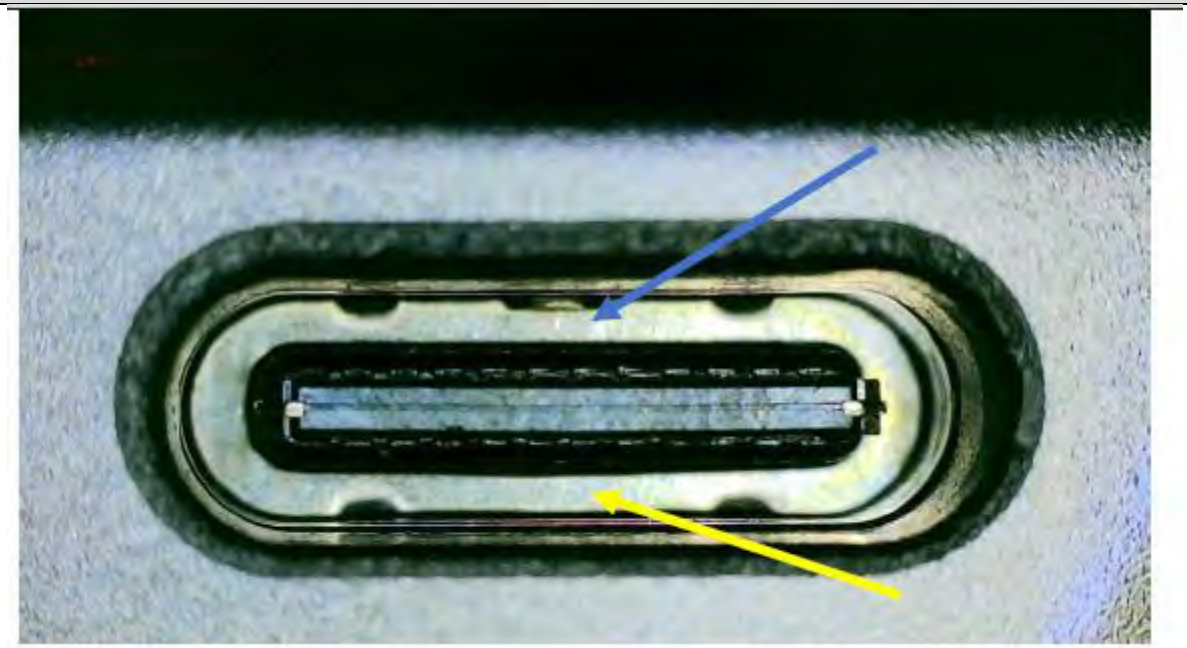
Claim 134 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug to be inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

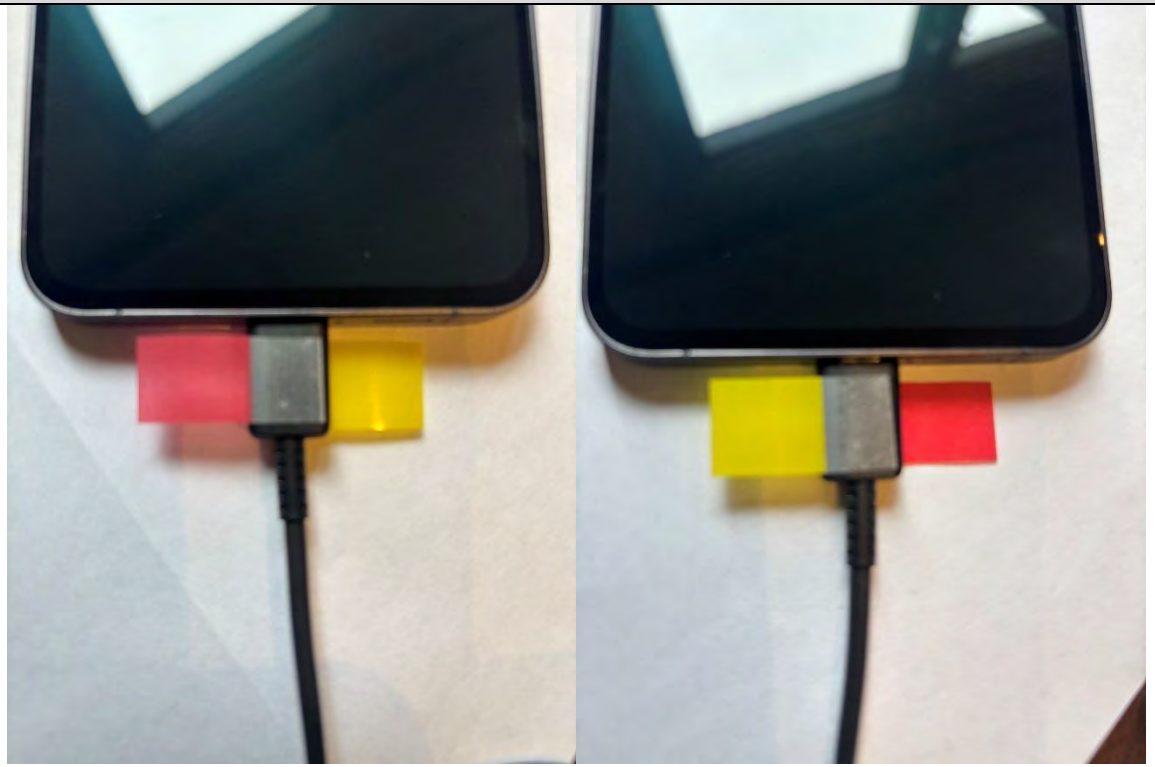
Claim 134 of the '307 Patent	Evidence of Infringement
	 The red and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the second structure of the Samsung S24 FE when the side of the plug indicated with a red flag is on top (first image) and when the side of the plug indicated with the red flag is on bottom (second image). *See also* Element [**34E**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

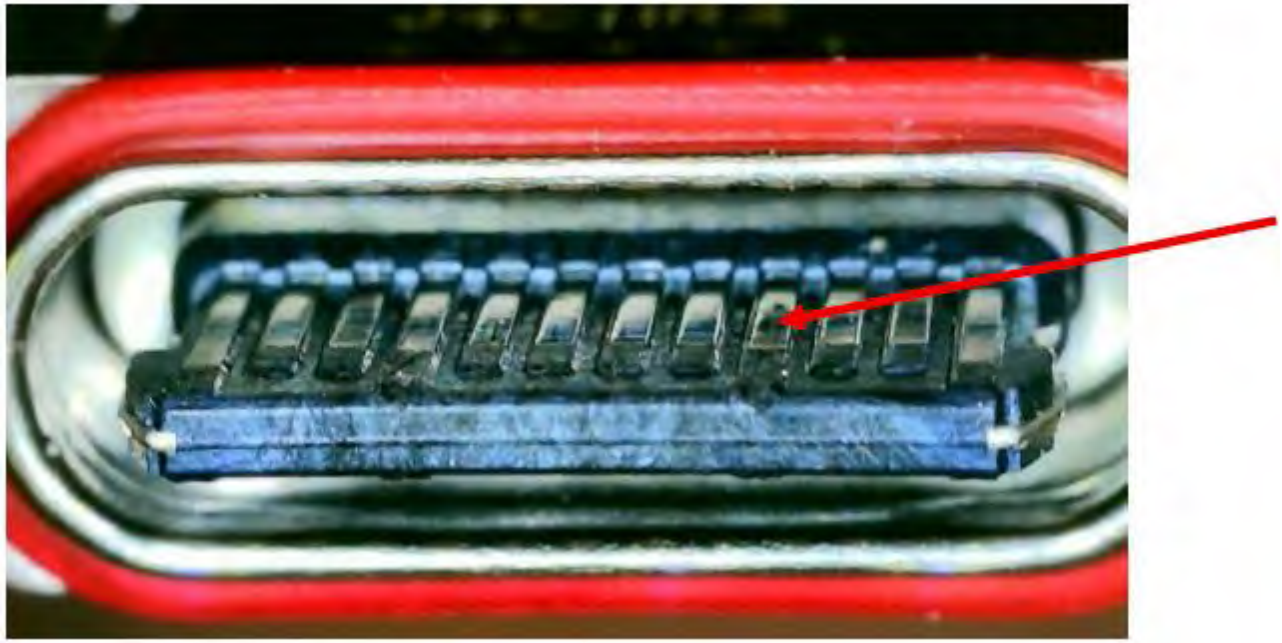
Claim 134 of the '307 Patent	**Evidence of Infringement**
[**134F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a first pin extending out of the plastic base; and	The socket structure of the Samsung S24 FE includes at least one row of first contacts separately arranged on the first surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

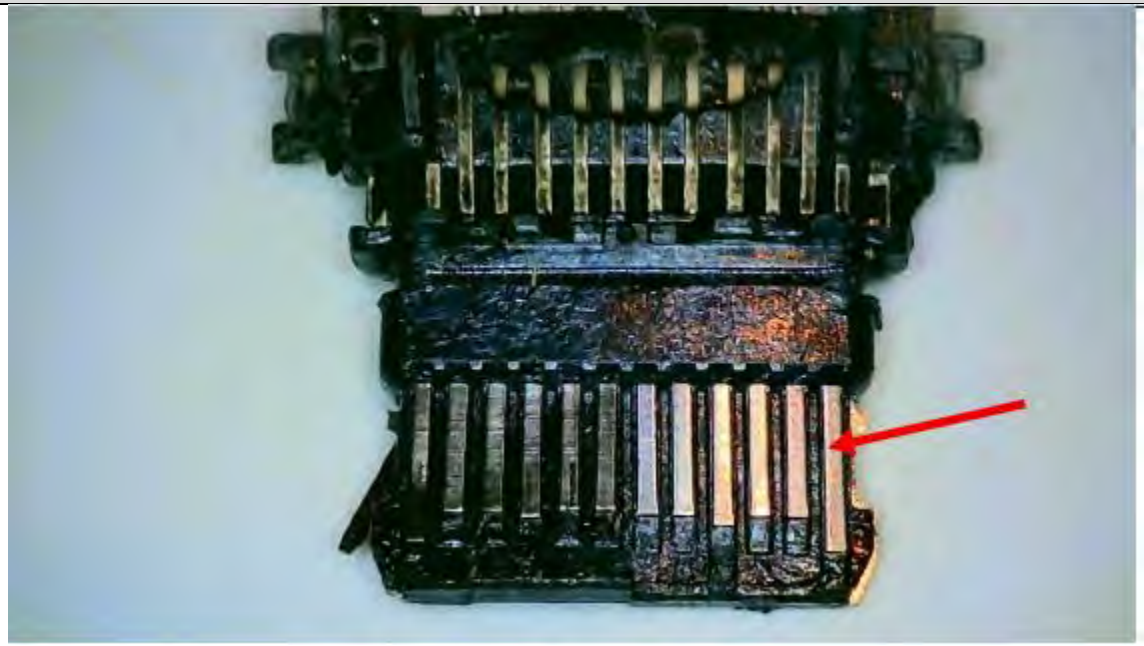
Claim 134 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the Samsung S24 FE includes twelve contacts on each side of the tongue. As shown in the image below, the Samsung S24 FE includes two rows of twelve pins extending out of the base. On information and belief, the bottom row of pins corresponds to the first contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image showing underside of socket structure where it connects to PCB.) This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung S24 FE is a USB-C socket and/or compatible with the USB-C cables).

Furthermore, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

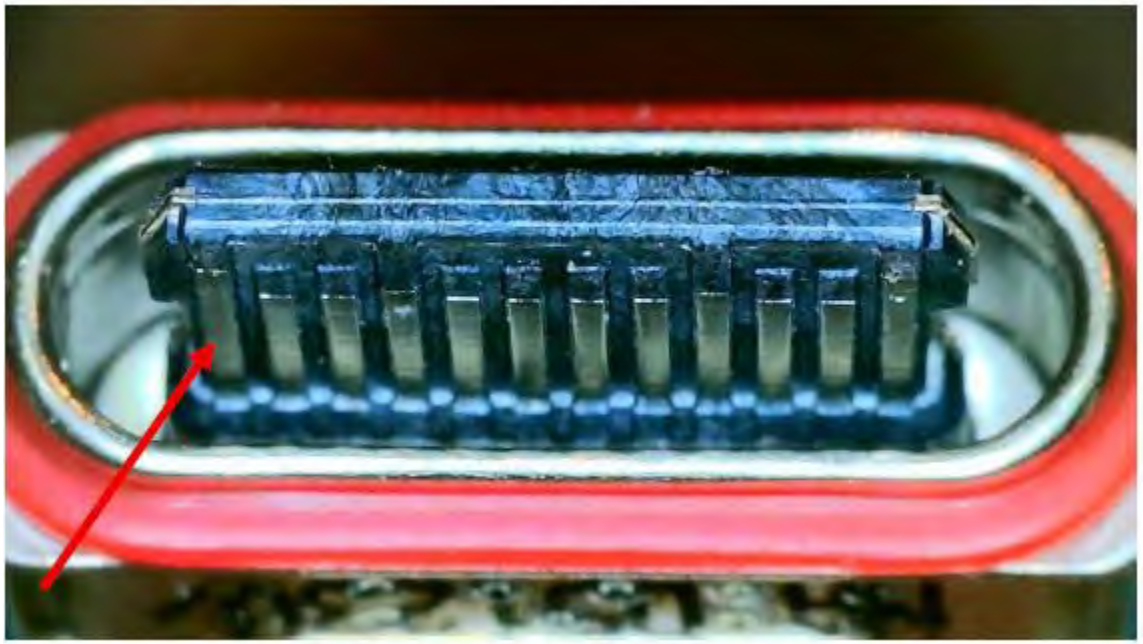
Claim 134 of the '307 Patent	**Evidence of Infringement**
	See also Element [**34F**]
[**134G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung S24 FE includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

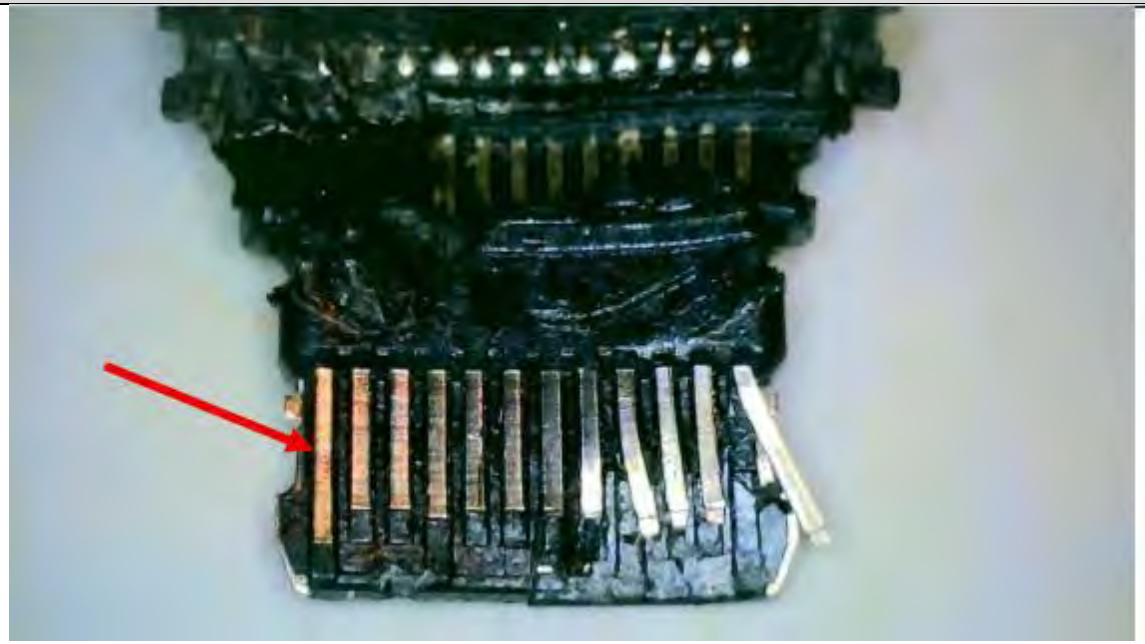
Claim 134 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of Samsung S24 FE.) *See also* Element [**34G**].
[**134H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. On information and belief, the top row of pins in the image below corresponds to the second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image showing socket structure where it connects to PCB.) In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. *See also* Element [**34H**].
[**134I**] the socket structure is operative to simultaneously electrically connect	The socket structure of the Samsung S24 FE is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung S24 FE has electrical contacts on the top and bottom of the tongue.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

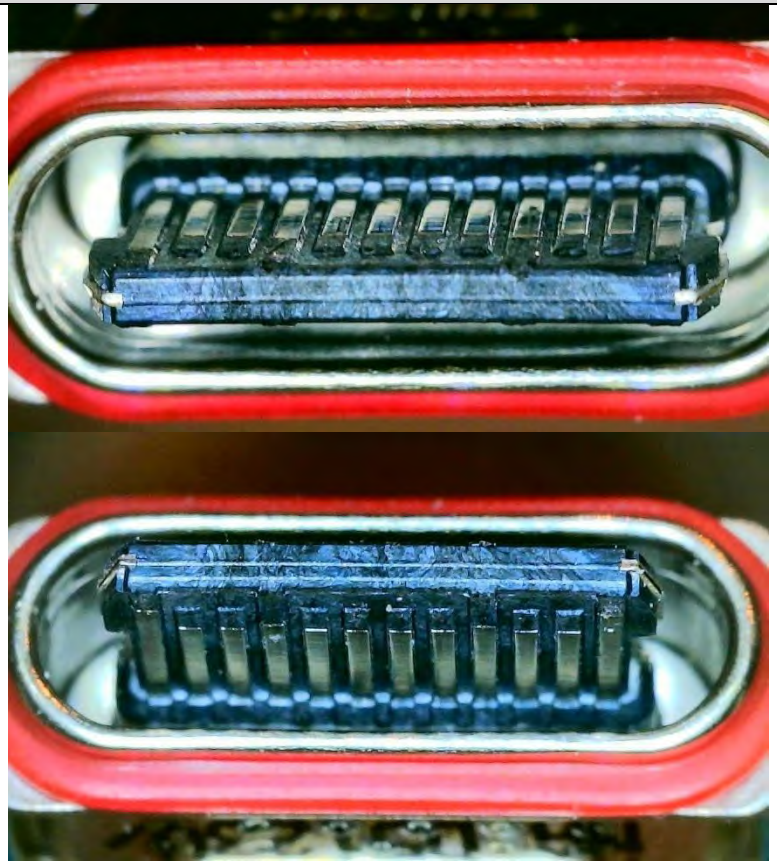
Claim 134 of the '307 Patent	Evidence of Infringement
on the top and the bottom side of the tongue;	 The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

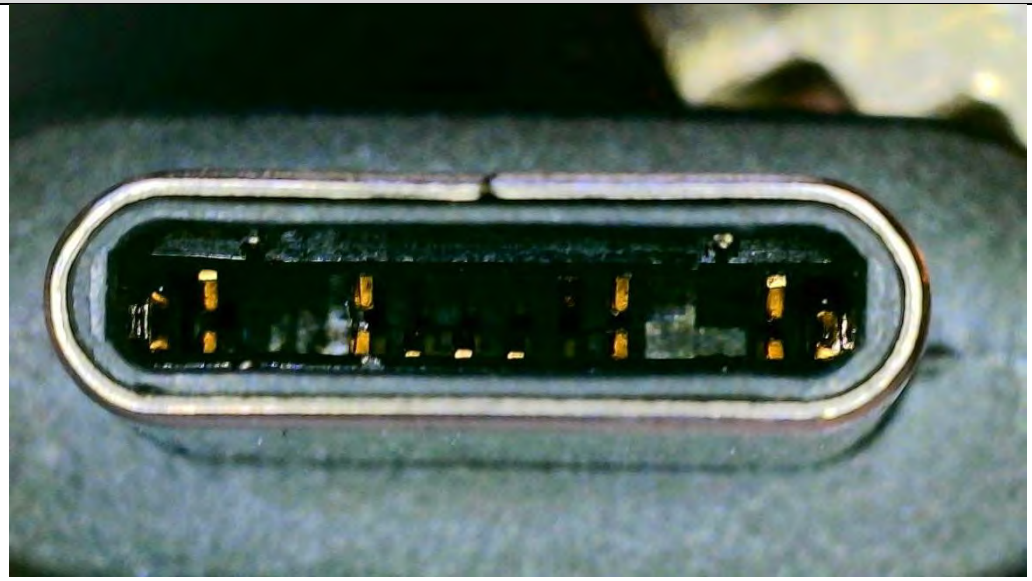
Claim 134 of the '307 Patent	Evidence of Infringement
	 In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. The Samsung S24 FE uses the USB-C socket structure for charging.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image from Quick Start Guide for Samsung S24 FE.) Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**134J**] at least some of the at least	The first row of contacts (shown in the lower image) has a functional reverse mirror configuration relative to the row of second contacts (shown in the upper image).

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

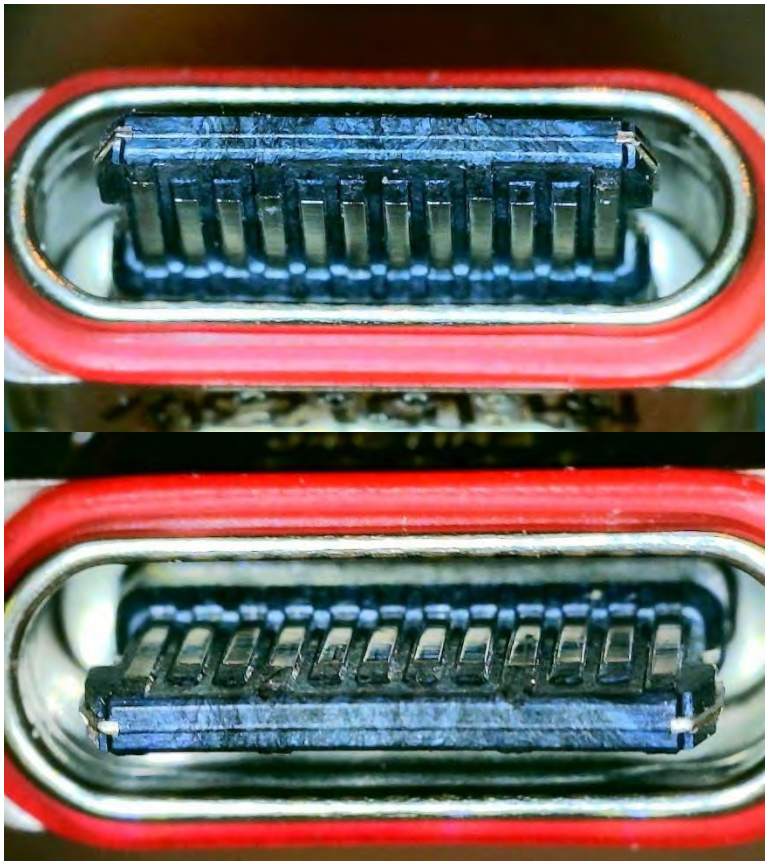
Claim 134 of the '307 Patent	**Evidence of Infringement**
one row of first contacts has a functional reverse mirror configuration relative to at least some of the at least one row of second contacts, and the socket structure is thereby configured such that:	 In addition, as noted above in connection with element [**34A**], the Samsung S24 FE has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured as described below in connection with elements [**134K**] through [**134L**].

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

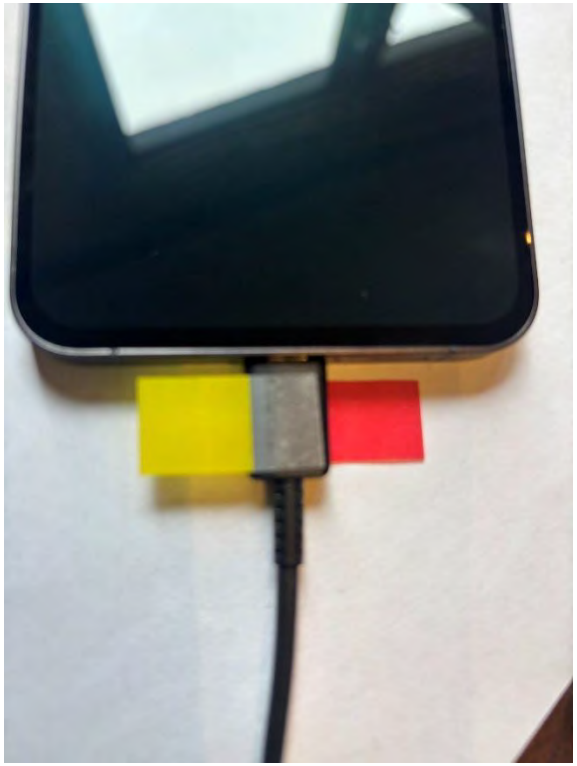
Claim 134 of the '307 Patent	Evidence of Infringement
[**134K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung S24 FE is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug faces the second surface of the tongue, and the at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extending inward from the plug face marked with the red flag so as to electrically connect with the second contacts on the bottom surface of the

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

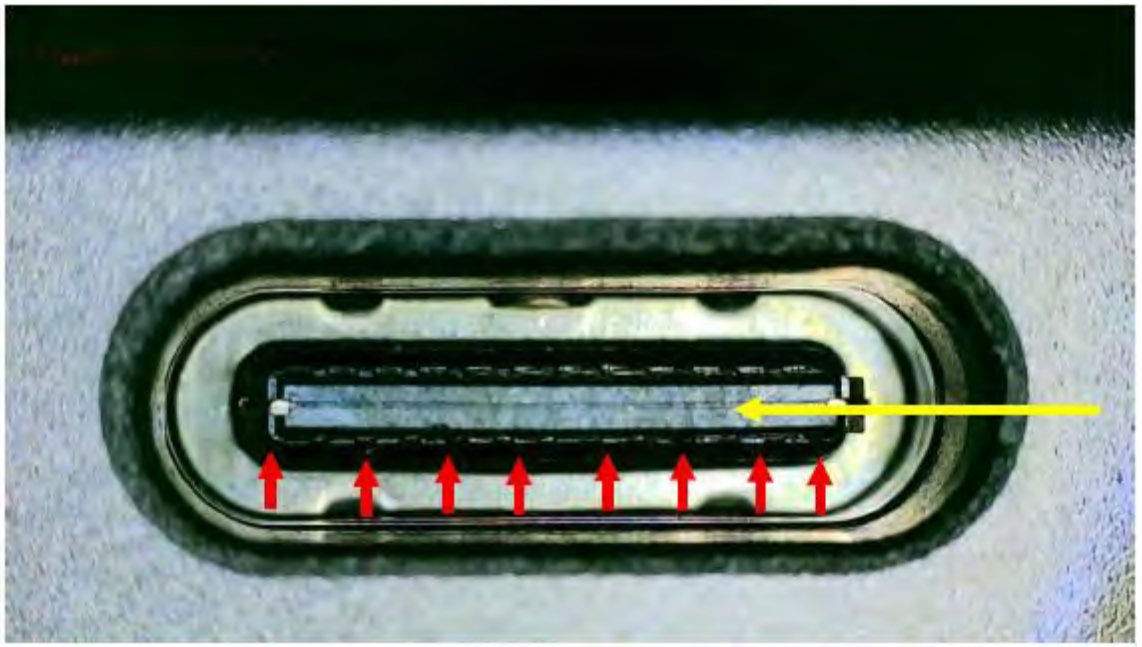
Claim 134 of the '307 Patent	Evidence of Infringement
	tongue) are represented as red arrows in the image below. In this normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot. 

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

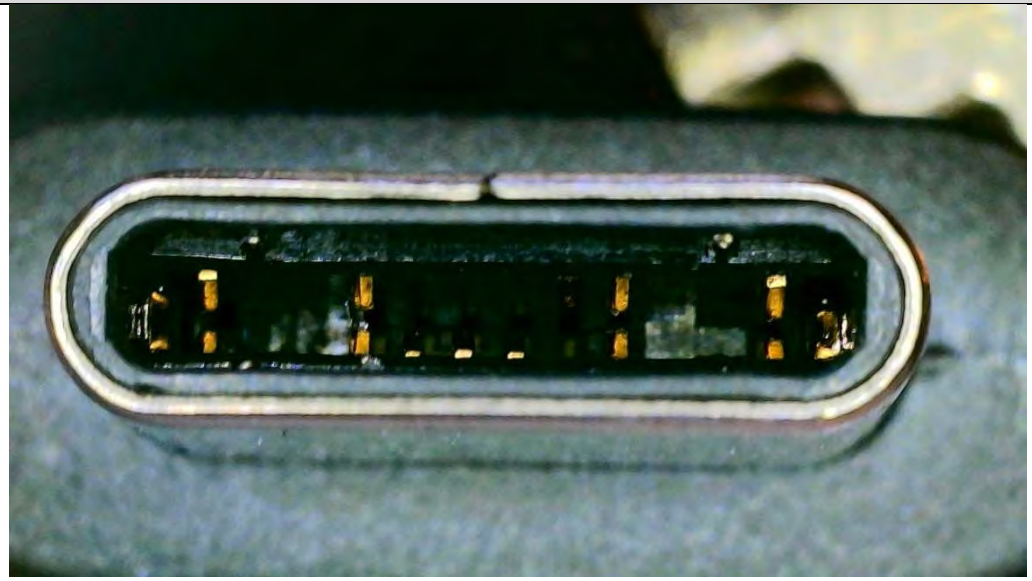
Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**134L**] when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least	The Samsung S24 FE is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
one row of connection terminals of the plug are electrically connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extending inward from the plug face marked with the red flag so as to electrically connection with the first contacts on the top surface of the tongue) are represented as red arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 8 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

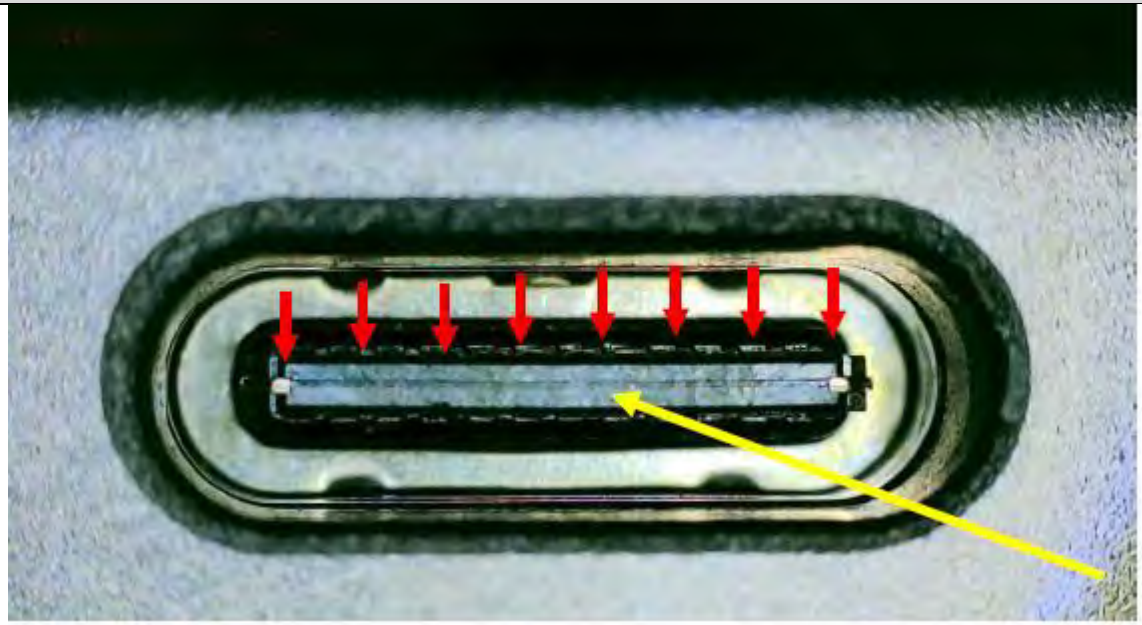
Claim 134 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

U.S. Patent No. RE50,307

Title: Socket Structure with Duplex Electrical Connection

Inventor: Chou Hsien Tsai

The following chart provides evidence showing that the ViewFinity S80UD (Model No. LS27D802UANXGO) ("ViewFinity S80UD" or the "Accused Instrumentalities") being made, used, sold, imported, and/or offered for sale ") in the United States by Samsung Electronics Co., Ltd., Samsung Electronics America, Inc, and/or their affiliates and subsidiaries ("Samsung") infringe claims of the '307 Patent. The below chart is based on publicly available information currently known to KIWI. KIWI reserves the right to supplement or otherwise modify this preliminary claim chart as additional information becomes available.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

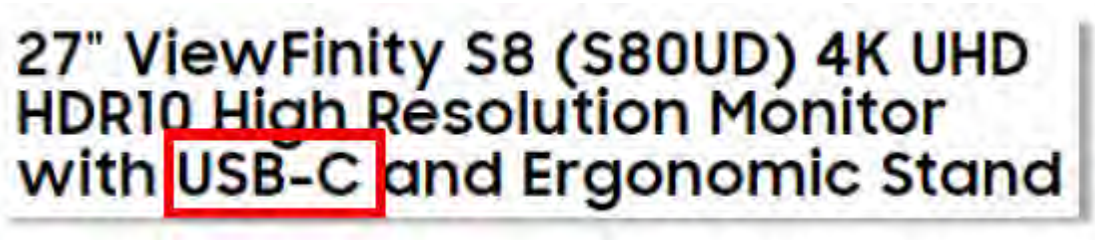
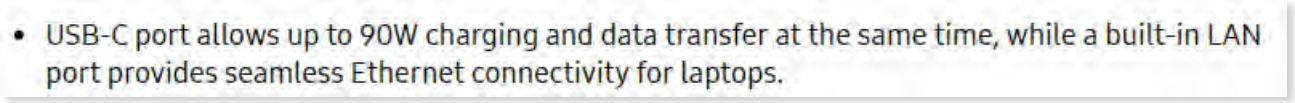
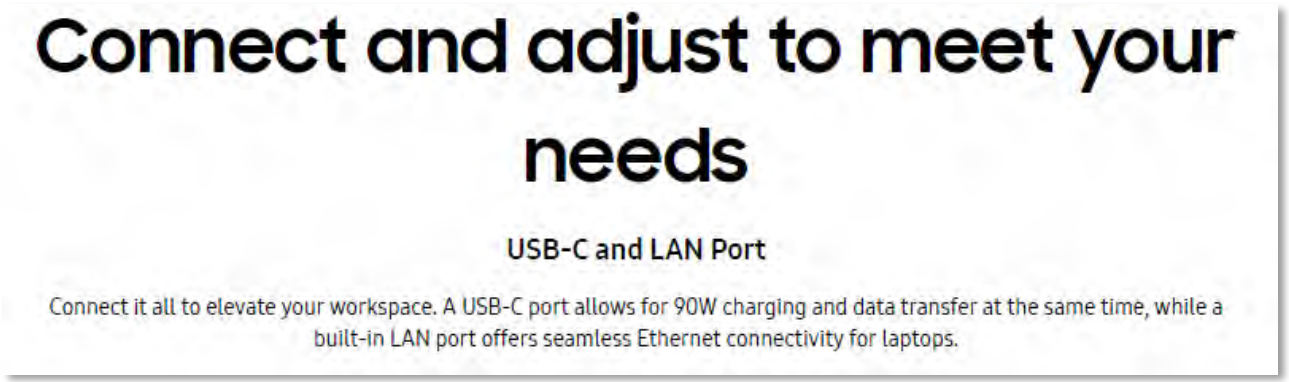
Claim 34 of the '307 Patent	**Evidence of Infringement**
[**34A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung ViewFinity S80UD is a monitor that includes a socket structure with duplex electrical connection. In particular, the Samsung ViewFinity S80UD provides duplex electrical connection via a USB-C port.  *See* https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025).  *Id.*  *Id.*

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement



Id.

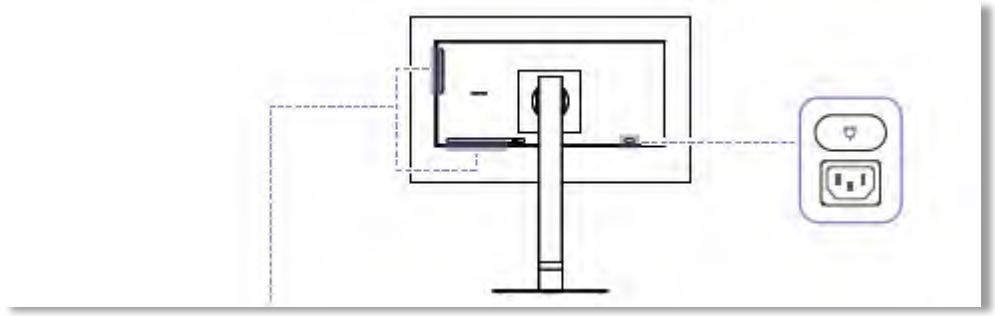




EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

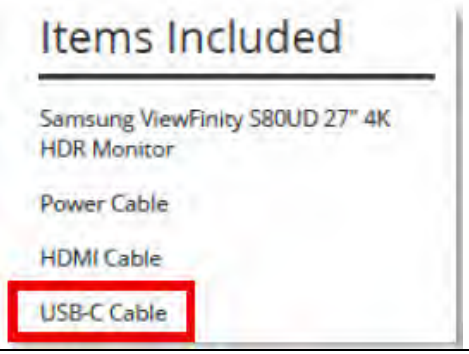
Claim 34 of the '307 Patent	Evidence of Infringement
	User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). In addition, the Samsung ViewFinity S80UD is packaged and compatible with a USB-C cable.  (Image of cable included in packaging.) 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	**Evidence of Infringement**
	See https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). Further details regarding the socket structure are described below in connection with elements [**34B**] through [**34N**].
[**34B**] a plastic base;	The socket structure of the Samsung ViewFinity S80UD includes a plastic base. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

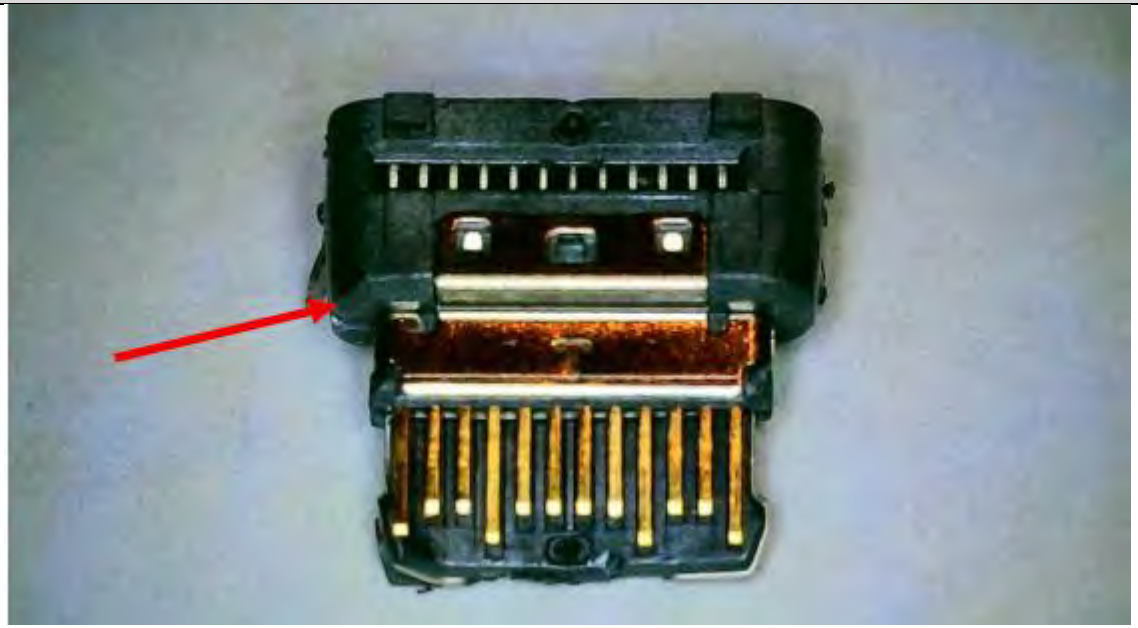
Claim 34 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of ViewFinity S80UD.)
[**34C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung ViewFinity S80UD includes a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

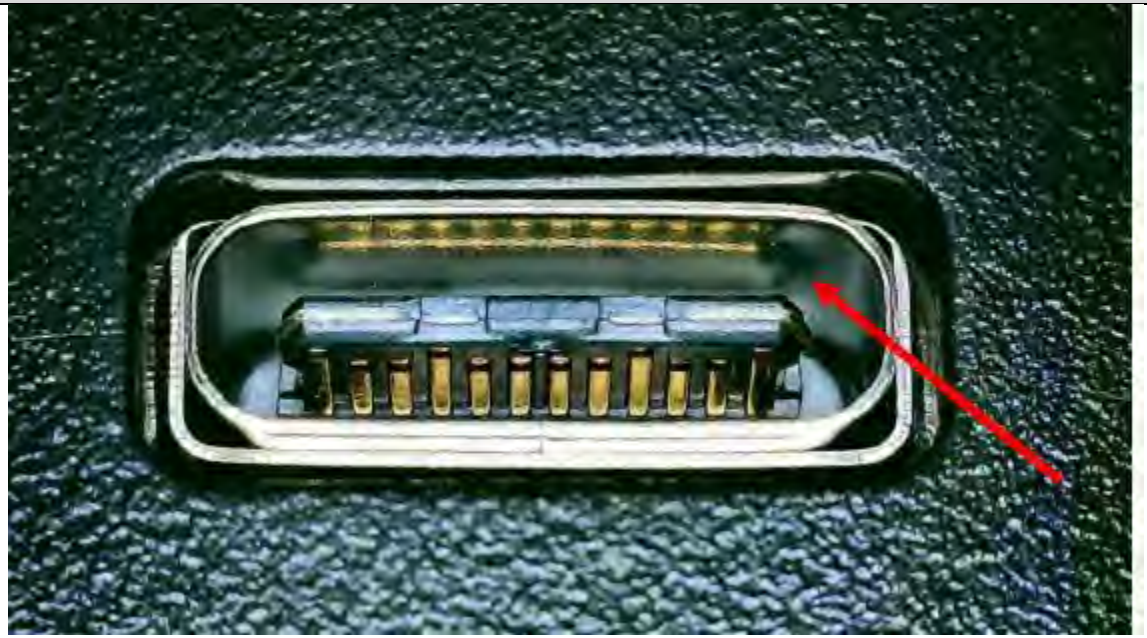
Claim 34 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is generally indicated by the yellow arrow.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

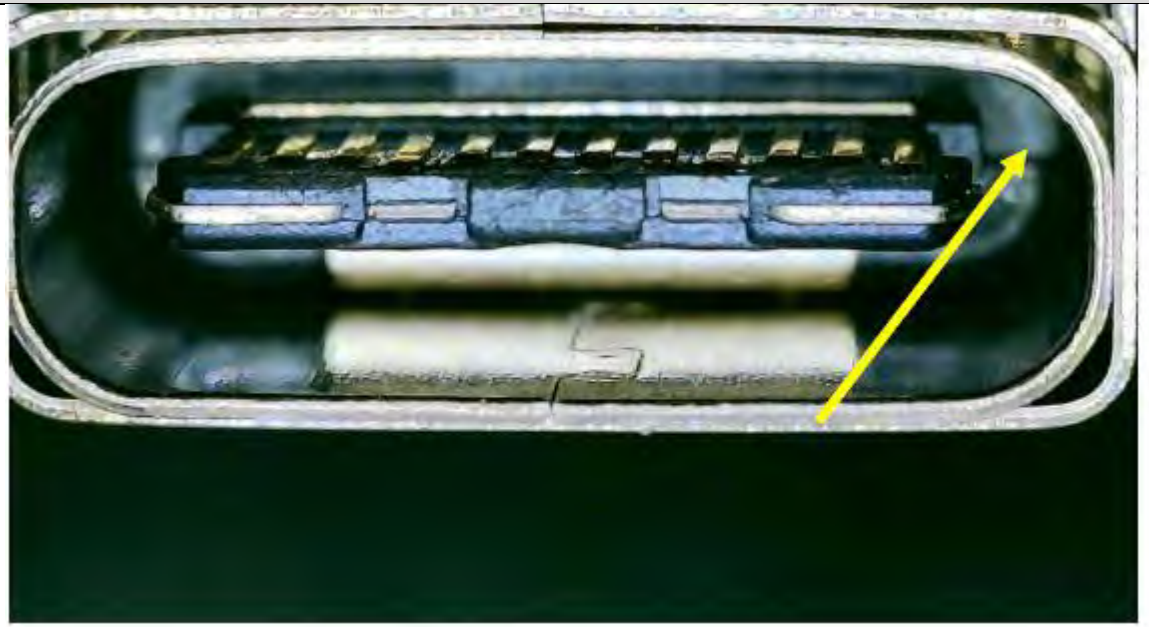
Claim 34 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung ViewFinity S80UD, as described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

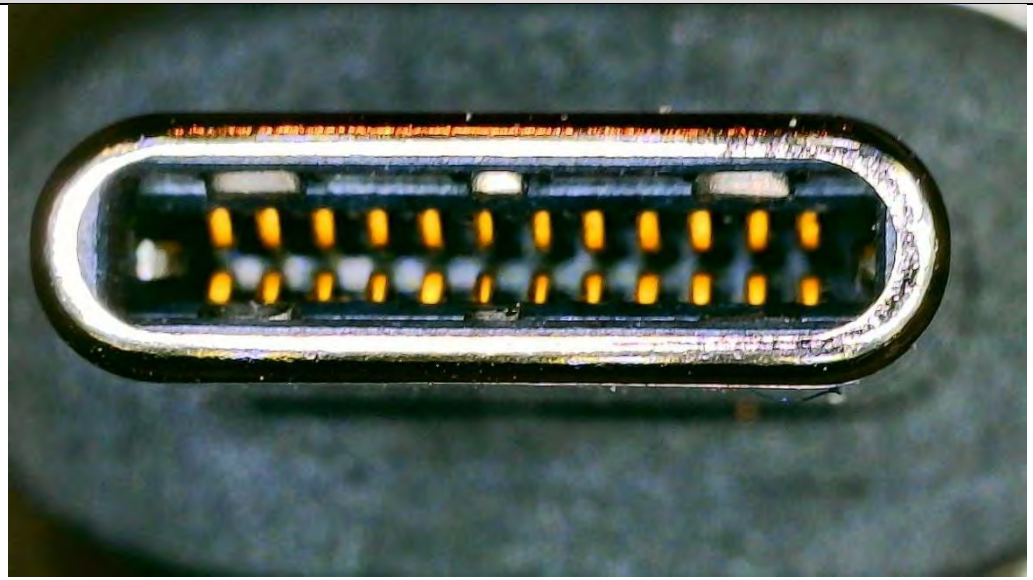
Claim 34 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.)
[**34D**] a tongue, which has a first surface with grooves, and a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung ViewFinity S80UD includes a tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

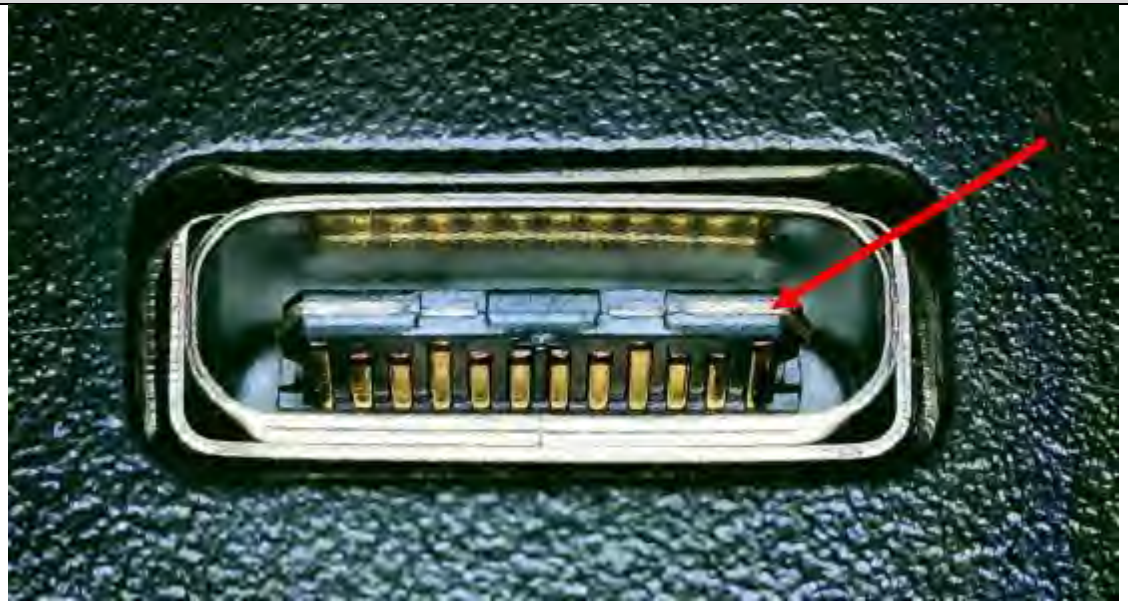
Claim 34 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

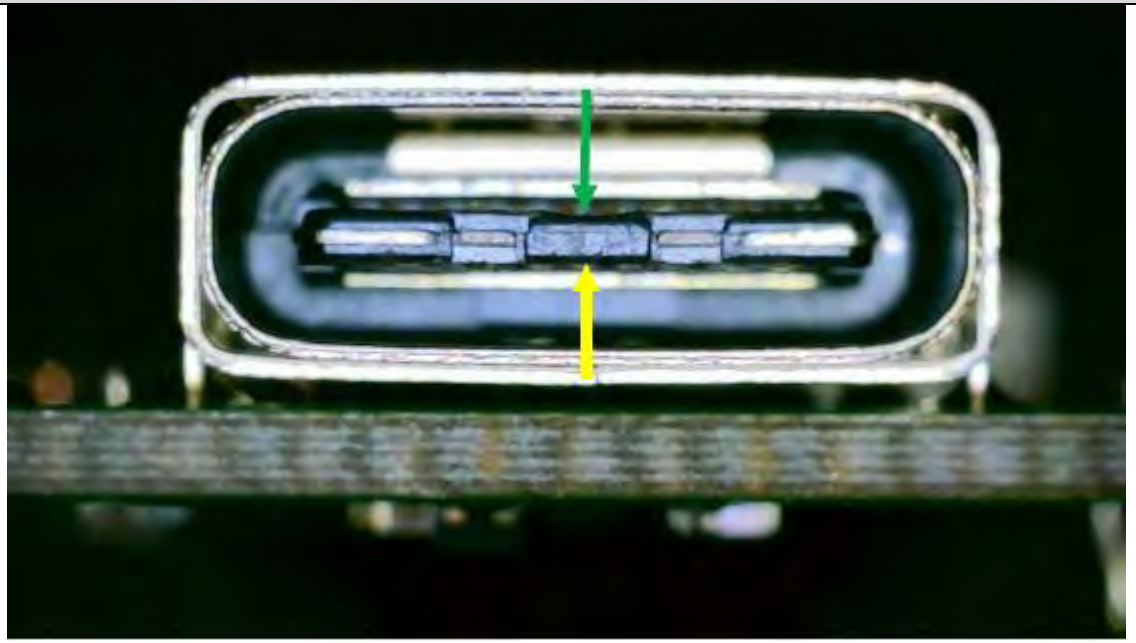
Claim 34 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

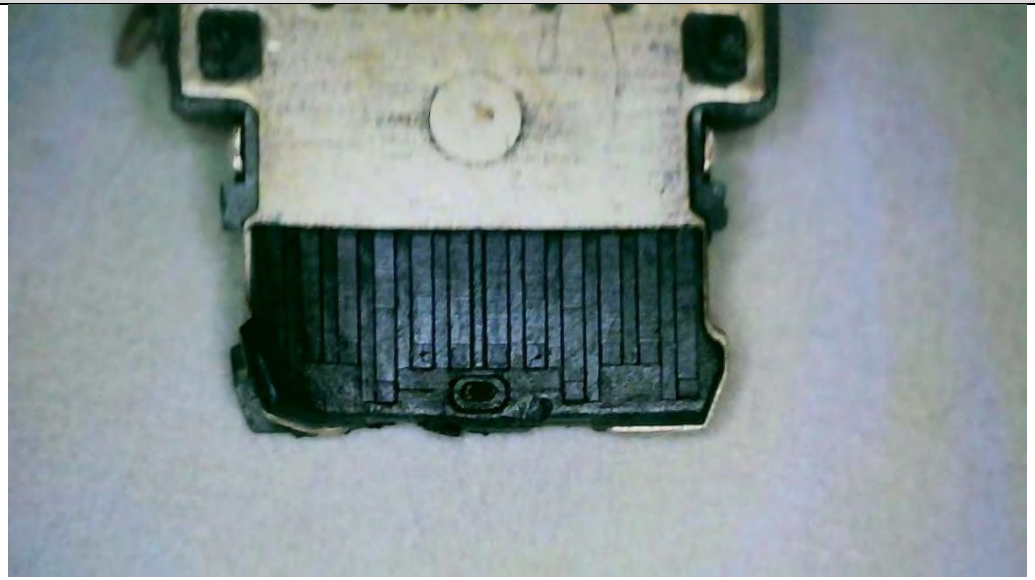
Claim 34 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

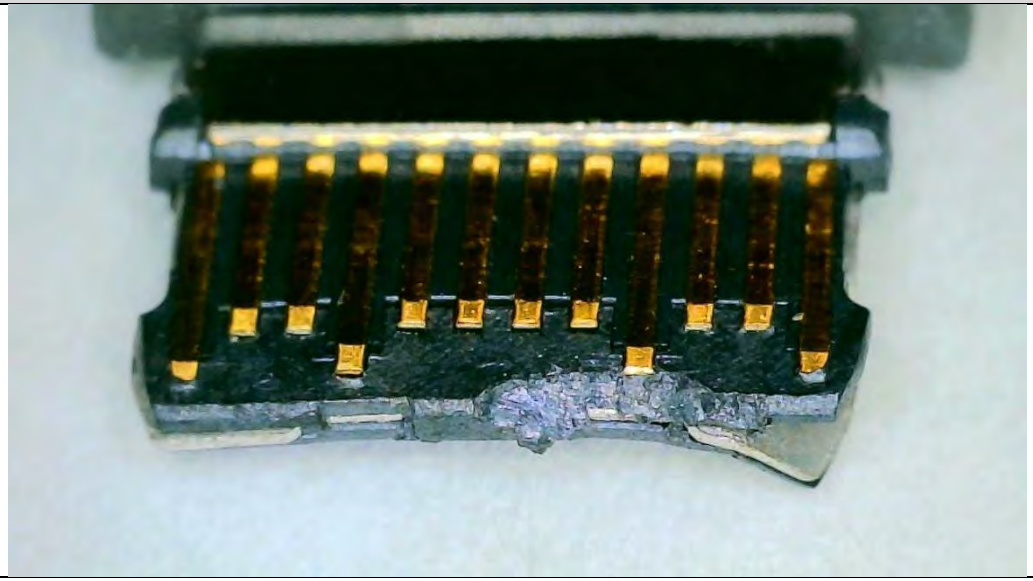
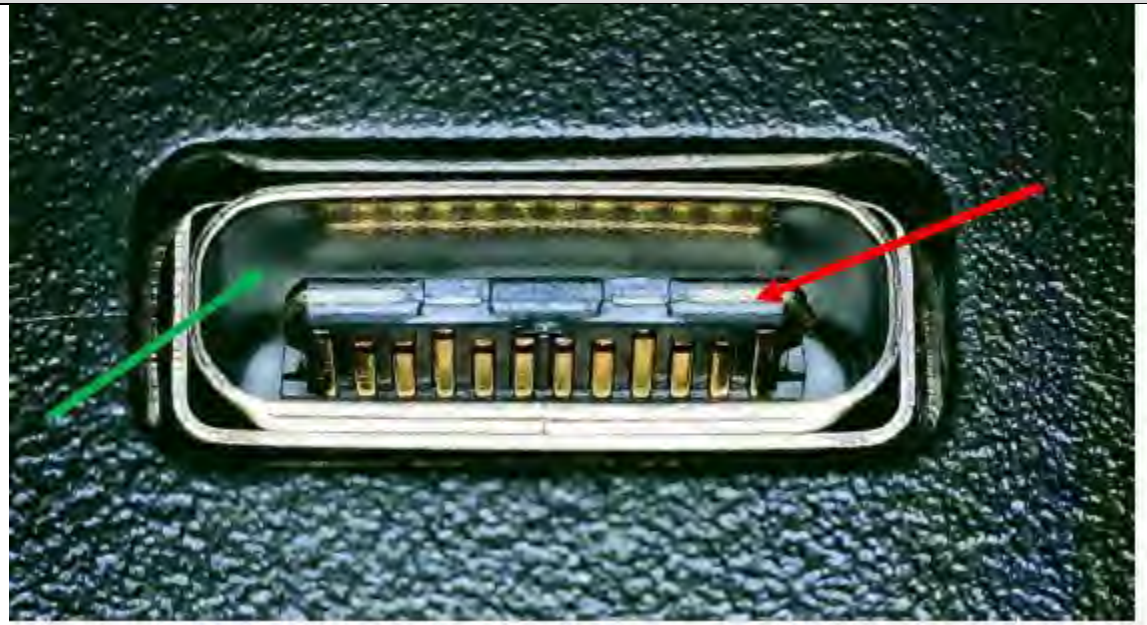
Claim 34 of the '307 Patent	**Evidence of Infringement**
	
[**34E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	The tongue of the socket structure of the ViewFinity S80UD (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

Samsung, EX1004, p. 1438

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

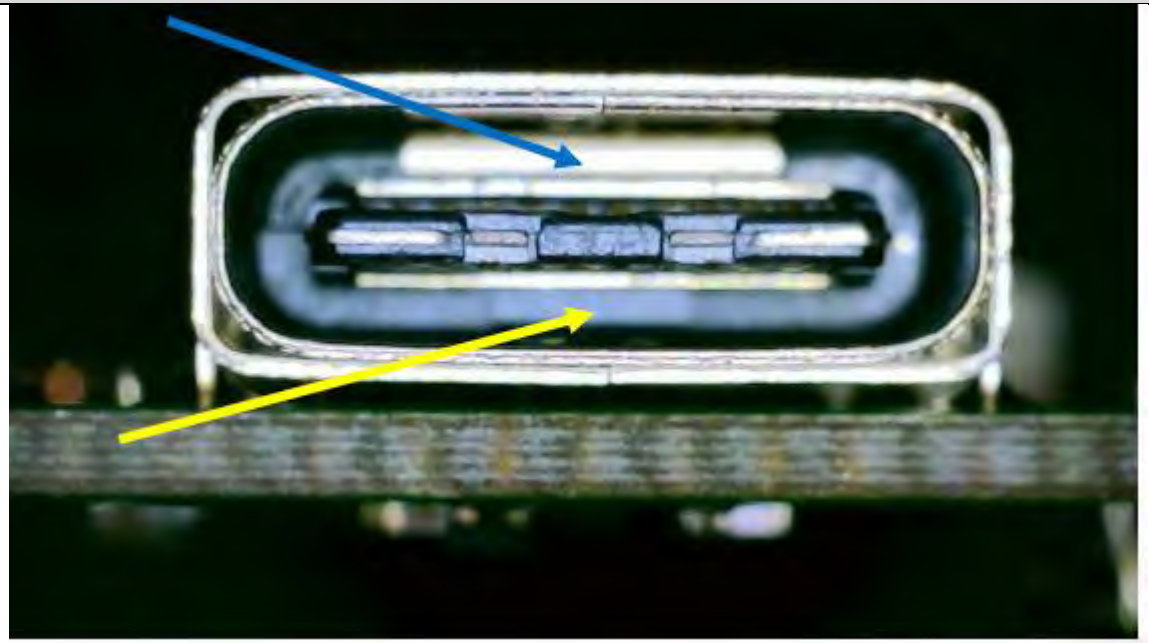
Claim 34 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

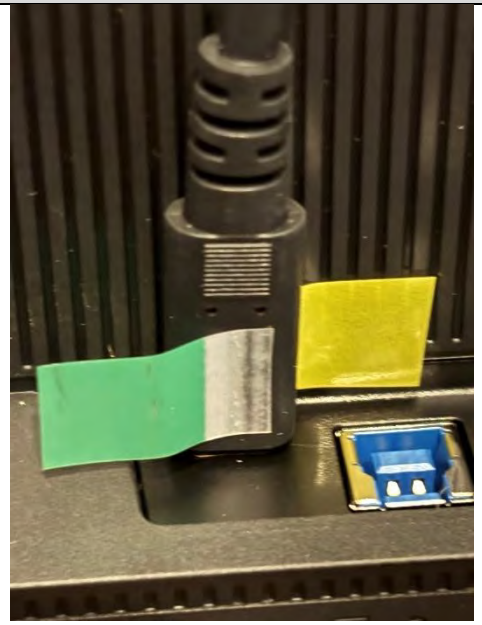
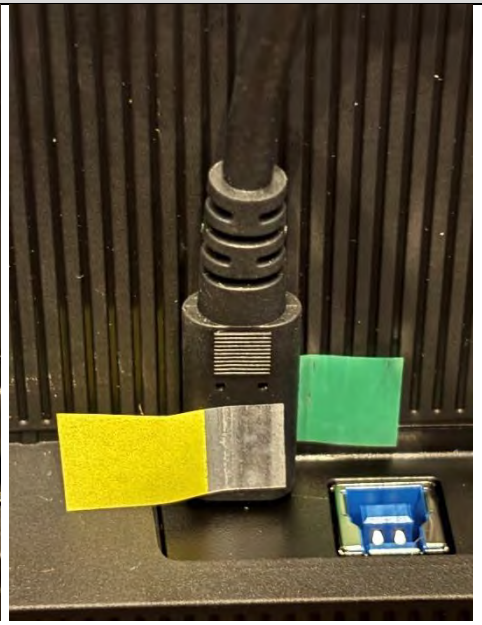
Claim 34 of the '307 Patent	**Evidence of Infringement**
	  The green and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the socket structure of the Samsung ViewFinity S80UD when the side of the plug indicated with a green flag is on top (first image) and when the side of the plug indicated with the green flag is on bottom (second picture).
[**34F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective first pin	The socket structure of the Samsung ViewFinity S80UD includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

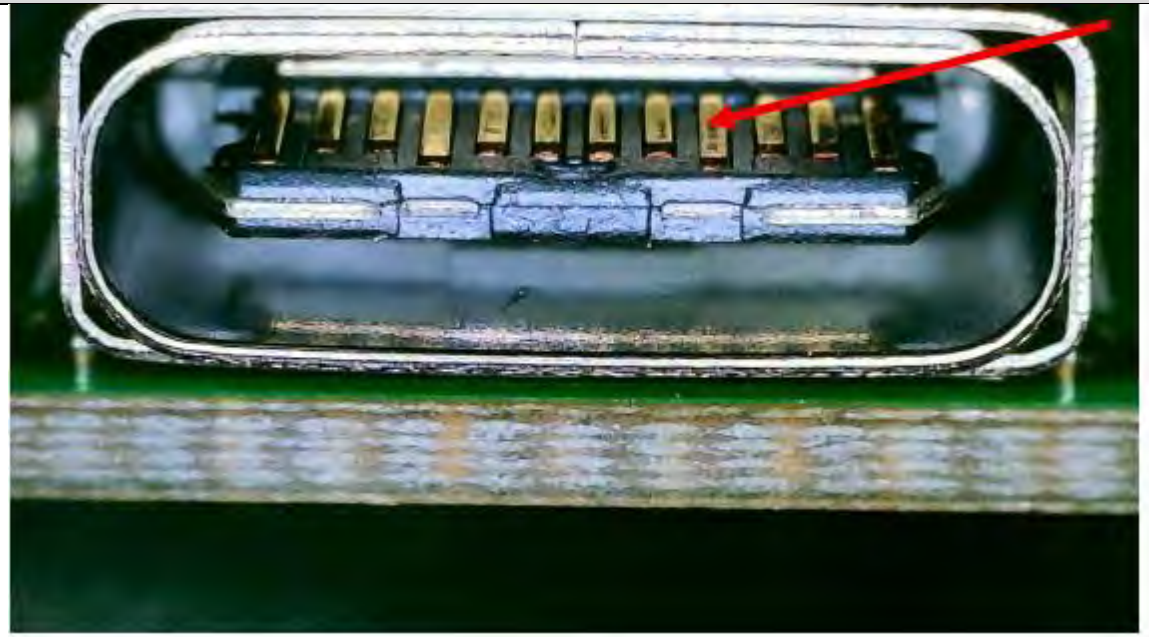
Claim 34 of the '307 Patent	**Evidence of Infringement**
extending out of the plastic base; and	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve first contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image of separated components of socket structure.)

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

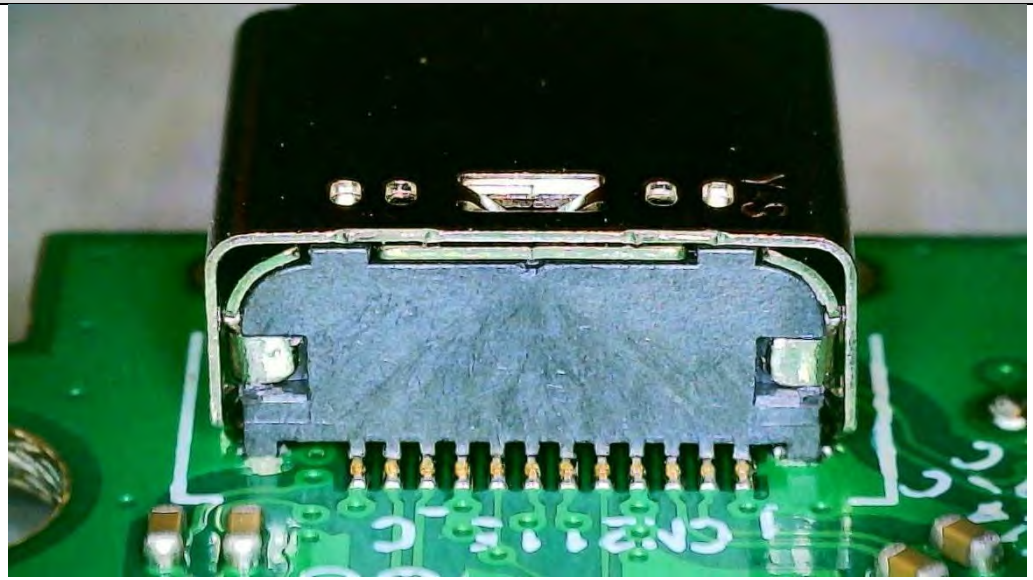
Claim 34 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure showing pins connected to PCB.) Note that the pins extending out of the plastic base are arranged in two rows, such that the image above shows only the first pins. The second pins are located behind the first pins. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	**Evidence of Infringement**
	Table 3-4 USB Type-C Receptacle Interface Pin Assignments Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables). In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.
[**34G**] at least one row of second	The socket structure of the Samsung ViewFinity S80UD includes at least one row of second contacts separately arranged on the second surface of the tongue.

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	**Evidence of Infringement**
contacts separately arranged on the second surface of the tongue, wherein:	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung ViewFinity S80UD.)
[**34H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve second contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base.

See also element [**34F**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	**Evidence of Infringement**
[**34I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

Samsung, EX1004, p. 1450

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

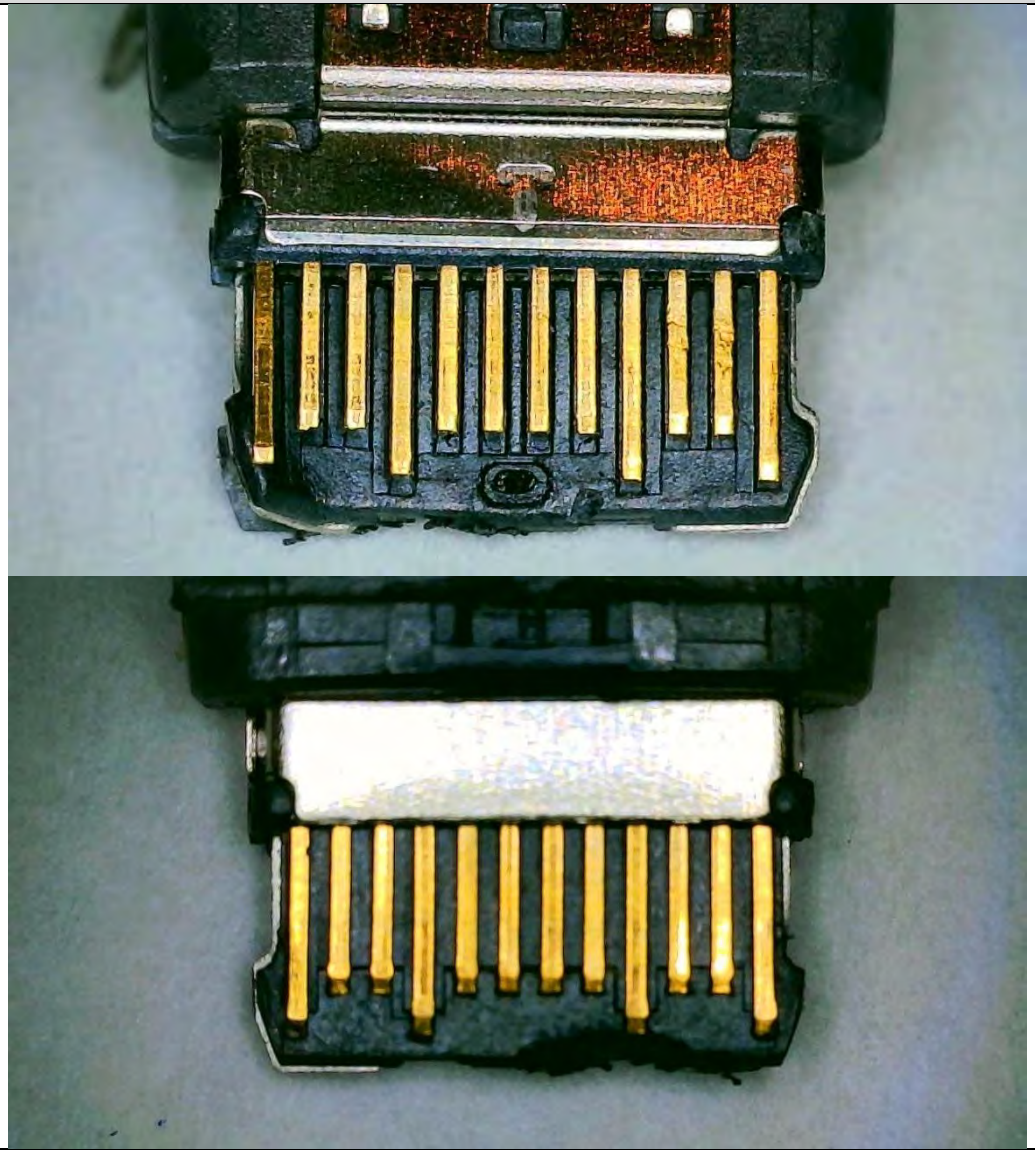
Claim 34 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

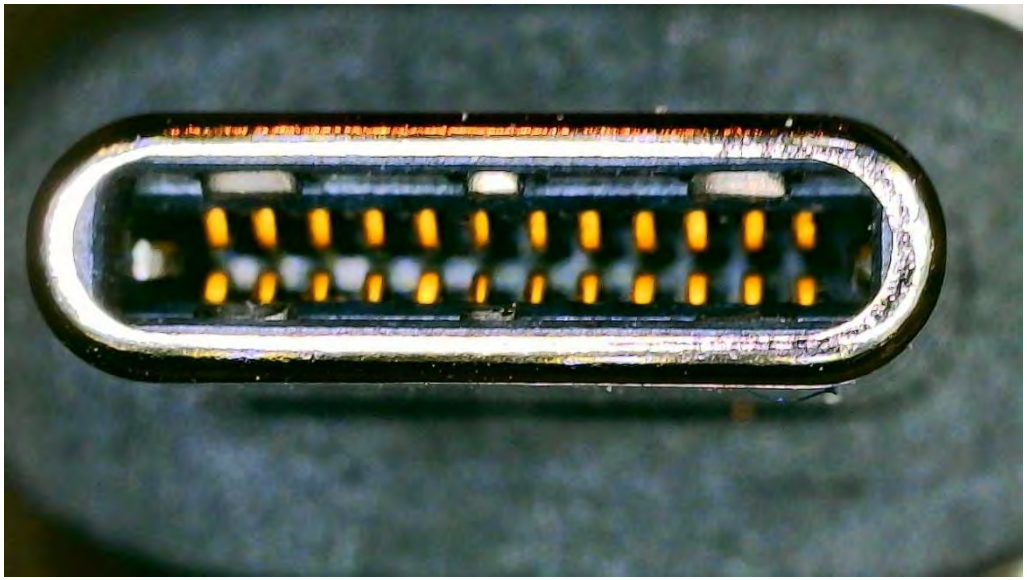
Claim 34 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

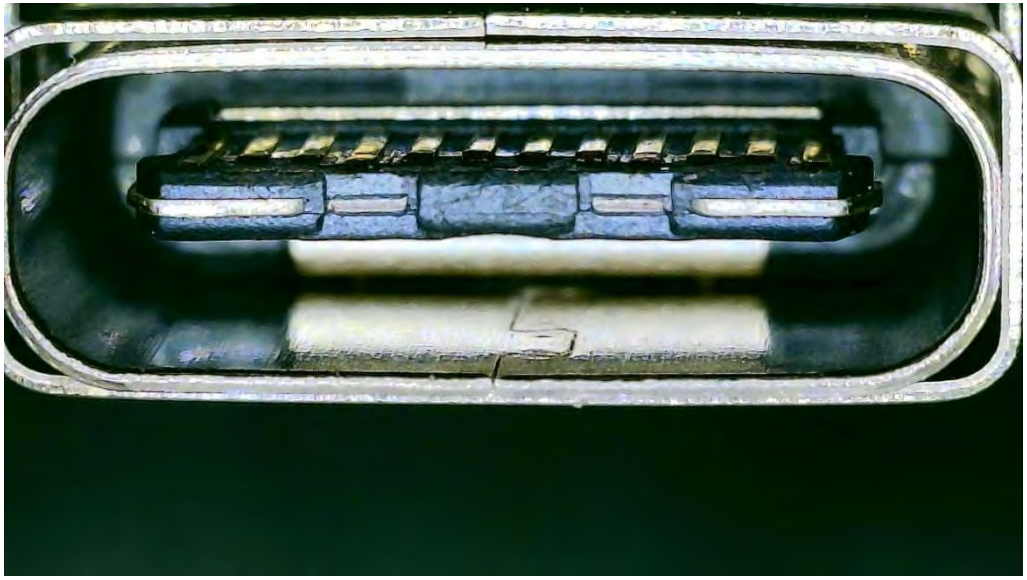
Claim 34 of the '307 Patent	**Evidence of Infringement**
[**34J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image). 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

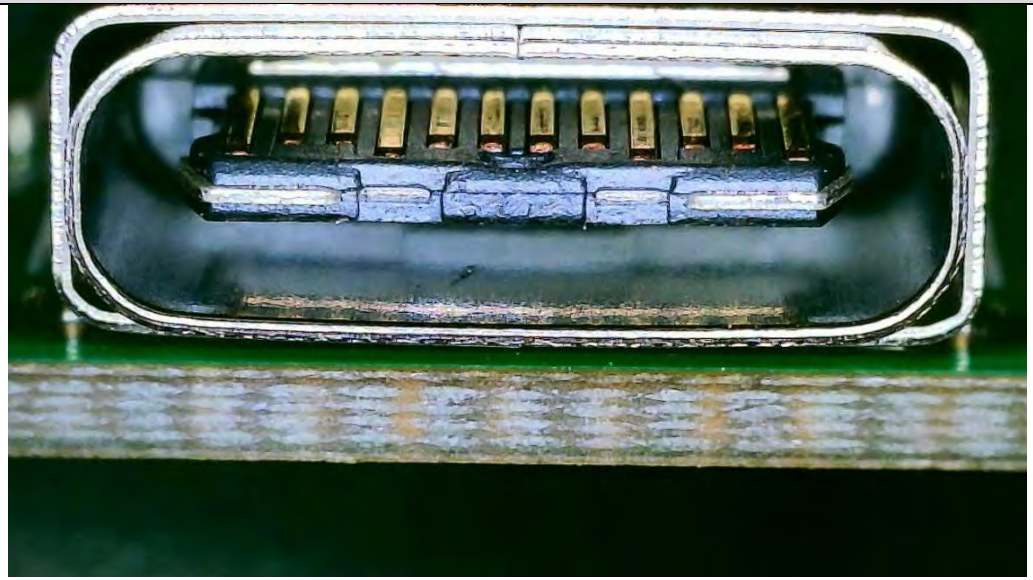
Claim 34 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung ViewFinity S80UD has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
	Table 3-4 USB Type-C Receptacle Interface Pin Assignments Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The socket structure is thereby configured for two operational states, as described below in connection with elements [**34K**] through [**34N**].
[**34K**] a first operational state when the plug is	The Samsung ViewFinity S80UD is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

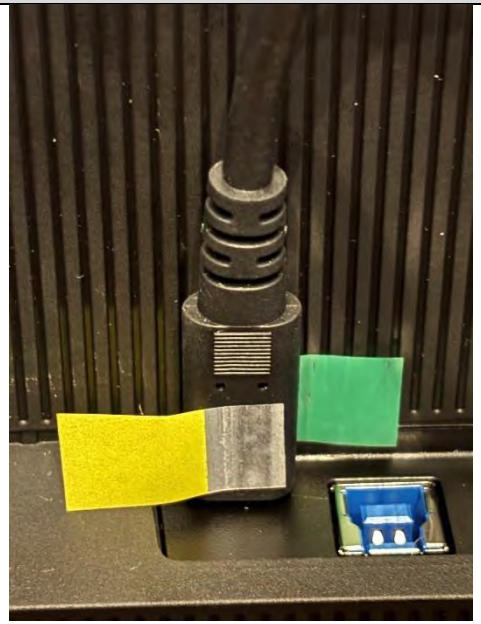
Claim 34 of the '307 Patent	Evidence of Infringement
normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed within the connection slot,	 When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the green flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as green arrows in the image below. In the normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

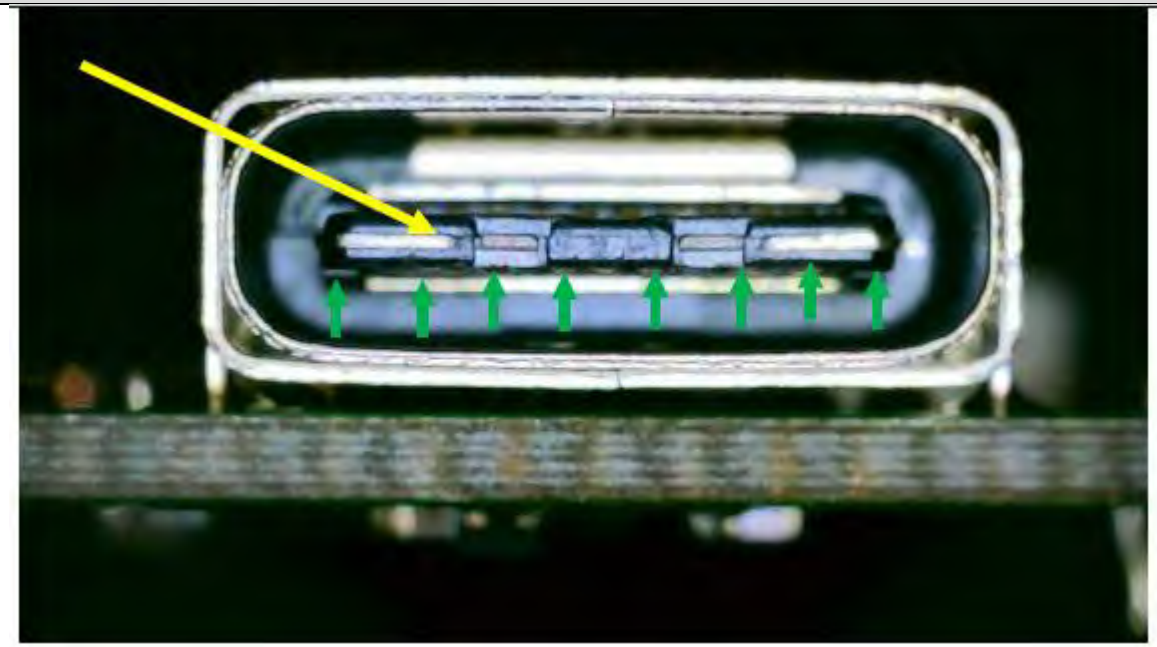
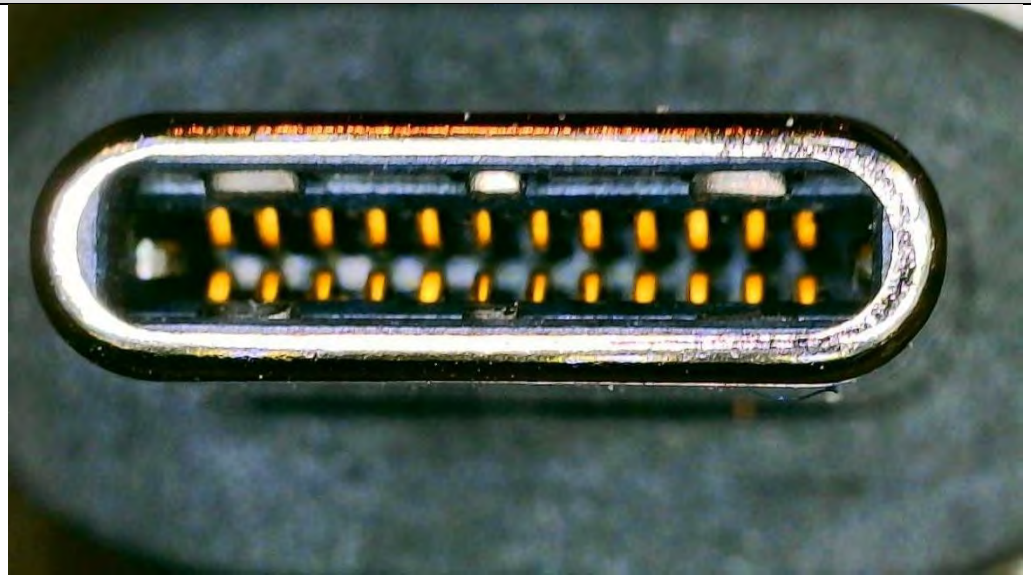
Claim 34 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable showing top and bottom rows of connection terminals.)
[**34L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The socket structure of the Samsung ViewFinity S80UD is configured for a first operational state as described above in connection with element [**34K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

Samsung, EX1004, p. 1459

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

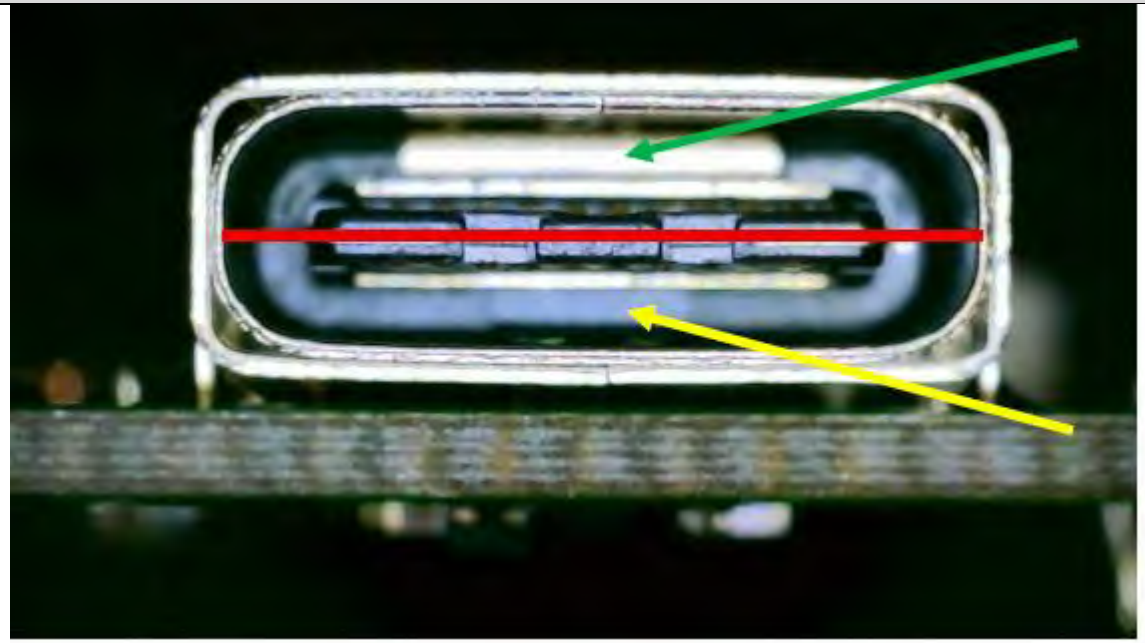
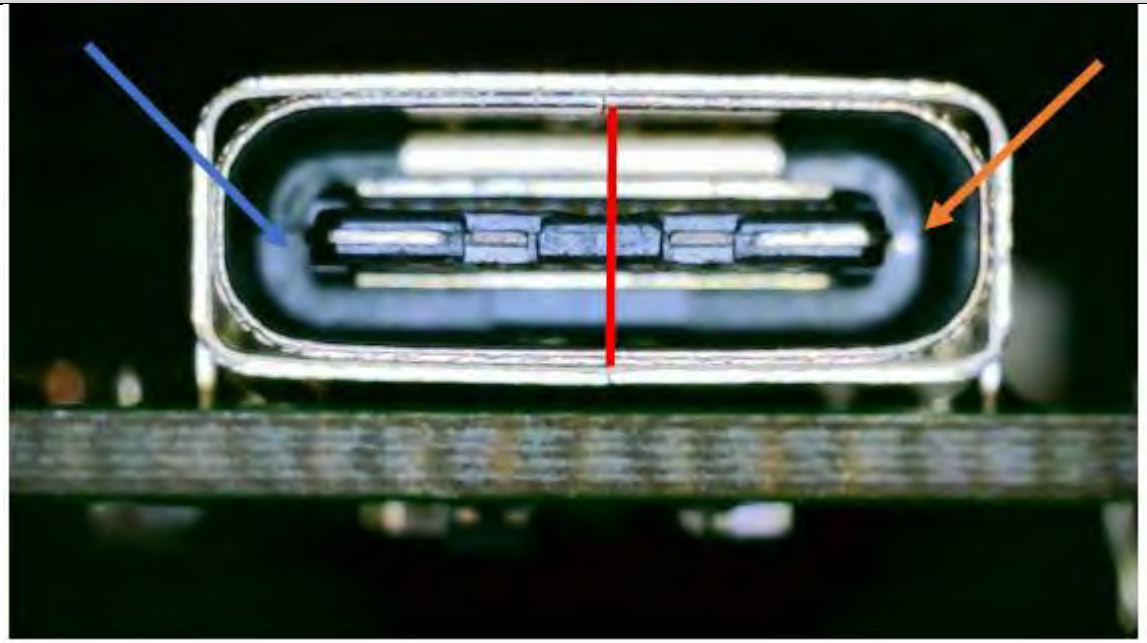
Claim 34 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows, respectively, in the image below.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

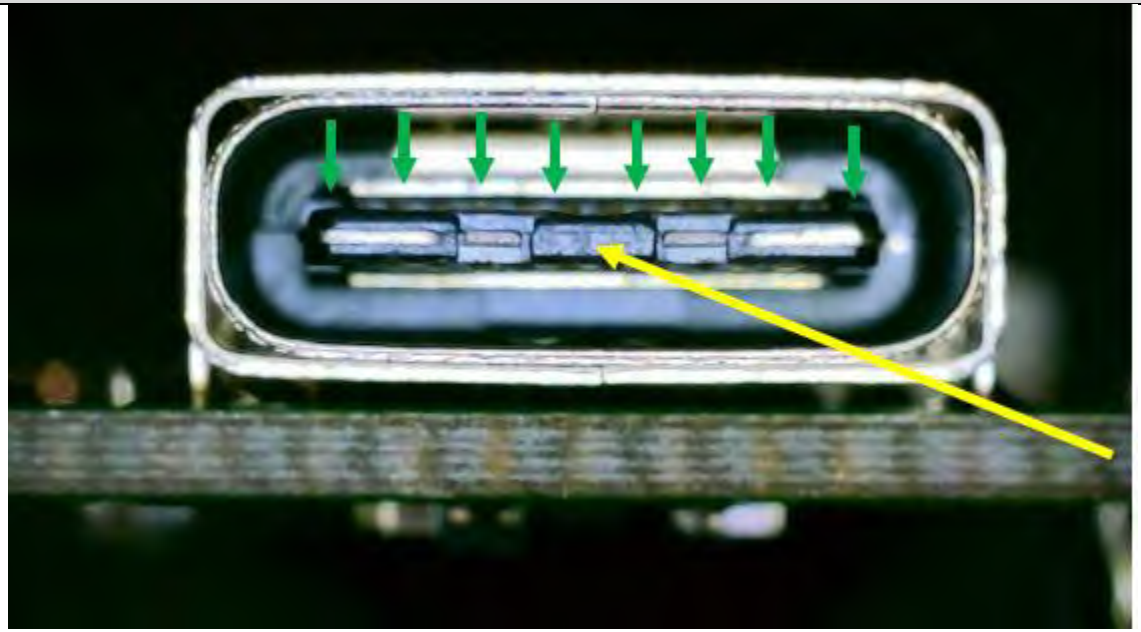
Claim 34 of the '307 Patent	Evidence of Infringement
	
[**34M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of	The socket structure of the Samsung ViewFinity S80UD is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

Samsung, EX1004, p. 1461

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	Evidence of Infringement
connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the green flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as green arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 34 of the '307 Patent	**Evidence of Infringement**
	
[**34N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**34L**].

Samsung, EX1004, p. 1463

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

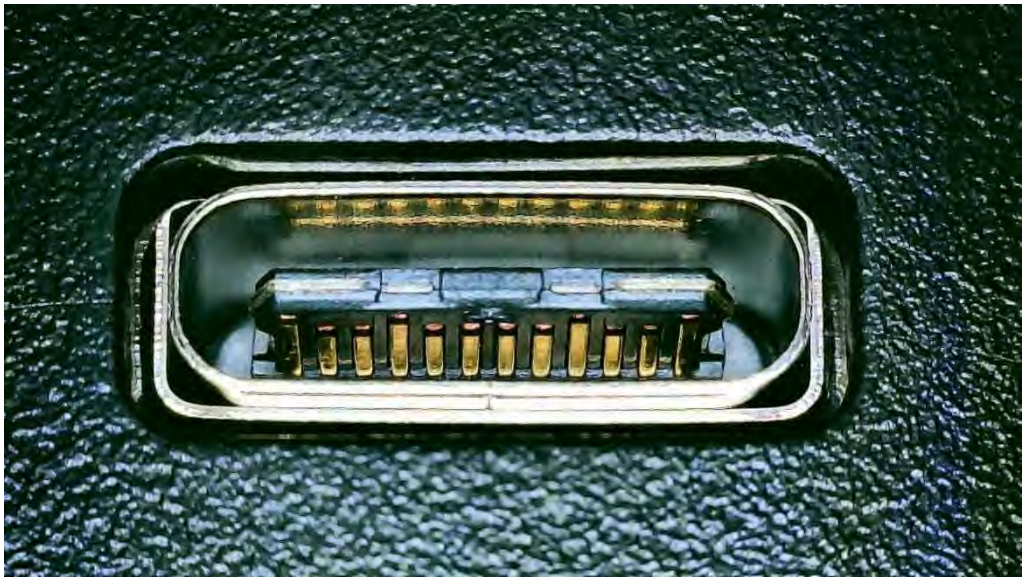
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
[**35A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**35B**] wherein the tongue only contacts an interior portion of the plug when the plug is inserted.	The tongue of the socket structure of the Samsung ViewFinity S80UD only contacts an interior portion of the plug when the plug is inserted. In particular, the tongue of the socket structure of the Samsung ViewFinity S80UD is designed to fit inside the USB plug such that electrical contacts on the top and bottom of the tongue come into contact with the electrical contacts on the interior top and bottom portion of the USB plug.  (Image showing contacts on surface of tongue.)

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

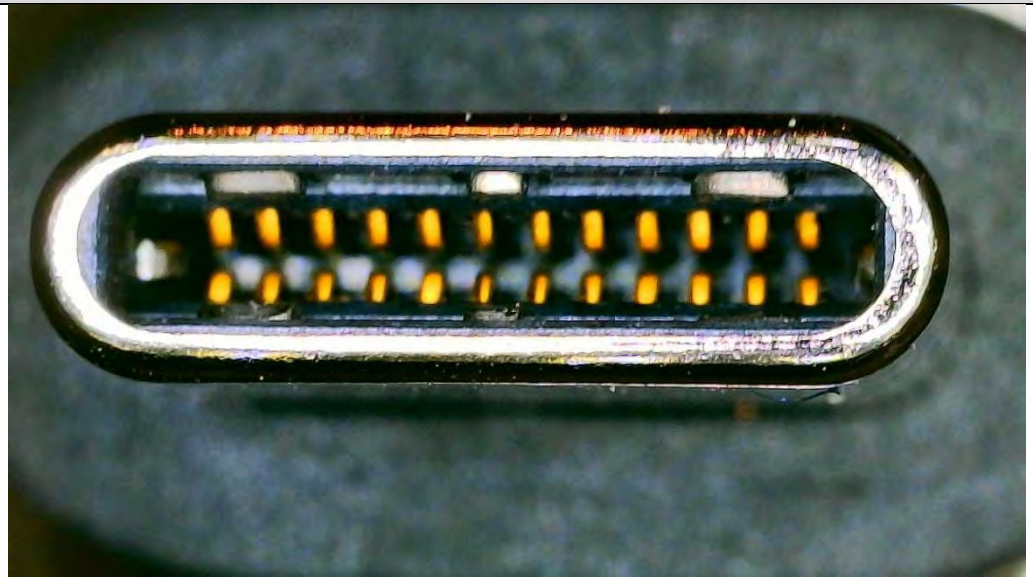
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C plug showing top and bottom rows of connection terminals)
[**36A**] The socket structure of claim 35,	This Accused Instrumentality includes a socket structure as described in claim 35, as described above in connection with elements [**35A**] through [**35B**].
[**36B**] wherein a thickness of the tongue is less than a third of a height of the connection slot.	The Samsung ViewFinity S80UD includes a USB-C port and is compatible with USB-C cables, as further described above in connection with element [**34A**]. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

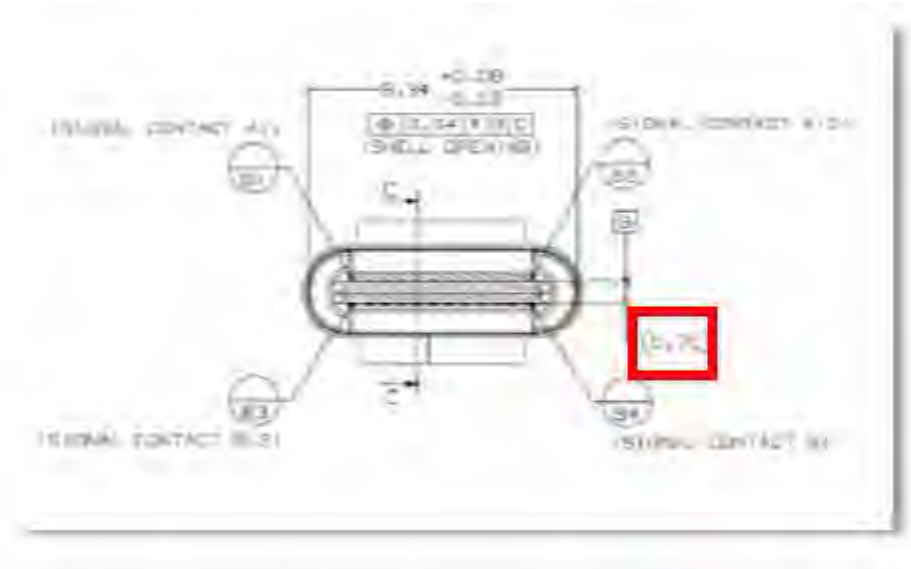
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). The USB-C standard specifies that the width of the tongue is 0.7 mm and that the width of the receptacle is at least 2.5 mm, meaning that the thickness of the tongue is less than a third of the thickness of the connection slot (0.7/2.5=0.28<0.33).  Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

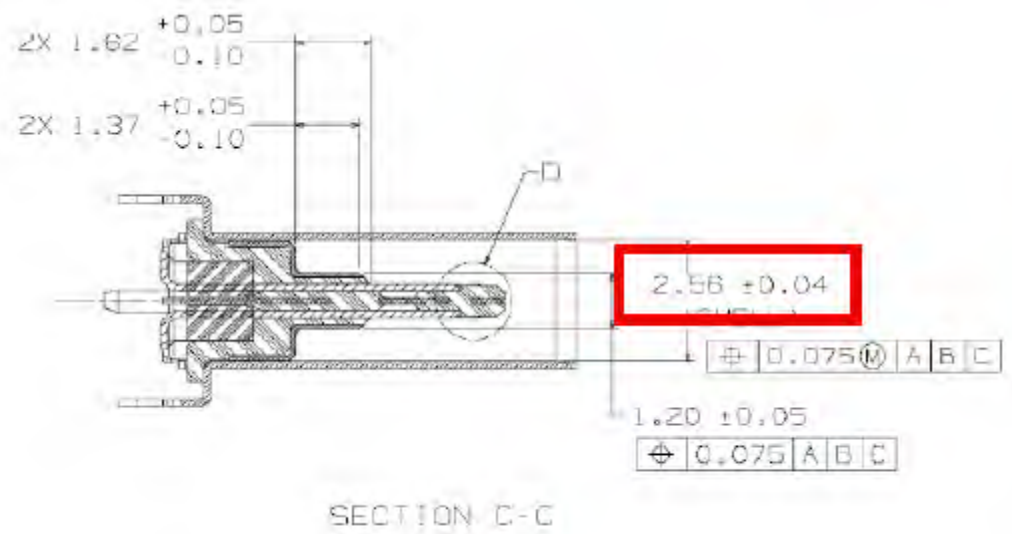
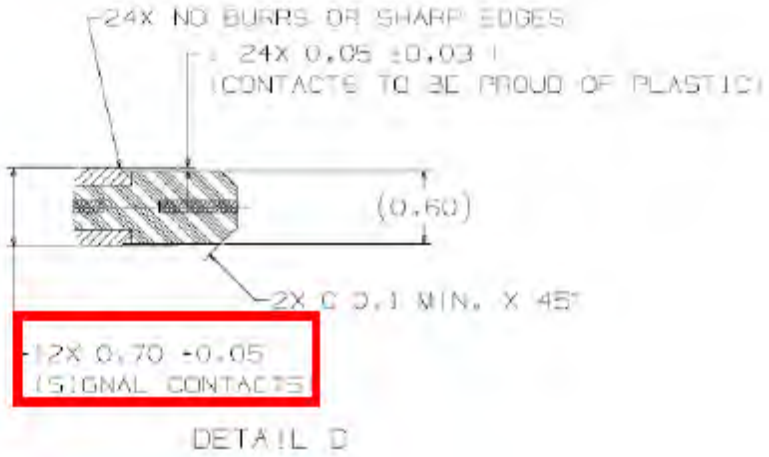
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 *Id.* 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

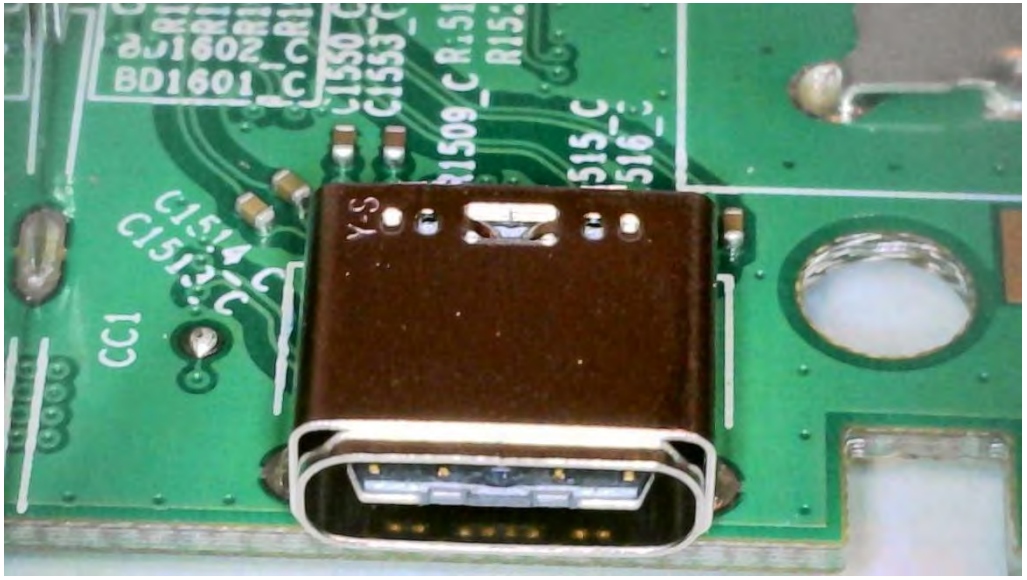
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	Id. In addition, testing confirms that a thickness of the tongue is less than a third of a height of the connection slot.
[**39A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**39B**] further comprising a metal housing at least partially covering the plastic base.	The socket structure of the Samsung ViewFinity S80UD includes a metal housing that covers the plastic base at least in part. 
[**40A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**40B**] wherein the socket structure is a	The socket structure of the Samsung ViewFinity S80UD is a universal serial bus, or USB, socket structure.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
universal serial bus socket structure.	 *See* https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025).; *see also* element [**34A**].
[**41A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**41B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base are integrally formed. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

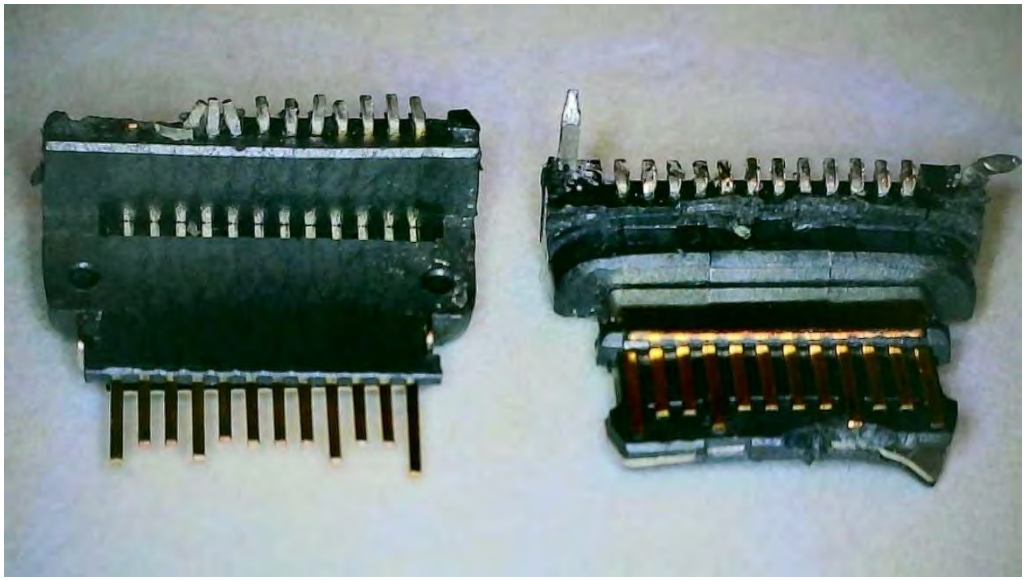
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
[**42A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**42B**] wherein each contact of the first and second contacts is a portion of a respective terminal.	Each contact of the first and second contacts is a portion of a respective terminal. 
[**43A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**43B**] wherein each of the first contacts is electrically connected to the respective first pin extending out of the plastic base through a rear cover and each of the second contacts is	Each of the first and second contacts is electrically connected to a respective first and second pins extending out of the plastic base. As demonstrated above in connection with elements [**34F**] and [**34G**], the socket structure of the Samsung ViewFinity S80UD includes twelve first contacts and twelve second contacts corresponding to the 24 pins extending out from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

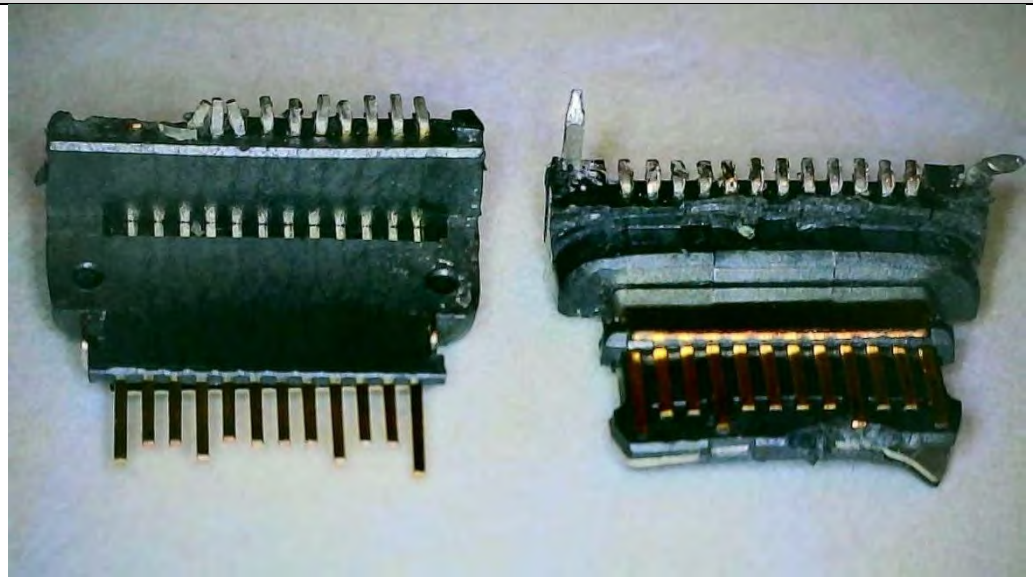
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
electrically connected to the respective second pin extending out of the plastic base through the rear cover.	 The pins extend out of the plastic base through a rear cover.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

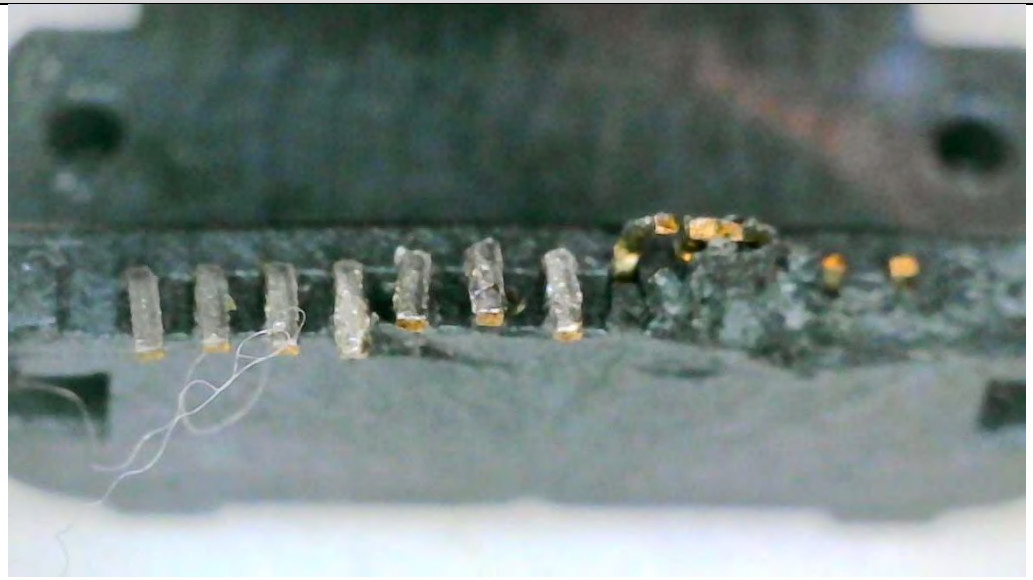
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

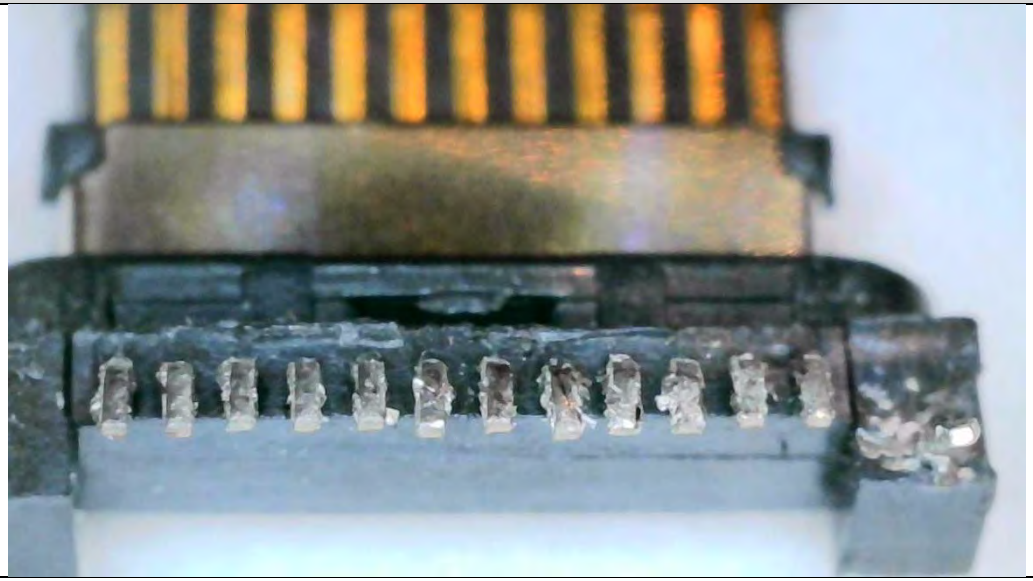
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	
[**44A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**44B**] wherein at least two of the first contacts are not in electrical communication with one another, and at least two of the second contacts are not in electrical communication with one another.	At least one of each of the first and second contacts of the Samsung ViewFinity S80UD are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung ViewFinity S80UD includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

The Samsung ViewFinity S80UD would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

In addition, testing confirms that at least two of the first contacts are not in electrical communication with one another, and at least two of the second contacts are not in electrical communication with one another.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

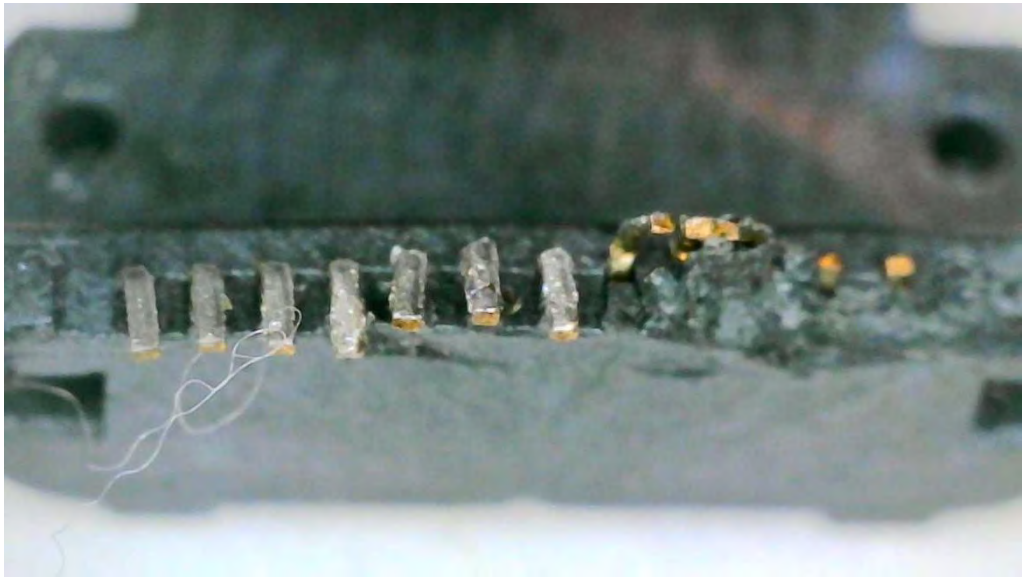
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
[**45A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**45B**] further comprising a rear cover attached to the plastic base.	The socket structure of the ViewFinity S80UD includes a rear cover attached to the plastic base. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

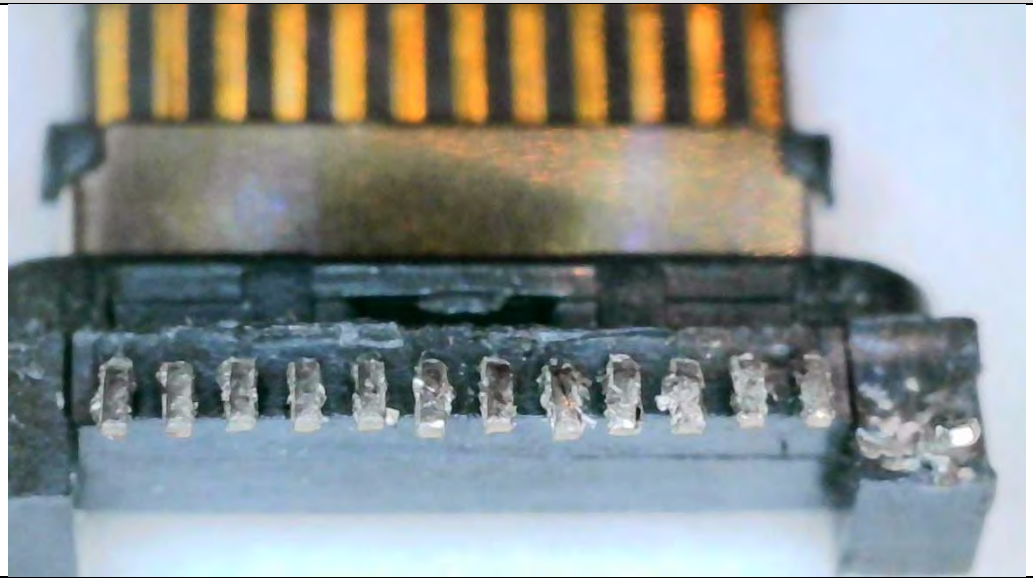
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	
[**46A**] The socket structure of claim 45,	This Accused Instrumentality includes a socket structure as described in claim 45, as described above in connection with elements [**45A**] through [**45B**].
[**46B**] wherein each of the first contacts is electrically connected to the respective first pin extending out of the plastic base through the rear cover.	Each of the first and second contacts is electrically connected to a respective first and second pins extending out of the plastic base. As demonstrated above in connection with elements [**34F**] and [**34G**], the socket structure of the Samsung ViewFinity S80UD includes twelve first contacts and twelve second contacts corresponding to the 24 pins extending out from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

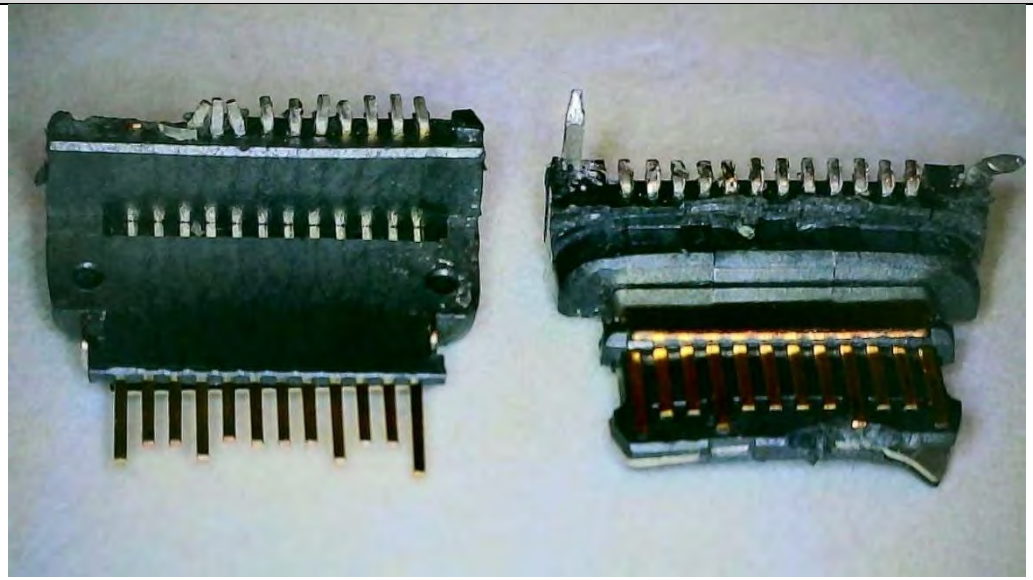
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 The pins extend out of the plastic base through a rear cover.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

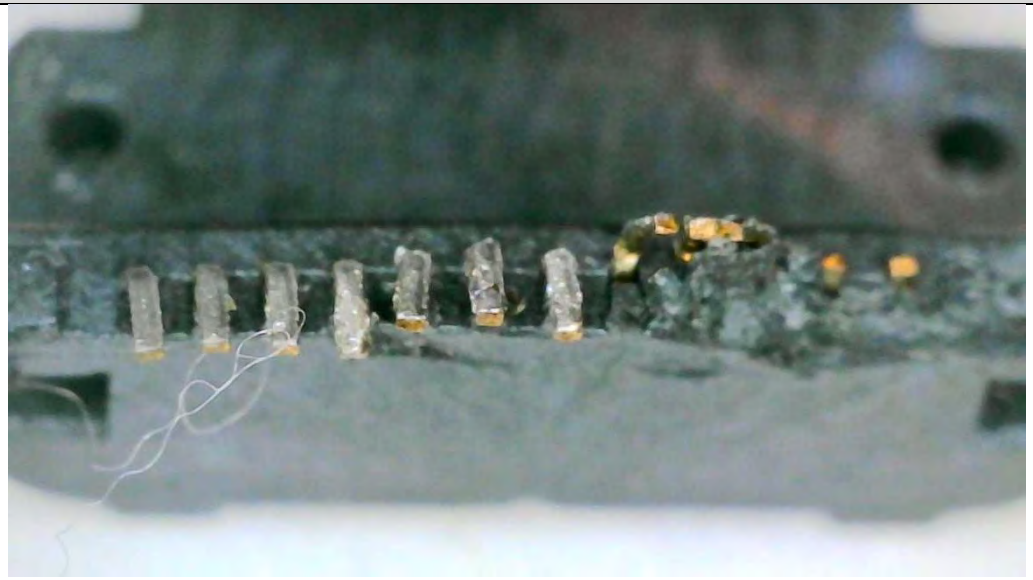
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

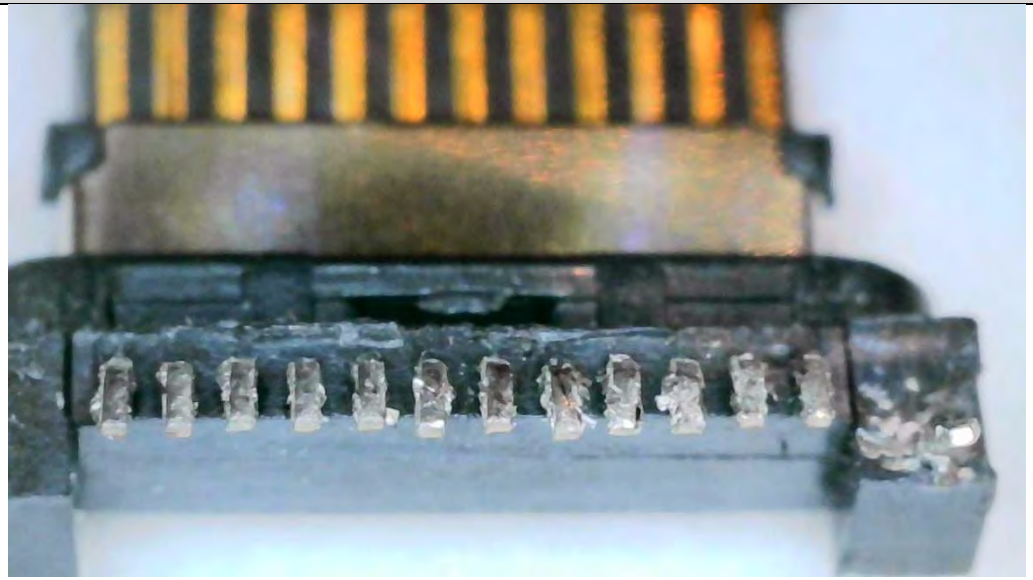
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**43B**].
[**47A**] The socket structure of claim 45,	This Accused Instrumentality includes a socket structure as described in claim 45, as described above in connection with elements [**45A**] through [**45B**].
[**47B**] wherein each of the second contacts is electrically connected to the respective second pin extending out of the plastic base through the rear cover.	Each of the first and second contacts is electrically connected to a respective first and second pins extending out of the plastic base. As demonstrated above in connection with elements [**34F**] and [**34G**], the socket structure of the Samsung ViewFinity S80UD includes twelve first contacts and twelve second contacts corresponding to the 24 pins extending out from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

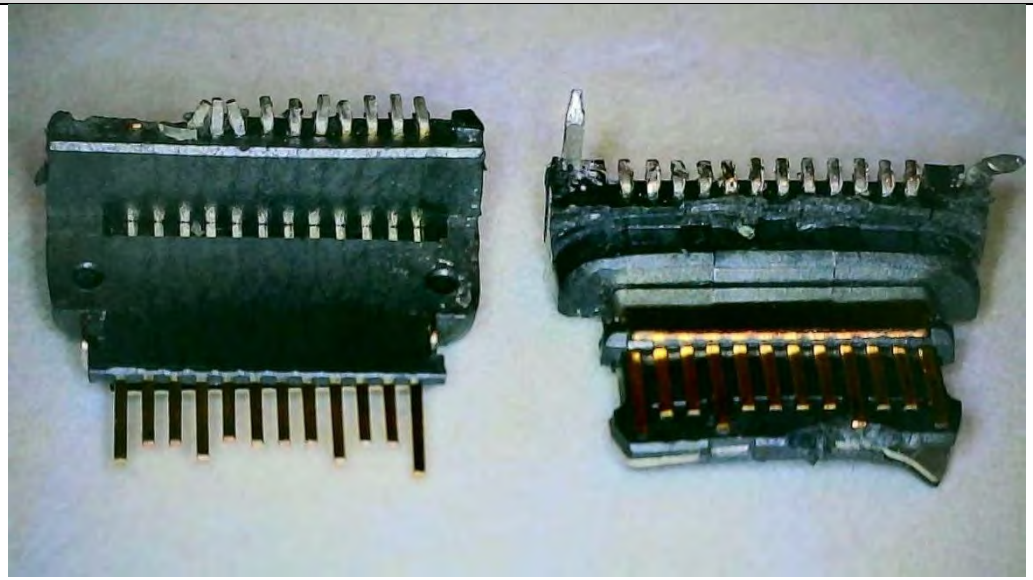
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 The pins extend out of the plastic base through a rear cover.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

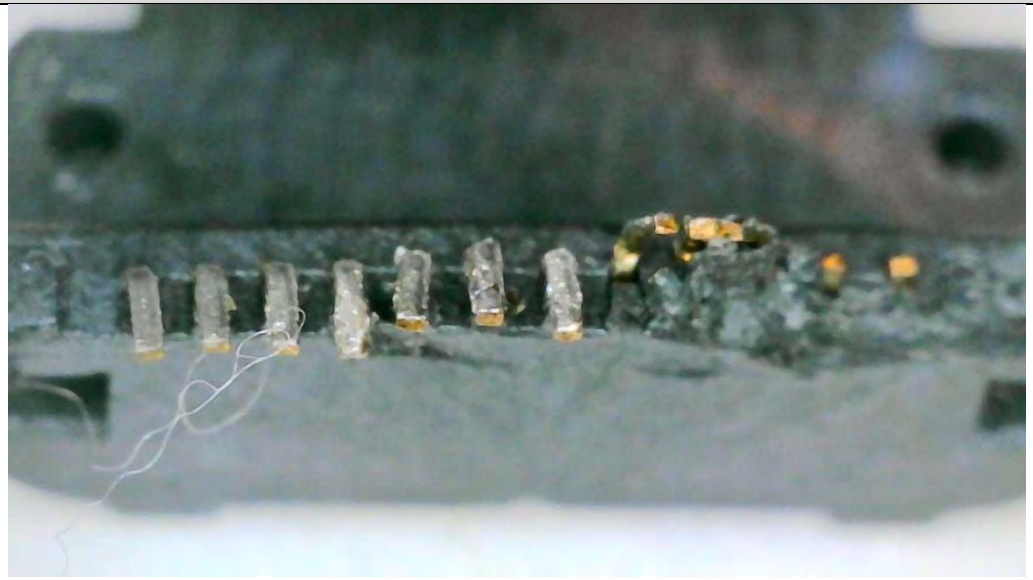
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

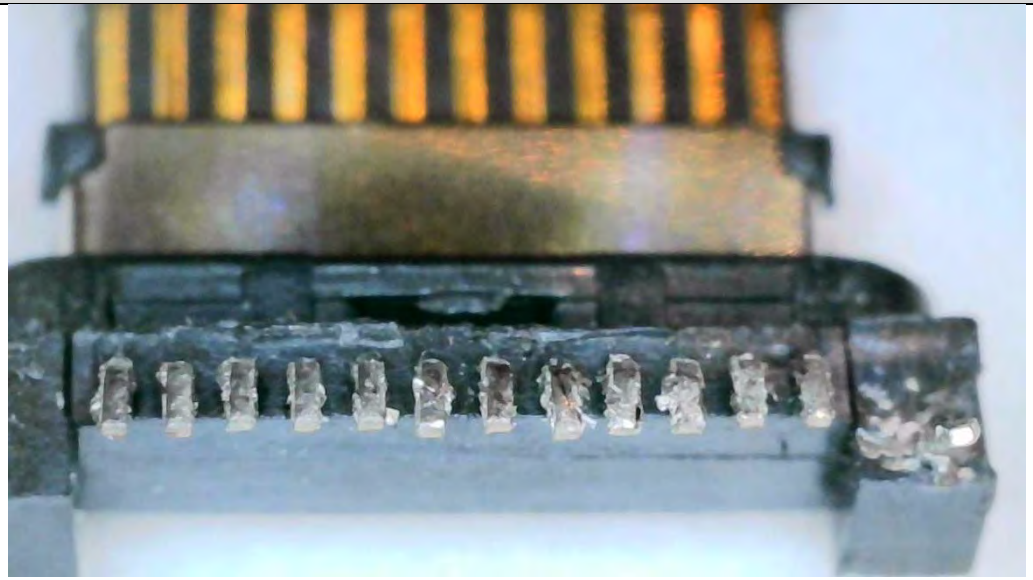
Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**43B**].
[**48A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**48B**] wherein the socket structure is operatively connected to the plug, and wherein the socket structure is operative to simultaneously electrically connect with the first and second contacts.	When the plug is connected with the socket structure, the socket structure is operatively connected to the plug.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

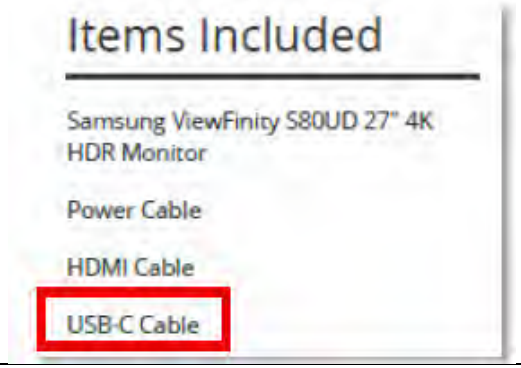
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 The Samsung ViewFinity S80UD is packaged with a USB-C cable, as further described above in connection with element [**34A**]. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

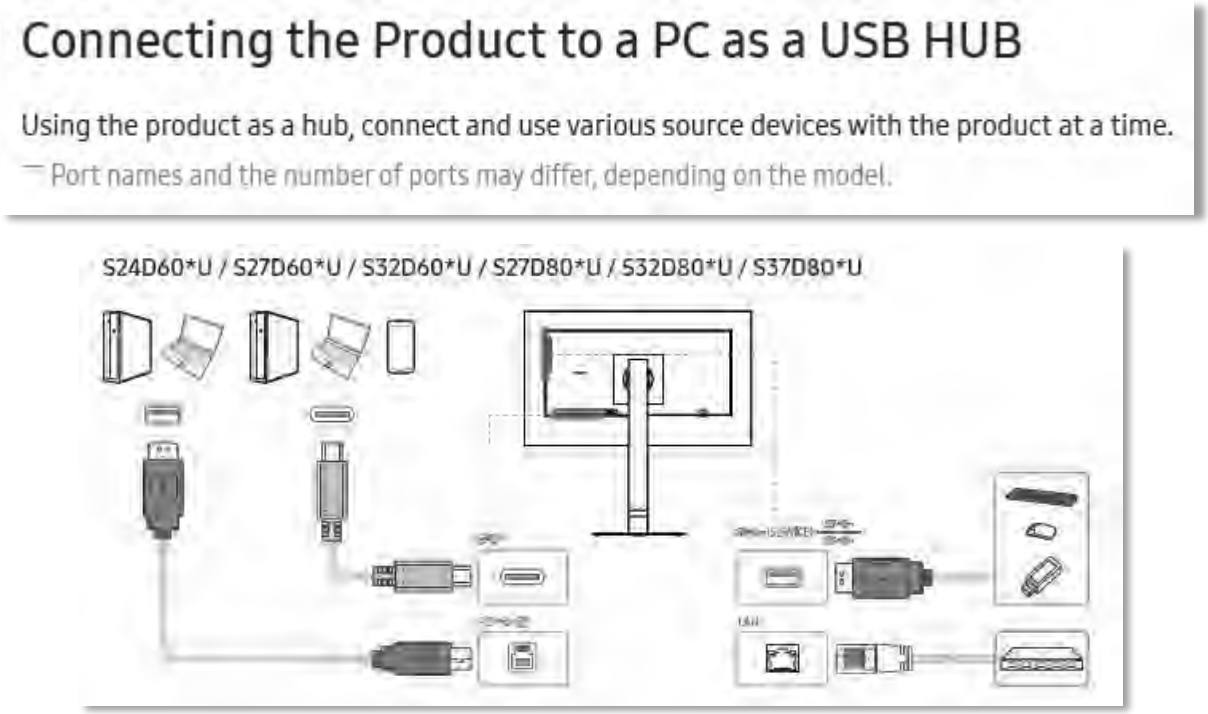
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	See https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). Samsung provides instructions to its customers to insert the USB cable into the USB port of the ViewFinity S80UD.  User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

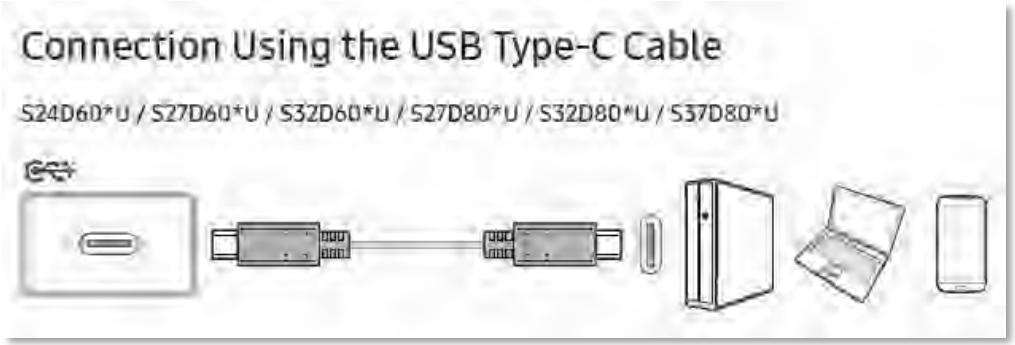
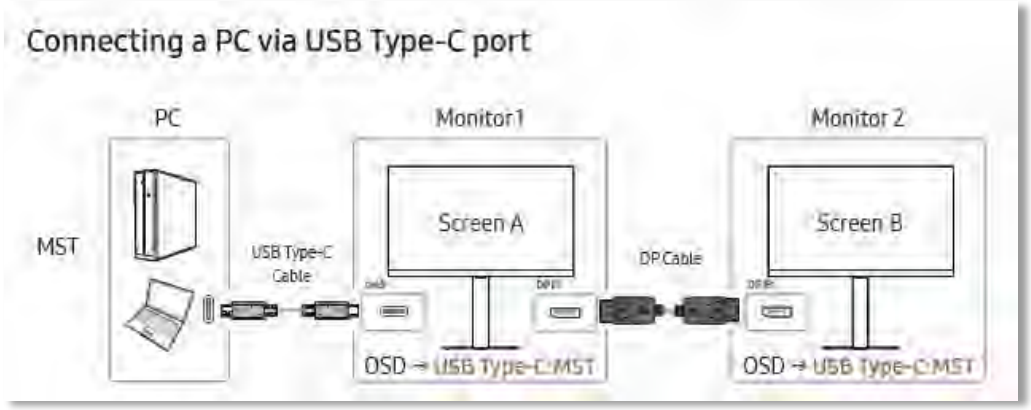
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025).  *Id.*  *Id.* Indeed, the primary if not entire purpose of the USB-C port is to permit a plug to be inserted into the USB-C port so that another device can be connected to the Samsung ViewFinity S80UD for charging and/or data transfer.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	**Evidence of Infringement**
	In this configuration, the socket structure is operative to simultaneously electrically connect with the first and second contacts, as described above in connection with element [**34I**].
[**49A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**49B**] wherein at least two of the first contacts are not in electrical communication with one another.	At least one of each of the first and second contacts of the Samsung ViewFinity S80UD are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung ViewFinity S80UD includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [**34A**]. The USB-C standard describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

The Samsung ViewFinity S80UD would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12).

In addition, testing confirms that at least two of the first contacts are not in electrical communication with one another, and at least two of the second contacts are not in electrical communication with one another.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

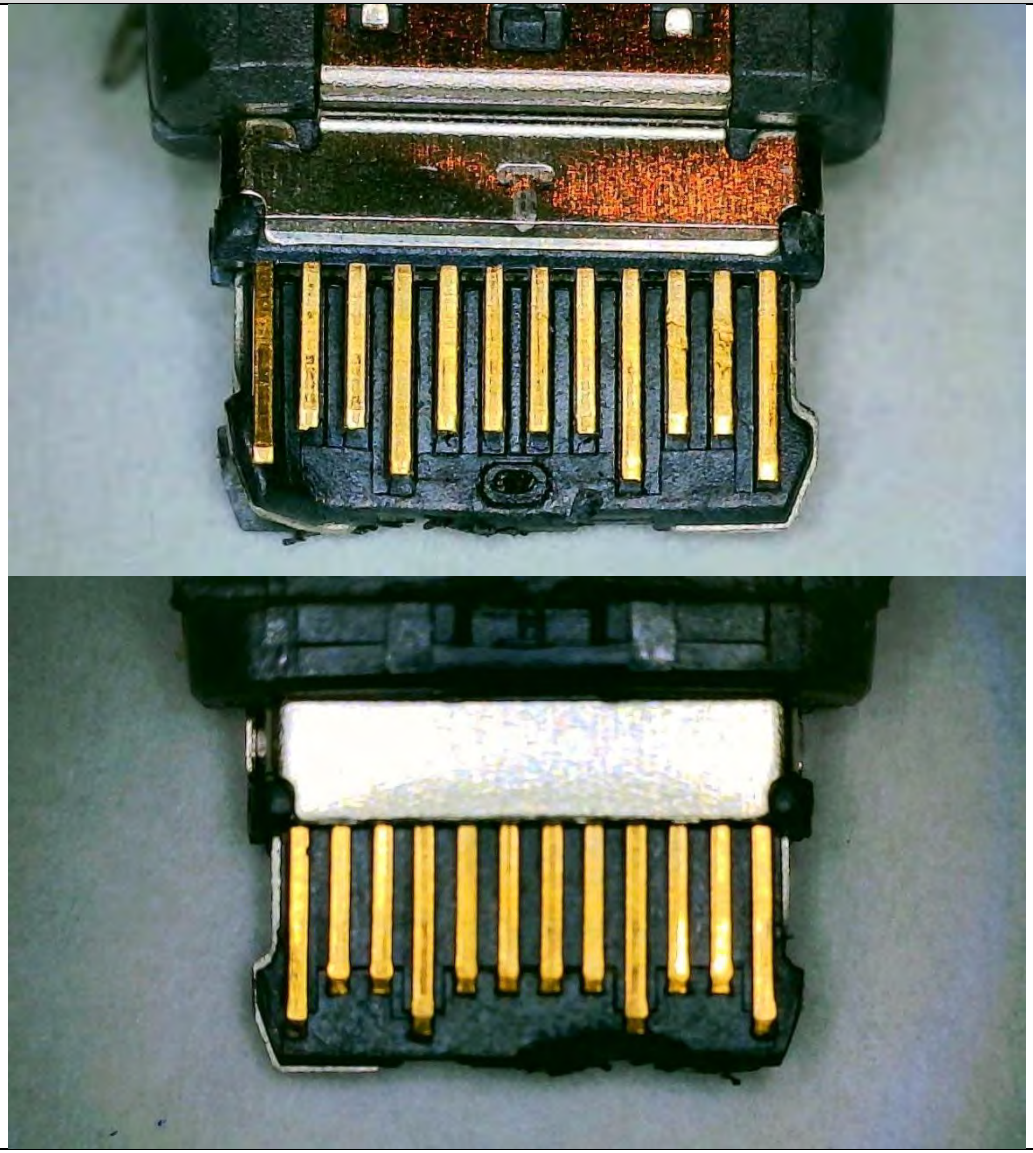
<table>
<tr><th>Claims 35 through 55 of the ‘307 Patent</th><th>Evidence of Infringement</th></tr>
<tr><td></td><td>See also Element [44B].</td></tr>
<tr><td>[50A] The socket structure of claim 34,</td><td>This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [34A] through [34N].</td></tr>
<tr><td>[50B] wherein at least two of the second contacts are not in electrical communication with one another.</td><td>At least one of each of the first and second contacts of the Samsung ViewFinity S80UD are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung ViewFinity S80UD includes a USB-C socket and is compatible with USB-C cables, as further described above in connection with element [34A]. The USB-C standard describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments
<table><tr><th>Pin</th><th>Signal Name</th><th>Description</th><th>Mating Sequence</th><th>Pin</th><th>Signal Name</th><th>Description</th><th>Mating Sequence</th></tr><tr><td>A1</td><td>GND</td><td>Ground return</td><td>First</td><td>B12</td><td>GND</td><td>Ground return</td><td>First</td></tr><tr><td>A2</td><td>TXp1</td><td>Positive half of first TX differential pair</td><td>Second</td><td>B11</td><td>RXp1</td><td>Positive half of first RX differential pair</td><td>Second</td></tr><tr><td>A3</td><td>TXn1</td><td>Negative half of first TX differential pair</td><td>Second</td><td>B10</td><td>RXn1</td><td>Negative half of first RX differential pair</td><td>Second</td></tr><tr><td>A4</td><td>VBUS</td><td>Bus Power</td><td>First</td><td>B9</td><td>VBUS</td><td>Bus Power</td><td>First</td></tr><tr><td>A5</td><td>CC1</td><td>Configuration Channel</td><td>Second</td><td>B8</td><td>SBU2</td><td>Sideband Use (SBU)</td><td>Second</td></tr><tr><td>A6</td><td>Dp1</td><td>Positive half of the USB 2.0 differential pair – Position 1</td><td>Second</td><td>B7</td><td>Dn2</td><td>Negative half of the USB 2.0 differential pair – Position 2</td><td>Second</td></tr><tr><td>A7</td><td>Dn1</td><td>Negative half of the USB 2.0 differential pair – Position 1</td><td>Second</td><td>B6</td><td>Dp2</td><td>Positive half of the USB 2.0 differential pair – Position 2</td><td>Second</td></tr><tr><td>A8</td><td>SBU1</td><td>Sideband Use (SBU)</td><td>Second</td><td>B5</td><td>CC2</td><td>Configuration Channel</td><td>Second</td></tr><tr><td>A9</td><td>VBUS</td><td>Bus Power</td><td>First</td><td>B4</td><td>VBUS</td><td>Bus Power</td><td>First</td></tr><tr><td>A10</td><td>RXn2</td><td>Negative half of second RX differential pair</td><td>Second</td><td>B3</td><td>TXn2</td><td>Negative half of second TX differential pair</td><td>Second</td></tr><tr><td>A11</td><td>RXp2</td><td>Positive half of second RX differential pair</td><td>Second</td><td>B2</td><td>TXp2</td><td>Positive half of second TX differential pair</td><td>Second</td></tr><tr><td>A12</td><td>GND</td><td>Ground return</td><td>First</td><td>B1</td><td>GND</td><td>Ground return</td><td>First</td></tr></table></td></tr>
</table>

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. The Samsung ViewFinity S80UD would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12). In addition, testing confirms that at least two of the first contacts are not in electrical communication with one another, and at least two of the second contacts are not in electrical communication with one another. *See also* Element [**44B**].
[**51A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**51B**] wherein the at least one row of first contacts and respective first pins are located at ends of respective ones of a row of first terminals and the at least one row of second contacts and respective second pins are located at ends of respective ones of a row of second terminals.	The contacts and pins of the socket structure of the ViewFinity S80UD are each located at the ends of a corresponding terminal. In particular, each of the first and second contacts is located at one end of a row of terminals.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1490

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

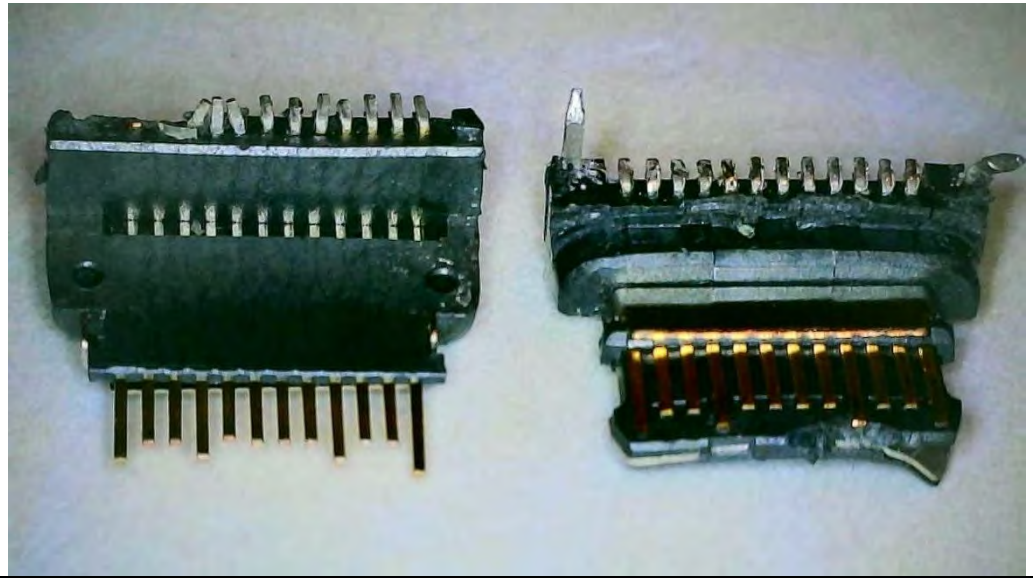
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	The respective first and second pins are located at the other end of each terminal. 
[**52A**] The socket structure of claim 34,	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**52B**] wherein a portion of a first contact projects beyond one surface of the tongue, and a portion of a second contact projects beyond another surface of the tongue.	A portion of the contacts of the socket structure of the Samsung ViewFinity S80UD projects beyond the surfaces of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 In addition, the Samsung ViewFinity S80UD includes a USB-C port and is comparable with the included USB-C cable, as further described above in connection with element [**34A**]. The USB-C standard indicates that the contacts should be proud of plastic.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

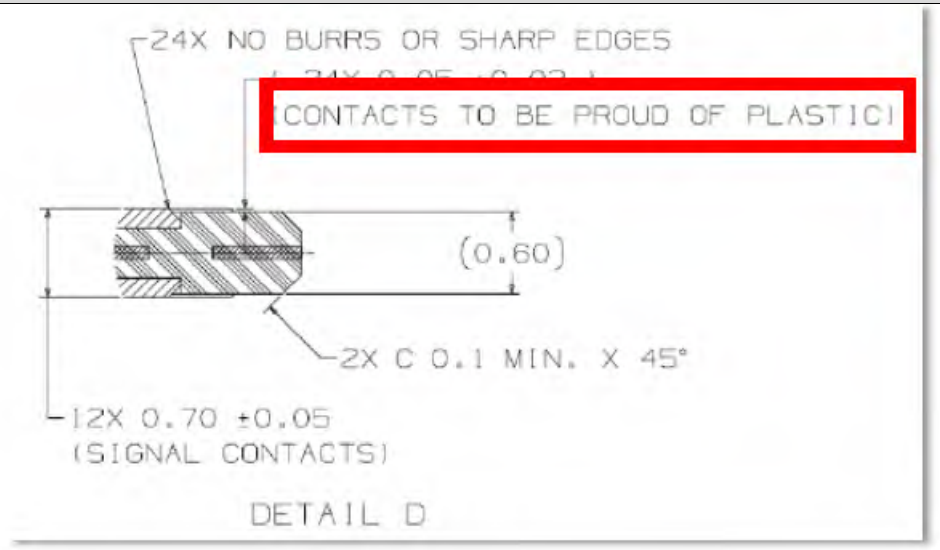
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1.
[**55A**] An electrical connection system comprising	The Samsung ViewFinity S80UD and a USB-C plug such as the included USB-C cable form an electrical connection system.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 The socket structure of the Samsung ViewFinity S80UD is specifically designed (and intended) to be connected with a USB-C plug such as the included USB-C cable, and indeed Samsung provides instructions to its customers to insert the USB-C plug into the USB port of the Samsung ViewFinity S80UD. For example, the Samsung ViewFinity S80UD is packaged with a USB-C cable, as further described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

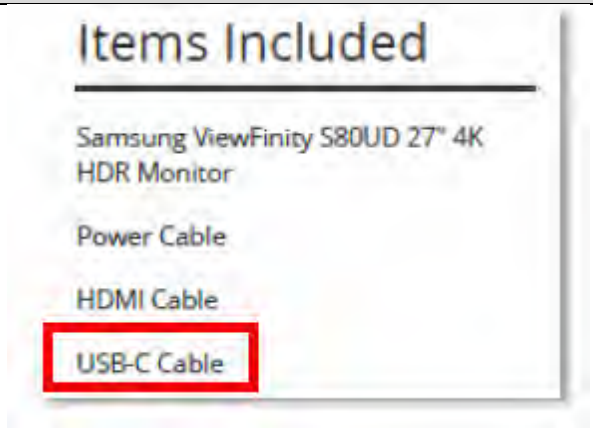
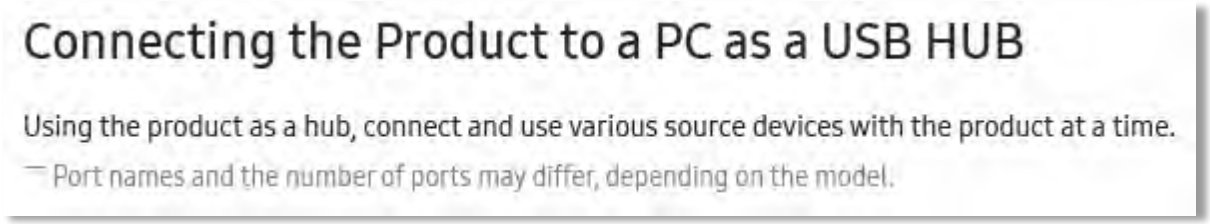
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 *See* https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). Samsung provides instructions to its customers to insert the USB cable into the USB port of the ViewFinity S80UD. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

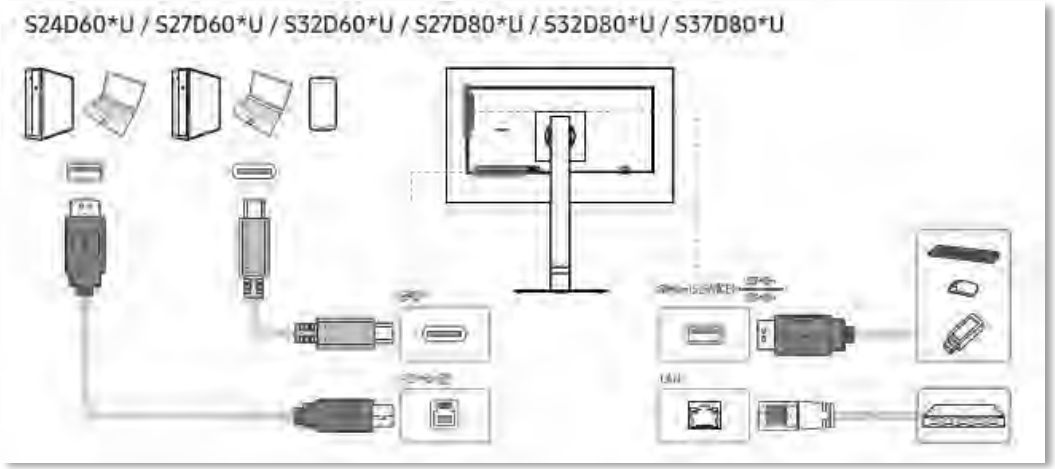
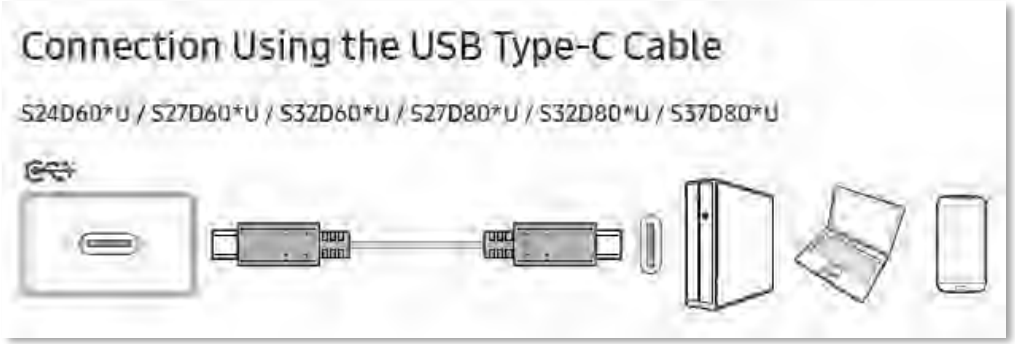
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025).  *Id.*

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

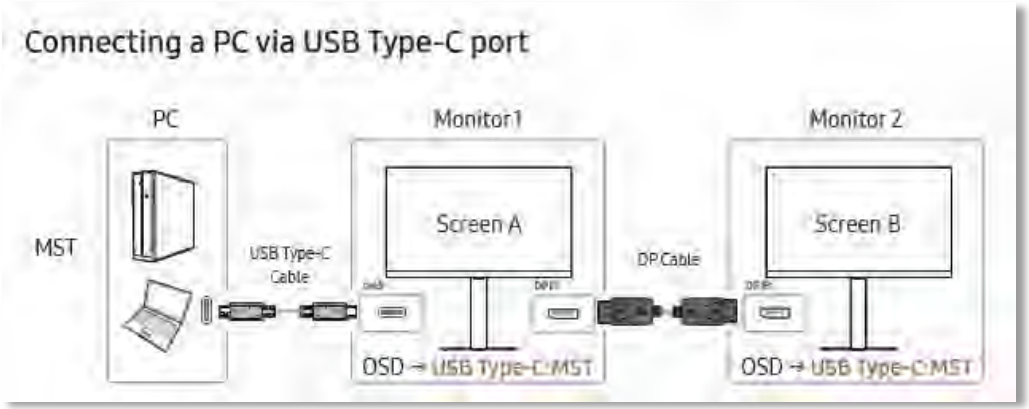
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	 *Id.* Indeed, the primary if not entire purpose of the USB-C port is to permit a plug to be inserted into the USB-C port so that another device can be connected to the Samsung ViewFinity S80UD for charging and/or data transfer. *See also* Element [**48B**].
[**55B**] the socket structure with the duplex electrical connection of claim 34 and	This Accused Instrumentality includes a socket structure as described in claim 34, as described above in connection with elements [**34A**] through [**34N**].
[**55C**] the plug.	The Samsung ViewFinity S80UD is packaged with a USB-C cable which includes a USB-C plug.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

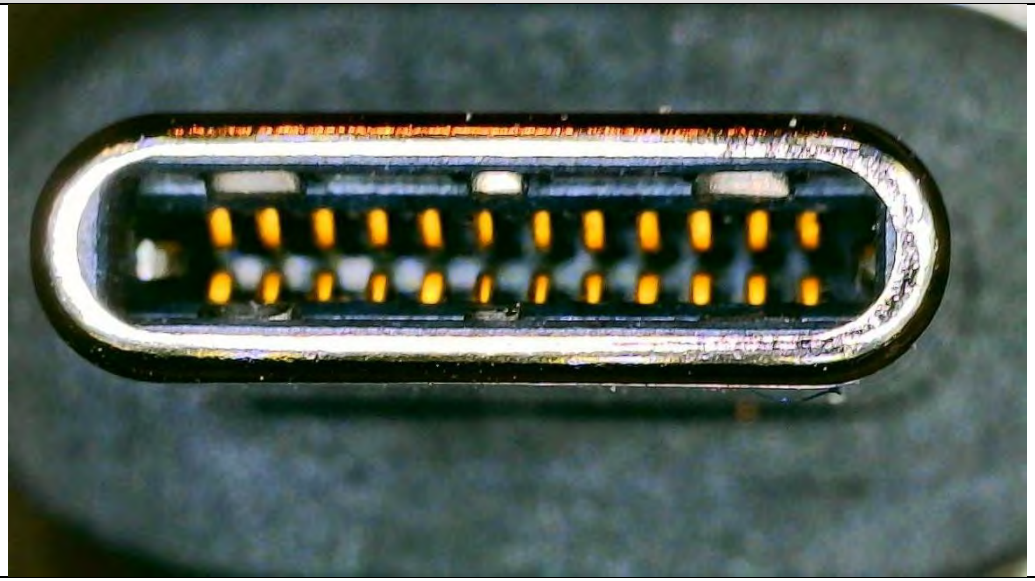
Claims 35 through 55 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

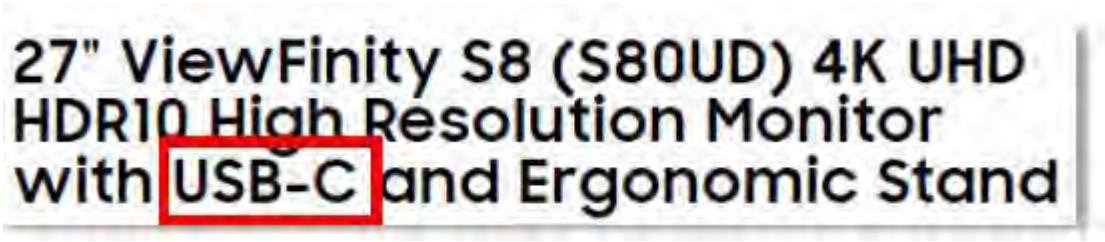
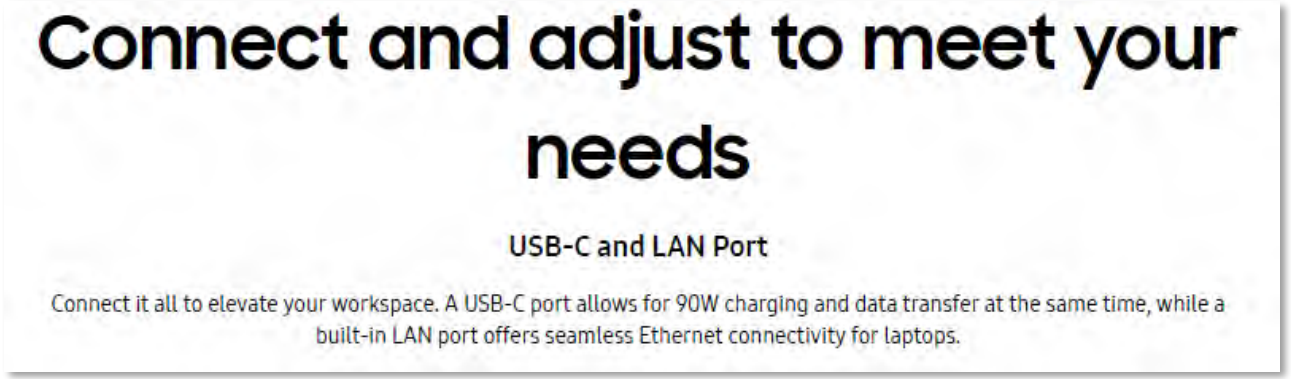
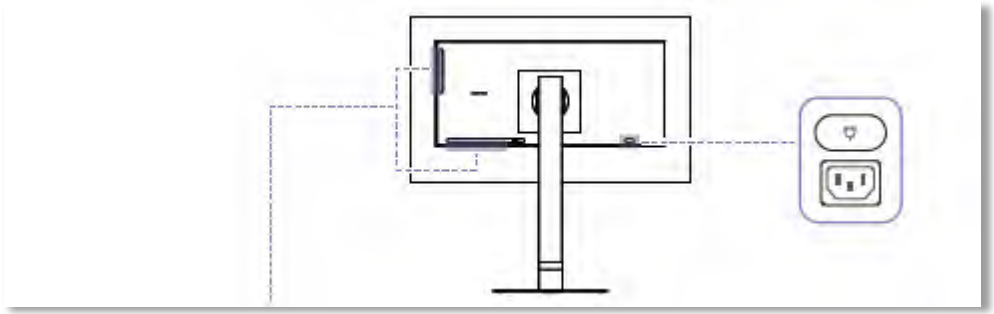
Claim 56 of the '307 Patent	**Evidence of Infringement**
[**56A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung ViewFinity S80UD is a monitor that includes a socket structure with duplex electrical connection. In particular, the Samsung ViewFinity S80UD provides duplex electrical connection via a USB-C port.  *See* https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025).  *Id.* • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops. *Id.*

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement



Id.



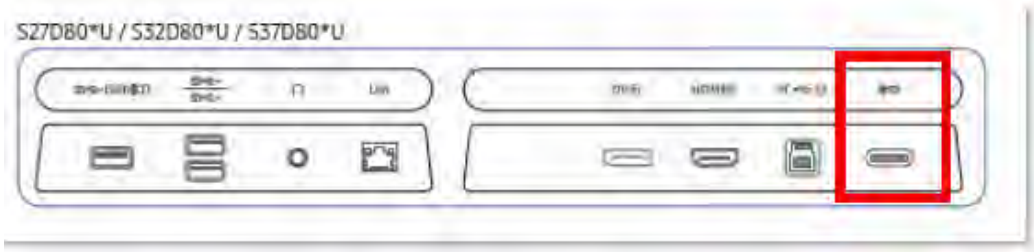


EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

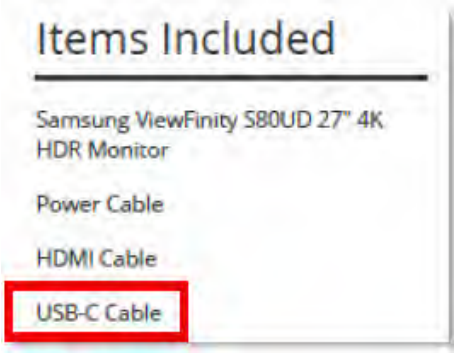
Claim 56 of the '307 Patent	Evidence of Infringement
	User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). In addition, the Samsung ViewFinity S80UD is packaged and compatible with a USB-C cable.  (Image of cable included in packaging) 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	**Evidence of Infringement**
	See https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**56B**] through [**56L**].
[**56B**] a plastic base;	The socket structure of the Samsung ViewFinity S80UD includes a plastic base. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of ViewFinity S80UD.) *See also* Element [**34B**].
[**56C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung ViewFinity S80UD includes a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

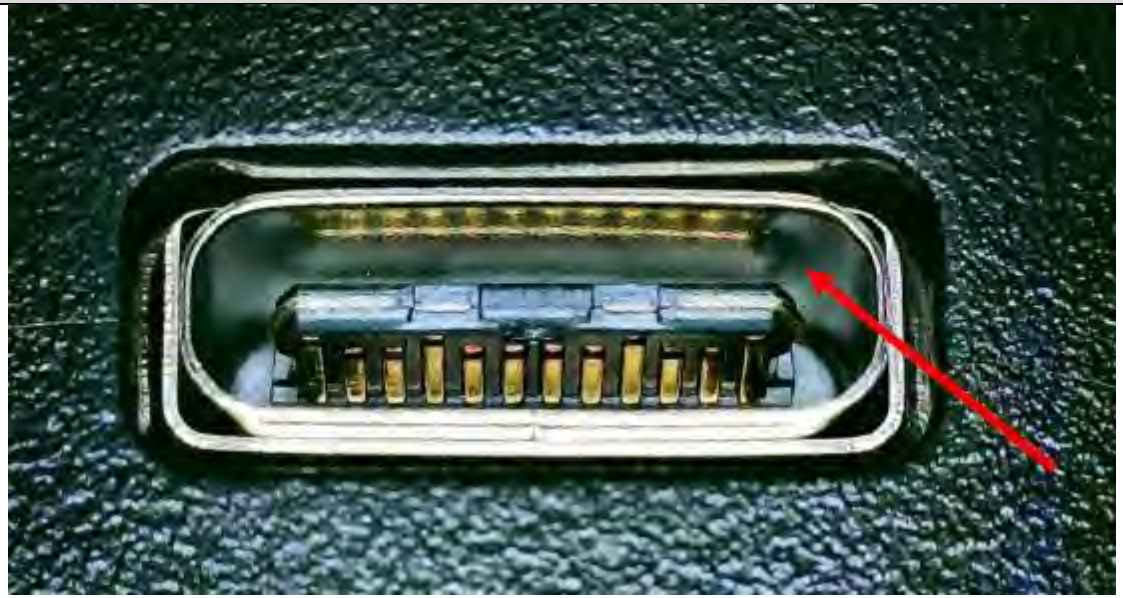
Claim 56 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is generally indicated by the yellow arrow.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

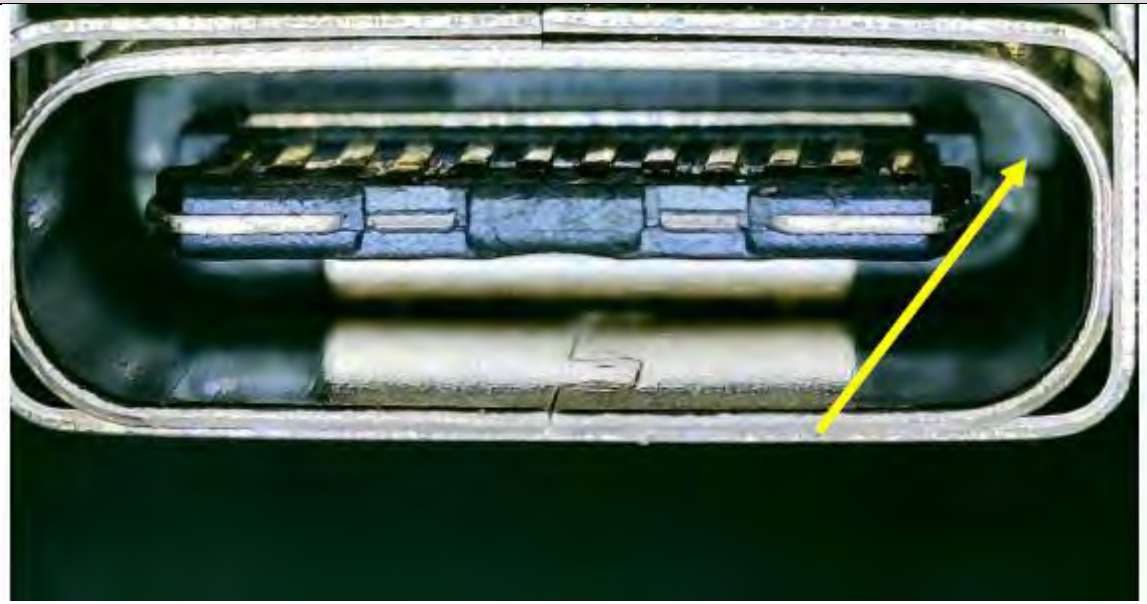
Claim 56 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung ViewFinity S80UD, as described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

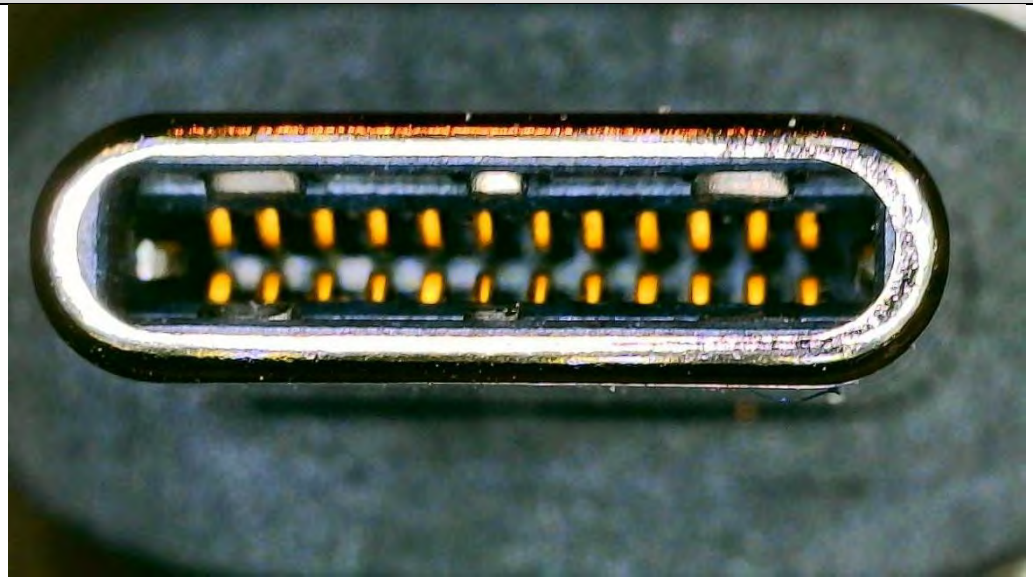
Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**56D**] a tongue, which has a top side with a first surface with grooves, and bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung ViewFinity S80UD includes a tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

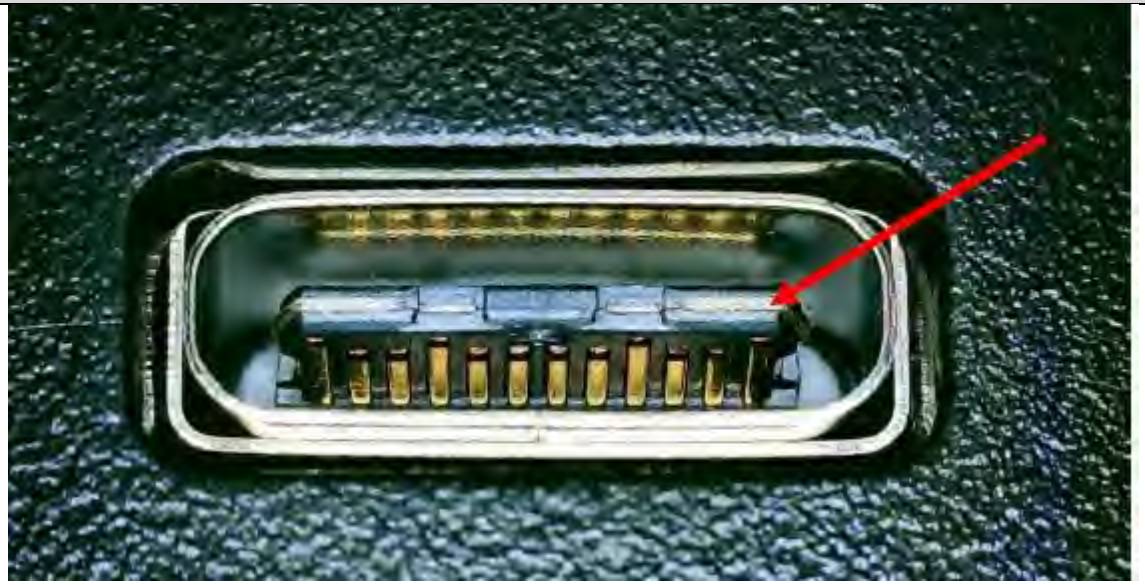
Claim 56 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

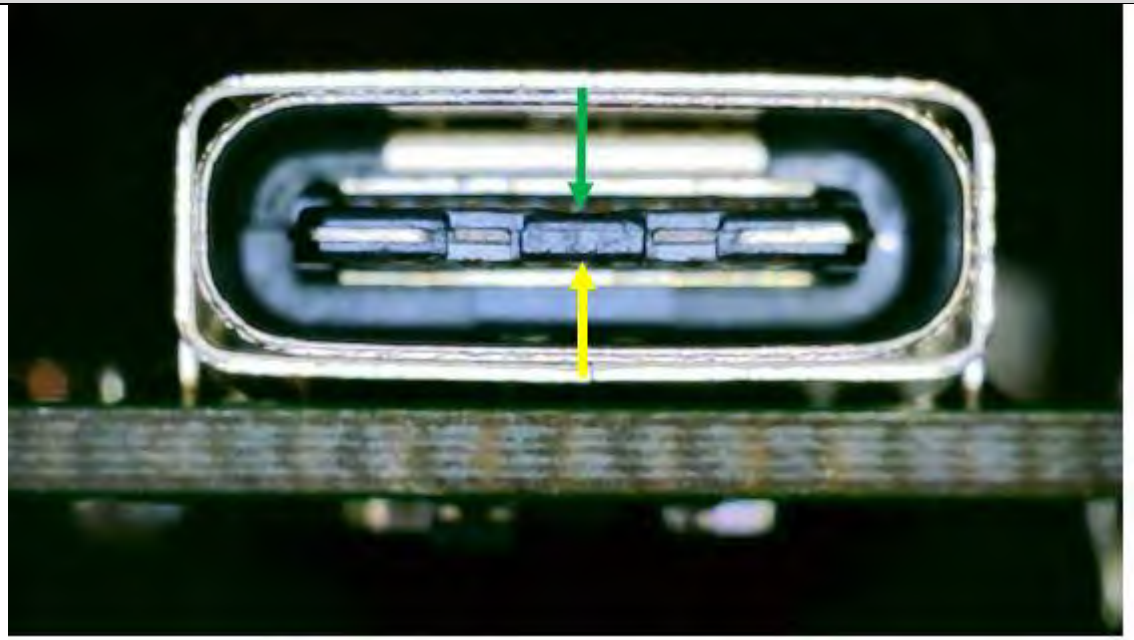
Claim 56 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

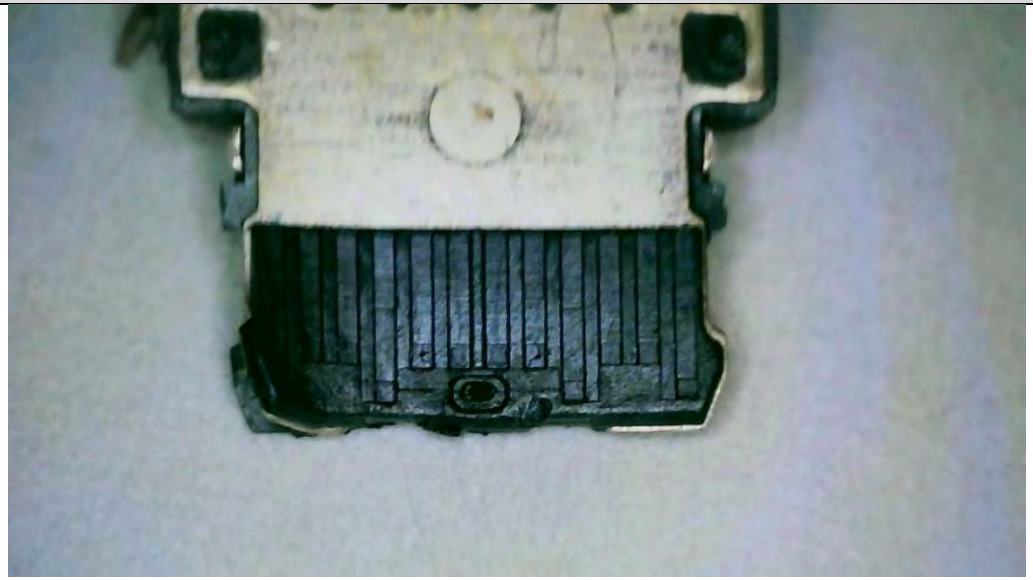
Claim 56 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

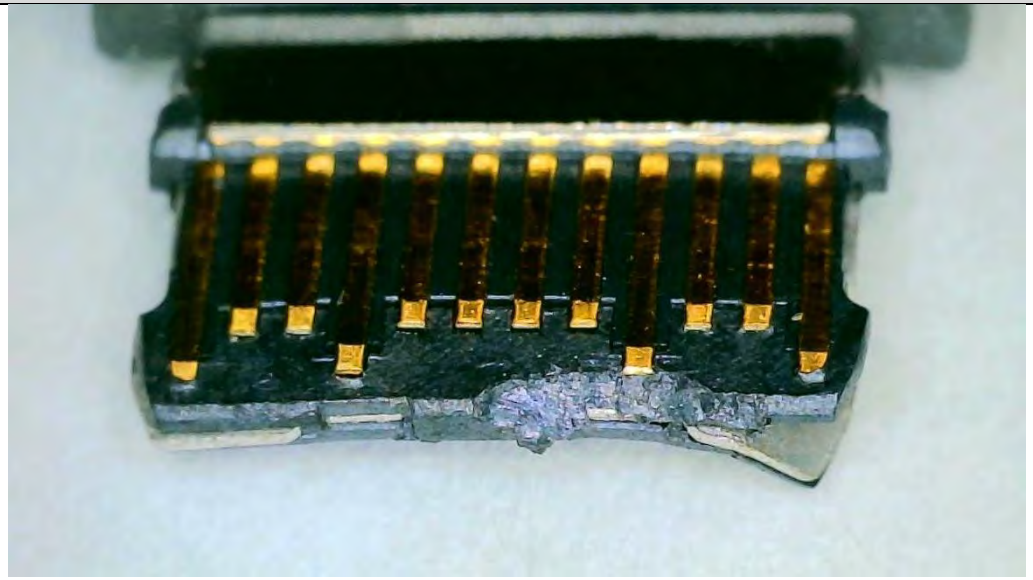
Claim 56 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponding to the side with the second surface as described in element [**34D**].
[**56E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely	The tongue of the socket structure of the ViewFinity S80UD (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

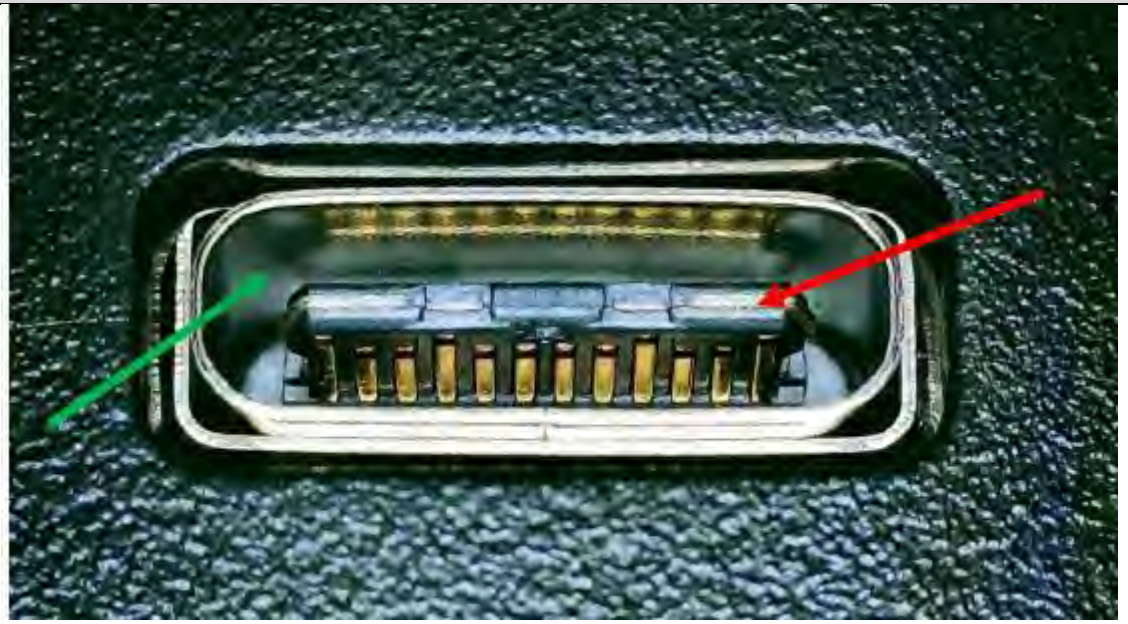
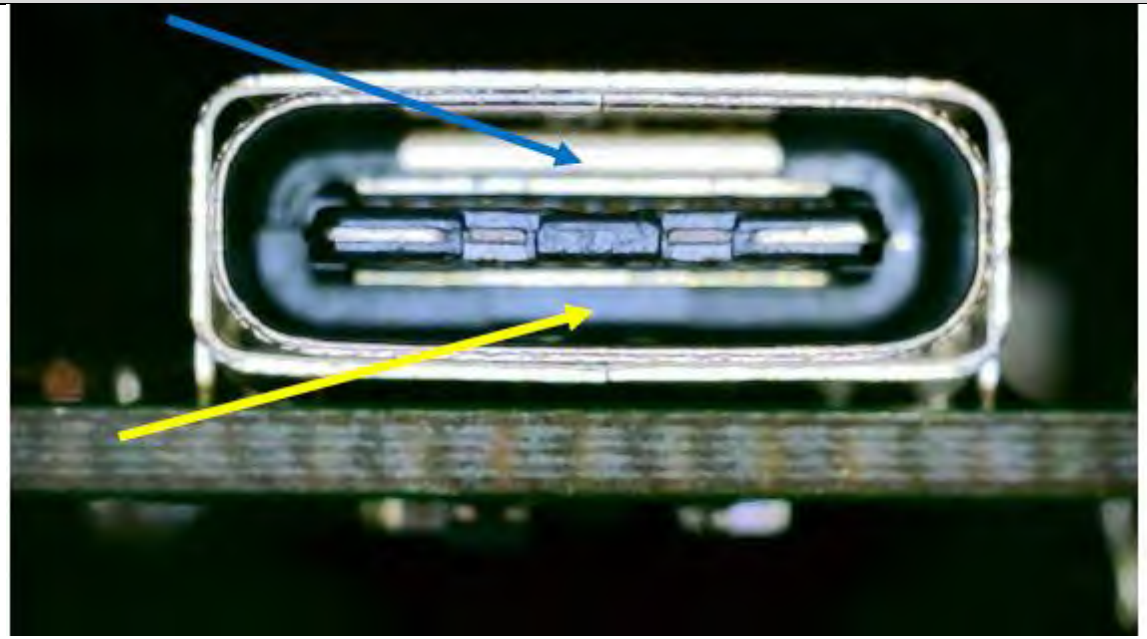
Claim 56 of the '307 Patent	**Evidence of Infringement**
inserted and positioned into the connection slot;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug inserted and positioned in the connection slot both normally and oppositely.

Samsung, EX1004, p. 1516

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

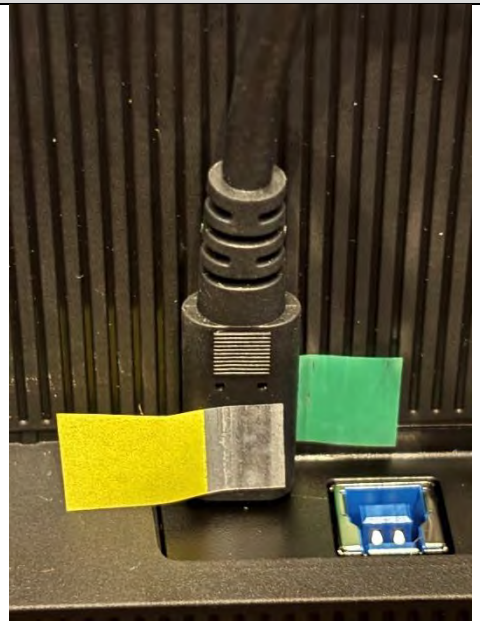
Claim 56 of the '307 Patent	Evidence of Infringement
	  The green and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the socket structure of the Samsung ViewFinity S80UD when the side of the plug indicated with a green flag is on top (first image) and when the side of the plug indicated with the green flag is on bottom (second picture). *See also* Element [**34E**].
[**56F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is	The socket structure of the Samsung ViewFinity S80UD includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

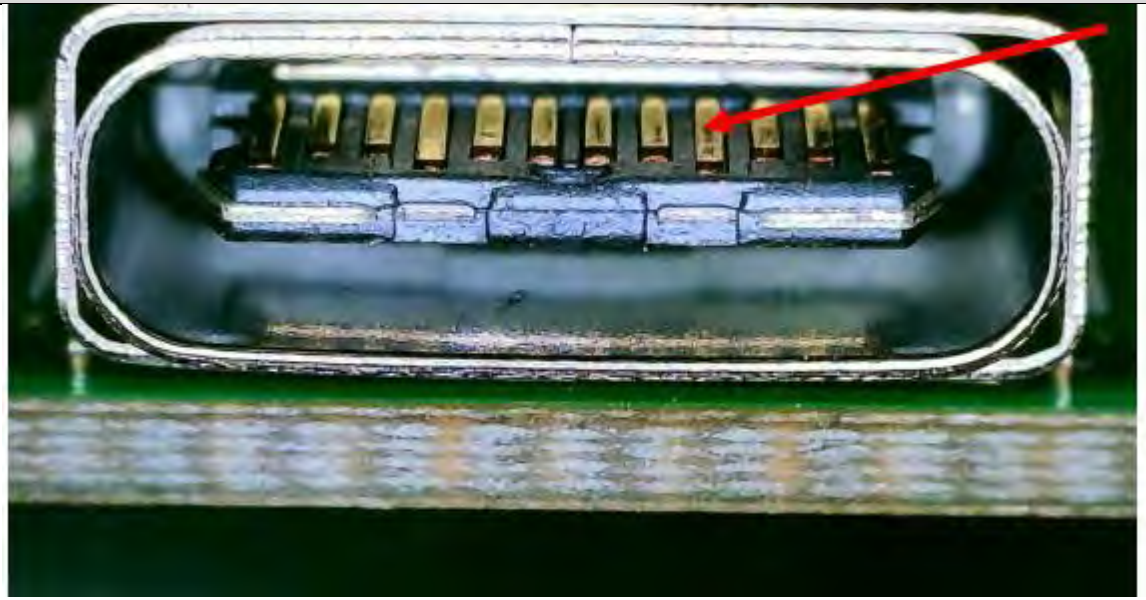
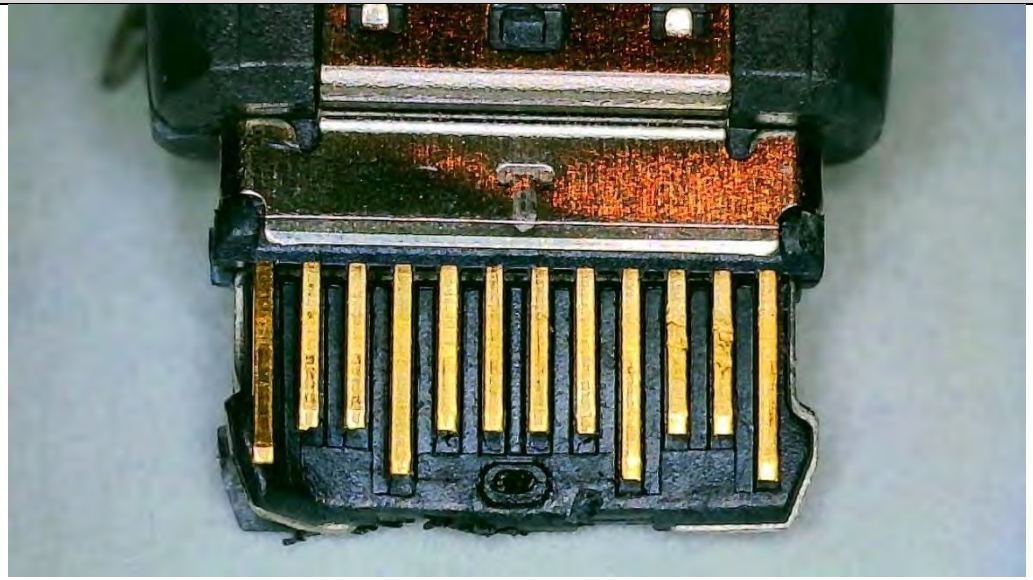
Claim 56 of the '307 Patent	**Evidence of Infringement**
electrically connected to a respective first pin extending out of the plastic base; and	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve first contacts correspond to the twelve pins extending from the plastic base.

Samsung, EX1004, p. 1519

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image of separated components of socket structure.)

Samsung, EX1004, p. 1520

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure showing pins connected to PCB.) Note that the pins extending out of the plastic base are arranged in two rows, such that the image above shows only the first pins. The second pins are located behind the first pins. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

See also Element [**34F**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

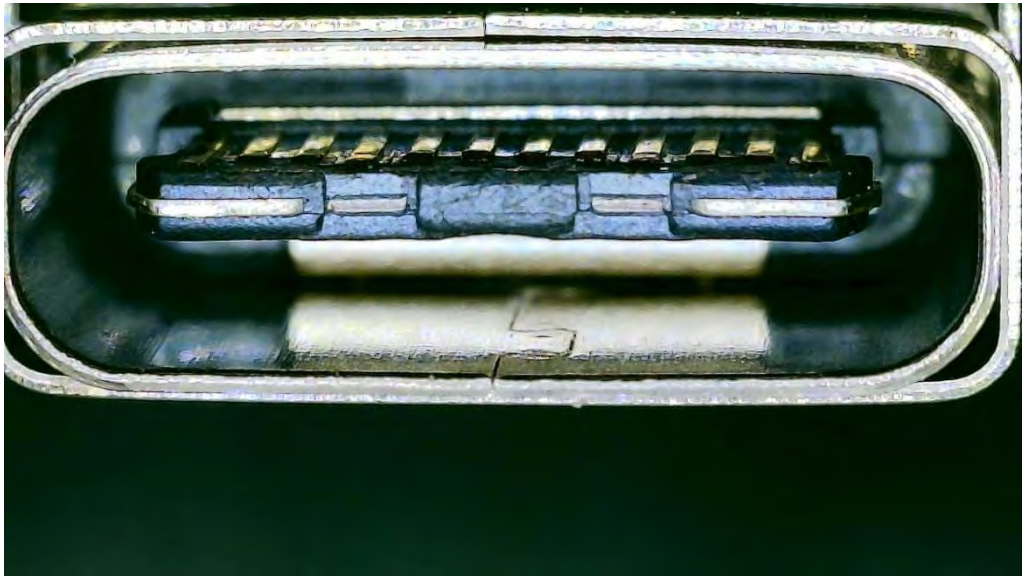
Claim 56 of the '307 Patent	**Evidence of Infringement**
[**56G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung ViewFinity S80UD includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

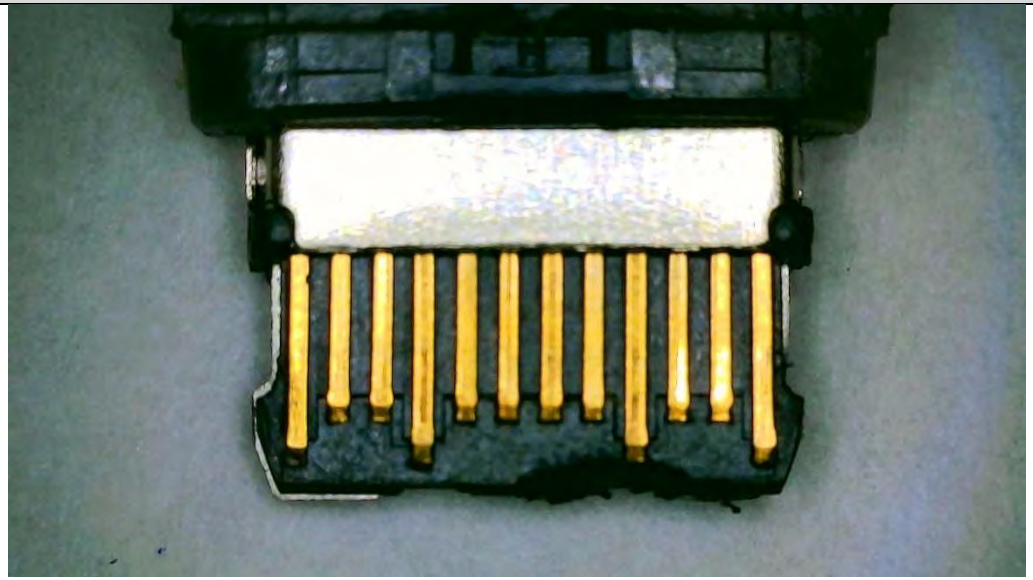
Claim 56 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung ViewFinity S80UD.) *See also* Element [**34G**].
[**56H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve second contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Samsung, EX1004, p. 1525

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base.

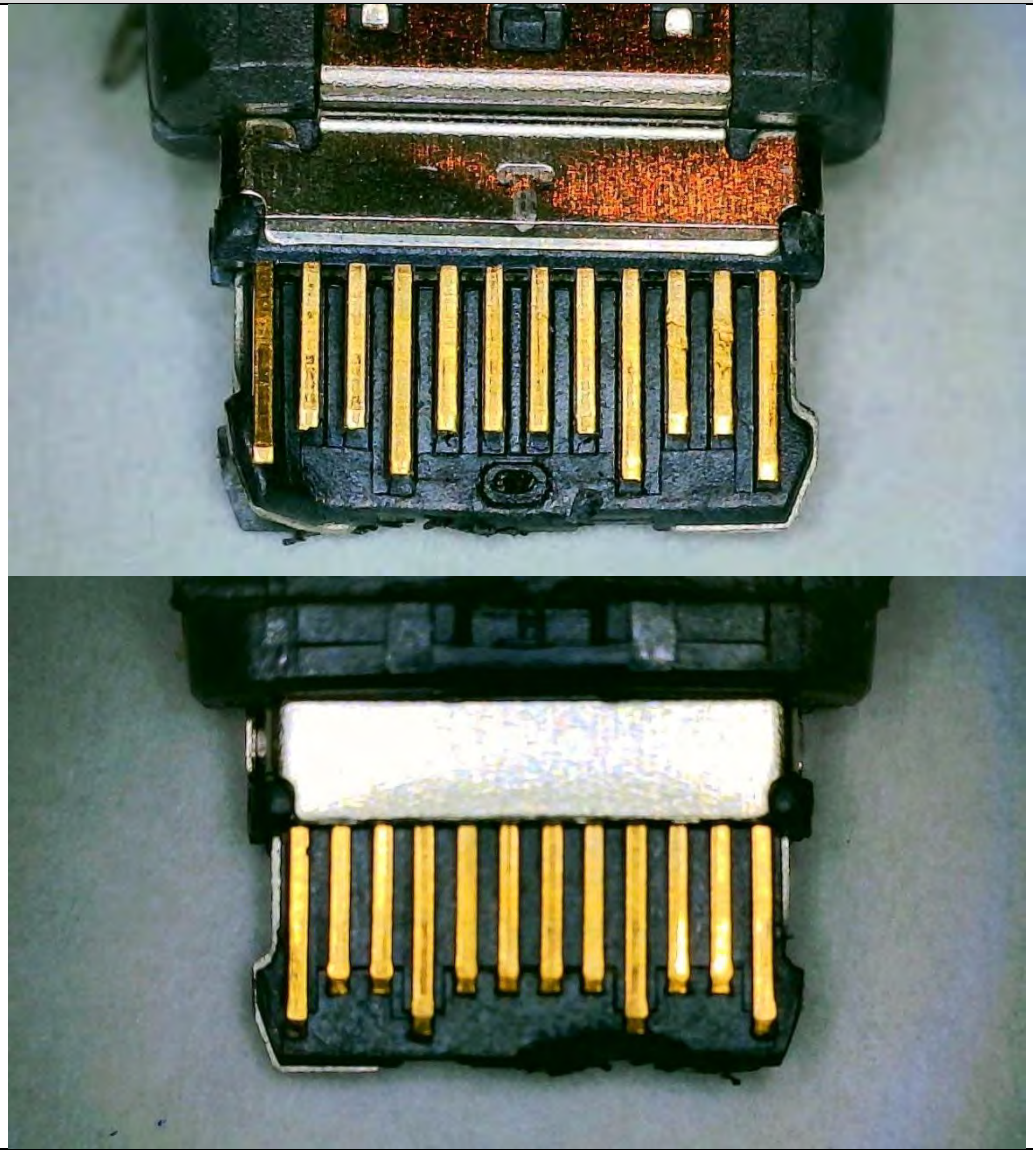
See also element [**34H**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	**Evidence of Infringement**
[**56I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

Samsung, EX1004, p. 1527

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1528

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

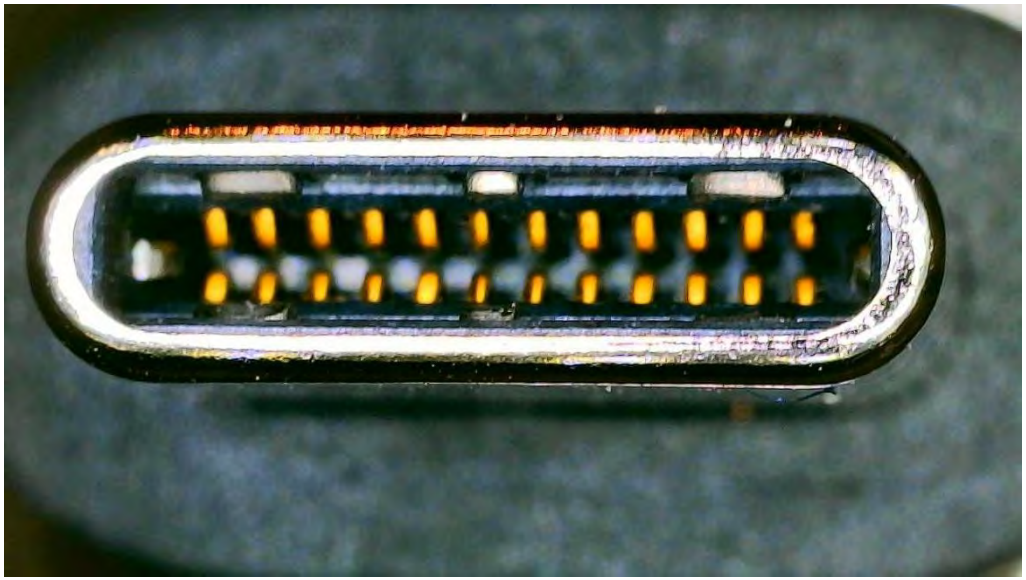
Claim 56 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

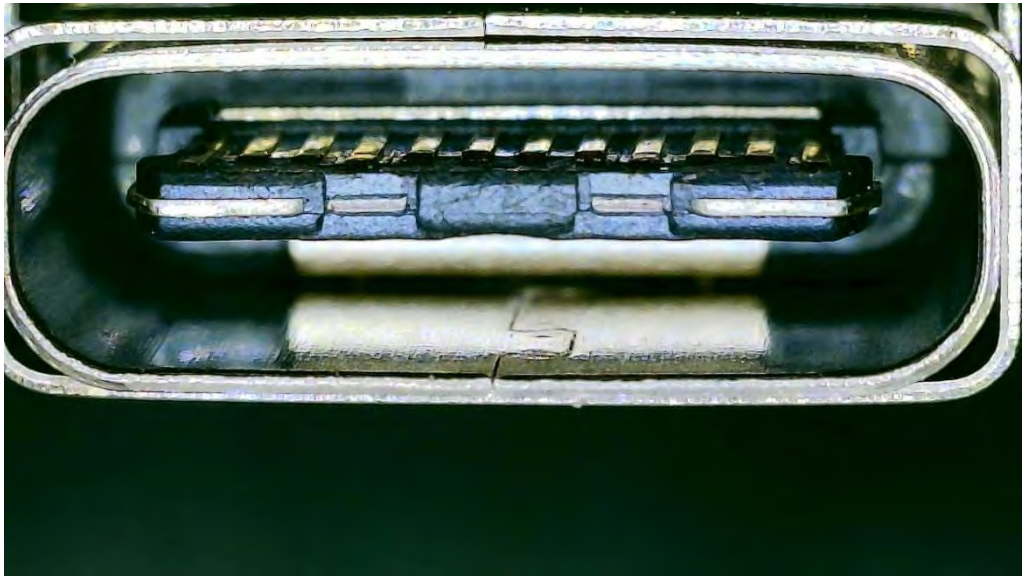
Claim 56 of the '307 Patent	**Evidence of Infringement**
	See also Element [**34I**].
[**56J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image). 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

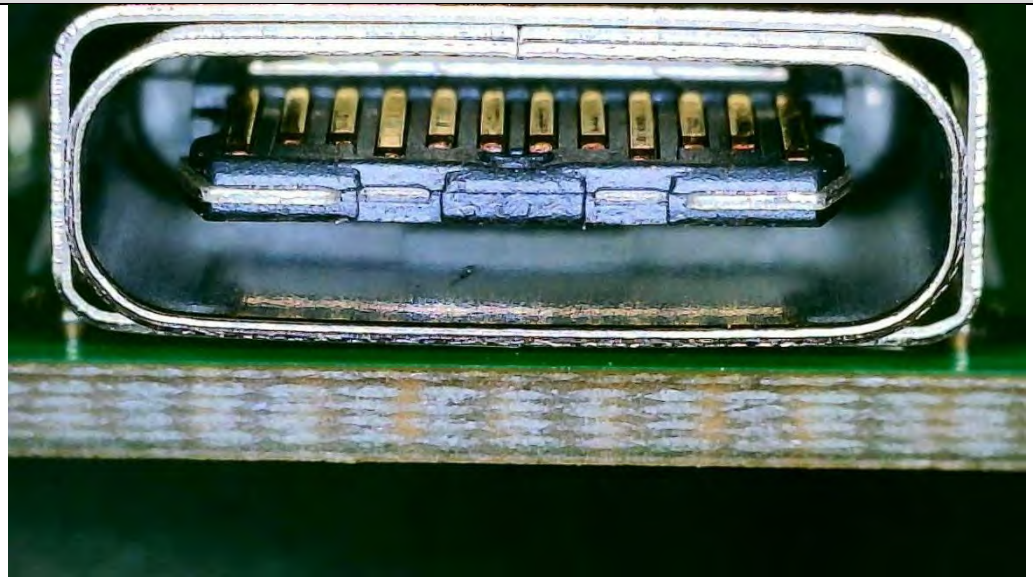
Claim 56 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung ViewFinity S80UD has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

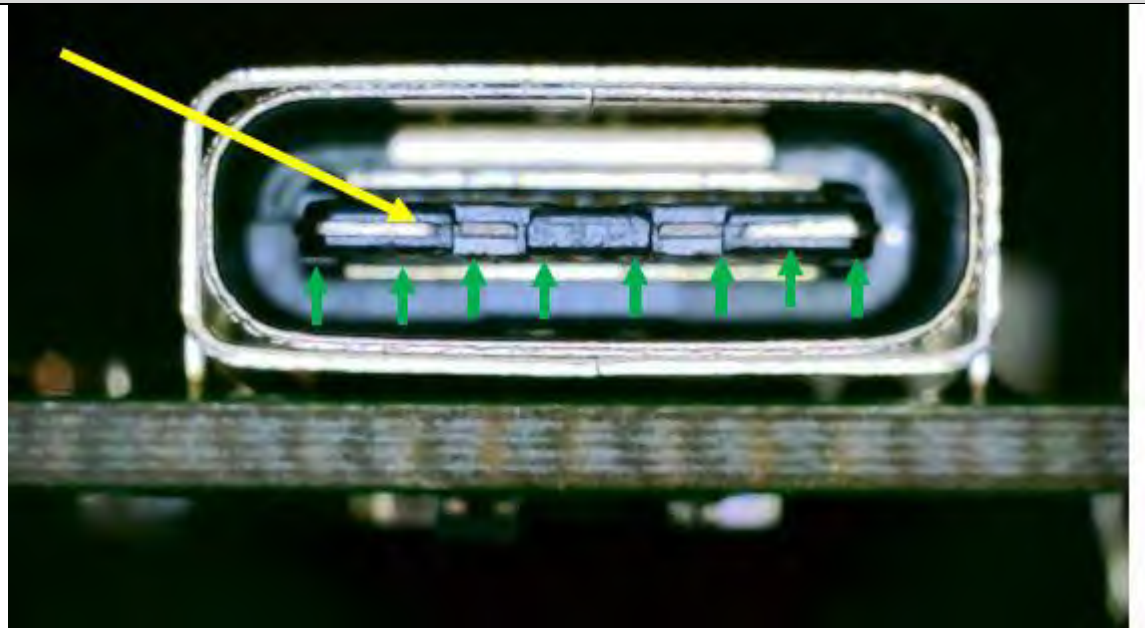
See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**56K**] through [**56L**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	**Evidence of Infringement**
[**56K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung ViewFinity S80UD is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the green flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as green arrows in the image below. In the normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1535

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

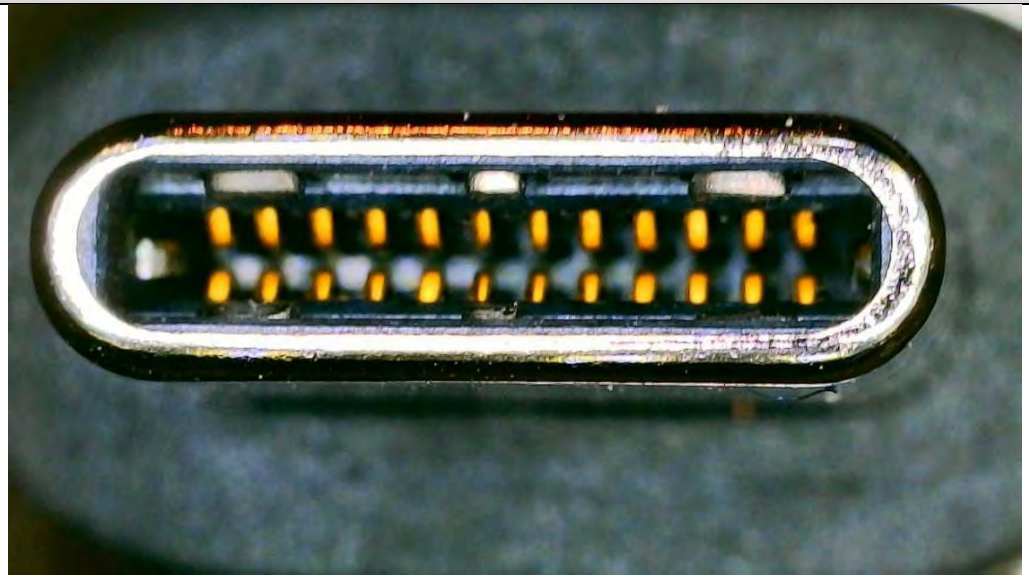
Claim 56 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**56L**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at	The socket structure of the Samsung ViewFinity S80UD is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 56 of the '307 Patent	Evidence of Infringement
least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the green flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as green arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

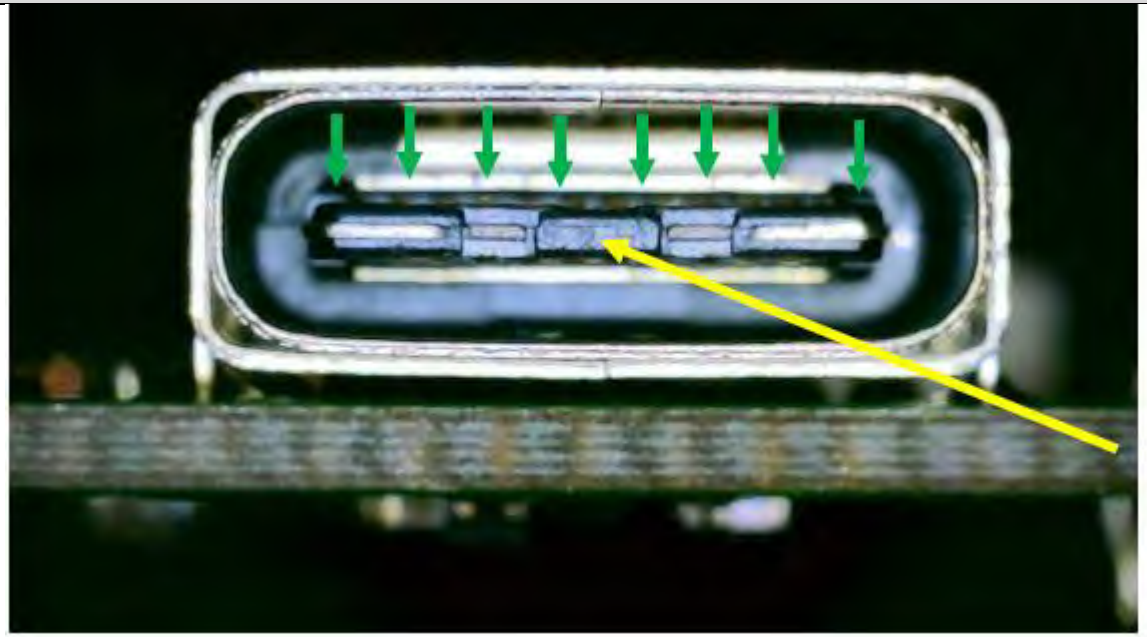
Claim 56 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
[**57A**] An electrical connection system comprising	The Samsung ViewFinity S80UD and a USB-C plug such as the included USB-C cable form an electrical connection system.  The socket structure of the Samsung ViewFinity S80UD is specifically designed (and intended) to be connected with a USB-C plug such as the included USB-C cable, and indeed Samsung provides instructions to its customers to insert the USB-C plug into the USB port of the Samsung ViewFinity S80UD. For example, the Samsung ViewFinity S80UD is packaged with a USB-C cable, as further described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

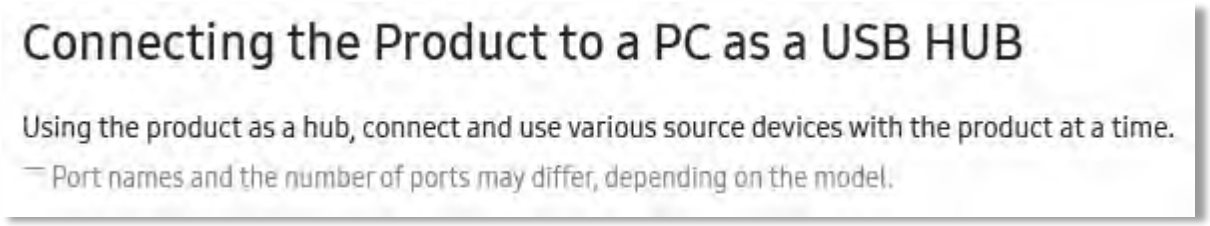
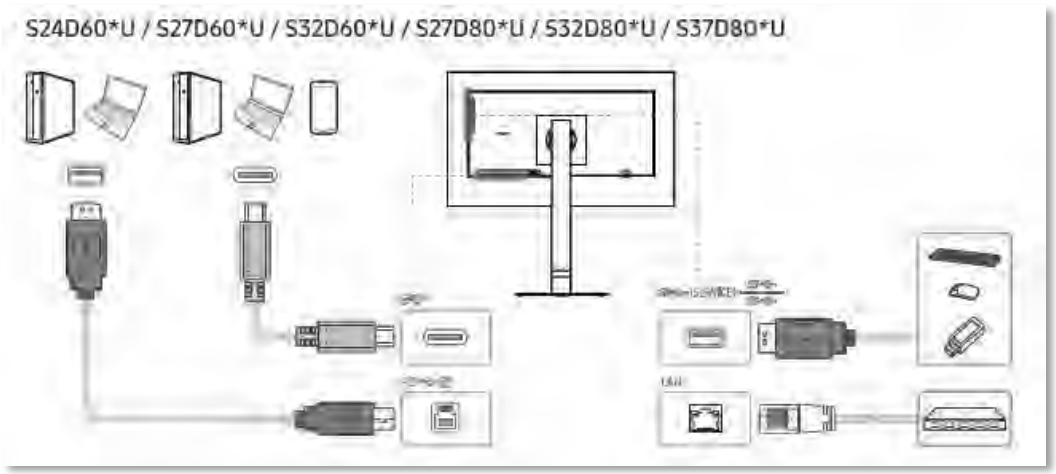
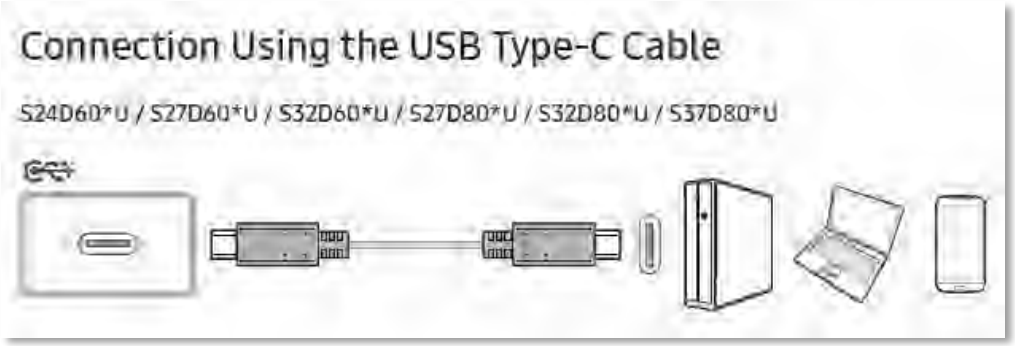
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 *See* https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). Samsung provides instructions to its customers to insert the USB cable into the USB port of the ViewFinity S80UD. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). 

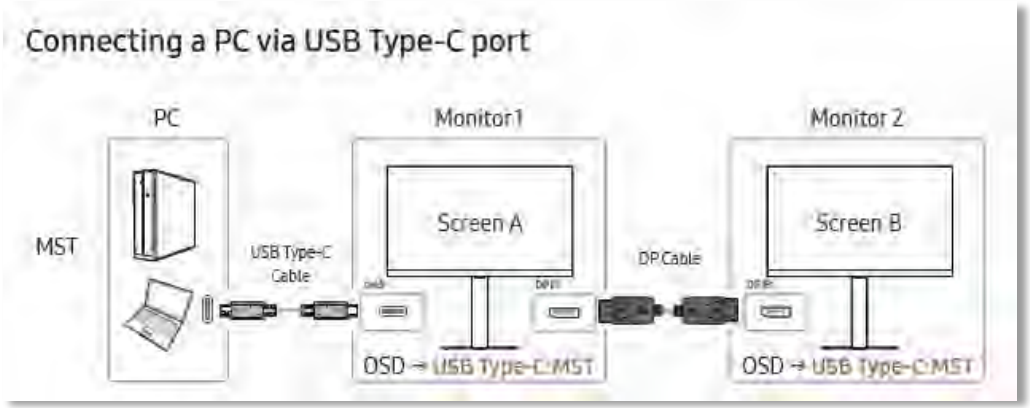
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	Id.  *Id.* Indeed, the primary if not entire purpose of the USB-C port is to permit a plug to be inserted into the USB-C port so that another device can be connected to the Samsung ViewFinity S80UD for charging and/or data transfer. *See also* Elements [**48B**], [**55A**].
[**57B**] the socket structure with the duplex electrical connection of claim 56 and	This Accused Instrumentality includes a socket structure as described in claim 56, as described above in connection with elements [**56A**] through [**56L**].
[**57C**] the plug, wherein the socket structure is operatively	The Samsung ViewFinity S80UD is packaged with a USB-C cable which includes a USB-C plug.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
connected to the plug, and	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

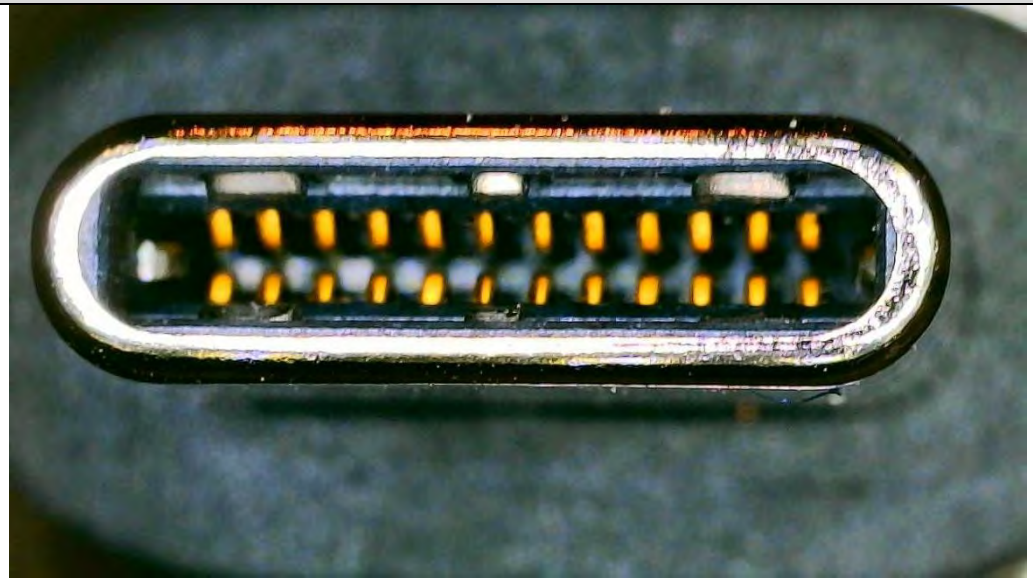
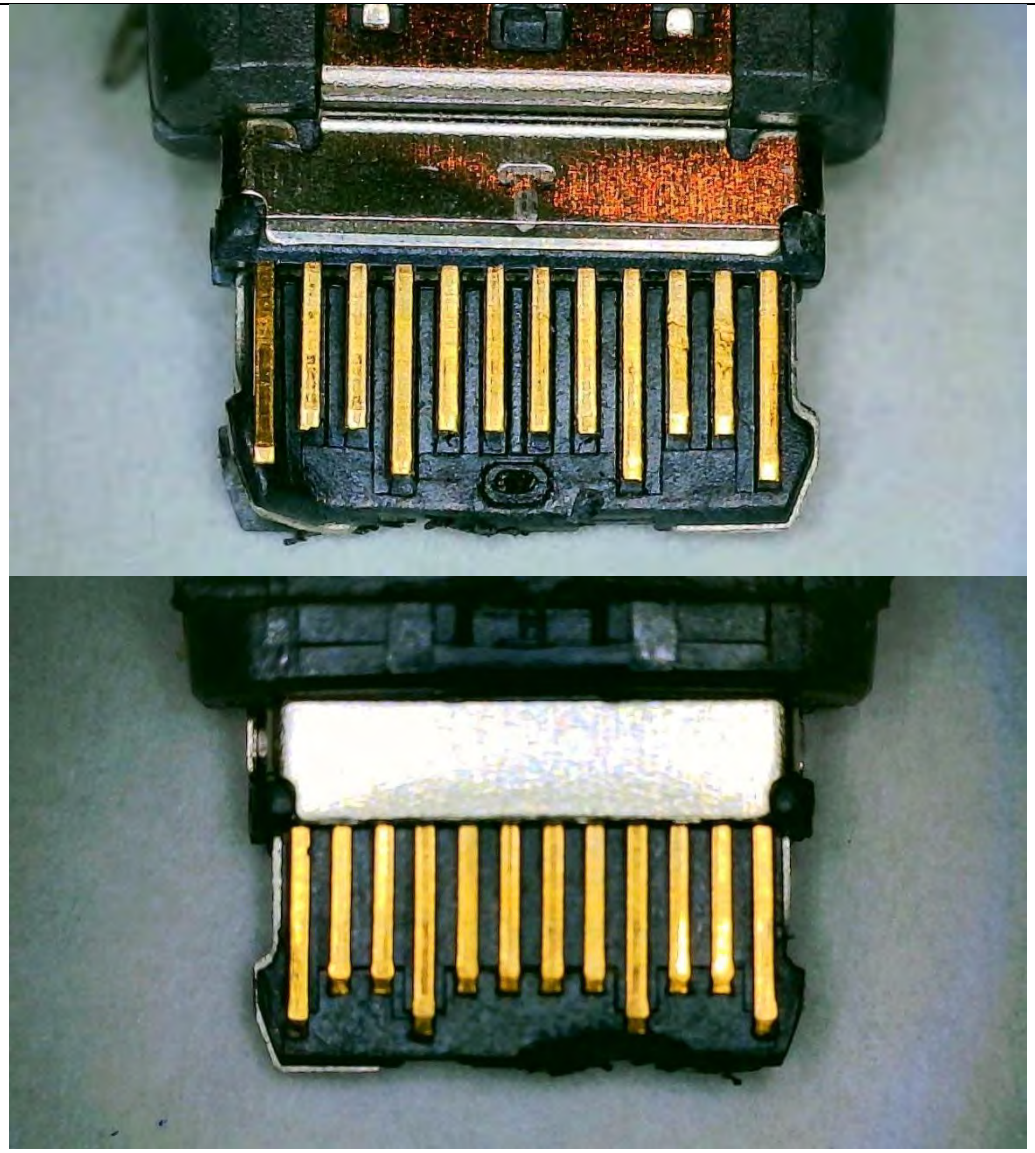
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 When the plug is connected with the socket structure, the socket structure is operatively connected to the plug.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	 *See also* Elements [**48B**], [**55C**].
[**57D**] wherein the socket structure is operative to simultaneously electrically connect via the first and second contacts.	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Samsung, EX1004, p. 1546

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

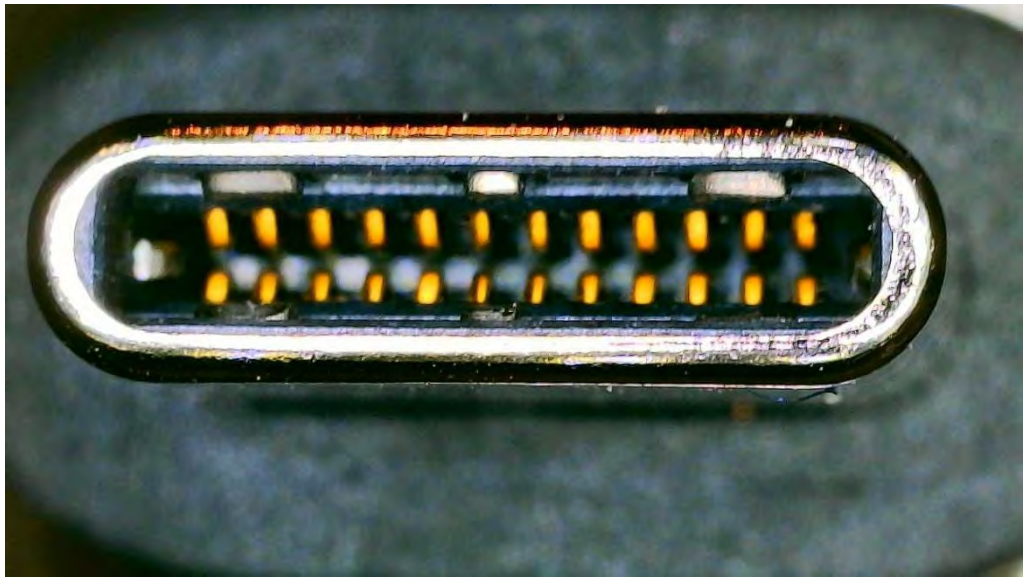
Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

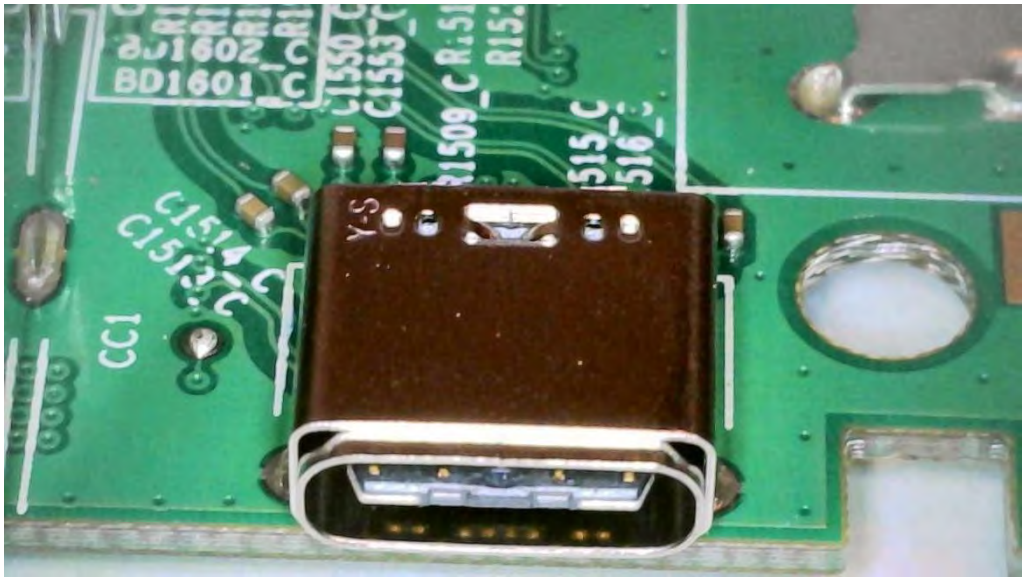
EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
	Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**58A**] The socket structure of claim 56,	This Accused Instrumentality includes a socket structure as described in claim 56, as described above in connection with elements [**56A**] through [**56L**].
[**58B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base are integrally formed.  *See also* Element [**41B**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
[**59A**] The socket structure of claim 58,	This Accused Instrumentality includes a socket structure as described in claim 58, as described above in connection with elements [**58A**] through [**58B**].
[**59B**] further comprising a metal housing at least partially covering the plastic base.	The socket structure of the Samsung ViewFinity S80UD includes a metal housing that covers the plastic base at least in part.  *See also* Element [**39B**].
[**60A**] The socket structure of claim 59,	This Accused Instrumentality includes a socket structure as described in claim 59, as described above in connection with elements [**59A**] through [**59B**].
[**60B**] wherein at least two of the first contacts are	At least one of each of the first and second contacts of the Samsung ViewFinity S80UD are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung ViewFinity S80UD includes a USB-C socket and is compatible with USB-C cables, as further described

Claims 57 through 66 of the '307 Patent	Evidence of Infringement
not in electrical communication with one another, and at least two of the second contacts are not in electrical communication with one another.	above in connection with element [**34A**]. The USB-C standard describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 57 through 66 of the '307 Patent	**Evidence of Infringement**
	The Samsung ViewFinity S80UD would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12). In addition, testing confirms that at least two of the first contacts are not in electrical communication with one another, and at least two of the second contacts are not in electrical communication with one another. *See also* Element [**44B**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

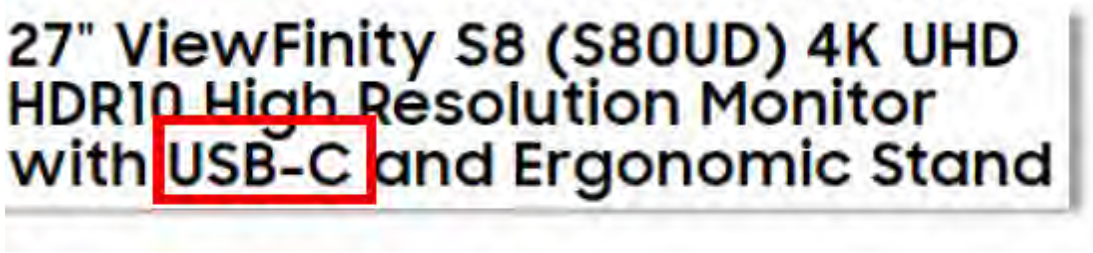
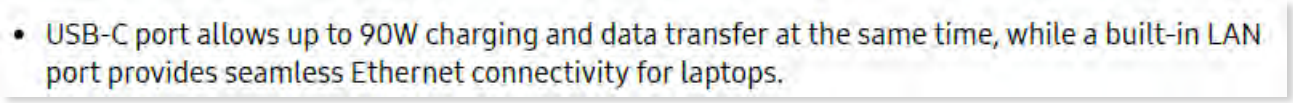
Claim 98 of the '307 Patent	**Evidence of Infringement**
[**98A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung ViewFinity S80UD is a monitor that includes a socket structure with duplex electrical connection. In particular, the Samsung ViewFinity S80UD provides duplex electrical connection via a USB-C port.  *See* https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025).  *Id.*  *Id.*

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

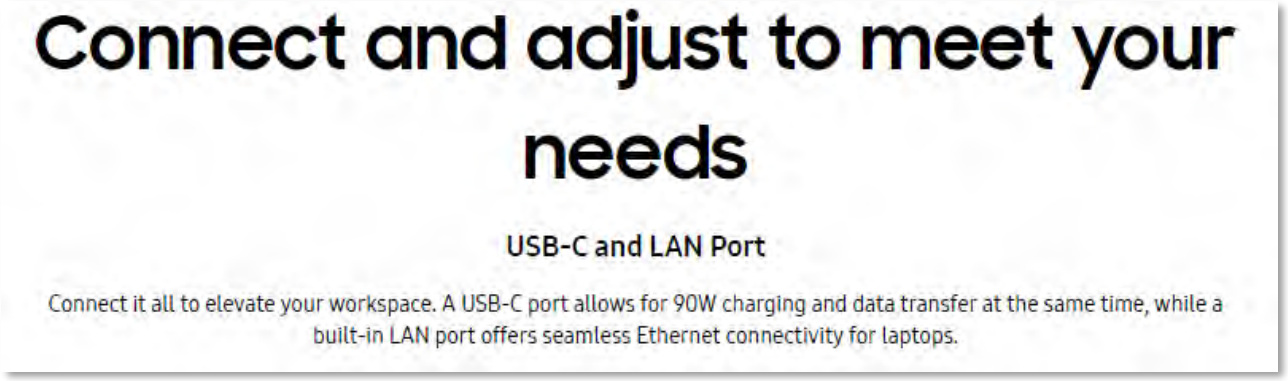
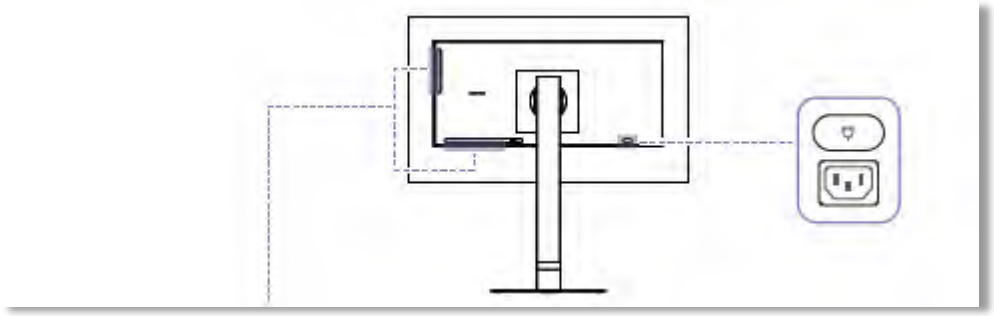
Claim 98 of the '307 Patent	Evidence of Infringement
	 *Id.*  

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

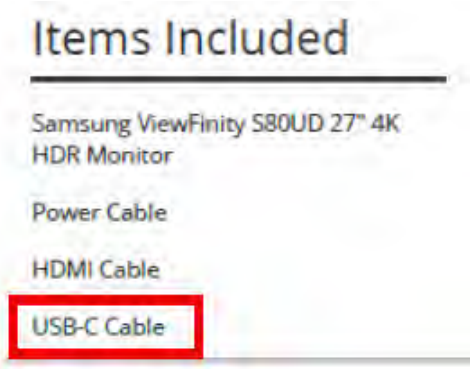
Claim 98 of the '307 Patent	Evidence of Infringement
	User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). In addition, the Samsung ViewFinity S80UD is packaged and compatible with a USB-C cable.  (Image of cable included in packaging) 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	**Evidence of Infringement**
	See https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**98B**] through [**98N**].
[**98B**] a plastic base;	The socket structure of the Samsung ViewFinity S80UD includes a plastic base. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of ViewFinity S80UD.) *See also* Element [**34B**].
[**98C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung ViewFinity S80UD includes a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is generally indicated by the yellow arrow.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung ViewFinity S80UD, as described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

Samsung, EX1004, p. 1560

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

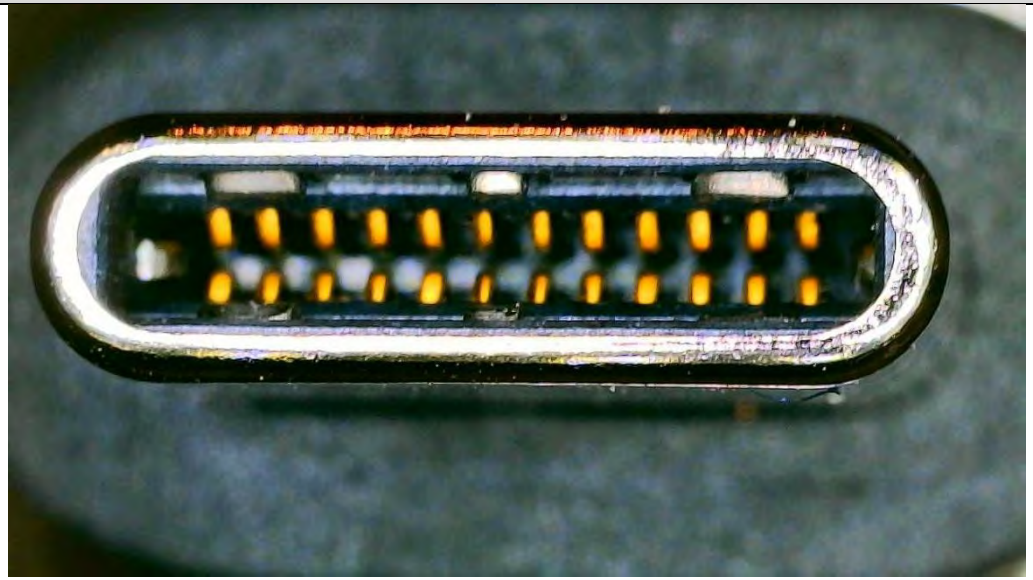
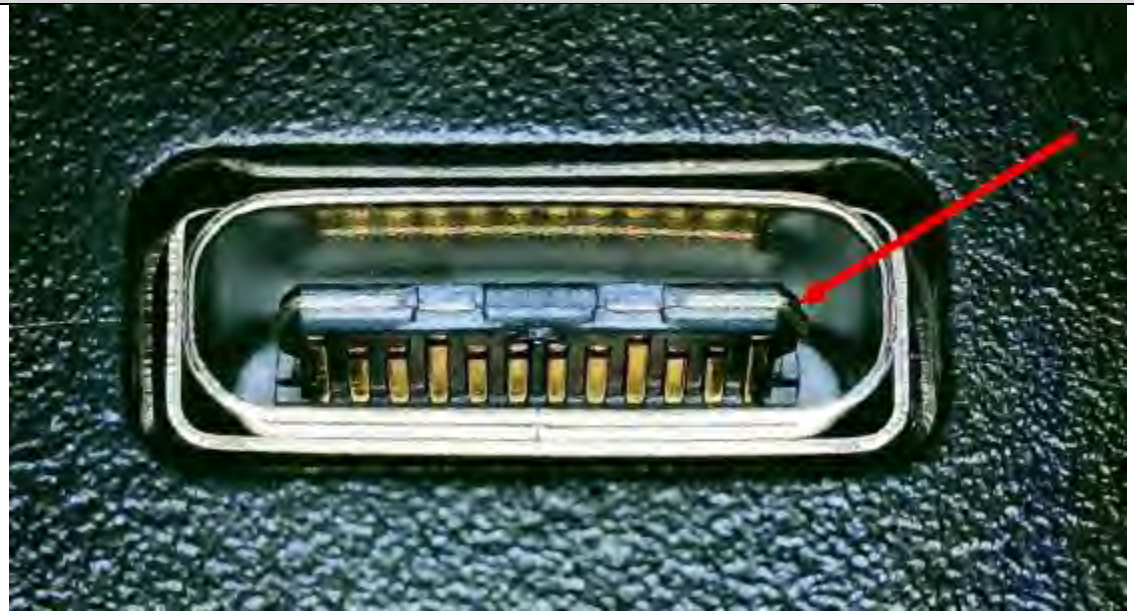
Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**98D**] a tongue, which has a first surface with grooves, and a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung ViewFinity S80UD includes a tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

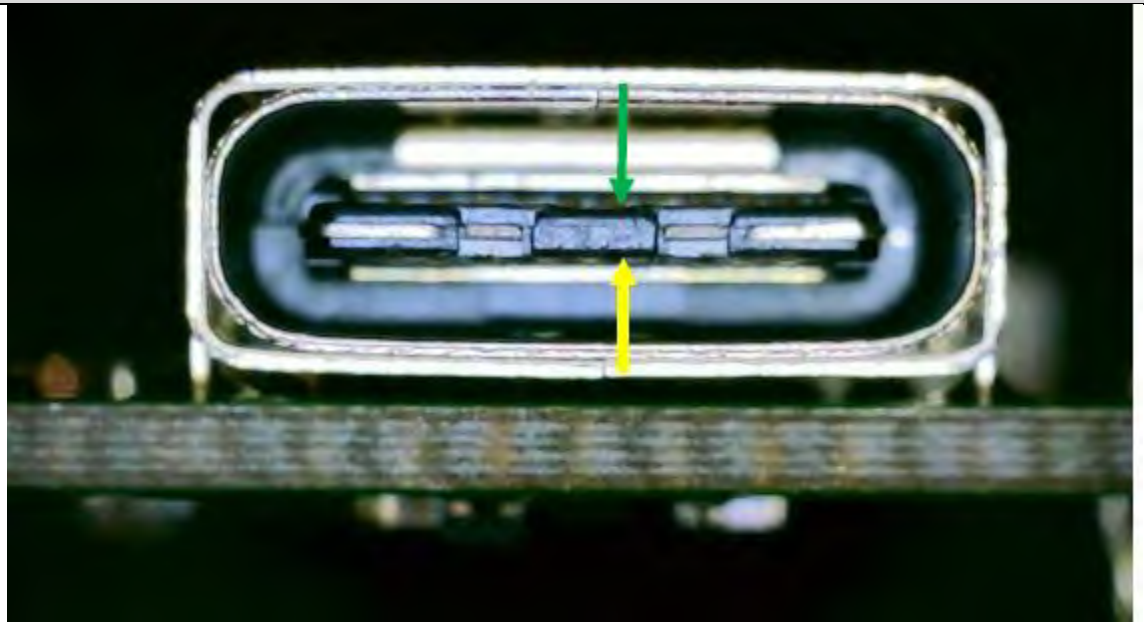
Claim 98 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1562

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

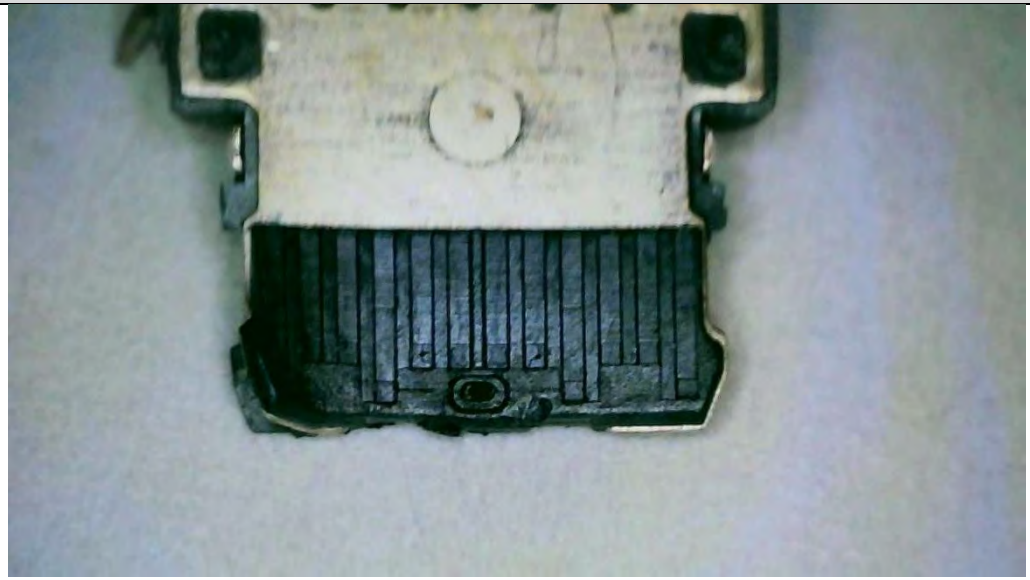
Claim 98 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

Samsung, EX1004, p. 1564

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1565

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

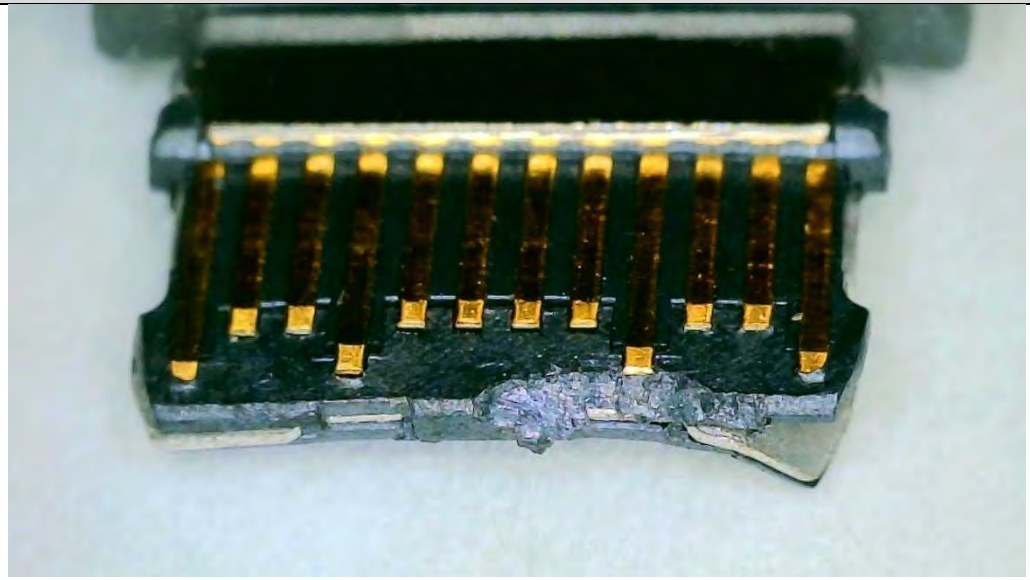
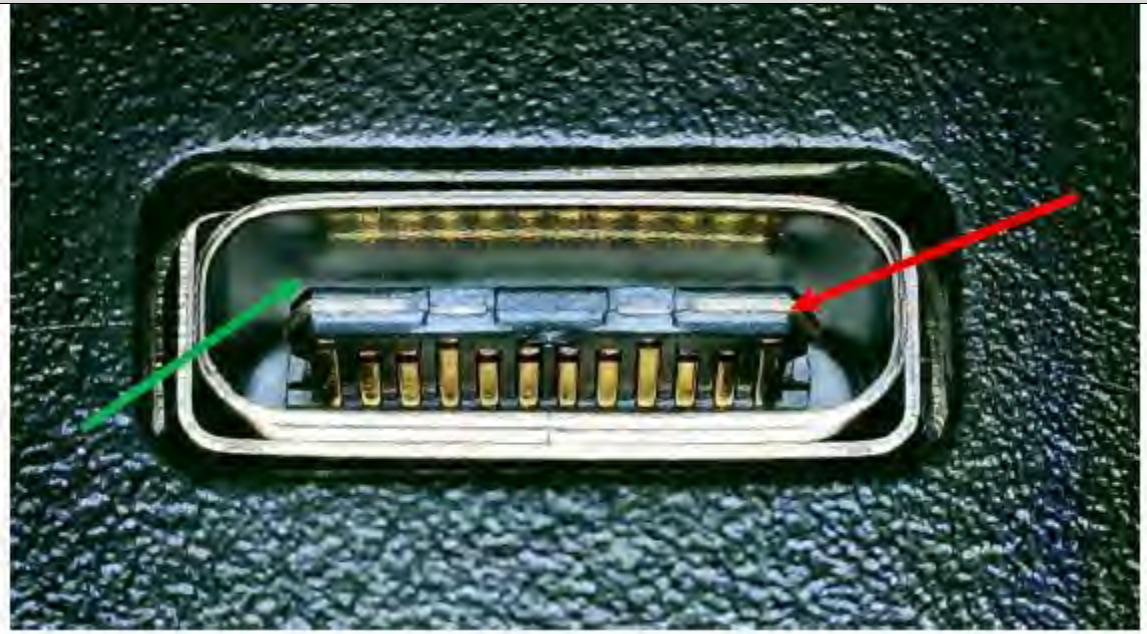
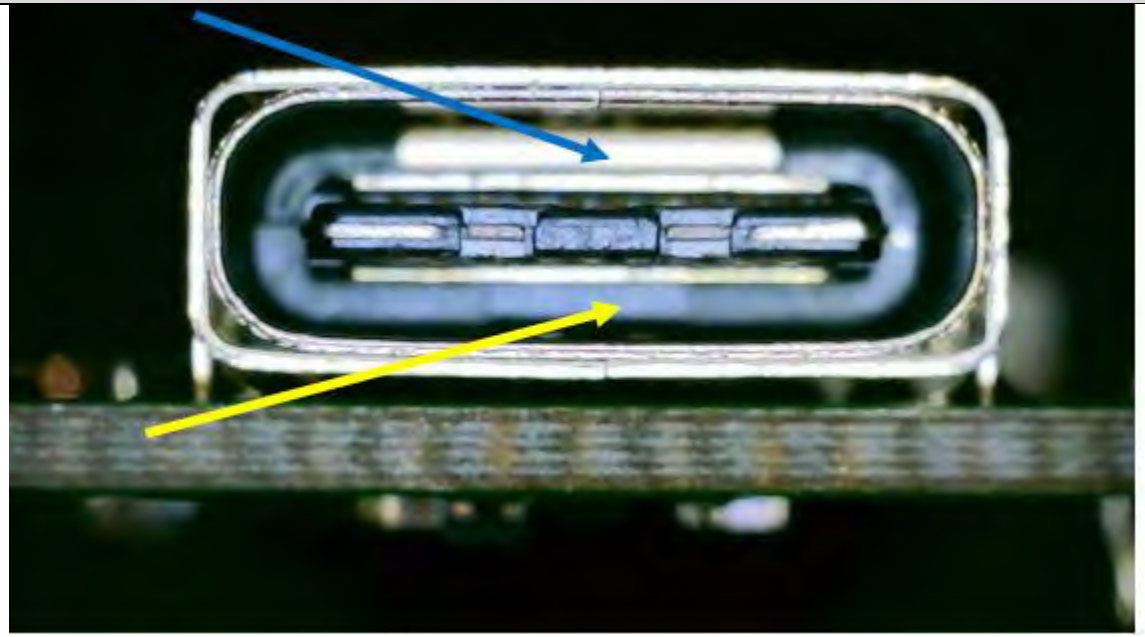
Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**].
[**98E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot based on an operational state when the socket	The tongue of the socket structure of the ViewFinity S80UD (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
structure is connected to the plug;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

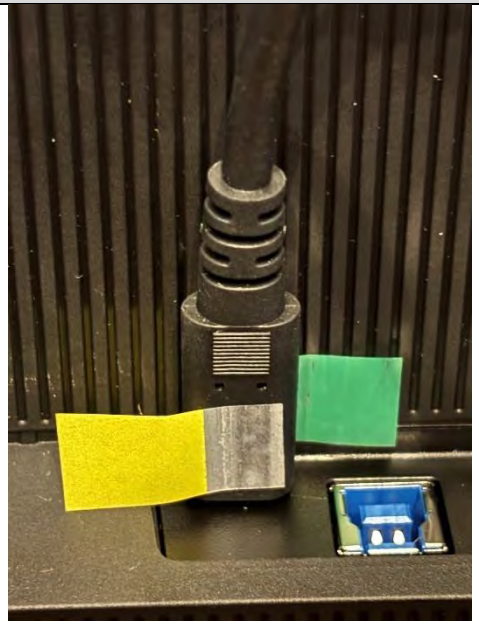
Samsung, EX1004, p. 1567

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug inserted and positioned in the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug.

Samsung, EX1004, p. 1568

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	  The green and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the socket structure of the Samsung ViewFinity S80UD when the side of the plug indicated with a green flag is on top (first image) and when the side of the plug indicated with the green flag is on bottom (second picture). *See also* Element [**34E**].
[**98F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to a respective	The socket structure of the Samsung ViewFinity S80UD includes at least one row of first contacts separately arranged on the first surface of the tongue.

Samsung, EX1004, p. 1569

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

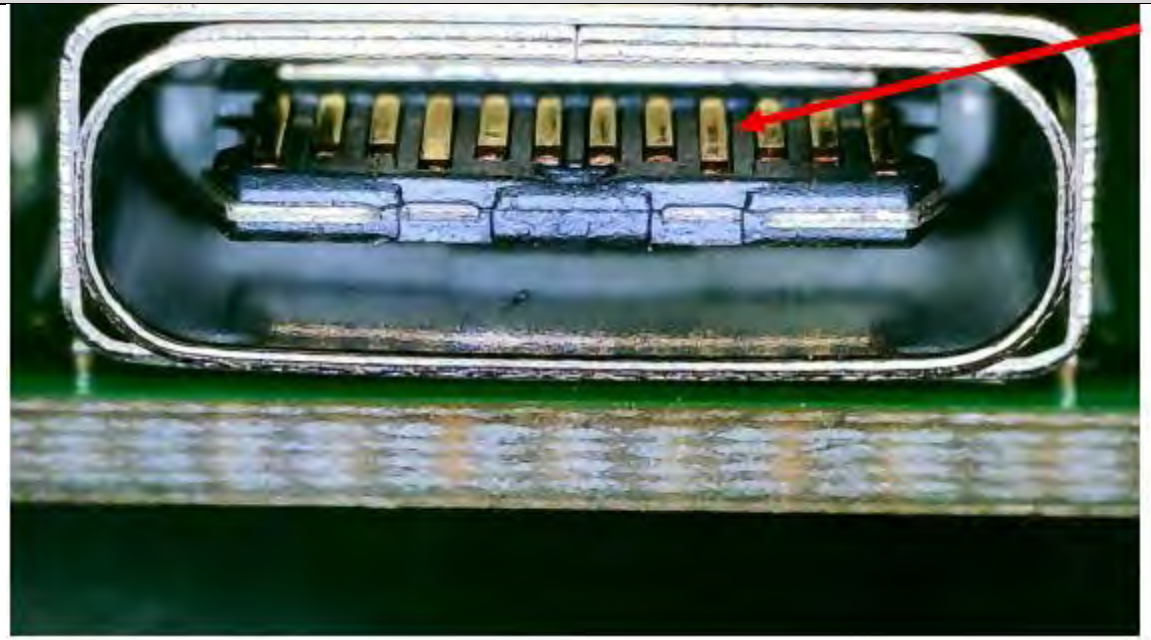
Claim 98 of the '307 Patent	**Evidence of Infringement**
first pin extending out of the plastic base; and	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

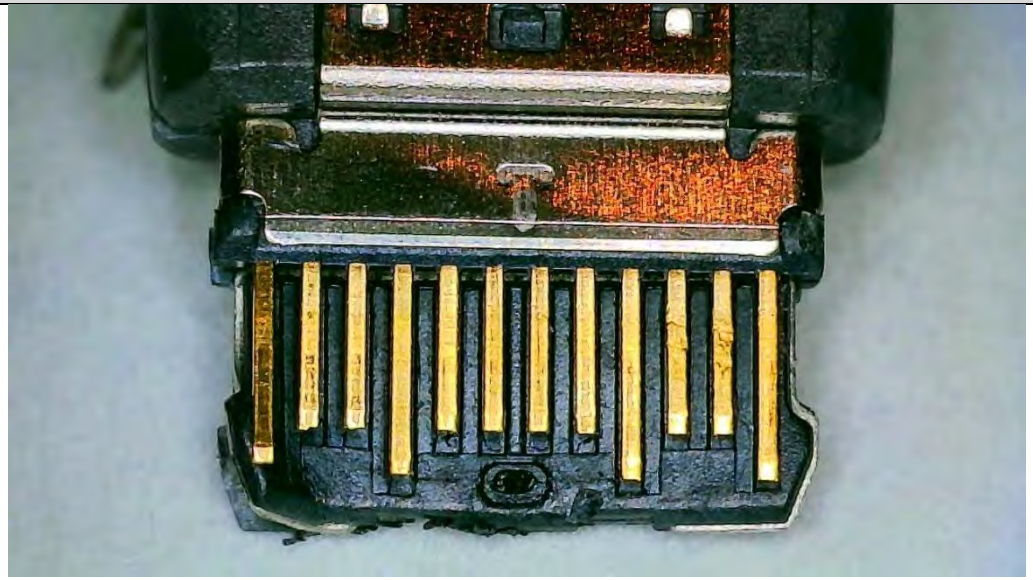
Claim 98 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve first contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image of separated components of socket structure.)

Samsung, EX1004, p. 1572

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure showing pins connected to PCB.) Note that the pins extending out of the plastic base are arranged in two rows, such that the image above shows only the first pins. The second pins are located behind the first pins. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Claim 98 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

See also Element [**34F**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

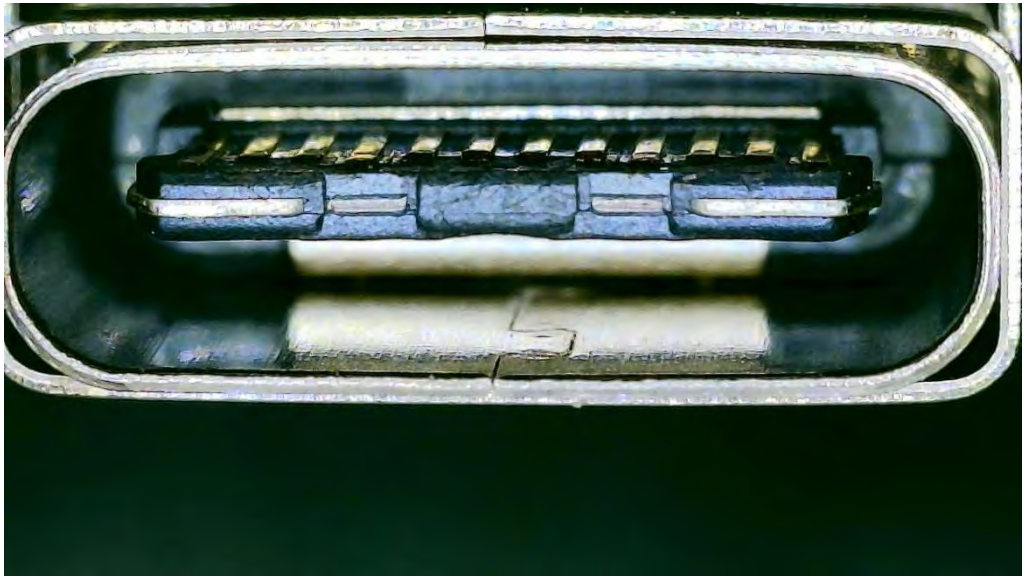
Claim 98 of the '307 Patent	**Evidence of Infringement**
[**98G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung ViewFinity S80UD includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

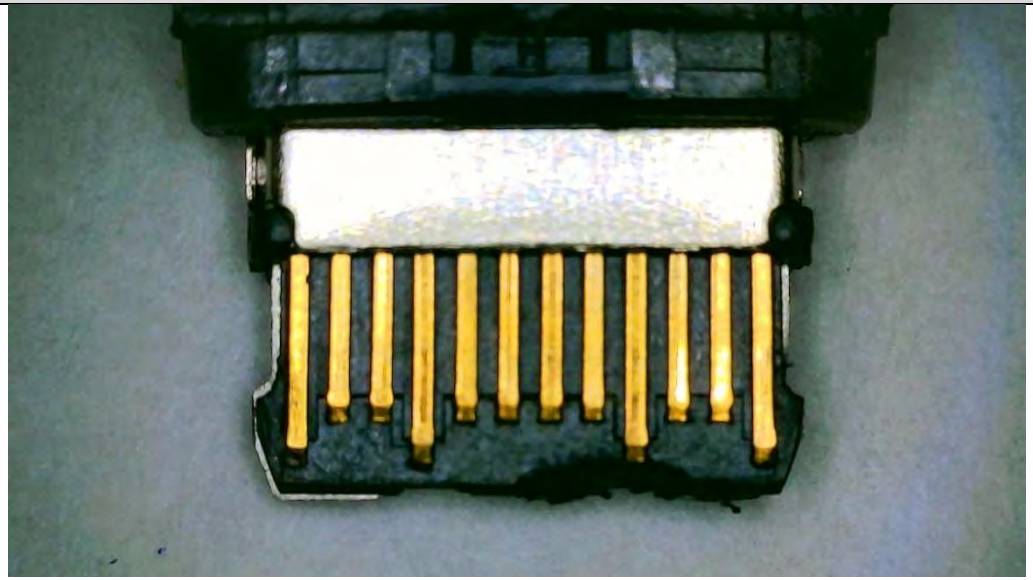
Claim 98 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung ViewFinity S80UD.) *See also* Element [**34G**].
[**98H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve second contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Claim 98 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base.

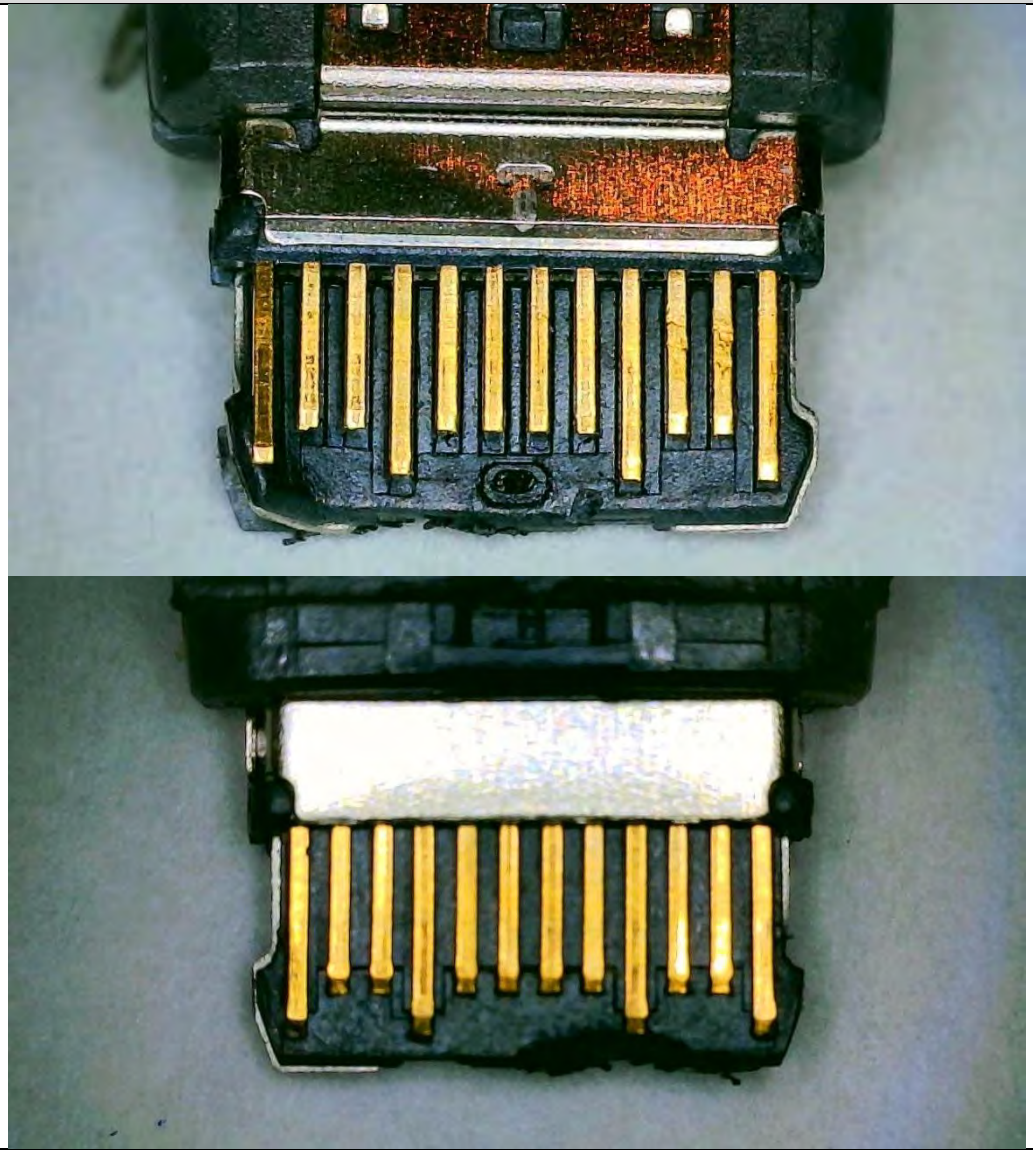
See also element [**34H**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	**Evidence of Infringement**
[**98I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

Samsung, EX1004, p. 1579

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1580

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

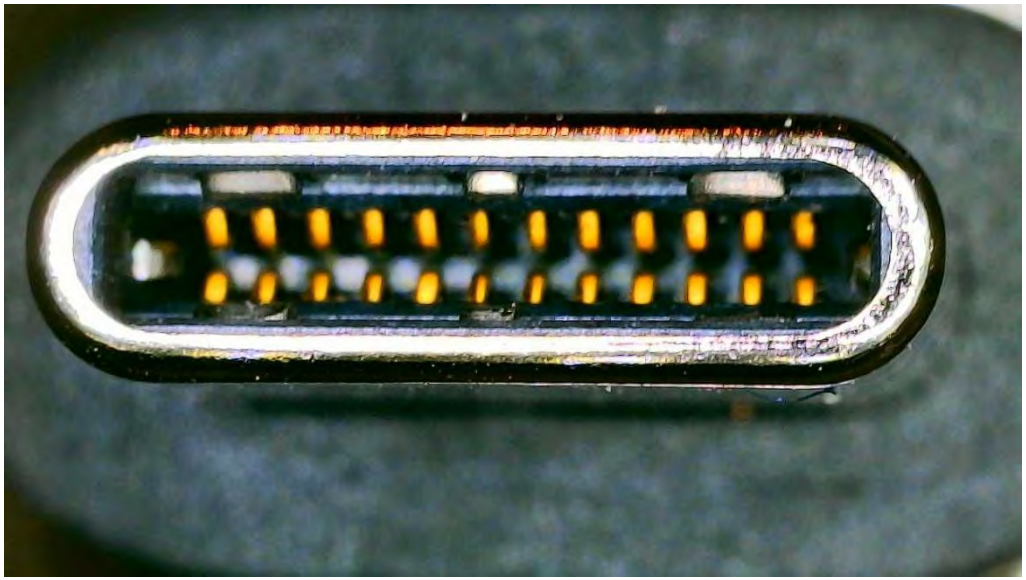
Claim 98 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

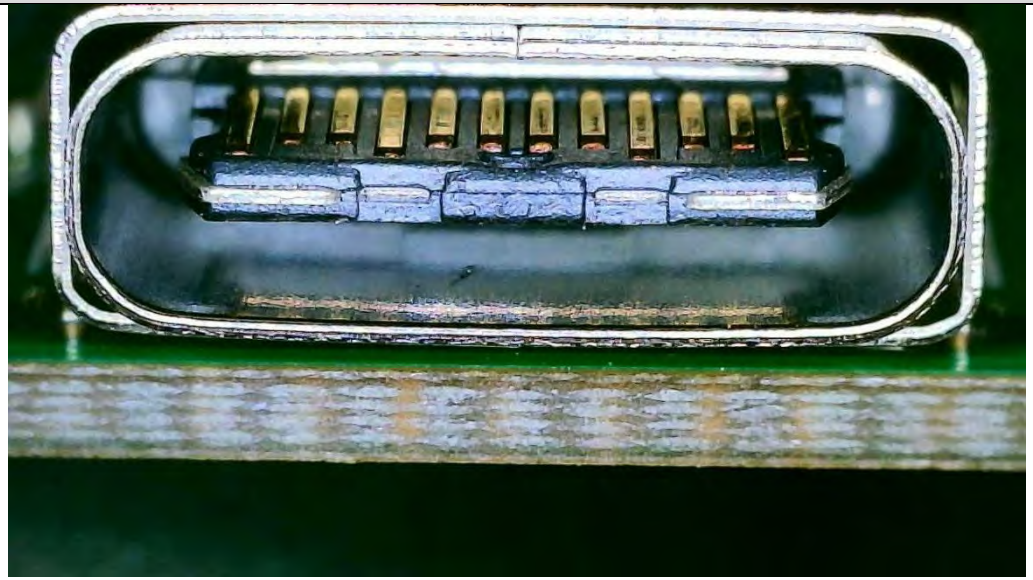
EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	**Evidence of Infringement**
	%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**98J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image). 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung ViewFinity S80UD has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Claim 98 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

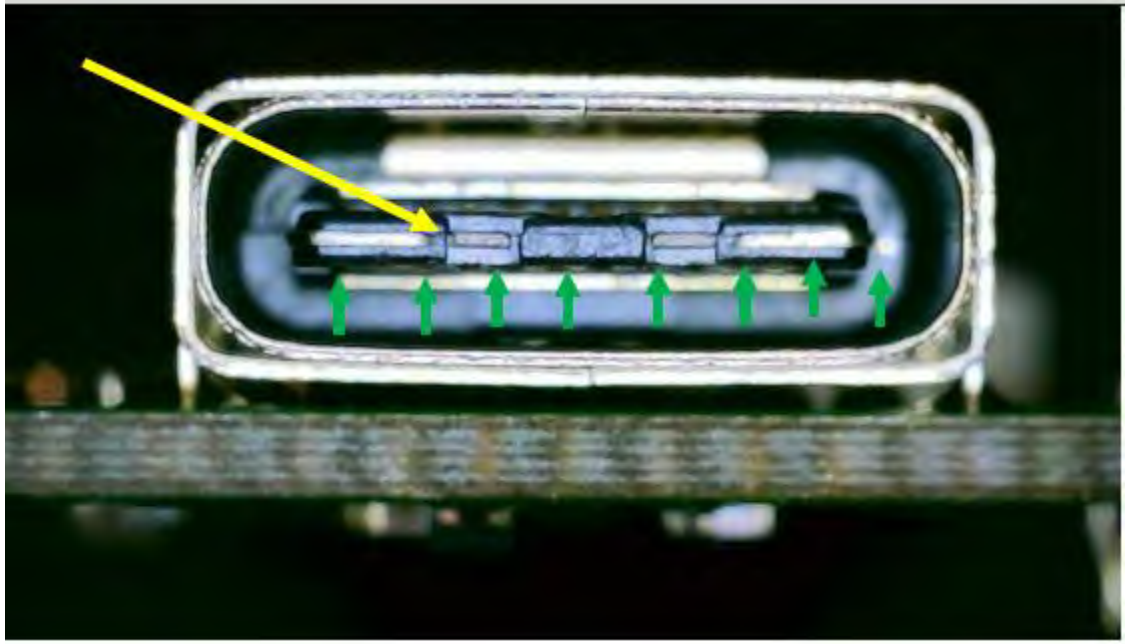
See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**98K**] through [**98N**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	**Evidence of Infringement**
[**98K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed at a central location within the connection slot,	The Samsung ViewFinity S80UD is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the green flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as green arrows in the image below. In the normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1587

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

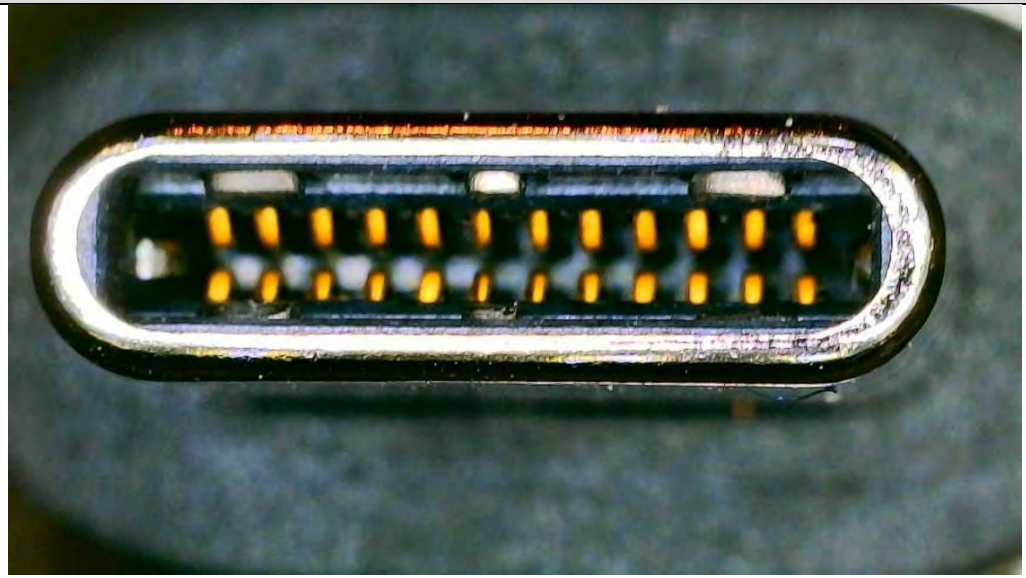
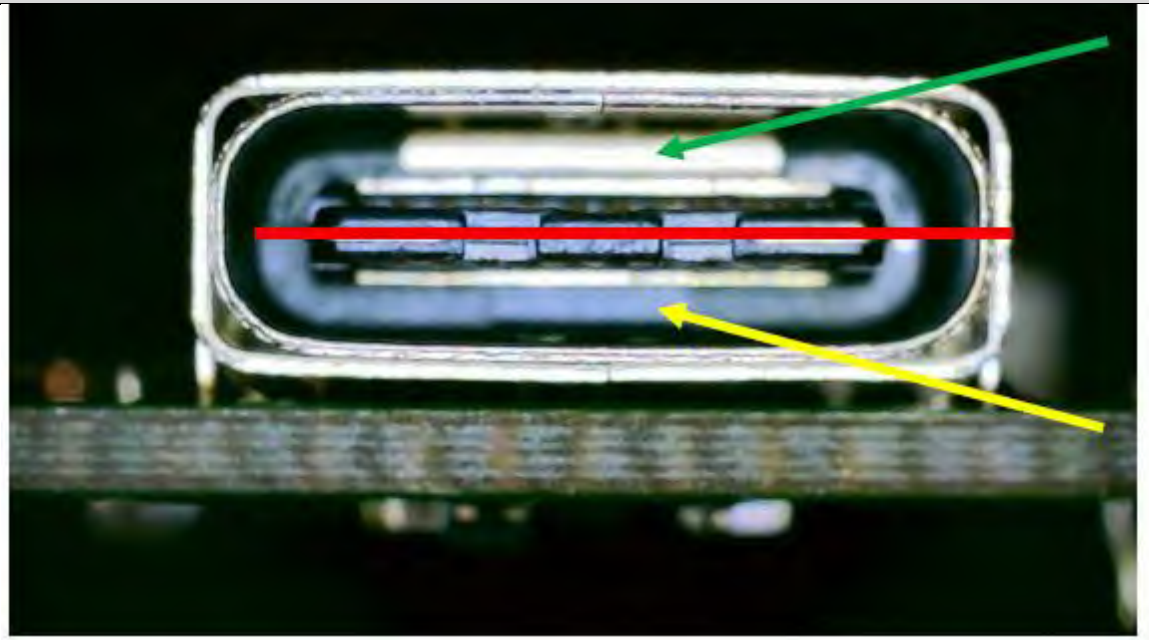
Claim 98 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) The tongue is disposed at a central location within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**].
[**98L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The socket structure of the Samsung ViewFinity S80UD is configured for a first operational state as described above in connection with element [**98K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows, respectively, in the image below.

Samsung, EX1004, p. 1590

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

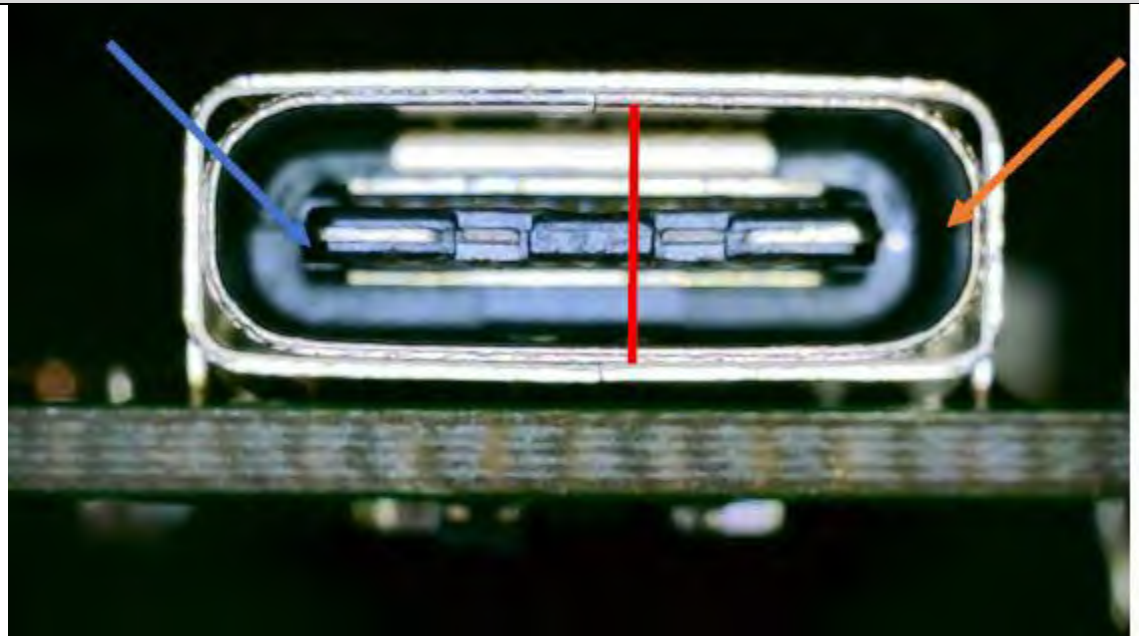
Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**].
[**98M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of	The socket structure of the Samsung ViewFinity S80UD is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed at a central location within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the green flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as green arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

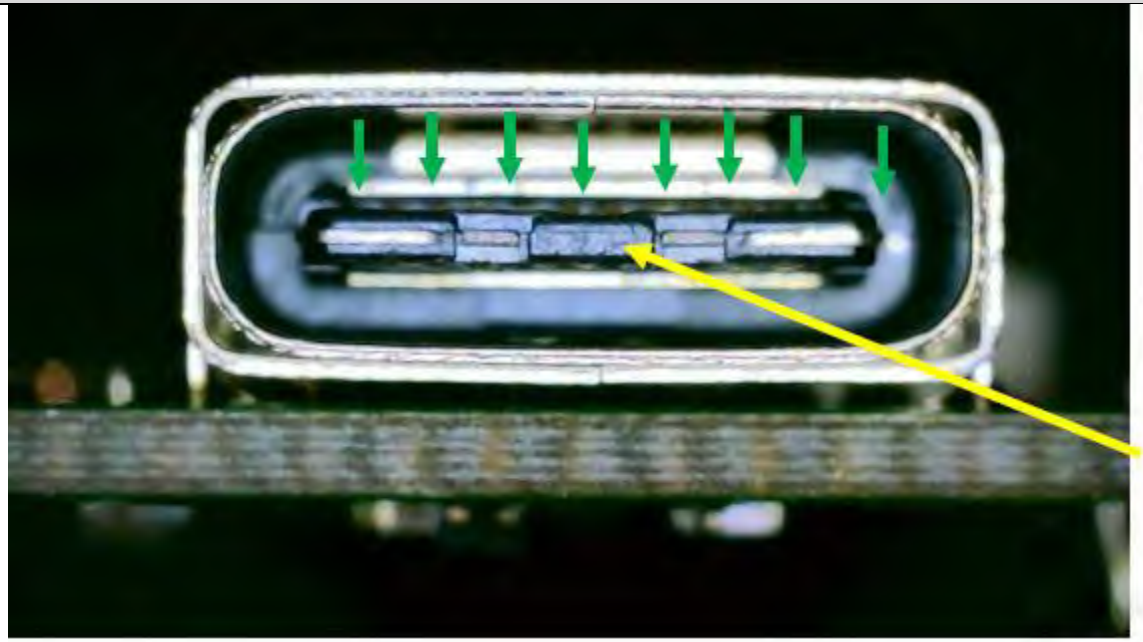
Claim 98 of the '307 Patent	Evidence of Infringement
	 The tongue is disposed at a central location within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 98 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].
[**98N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**98L**]. *See also* Element [**34N**].

Samsung, EX1004, p. 1594

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
[**99A**] An electrical connection system comprising	The Samsung ViewFinity S80UD and a USB-C plug such as the included USB-C cable form an electrical connection system.  The socket structure of the Samsung ViewFinity S80UD is specifically designed (and intended) to be connected with a USB-C plug such as the included USB-C cable, and indeed Samsung provides instructions to its customers to insert the USB-C plug into the USB port of the Samsung ViewFinity S80UD. For example, the Samsung ViewFinity S80UD is packaged with a USB-C cable, as further described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

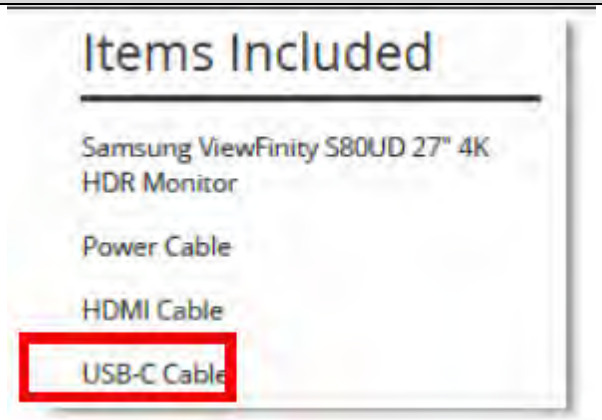
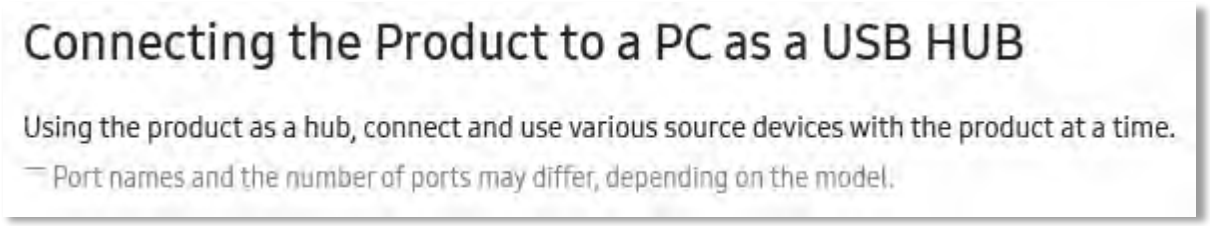
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 *See* https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). Samsung provides instructions to its customers to insert the USB cable into the USB port of the ViewFinity S80UD. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

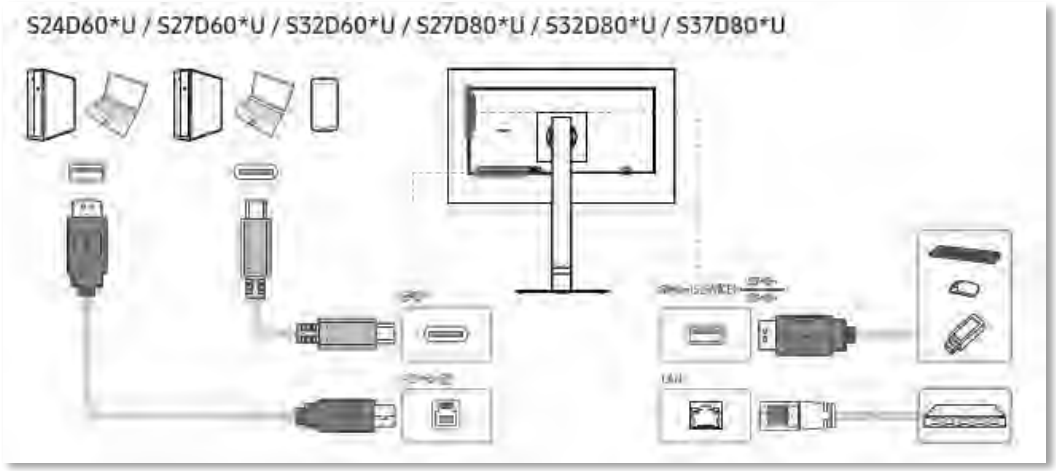
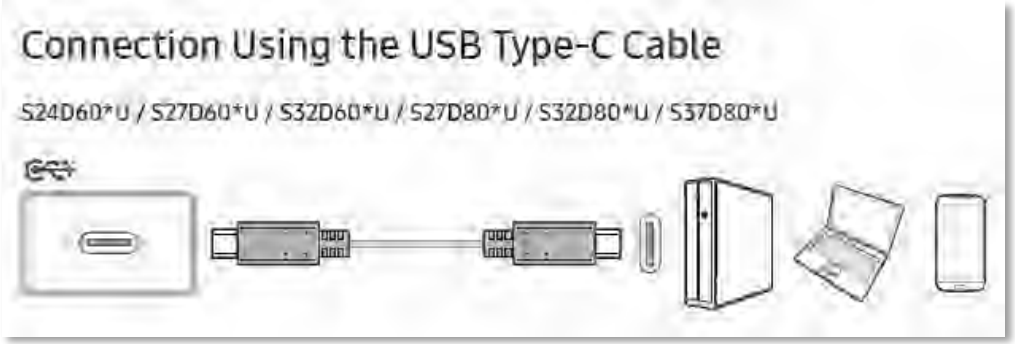
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	 User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

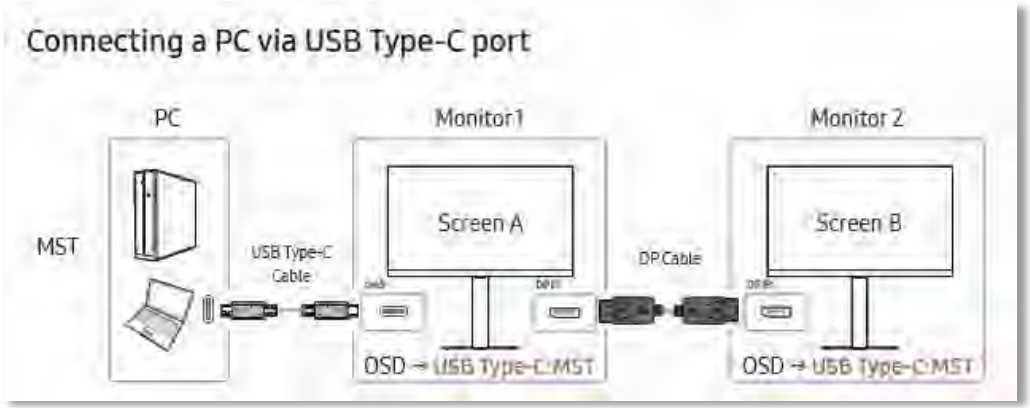
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	Id.  *Id.* Indeed, the primary if not entire purpose of the USB-C port is to permit a plug to be inserted into the USB-C port so that another device can be connected to the Samsung ViewFinity S80UD for charging and/or data transfer. *See also* Elements [**48B**], [**55A**].
[**99B**] the socket structure with the duplex electrical connection of claim 98 and	This Accused Instrumentality includes a socket structure as described in claim 98 as described above in connection with elements [**98A**] through [**98N**].
[**99C**] the plug,	The Samsung ViewFinity S80UD is packaged with a USB-C cable which includes a USB-C plug.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

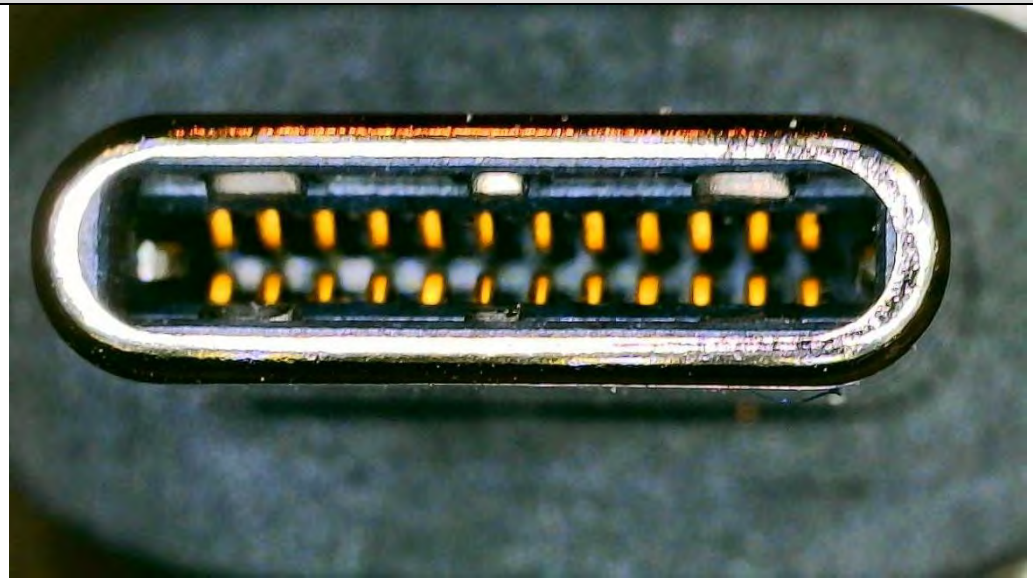
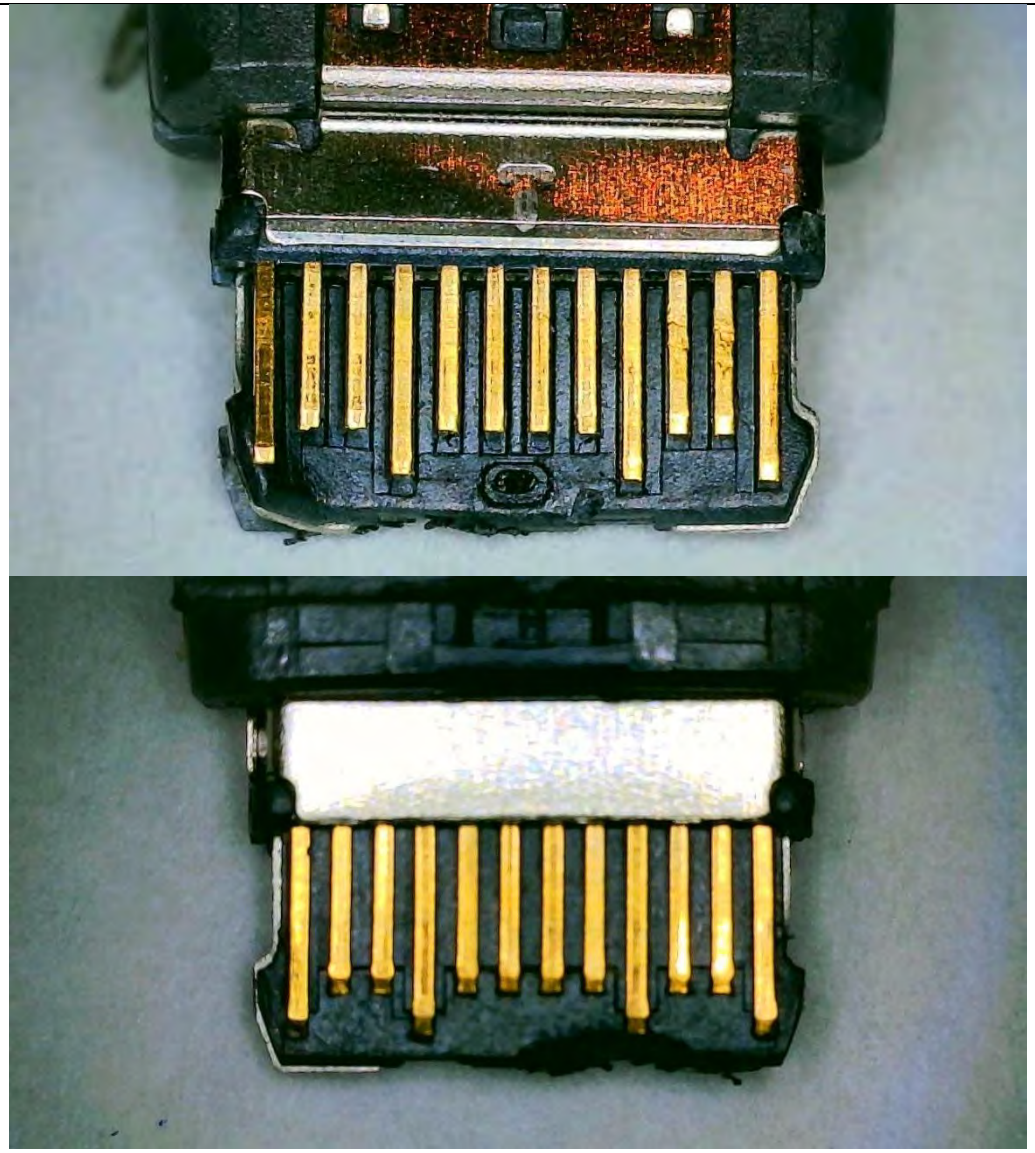
Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**55C**].
[**99D**] wherein the socket structure is operatively connected to the plug,	When the plug is connected with the socket structure, the socket structure is operatively connected to the plug.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**48B**].
[**99E**] and wherein the socket structure is operative to simultaneously electrically connect via the first and second contacts.	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Samsung, EX1004, p. 1602

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

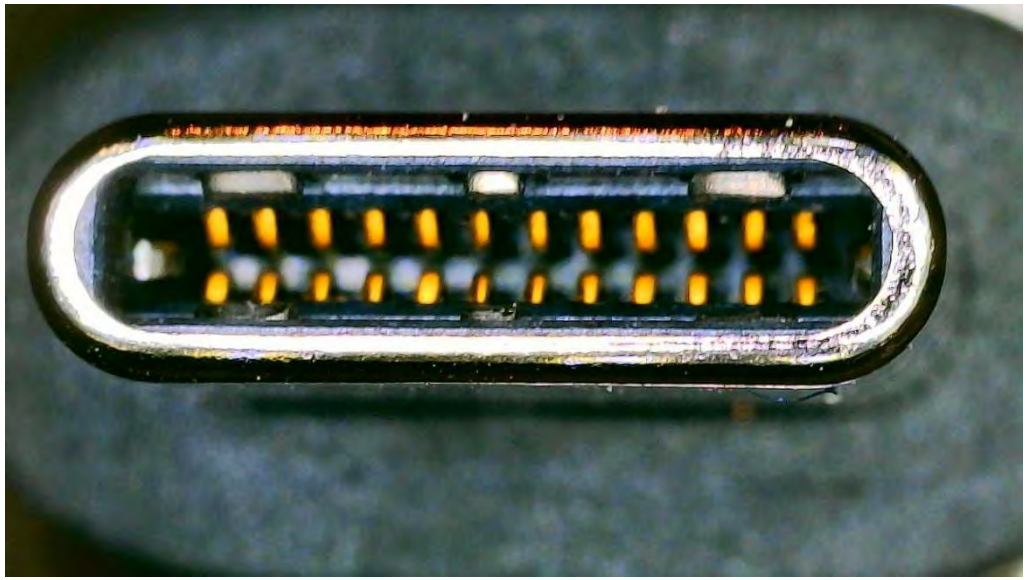
Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

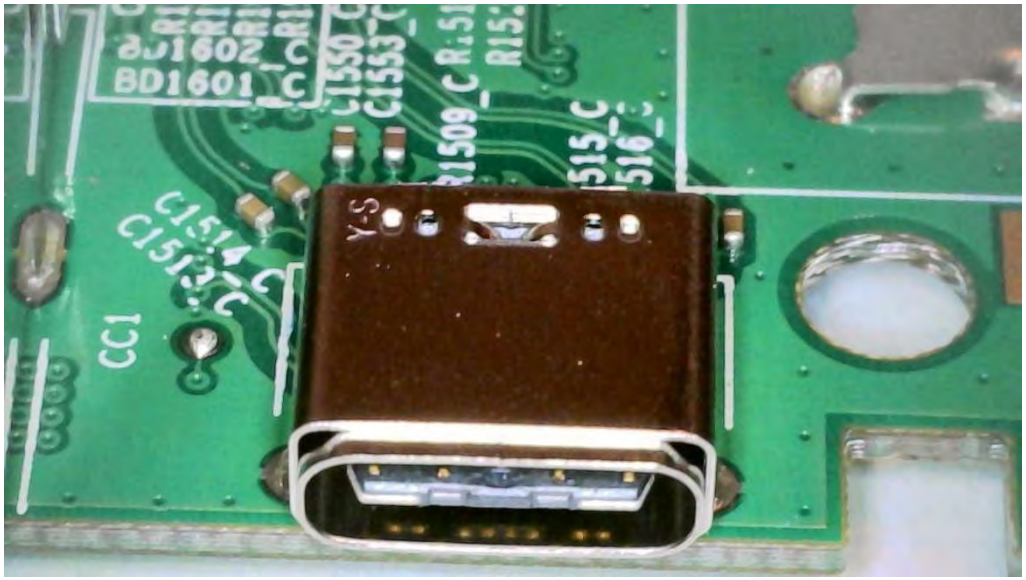
EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
	Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**100A**] The socket structure of claim 98,	This Accused Instrumentality includes a socket structure as described in claim 98 as described above in connection with elements [**98A**] through [**98N**].
[**100B**] wherein the tongue and the plastic base are integrally formed.	The tongue and the plastic base are integrally formed.  *See also* Element [**41B**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
[**101A**] The socket structure of claim 100,	This Accused Instrumentality includes a socket structure as described in claim 100, as described above in connection with elements [**100A**] through [**100B**].
[**101B**] wherein the metal housing at least partially covers the plastic base.	The socket structure of the Samsung ViewFinity S80UD includes a metal housing that covers the plastic base at least in part.  *See also* Element [**39B**].
[**102A**] The socket structure of claim 101,	This Accused Instrumentality includes a socket structure as described in claim 101 as described above in connection with elements [**101A**] through [**101B**].
[**102B**] wherein at least two of the first contacts are	At least one of each of the first and second contacts of the Samsung ViewFinity S80UD are not in electrical communication with at least one other of each of the first and second contacts. For example, the Samsung ViewFinity S80UD includes a USB-C socket and is compatible with USB-C cables, as further described

Claims 99 through 107 of the '307 Patent	Evidence of Infringement
not in electrical communication with one another and at least two of the second contacts are not in electrical communication with one another.	above in connection with element [**34A**]. The USB-C standard describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claims 99 through 107 of the '307 Patent	**Evidence of Infringement**
	The Samsung ViewFinity S80UD would not work for its intended function if, for example, the VBUS connections (A4, A9, B4, B9) were in electrical communication with the GND connections (A1, A12, B1, B12). In addition, testing confirms that at least two of the first contacts are not in electrical communication with one another, and at least two of the second contacts are not in electrical communication with one another. *See also* Element [**44B**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

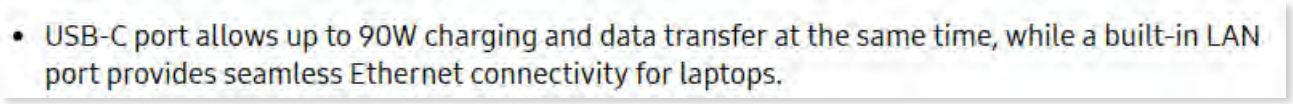
Claim 114 of the '307 Patent	**Evidence of Infringement**
[**114A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung ViewFinity S80UD is a monitor that includes a socket structure with duplex electrical connection. In particular, the Samsung ViewFinity S80UD provides duplex electrical connection via a USB-C port.  *See* https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025).  *Id.*  *Id.*

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

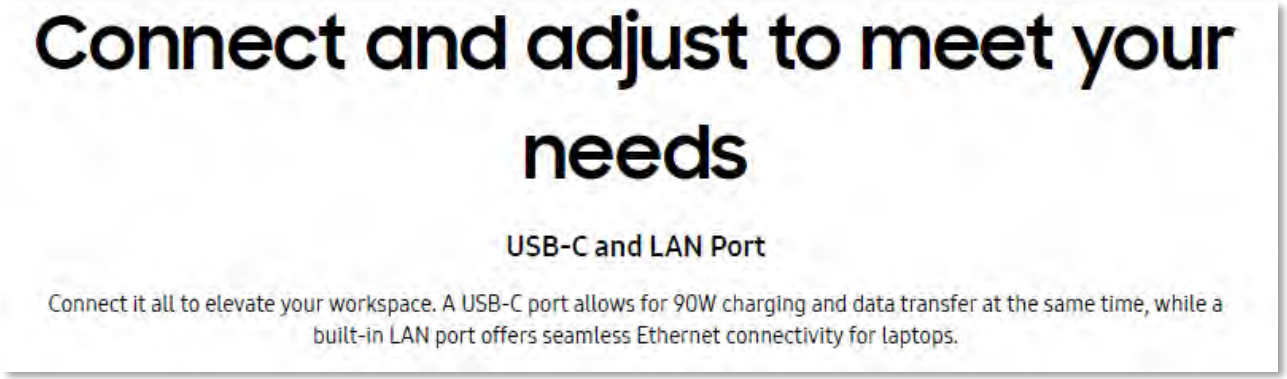
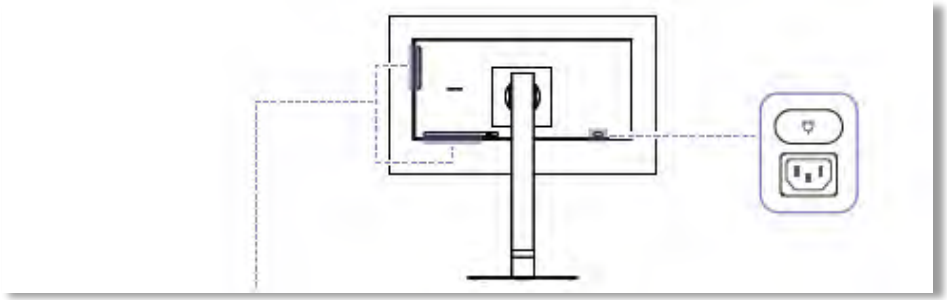
Claim 114 of the '307 Patent	Evidence of Infringement
	 *Id.*  

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

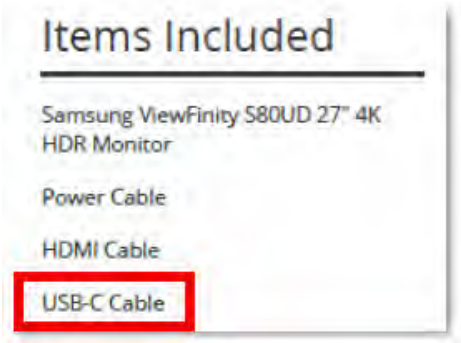
Claim 114 of the '307 Patent	Evidence of Infringement
	User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). In addition, the Samsung ViewFinity S80UD is packaged and compatible with a USB-C cable.  (Image of cable included in packaging) 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	**Evidence of Infringement**
	See https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**114B**] through [**114N**].
[**114B**] a plastic base;	The socket structure of the Samsung ViewFinity S80UD includes a plastic base. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of ViewFinity S80UD.) *See also* Element [**34B**].
[**114C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung ViewFinity S80UD includes a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

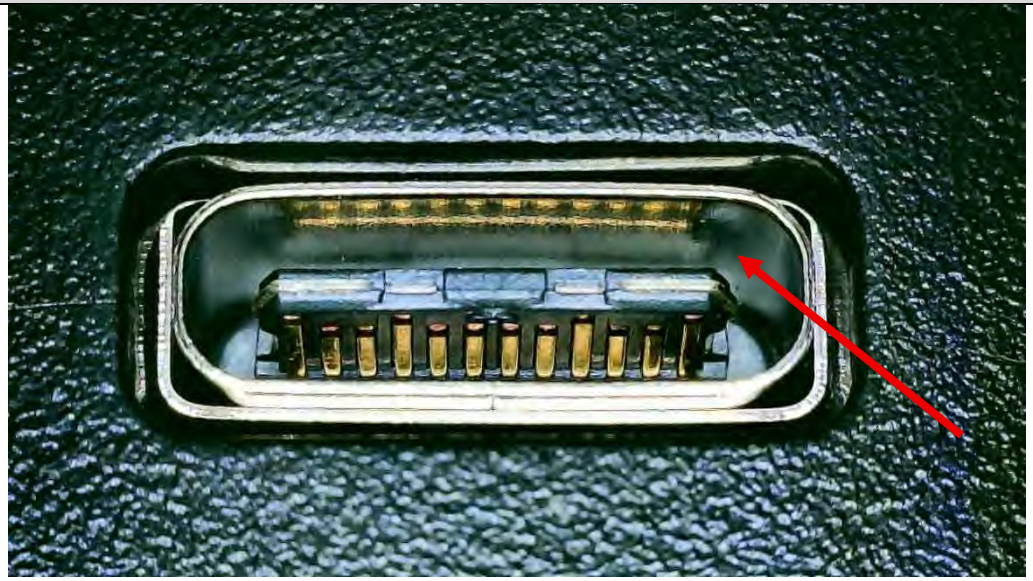
Claim 114 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is generally indicated by the yellow arrow.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

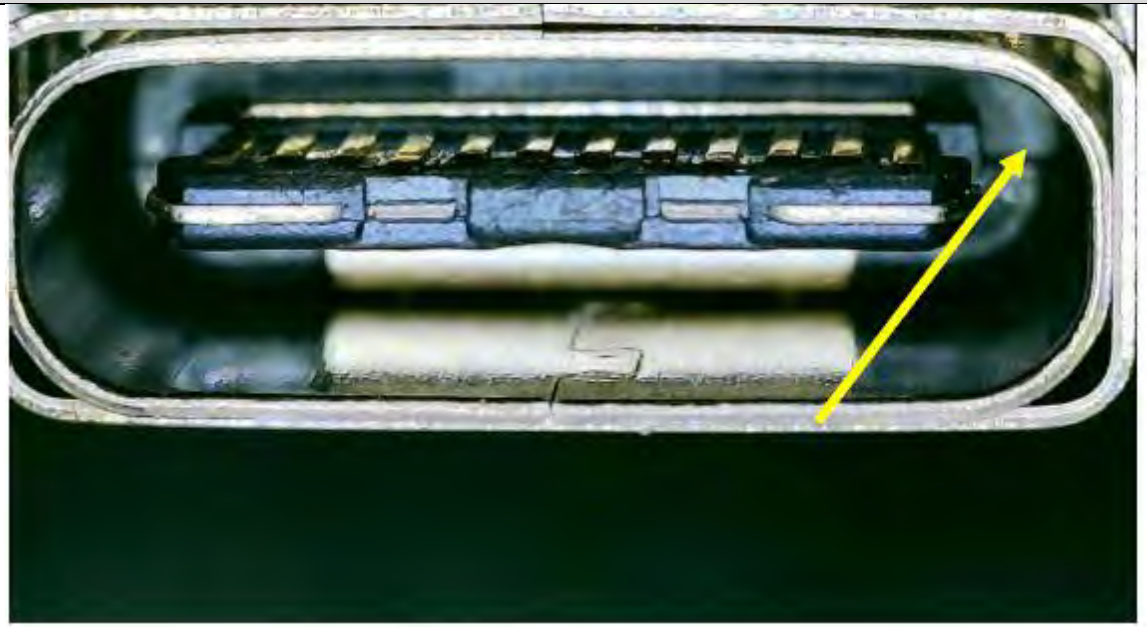
Claim 114 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung ViewFinity S80UD, as described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

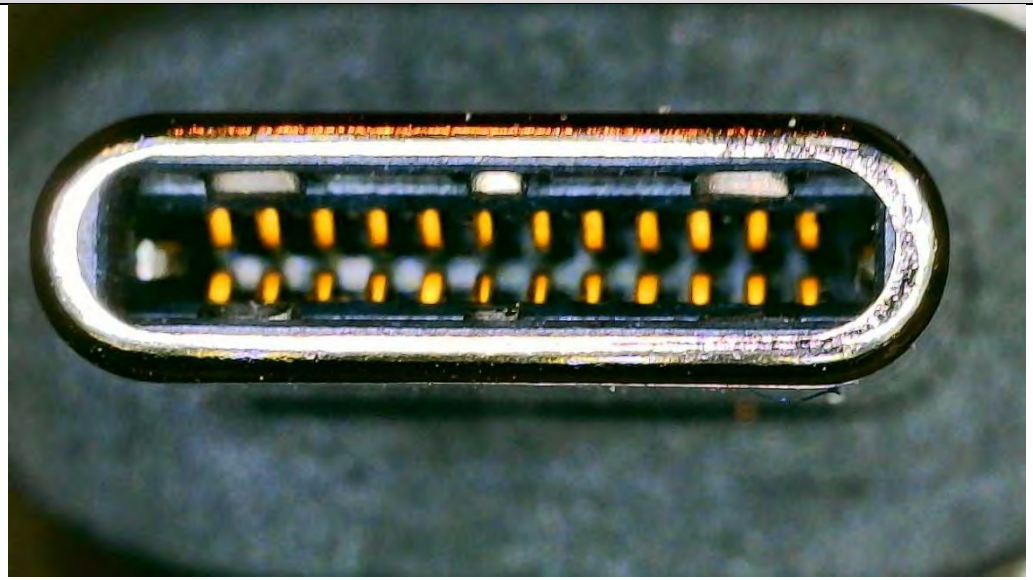
Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**114D**] a tongue, which has a first surface and a second surface disposed opposite the first surface and	The socket structure of the Samsung ViewFinity S80UD includes a tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

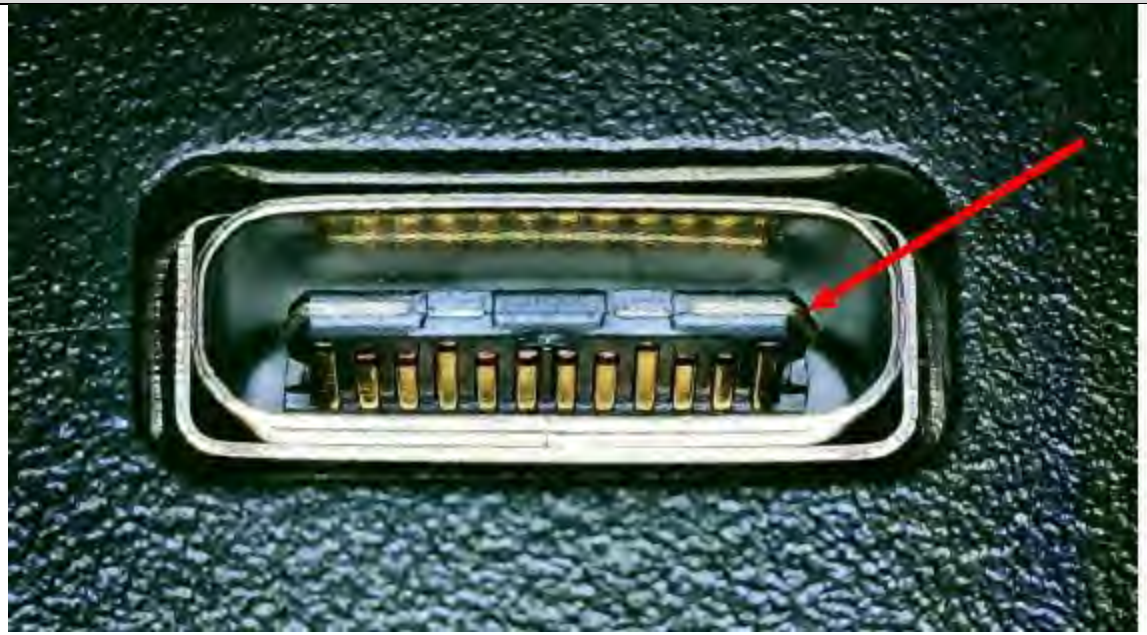
Claim 114 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

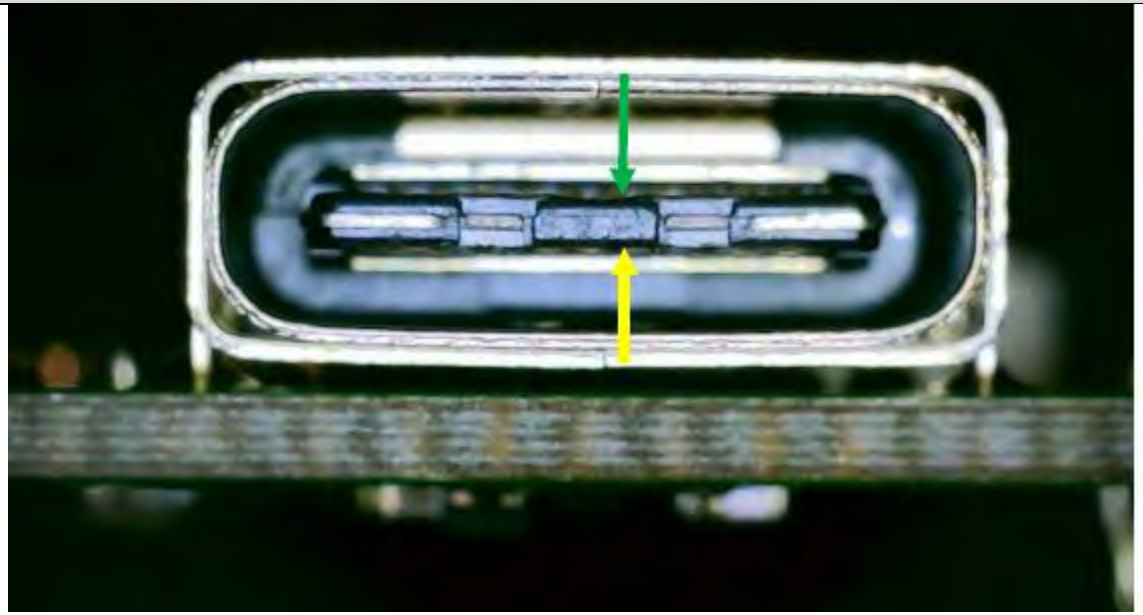
Claim 114 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34D**].
[**114E**] is disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and	The tongue of the socket structure of the ViewFinity S80UD (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

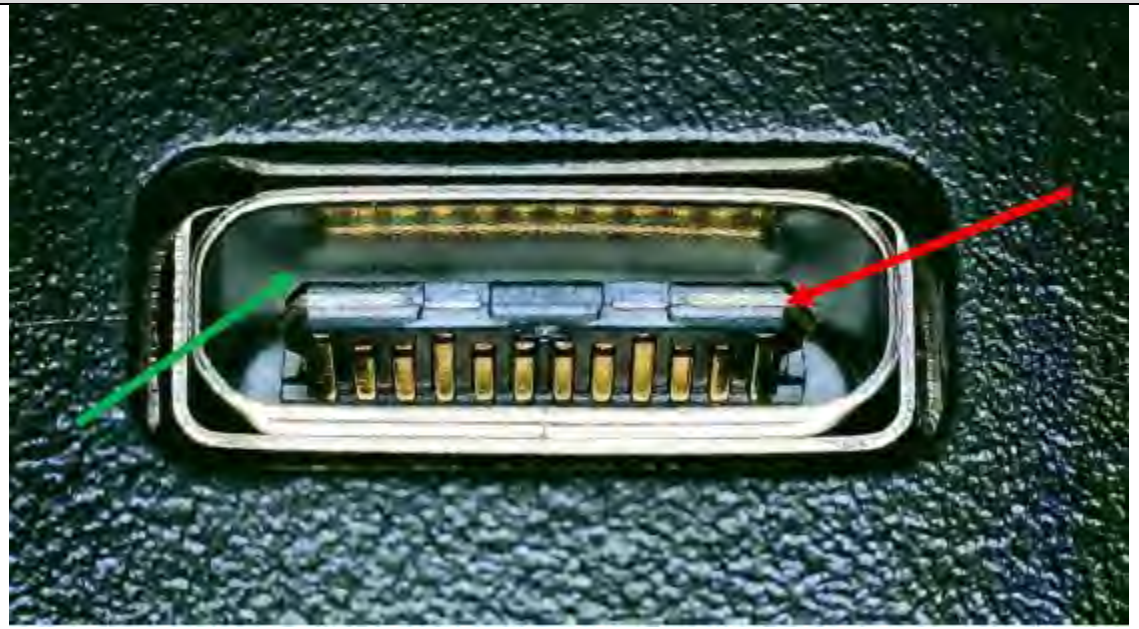
Claim 114 of the '307 Patent	Evidence of Infringement
positioned into the connection slot based on an operational state when the socket structure is connected to the plug;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

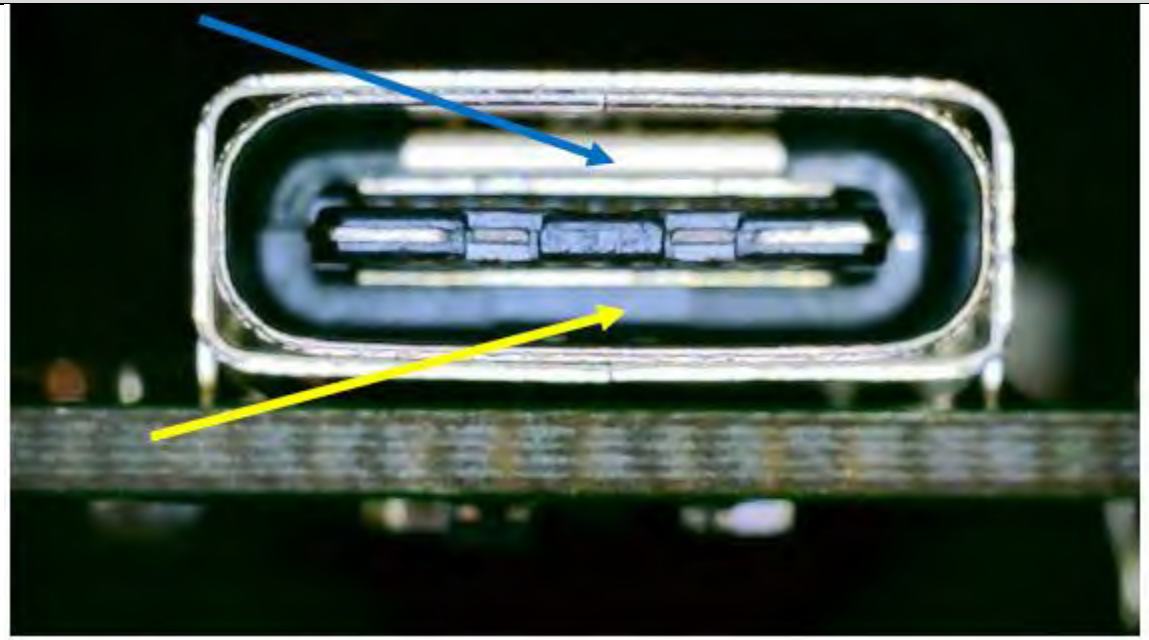
Claim 114 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug inserted and positioned in the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

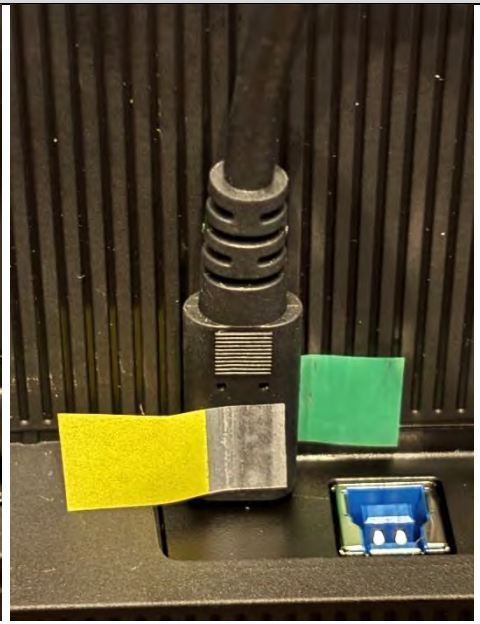
Claim 114 of the '307 Patent	**Evidence of Infringement**
	  The green and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the socket structure of the Samsung ViewFinity S80UD when the side of the plug indicated with a green flag is on top (first image) and when the side of the plug indicated with the green flag is on bottom (second picture). *See also* Element [**34E**].
[**114F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is	The socket structure of the Samsung ViewFinity S80UD includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

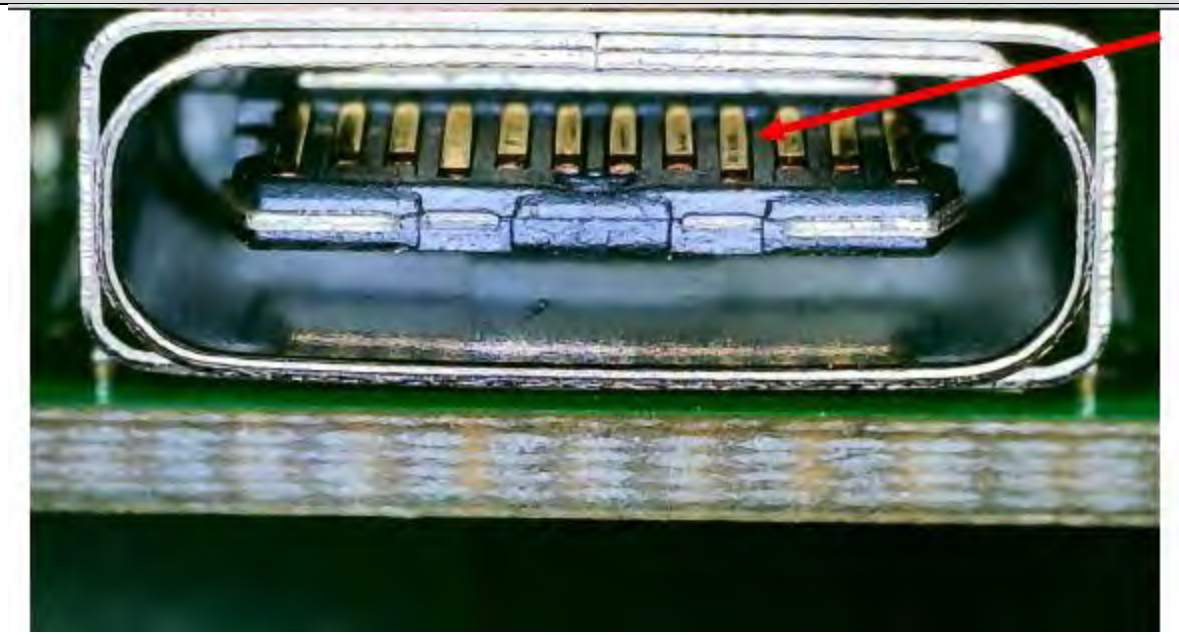
Claim 114 of the '307 Patent	**Evidence of Infringement**
electrically connected to a respective first pin extending out of the plastic base; and	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

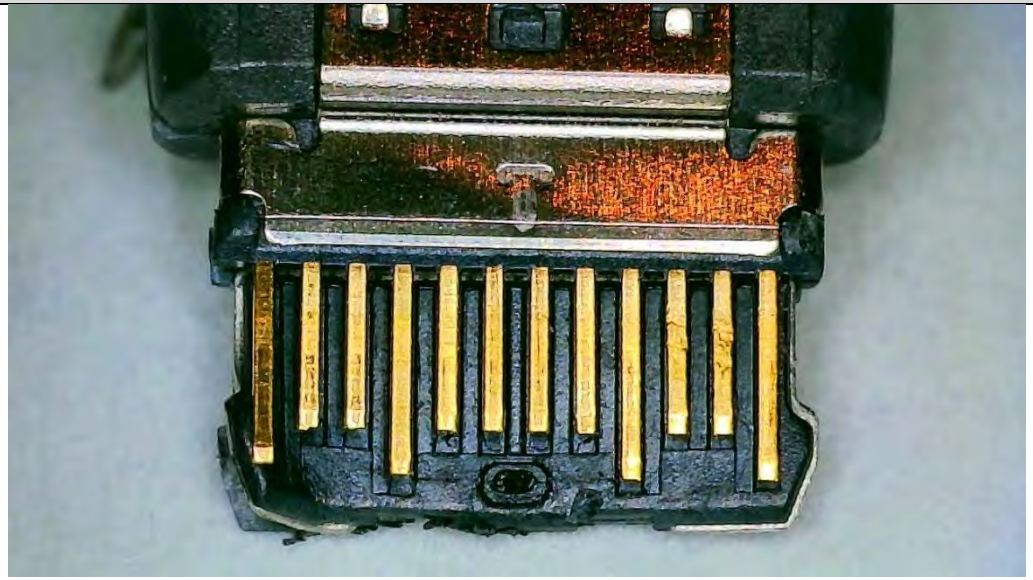
Claim 114 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve first contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image of separated components of socket structure.)

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure showing pins connected to PCB.) Note that the pins extending out of the plastic base are arranged in two rows, such that the image above shows only the first pins. The second pins are located behind the first pins. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Samsung, EX1004, p. 1627

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

See also Element [**34F**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

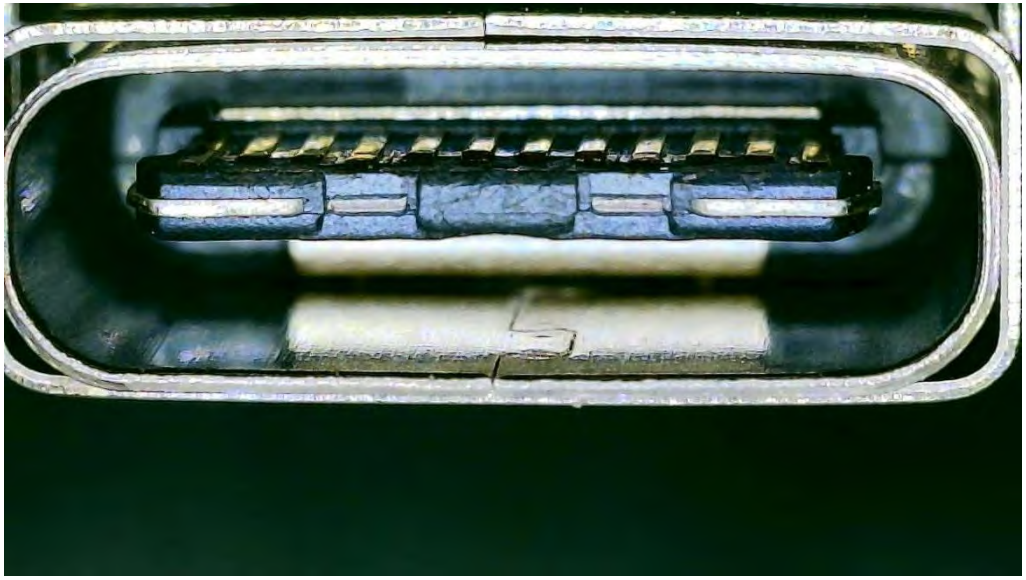
Claim 114 of the '307 Patent	**Evidence of Infringement**
[**114G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung ViewFinity S80UD includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

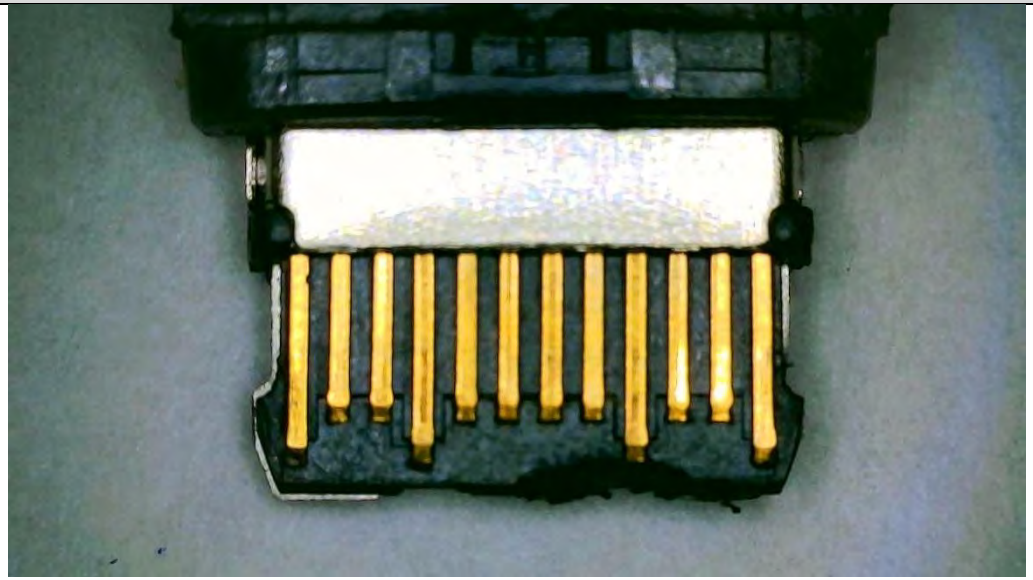
Claim 114 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung ViewFinity S80UD.) *See also* Element [**34G**].
[**114H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve second contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base.

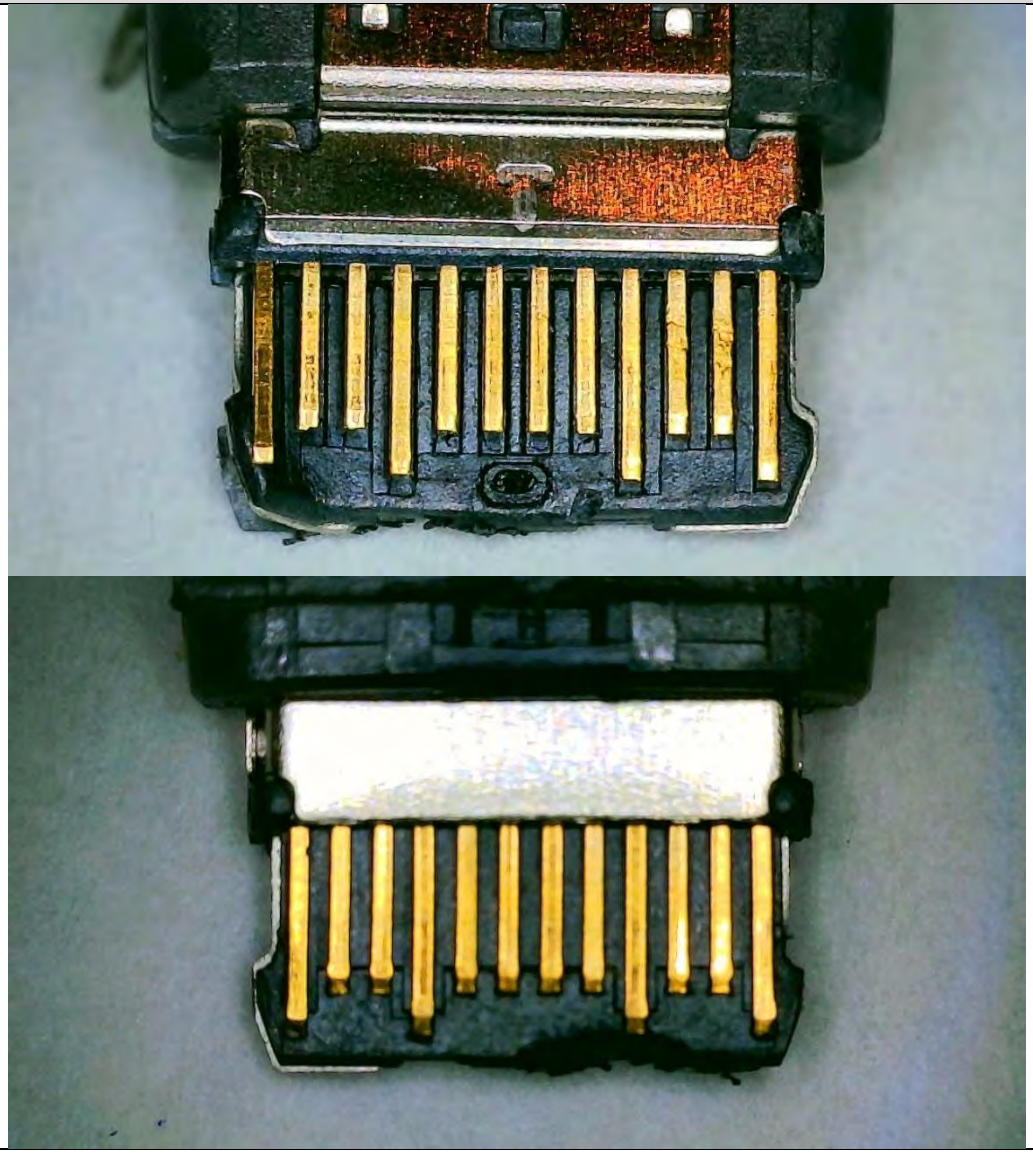
See also element [**34H**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	**Evidence of Infringement**
[**114I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

Samsung, EX1004, p. 1633

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1634

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

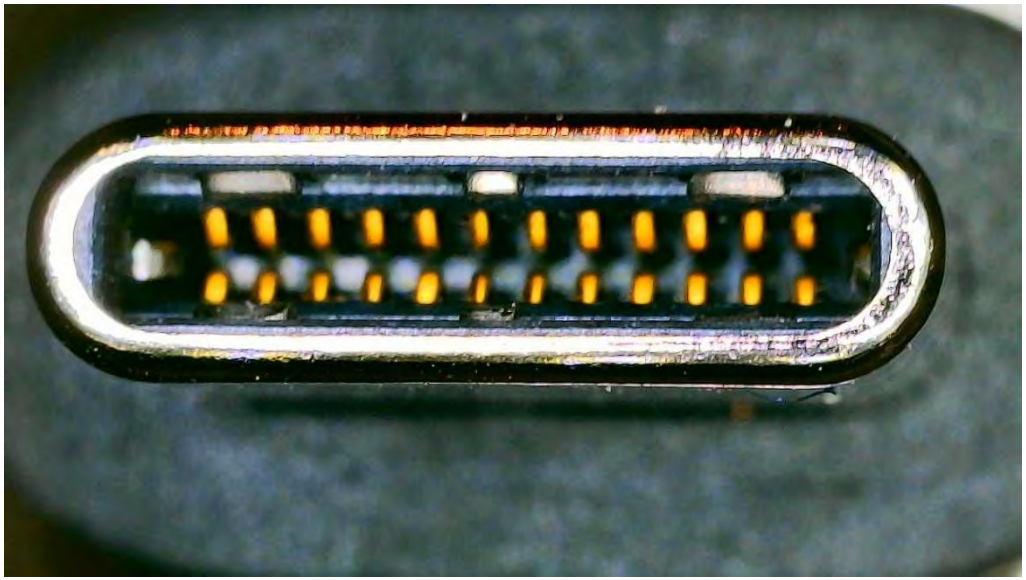
Claim 114 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	**Evidence of Infringement**
	See also Element [**34I**].
[**114J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image). 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

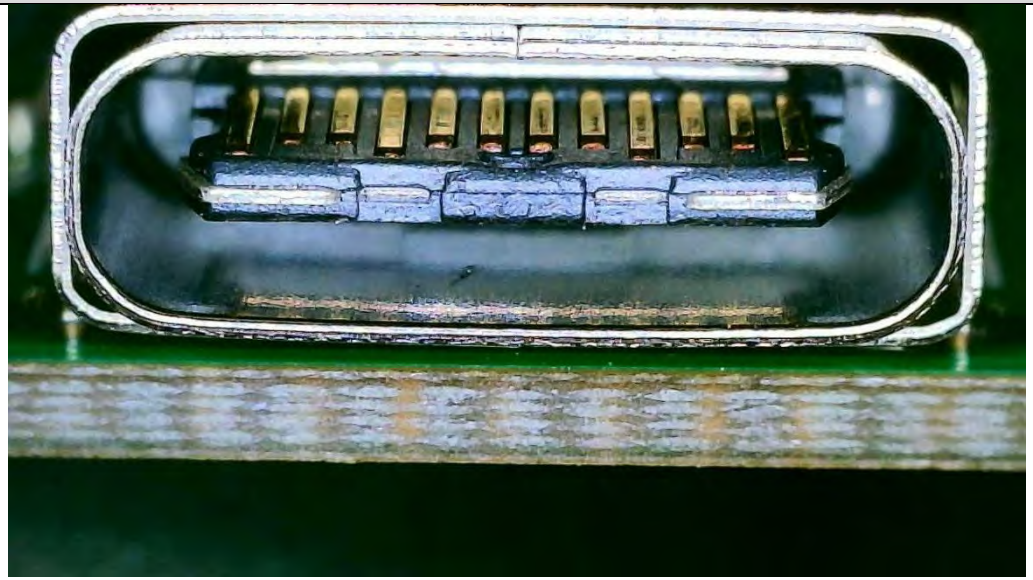
Claim 114 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung ViewFinity S80UD has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**114K**] through [**114N**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	**Evidence of Infringement**
[**114K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is centrally located within the connection slot,	The Samsung ViewFinity S80UD is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the green flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as green arrows in the image below. In the normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

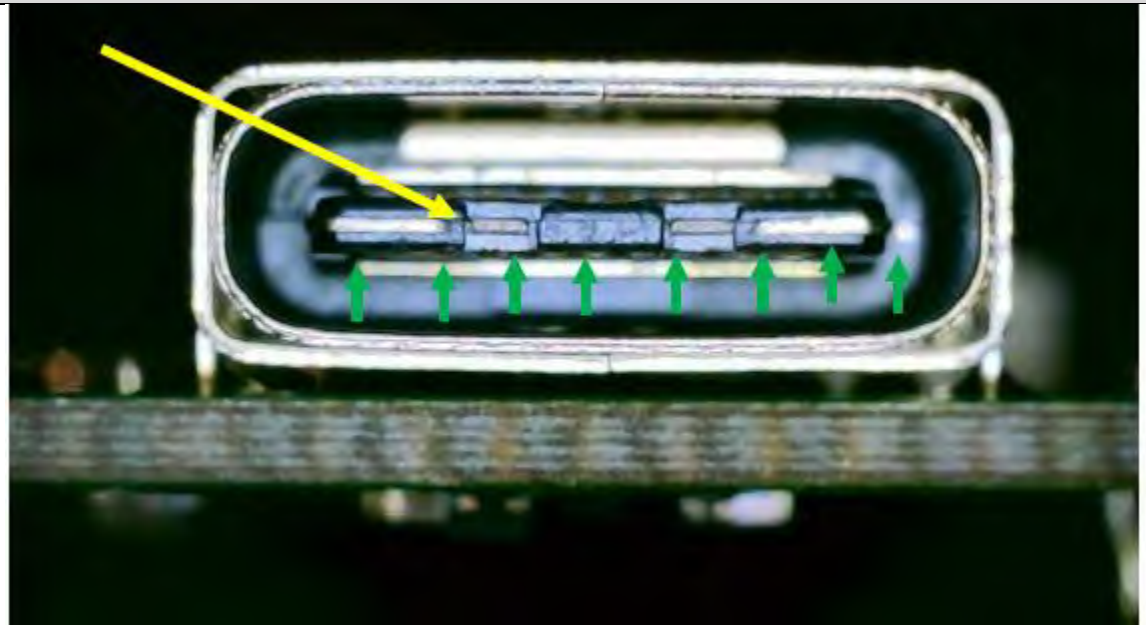
Claim 114 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

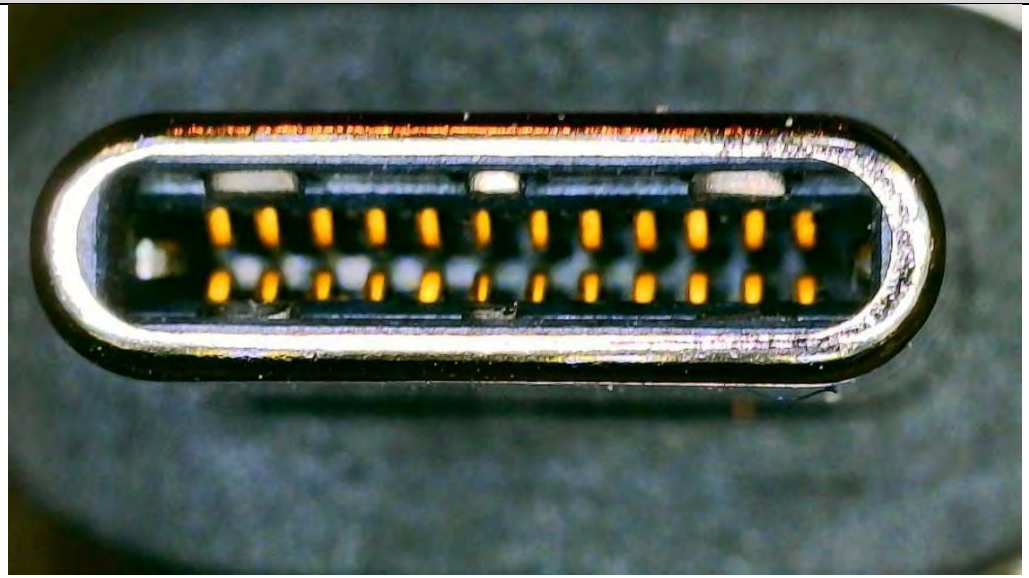
Claim 114 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) The tongue is centrally located within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**].
[**114L**] wherein the connection slot is symmetric with up, down, left and right chambers around the tongue; and	The socket structure of the Samsung ViewFinity S80UD is configured for a first operational state as described above in connection with element [**114K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

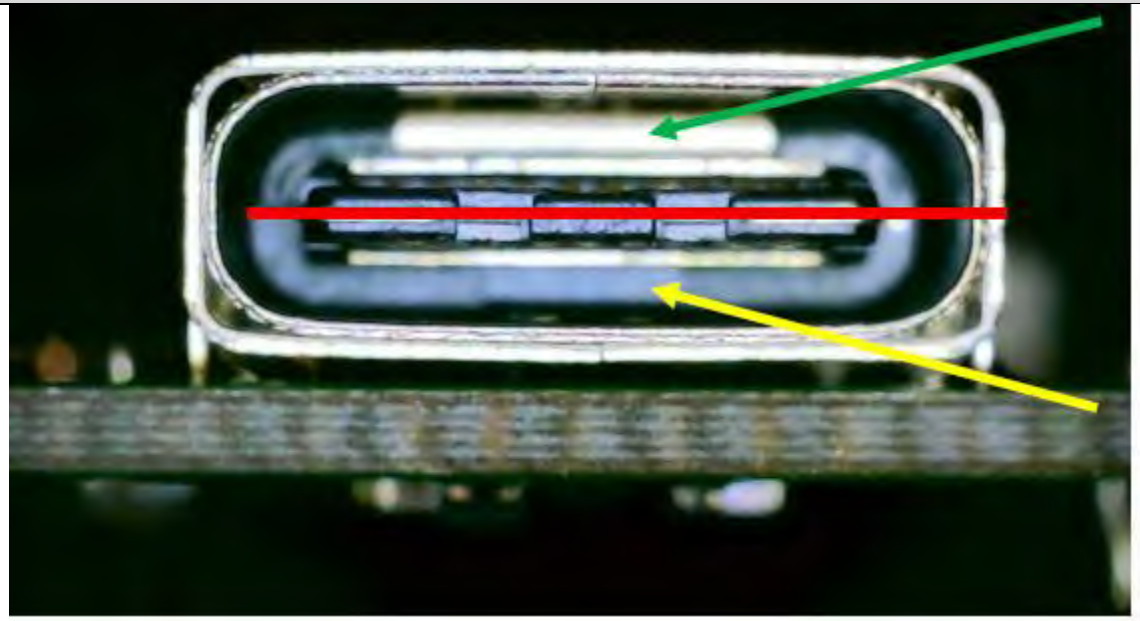
Claim 114 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows, respectively, in the image below.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

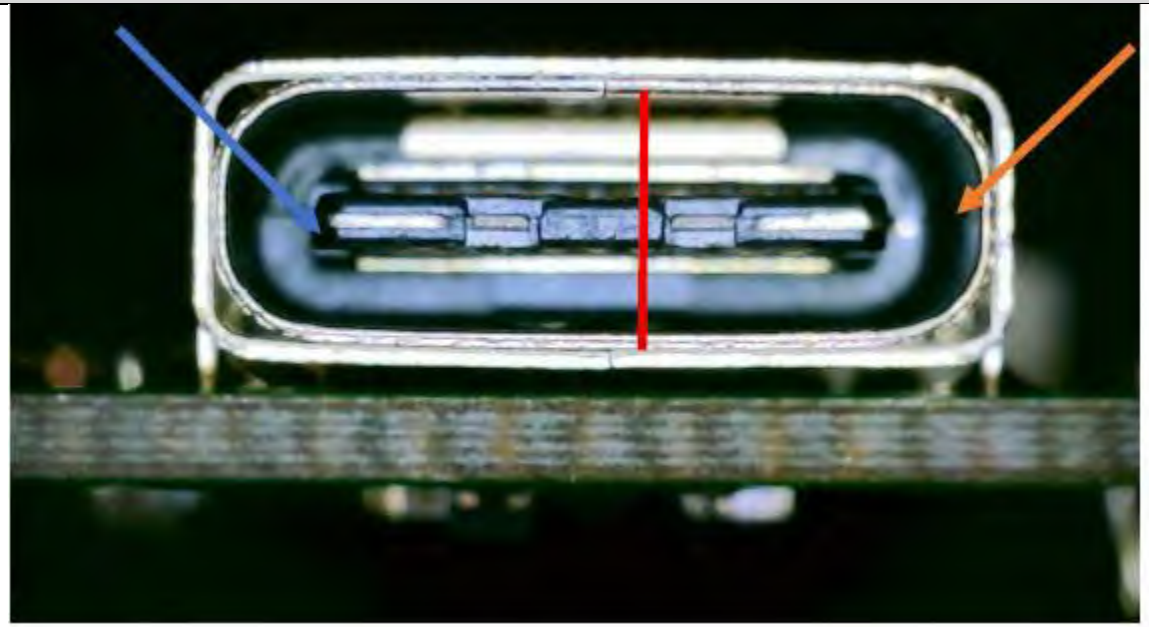
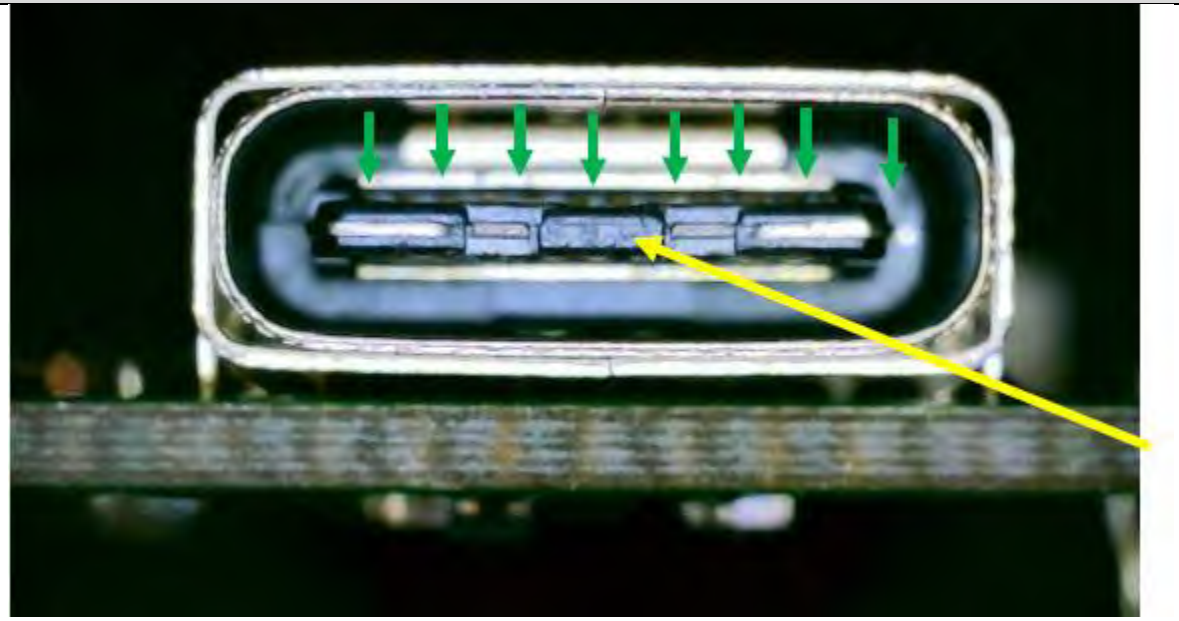
Claim 114 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**].
[**114M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing	The socket structure of the Samsung ViewFinity S80UD is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is centrally located within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the green flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as green arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 The tongue is centrally located within the connection slot.

Samsung, EX1004, p. 1647

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 114 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].
[**114N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**114L**]. *See also* Element [**34N**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

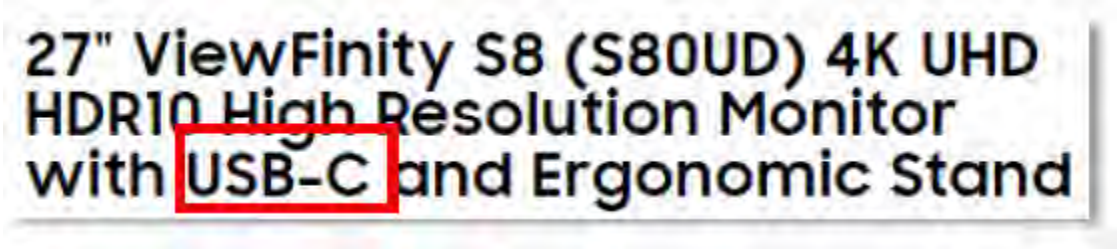
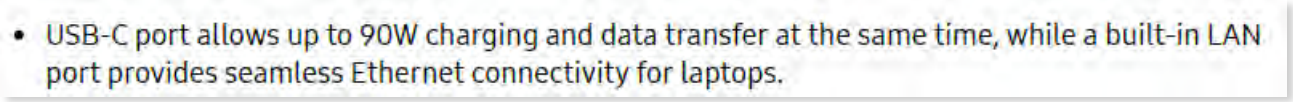
Claim 116 of the '307 Patent	**Evidence of Infringement**
[**116A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung ViewFinity S80UD is a monitor that includes a socket structure with duplex electrical connection. In particular, the Samsung ViewFinity S80UD provides duplex electrical connection via a USB-C port.  *See* https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025).  *Id.*  *Id.*

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

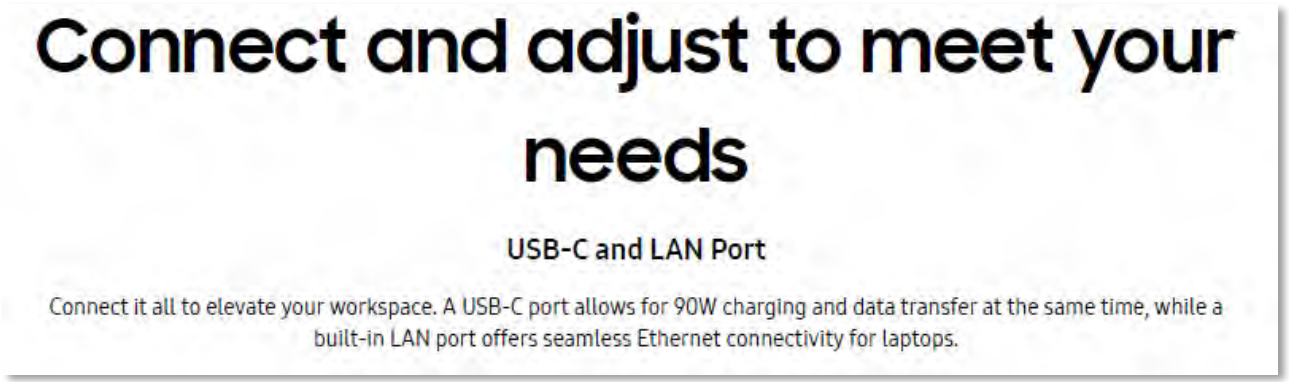
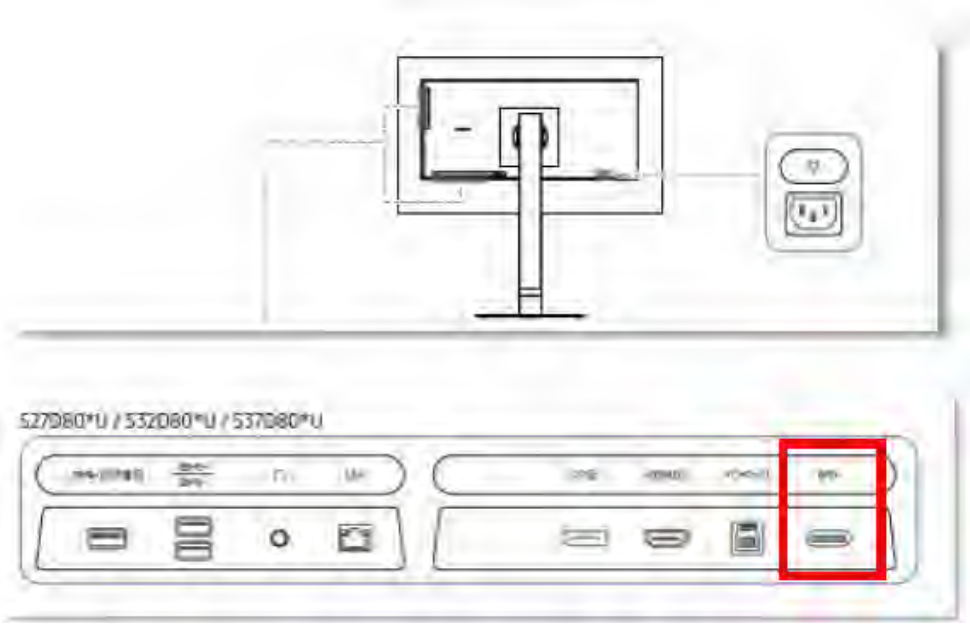
Claim 116 of the '307 Patent	Evidence of Infringement
	 *Id.* 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

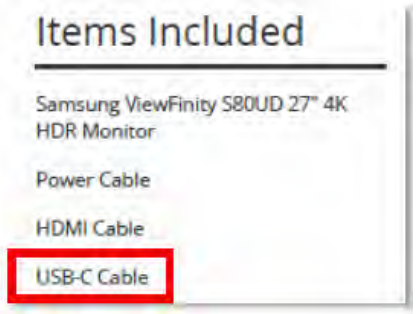
Claim 116 of the '307 Patent	Evidence of Infringement
	User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). In addition, the Samsung ViewFinity S80UD is packaged and compatible with a USB-C cable.  (Image of cable included in packaging) 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	**Evidence of Infringement**
	See https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**116B**] through [**116P**].
[**116B**] a plastic base;	The socket structure of the Samsung ViewFinity S80UD includes a plastic base. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

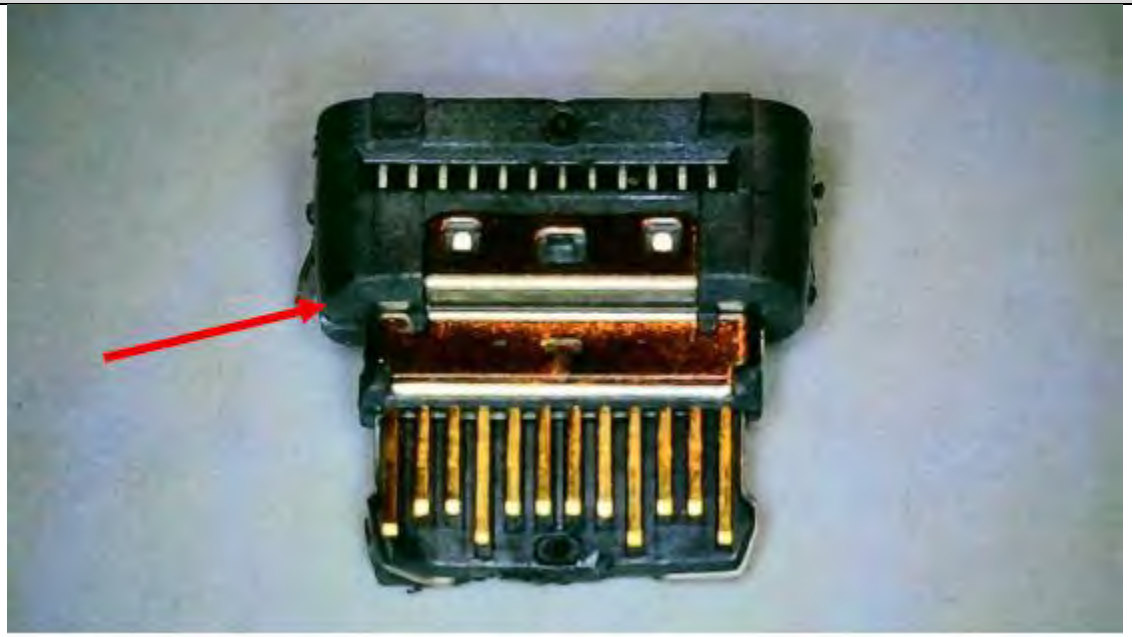
Claim 116 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of ViewFinity S80UD.) *See also* Element [**34B**].
[**116C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung ViewFinity S80UD includes a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

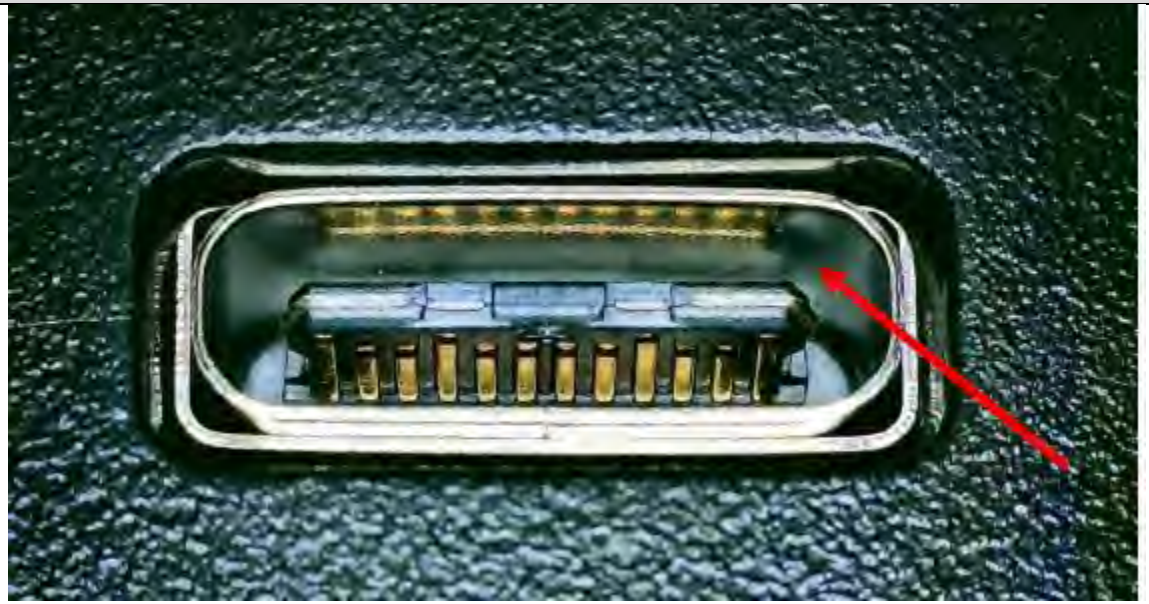
Claim 116 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is generally indicated by the yellow arrow.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

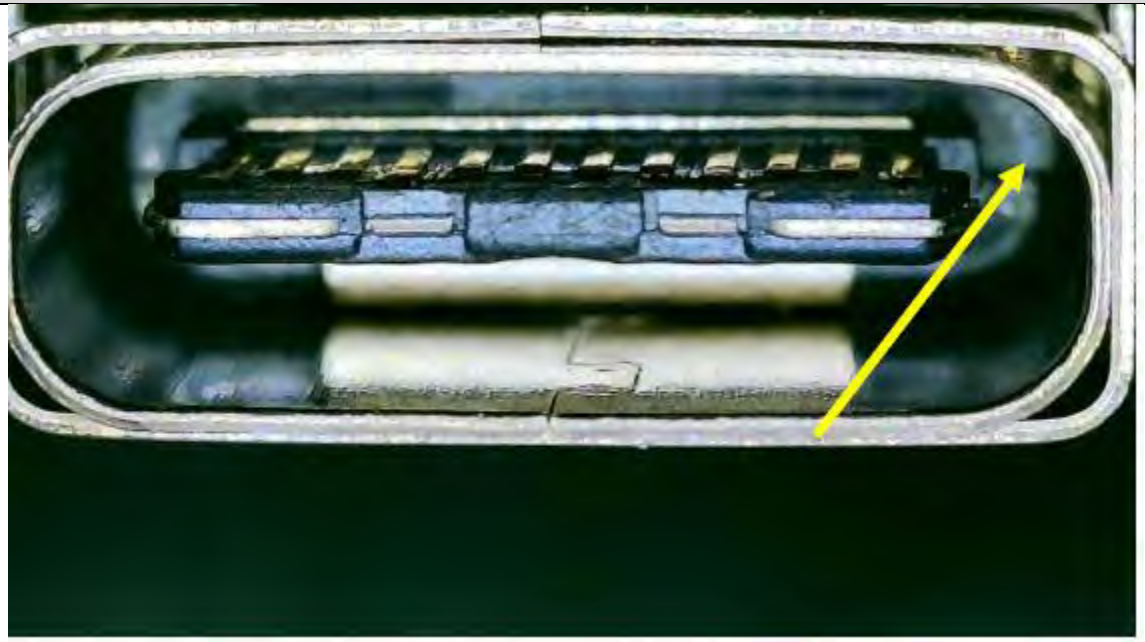
Claim 116 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung ViewFinity S80UD, as described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

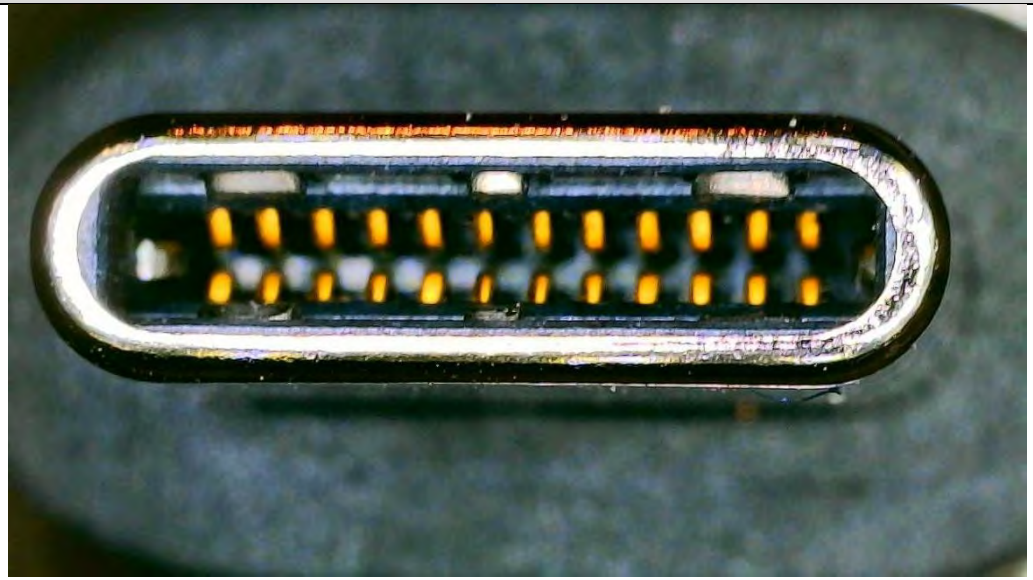
Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**116D**] a tongue, which has a first surface and a second surface disposed opposite the first surface and	The socket structure of the Samsung ViewFinity S80UD includes a tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

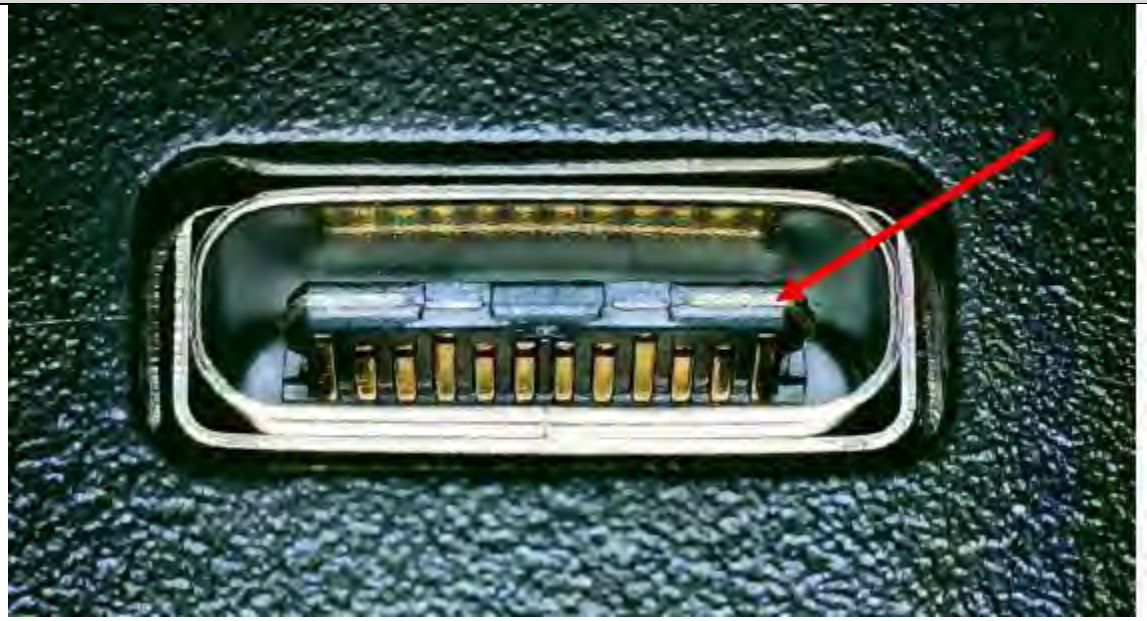
Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

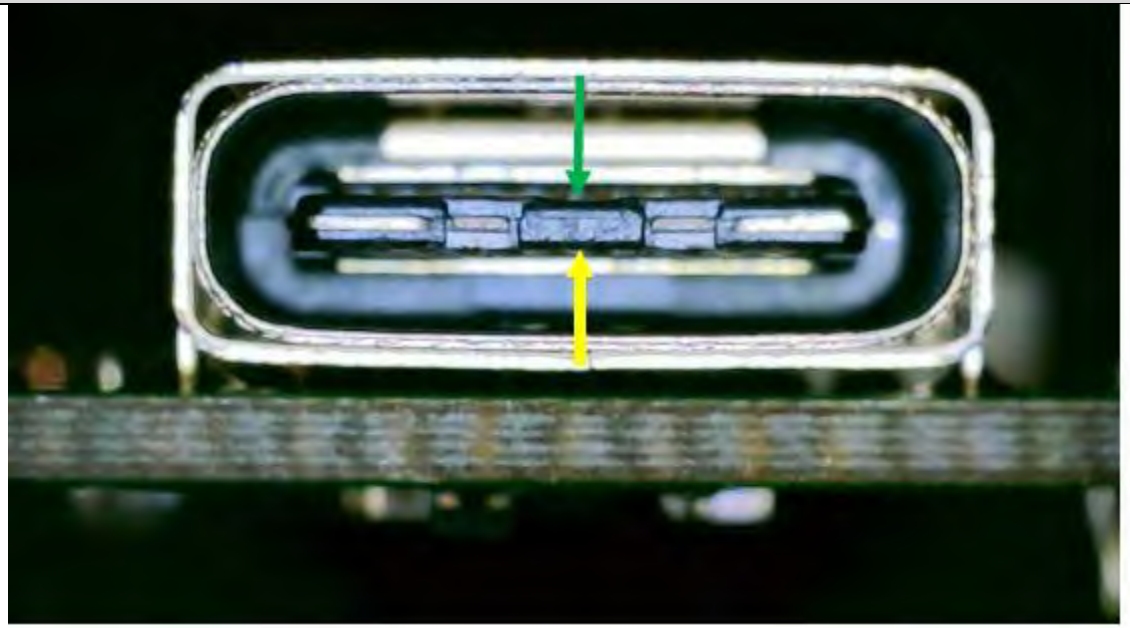
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**].
[**116E**] is disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely	The tongue of the socket structure of the ViewFinity S80UD (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

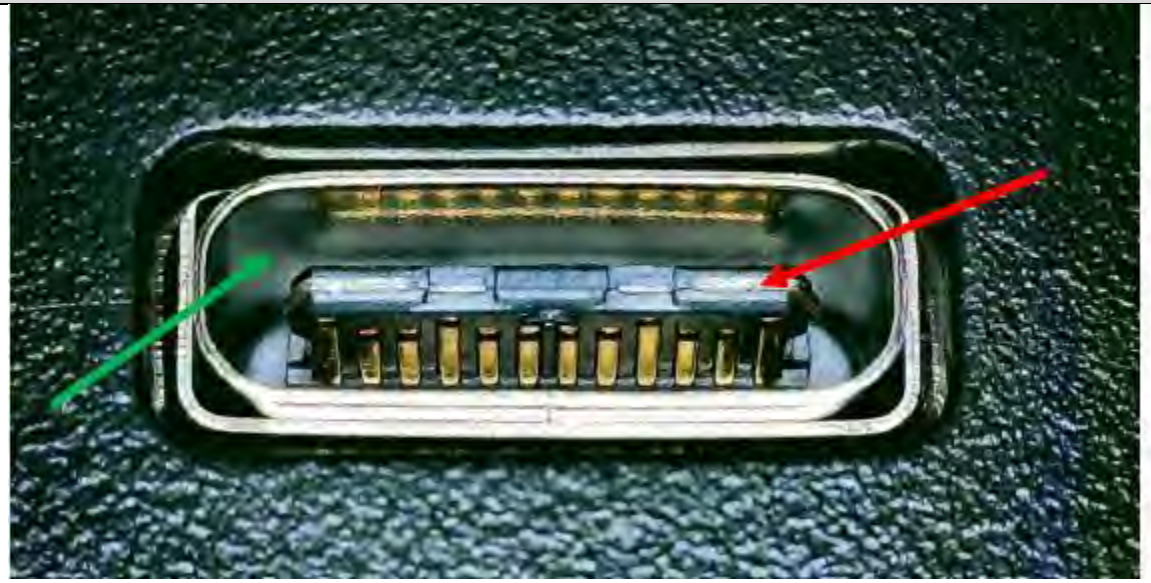
Claim 116 of the '307 Patent	Evidence of Infringement
inserted and positioned into the connection slot based on an operational state when the socket structure is connected to the plug;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

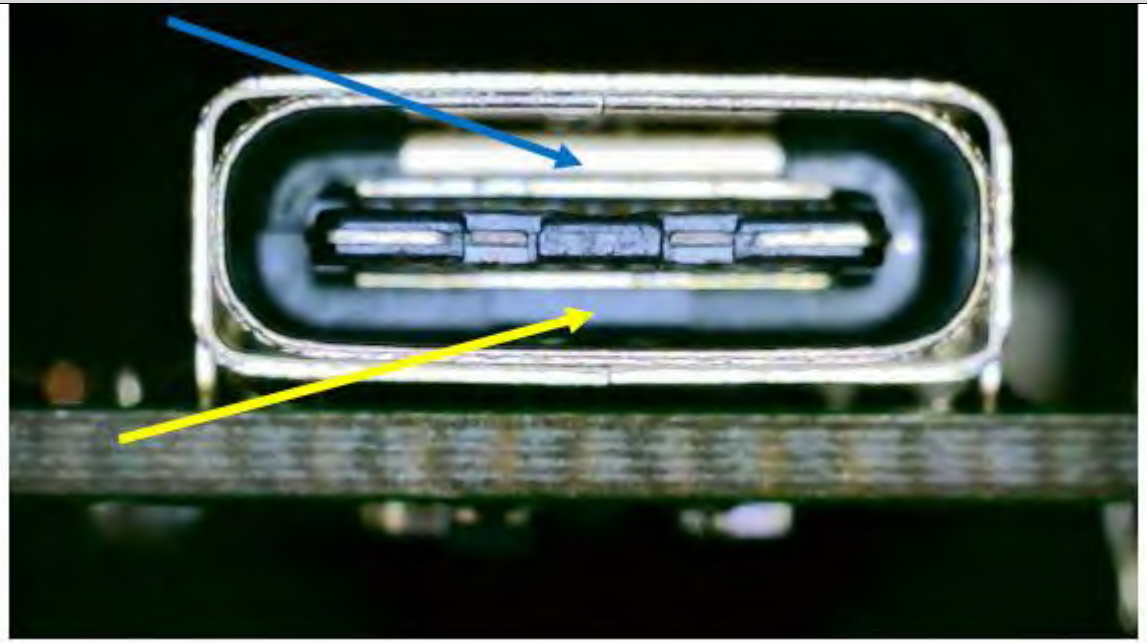
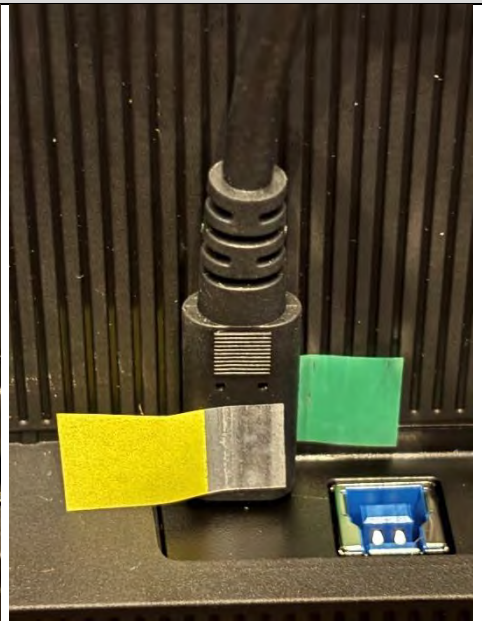
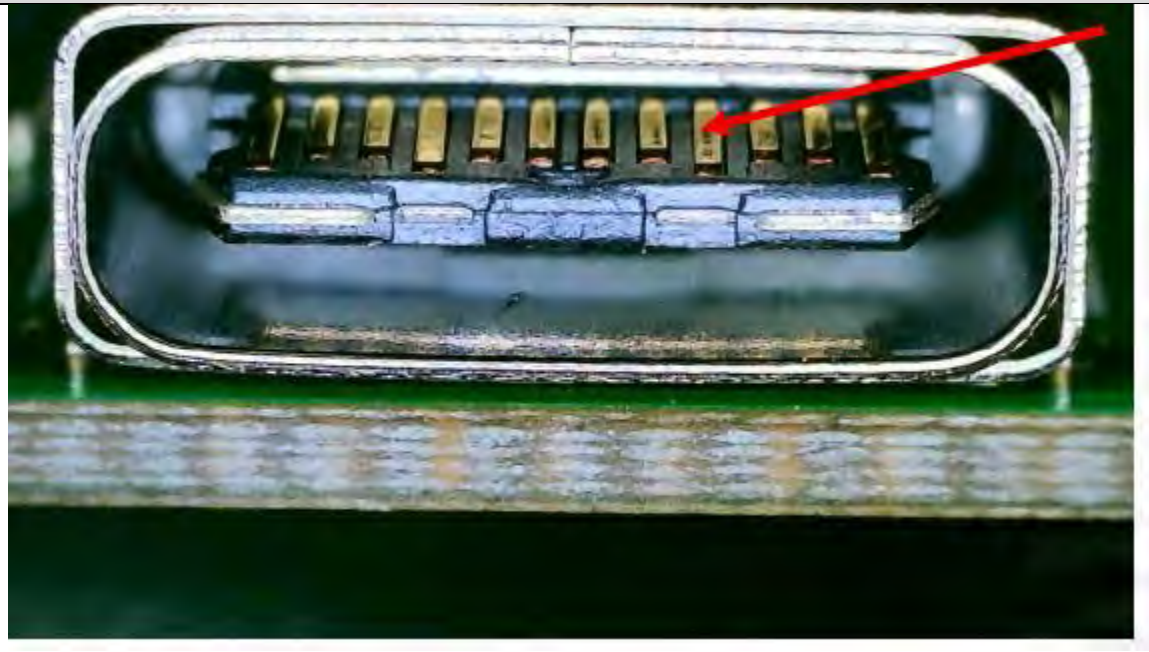
Claim 116 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug inserted and positioned in the connection slot both normally and oppositely based on an operational state when the socket structure is connected to the plug.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	  The green and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the socket structure of the Samsung ViewFinity S80UD when the side of the plug indicated with a green flag is on top (first image) and when the side of the plug indicated with the green flag is on bottom (second picture). *See also* Element [**34E**].
[**116F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is	The socket structure of the Samsung ViewFinity S80UD includes at least one row of first contacts separately arranged on the first surface of the tongue.

Samsung, EX1004, p. 1663

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
electrically connected to a respective first pin extending out of the plastic base,	

Samsung, EX1004, p. 1664

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

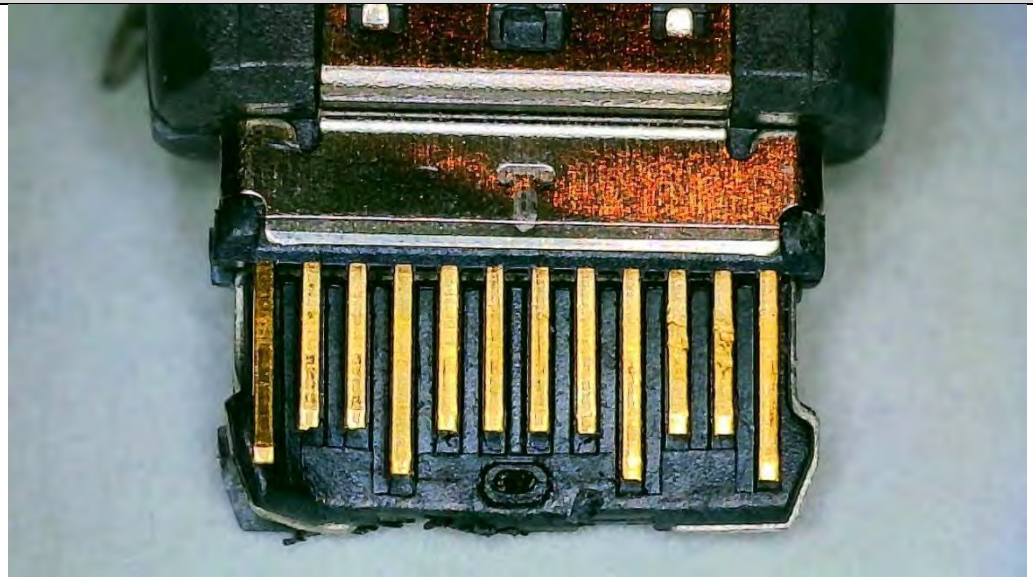
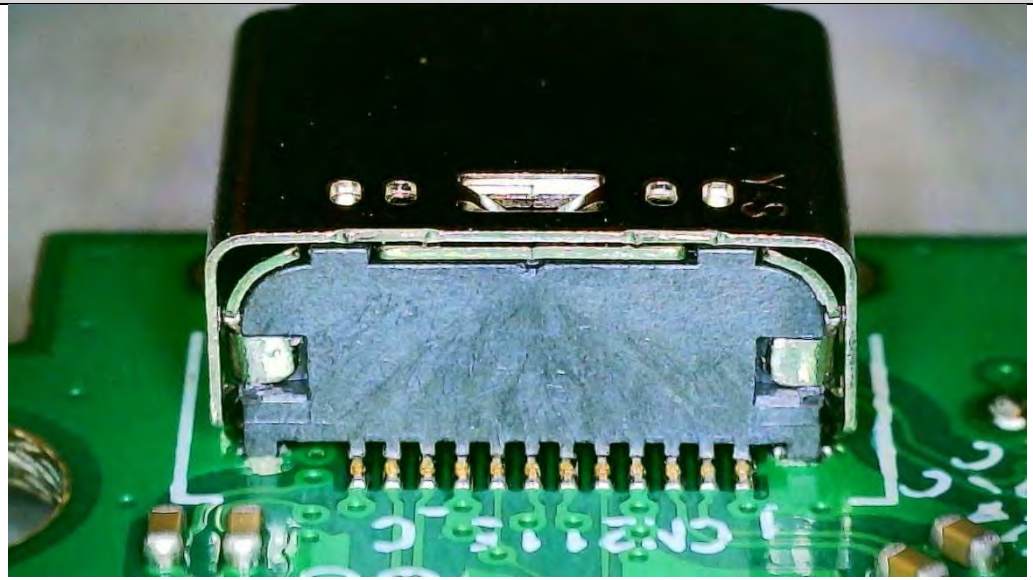
Claim 116 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve first contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of separated components of socket structure.)

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure showing pins connected to PCB.) Note that the pins extending out of the plastic base are arranged in two rows, such that the image above shows only the first pins. The second pins are located behind the first pins. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Samsung, EX1004, p. 1667

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

See also Element [**34F**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	**Evidence of Infringement**
[**116G**] wherein a first portion of each of the first contacts is proud of a top-most surface of the tongue; and	A first portion of each of the first contacts of the socket structure of the Samsung ViewFinity S80UD is proud of a top-most surface f the tongue. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 In addition, the Samsung ViewFinity S80UD includes a USB-C port and is comparable with the included USB-C cable, as further described above in connection with element [**34A**]. The USB-C standard indicates that the contacts should be proud of plastic.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

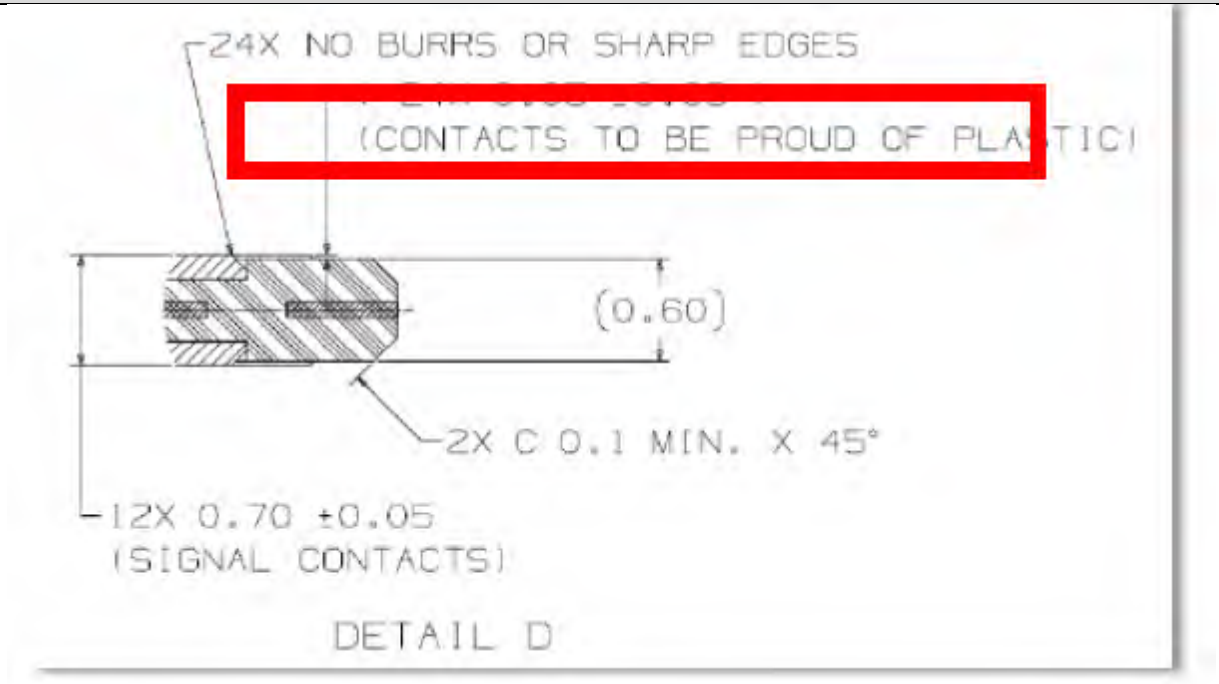
Claim 116 of the '307 Patent	Evidence of Infringement
	 Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Figure 3-1.
[**116H**] at least one row of second contacts separately arranged on the second surface of the tongue,	The socket structure of the Samsung ViewFinity S80UD includes at least one row of second contacts separately arranged on the second surface of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1672

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

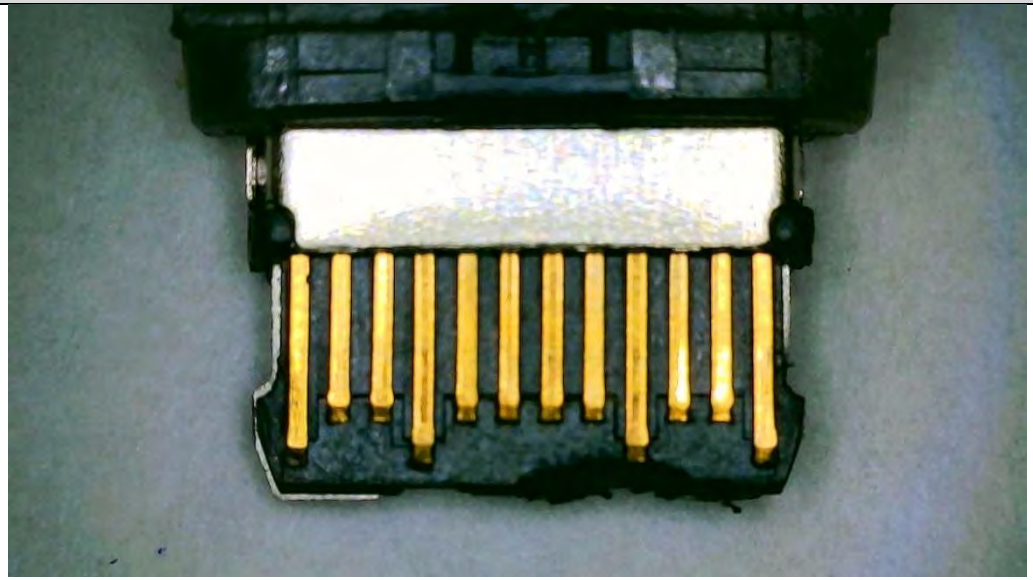
Claim 116 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung ViewFinity S80UD.) *See also* Element [**34G**].
[**116I**] wherein a second portion of each of the second contacts is proud of a bottom-most surface of the tongue, and	A second portion of each of the second contacts is proud of a bottom-most surface of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* element [**116G**].
[**116J**] the socket structure is operative to simultaneously electrically connect on both sides of the tongue via the first and second contacts, wherein:	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

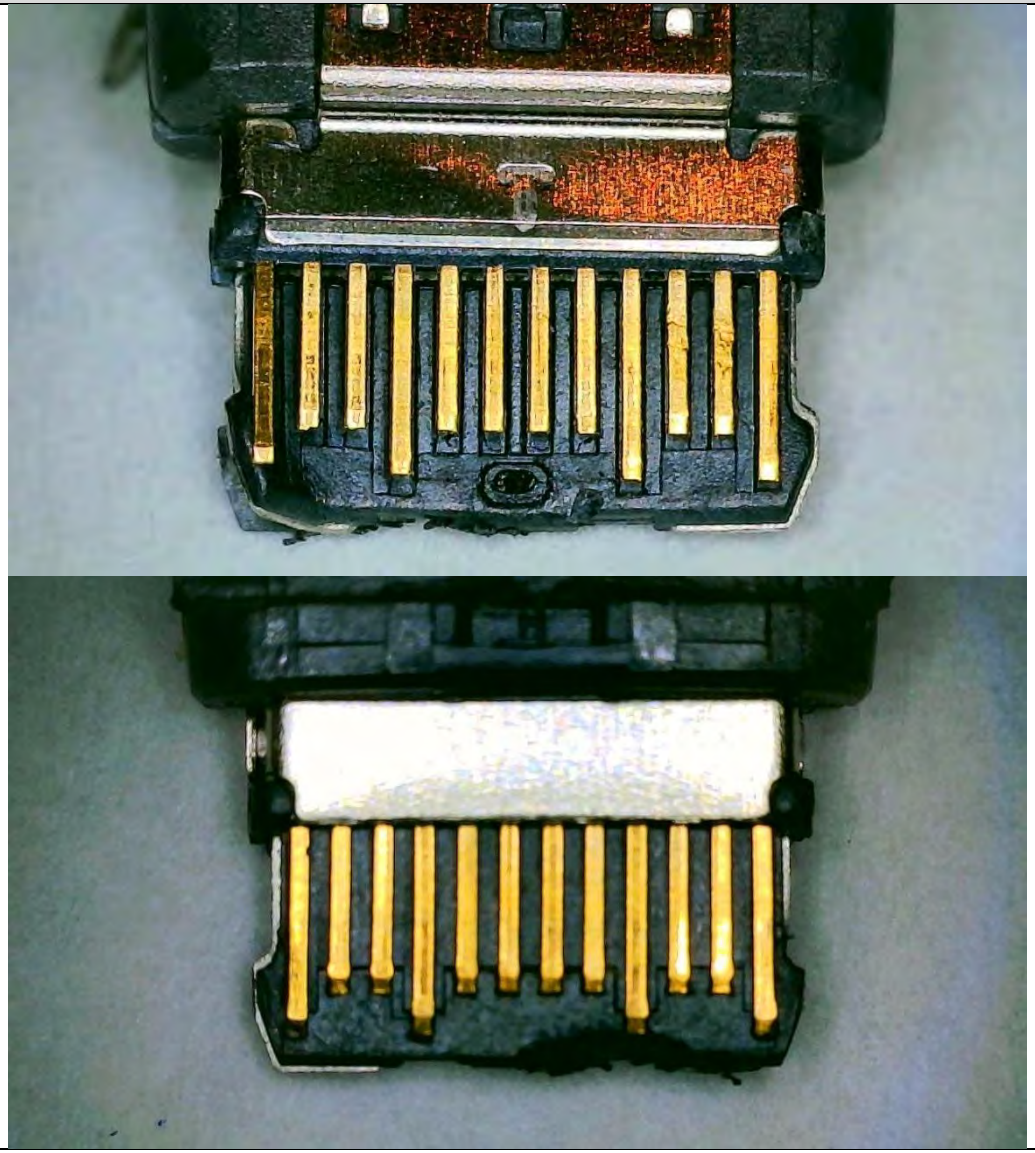
Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

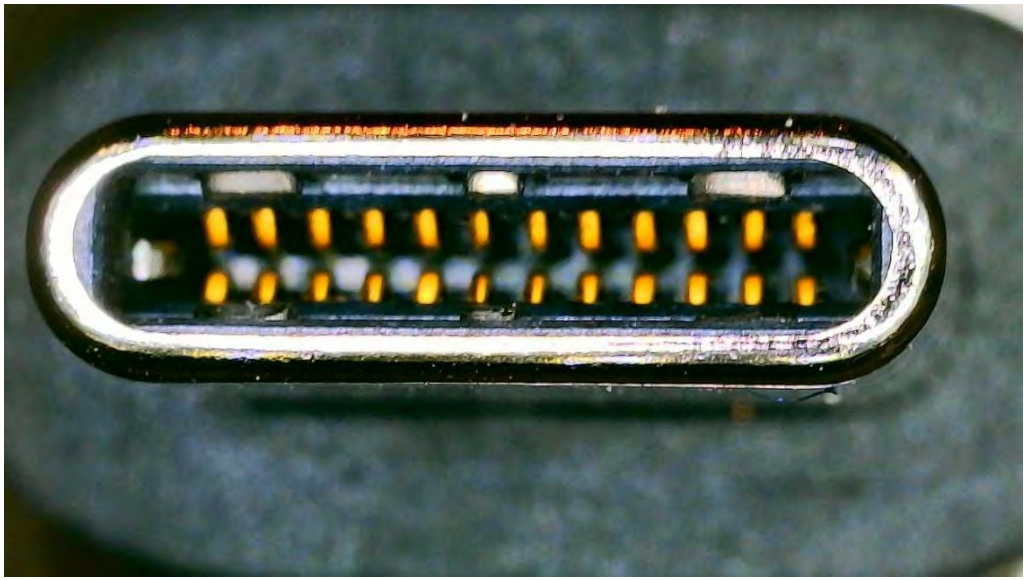
Claim 116 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
	See also Element [**34I**].
[**116K**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base; and	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve second contacts correspond to the twelve pins extending from the plastic base.  This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base.

See also element [**34H**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

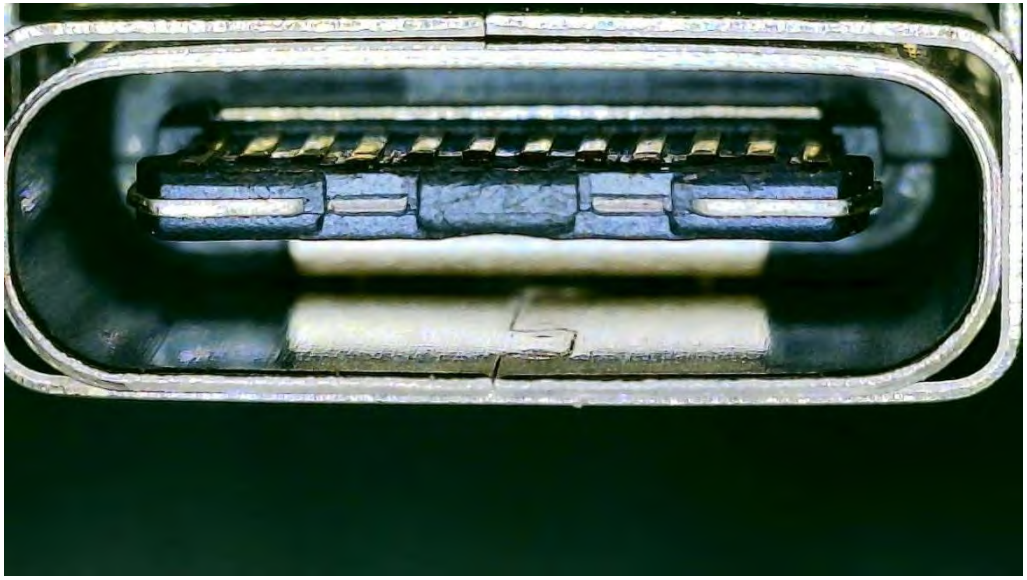
Claim 116 of the '307 Patent	**Evidence of Infringement**
[**116L**] the socket structure is thereby configured for two separate operational states:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image). 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

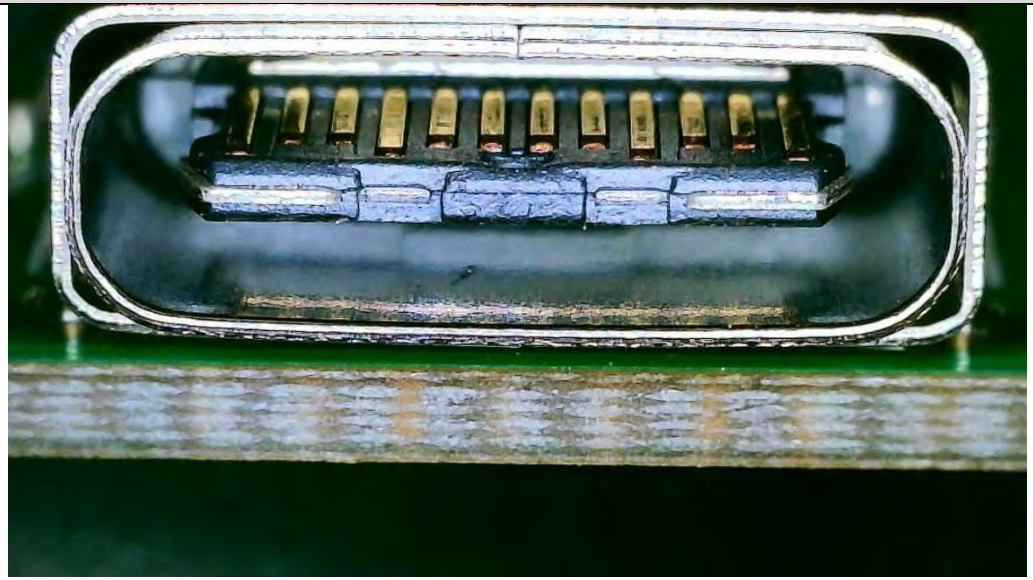
Claim 116 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung ViewFinity S80UD has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**116M**] through [**116P**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	**Evidence of Infringement**
[**116M**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed at a middle within the connection slot,	The Samsung ViewFinity S80UD is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the green flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as green arrows in the image below. In the normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

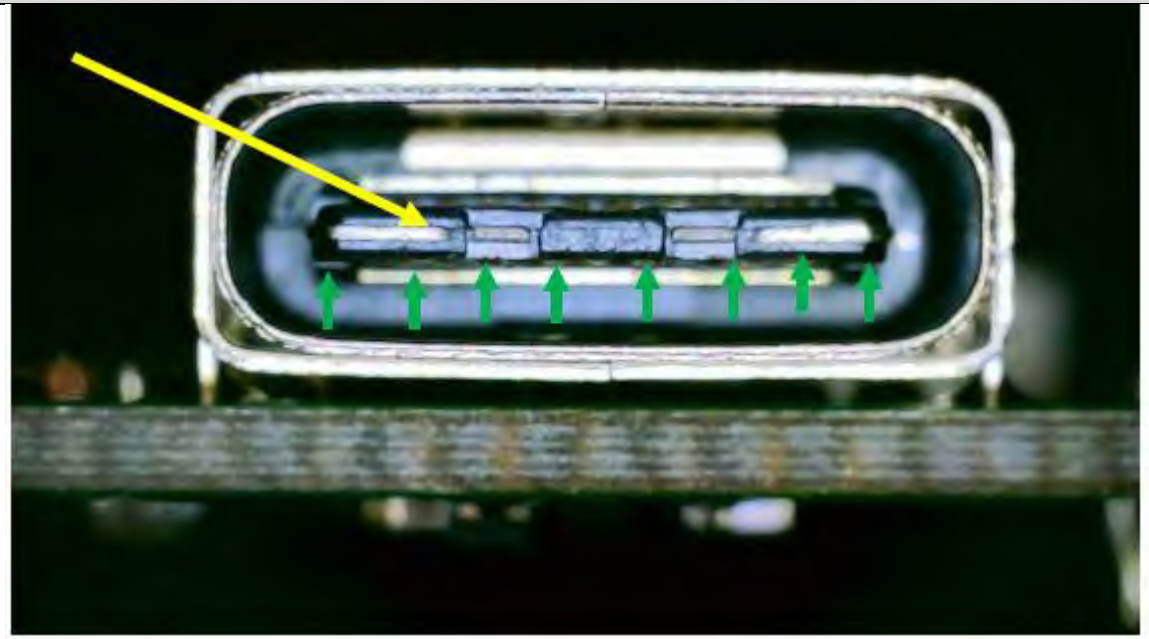
Claim 116 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

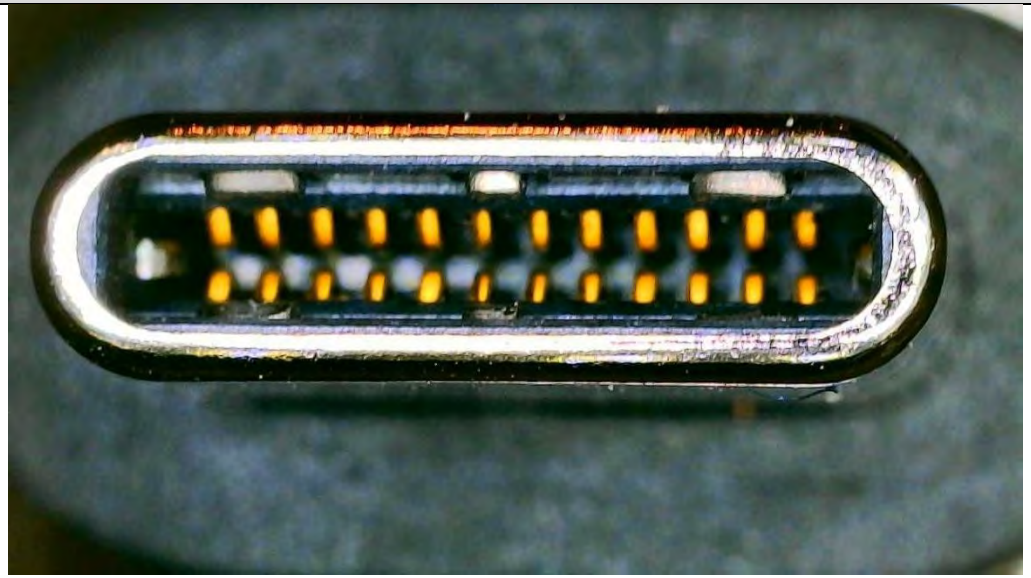
Claim 116 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) The tongue is disposed at a middle within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

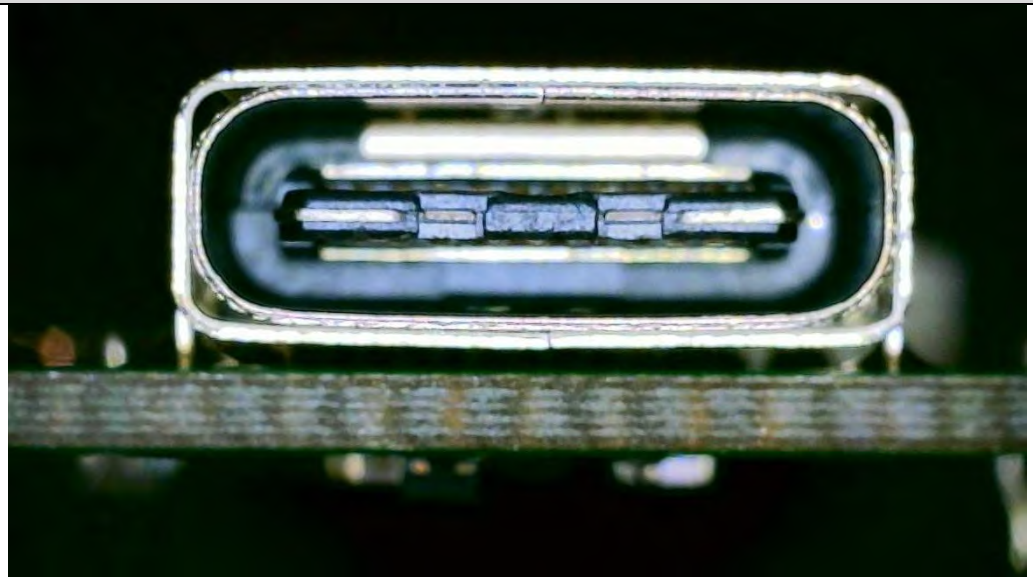
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34K**].
[**116N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The socket structure of the Samsung ViewFinity S80UD is configured for a first operational state as described above in connection with element [**116M**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

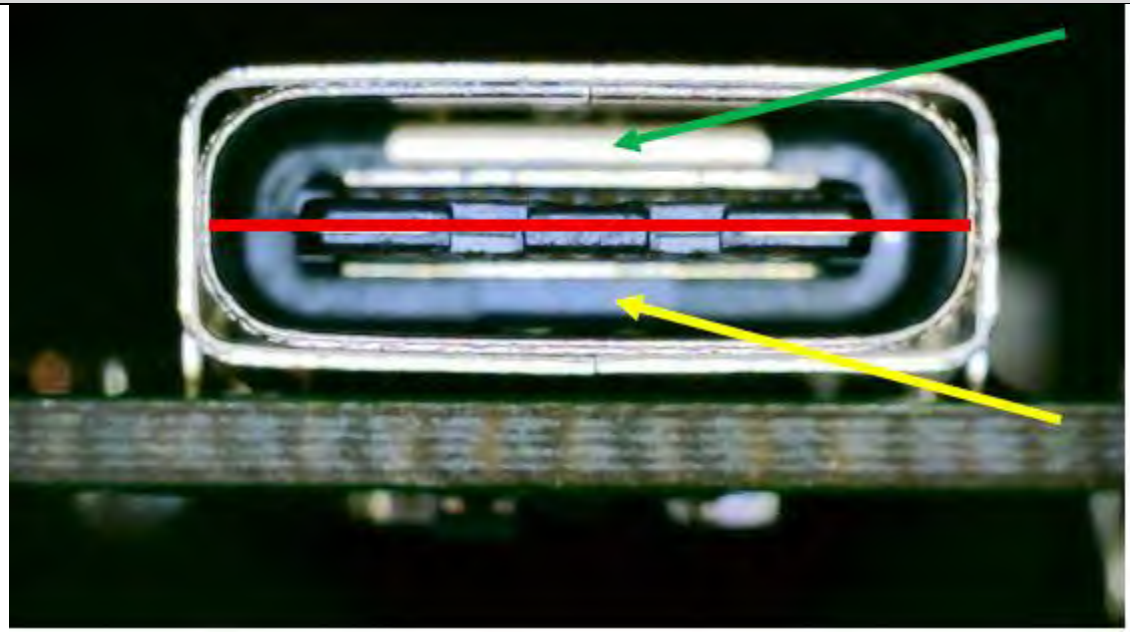
Claim 116 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows, respectively, in the image below.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

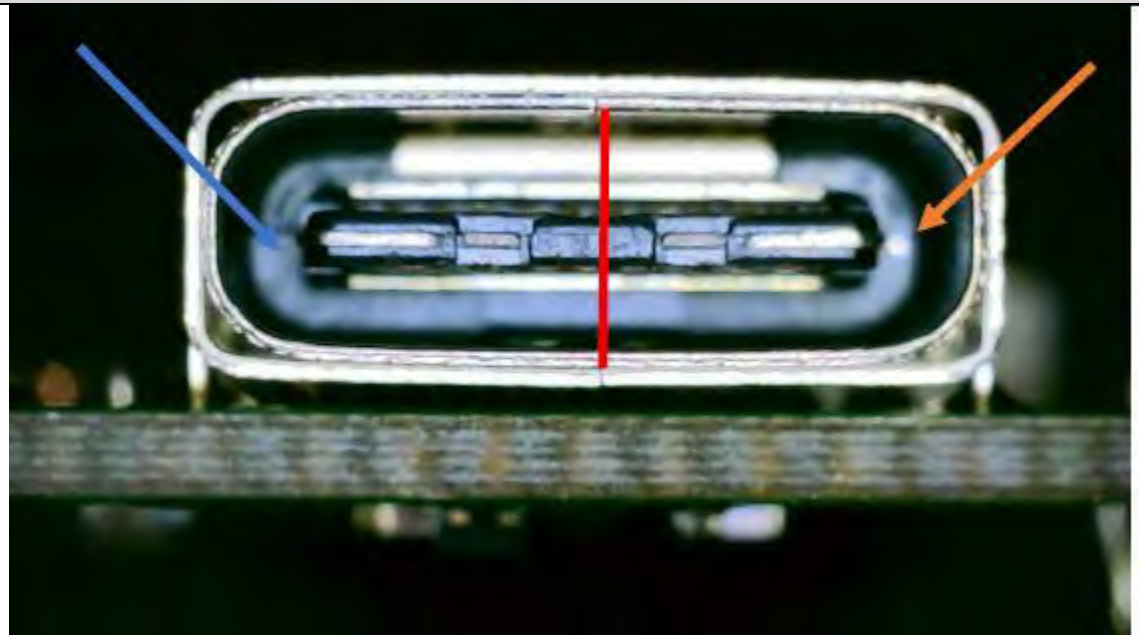
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**].
[**116O**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of	The socket structure of the Samsung ViewFinity S80UD is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 116 of the '307 Patent	Evidence of Infringement
the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed at within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the green flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as green arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

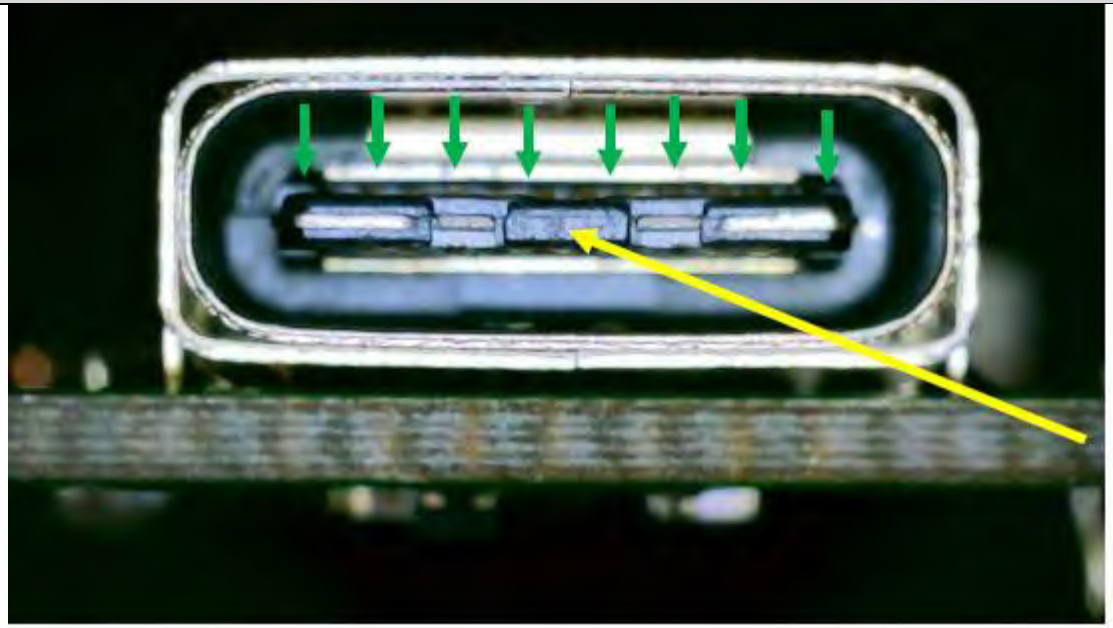
Claim 116 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].
[**116P**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**116N**]. *See also* Element [**34N**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

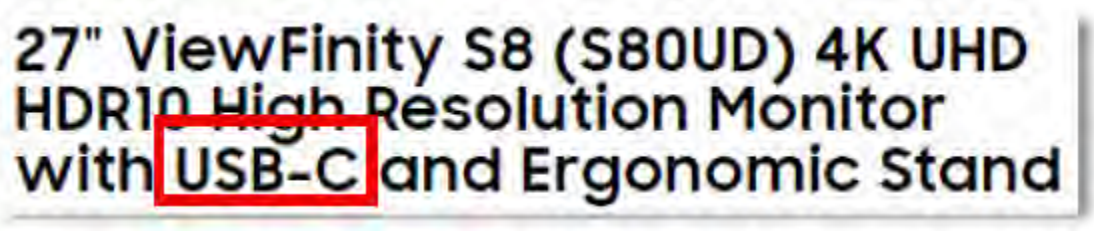
Claim 130 of the '307 Patent	**Evidence of Infringement**
[**130A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung ViewFinity S80UD is a monitor that includes a socket structure with duplex electrical connection. In particular, the Samsung ViewFinity S80UD provides duplex electrical connection via a USB-C port.  *See* https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025).  *Id.* • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops. *Id.*

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

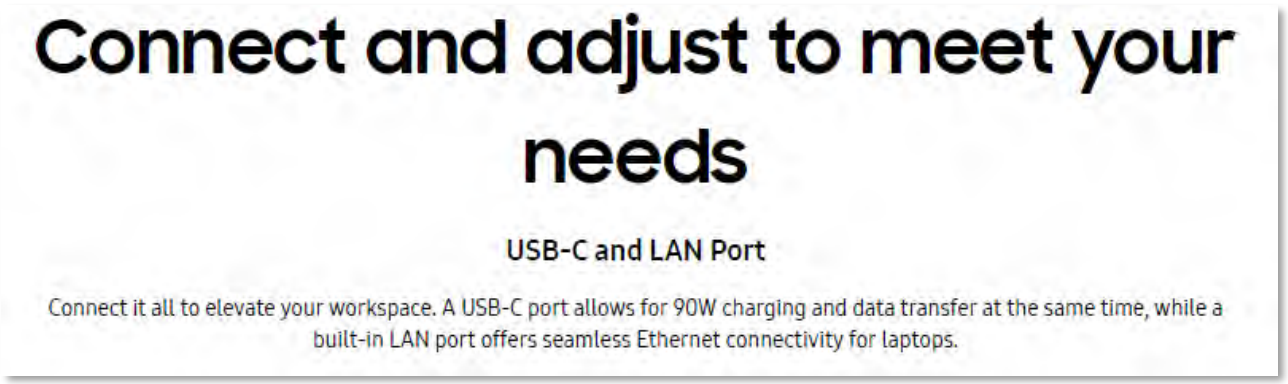
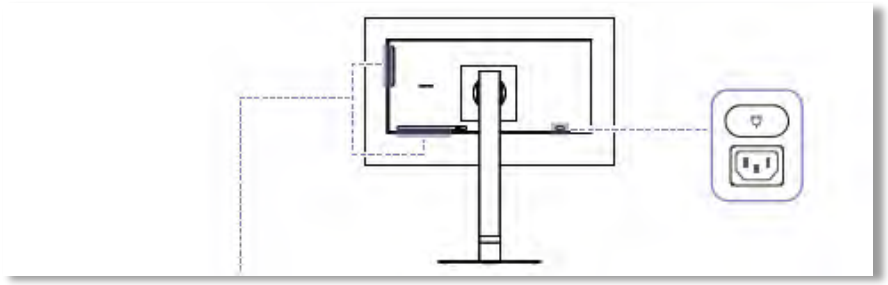
Claim 130 of the '307 Patent	Evidence of Infringement
	 *Id.*  

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

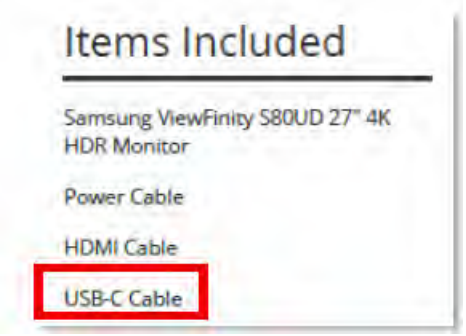
Claim 130 of the '307 Patent	Evidence of Infringement
	User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). In addition, the Samsung ViewFinity S80UD is packaged and compatible with a USB-C cable.  (Image of cable included in packaging) 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	**Evidence of Infringement**
	See https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**130B**] through [**130N**].
[**130B**] a plastic base;	The socket structure of the Samsung ViewFinity S80UD includes a plastic base. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

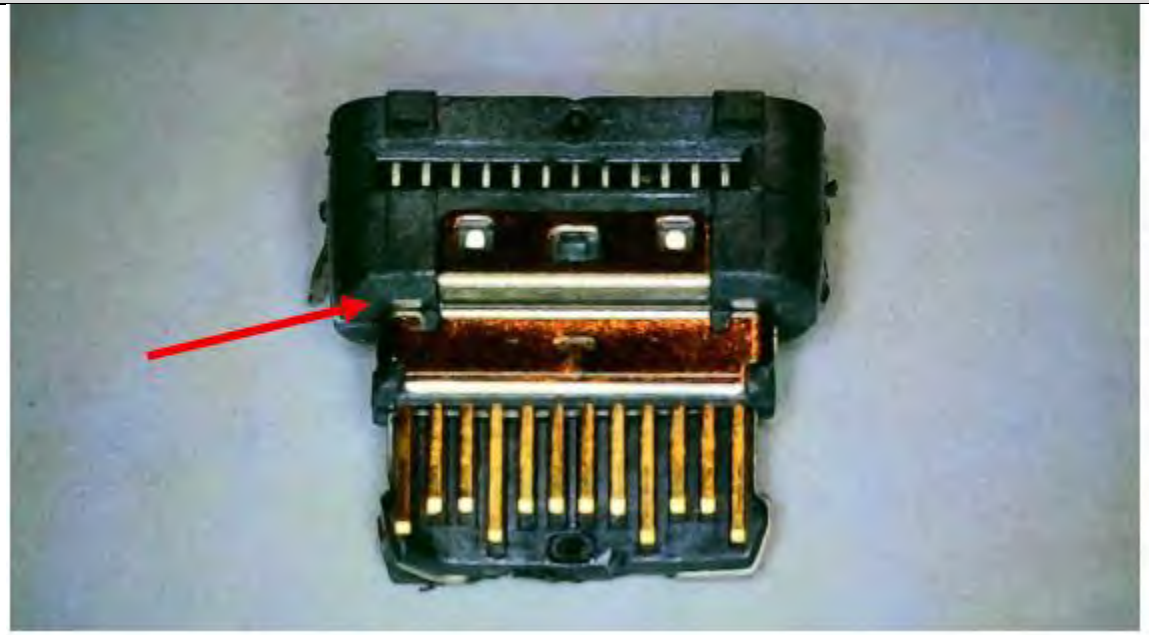
Claim 130 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of ViewFinity S80UD.) *See also* Element [**34B**].
[**130C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung ViewFinity S80UD includes a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

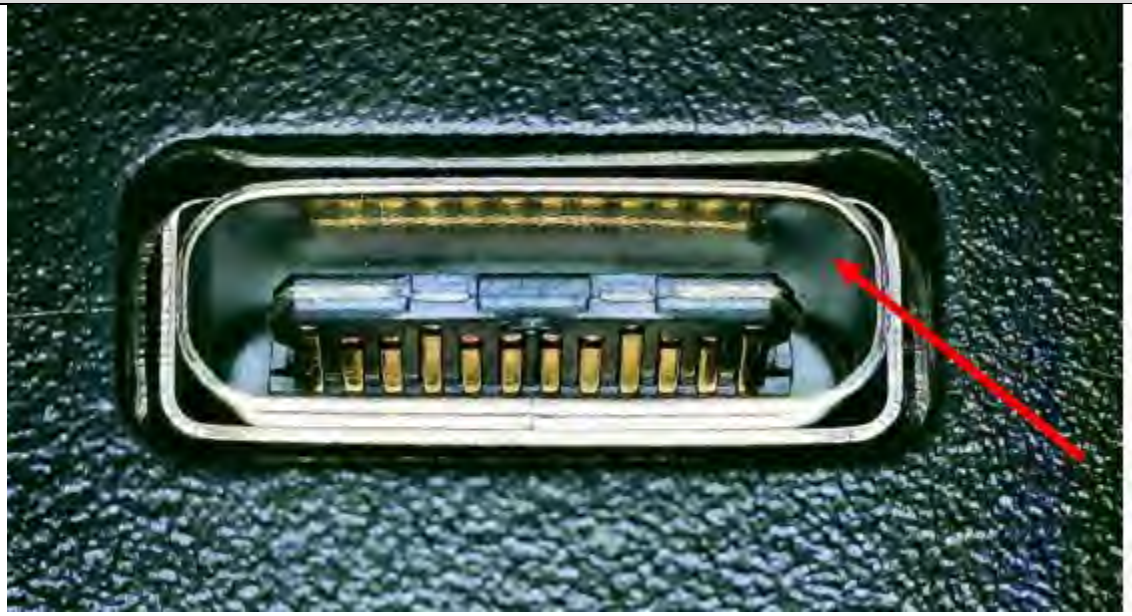
Claim 130 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is generally indicated by the yellow arrow.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

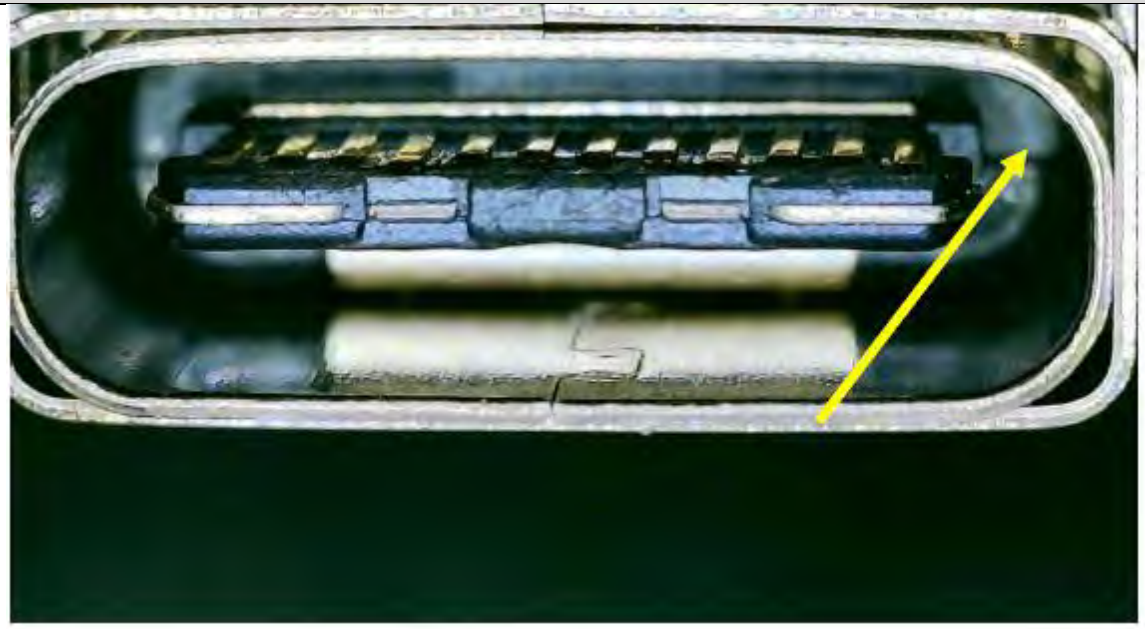
Claim 130 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung ViewFinity S80UD, as described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

Samsung, EX1004, p. 1698

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

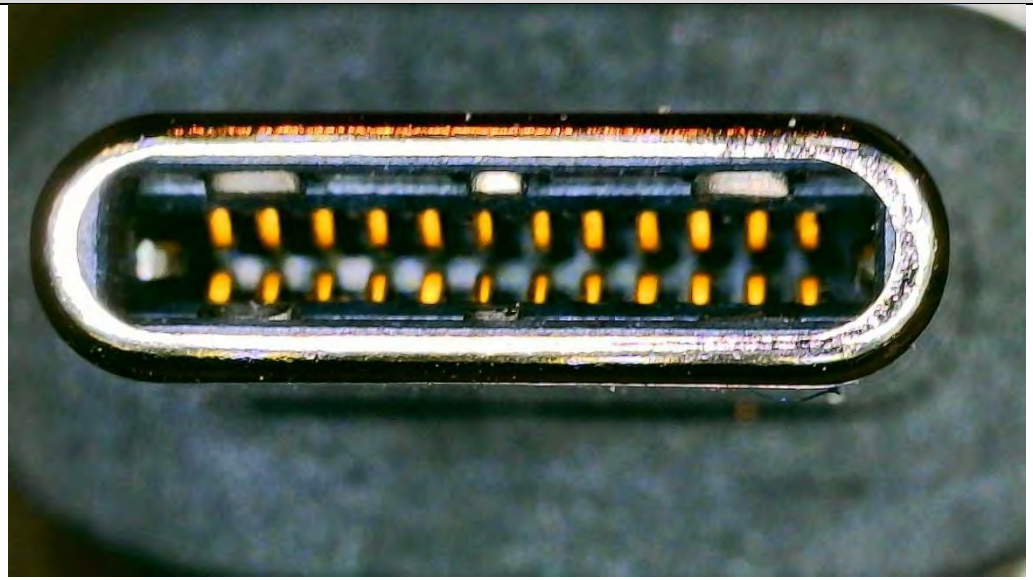
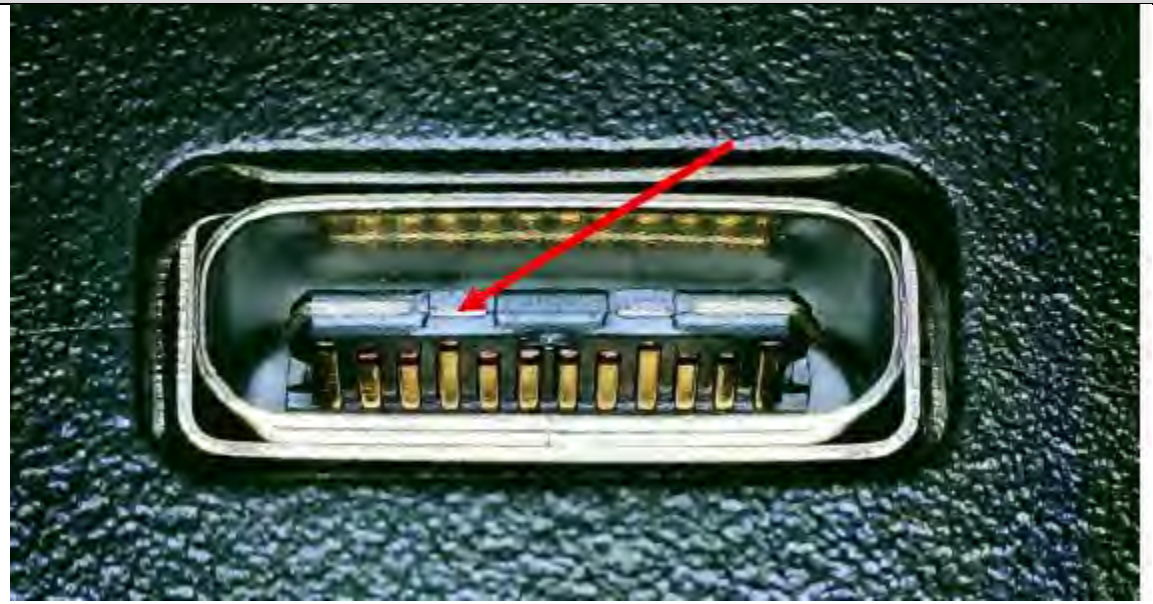
Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**130D**] a tongue, which has a first surface with recesses, and a second surface with recesses, the second surface disposed opposite the first surface,	The socket structure of the Samsung ViewFinity S80UD includes a tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

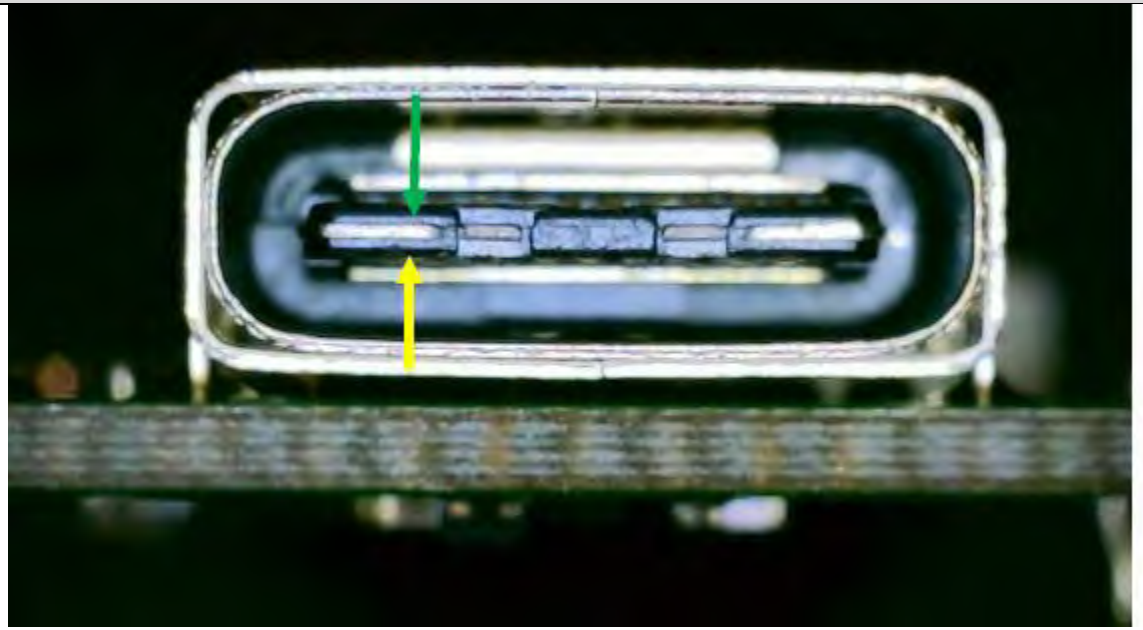
Claim 130 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1700

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

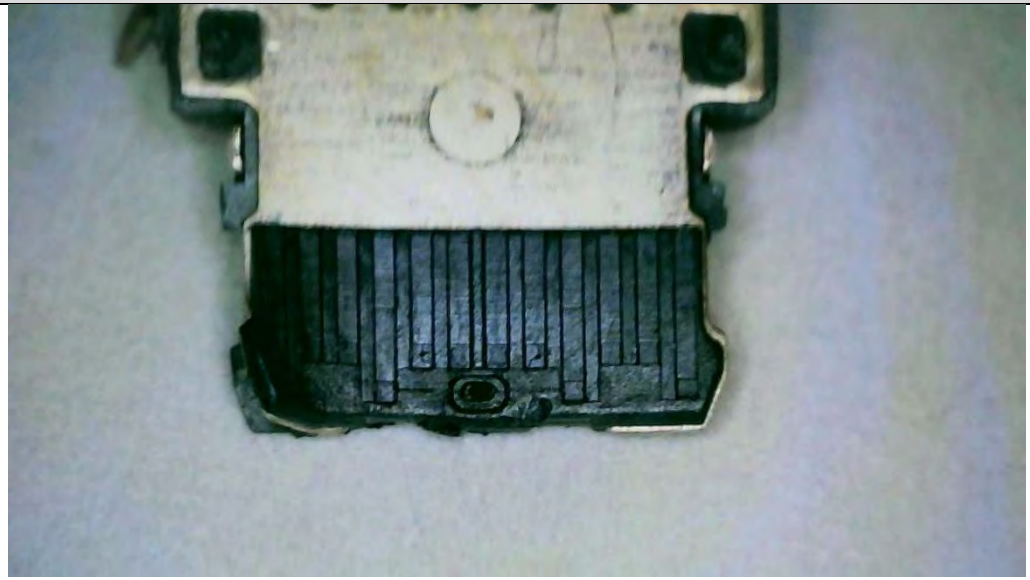
Claim 130 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has recesses.

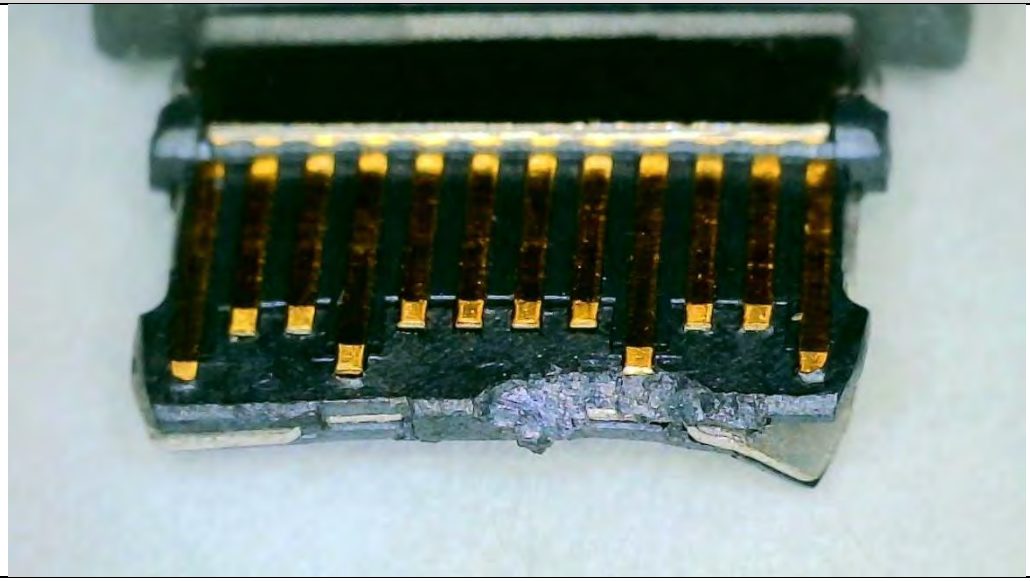
Samsung, EX1004, p. 1702

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1703

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	
[**130E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	The tongue of the socket structure of the ViewFinity S80UD (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

Samsung, EX1004, p. 1704

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

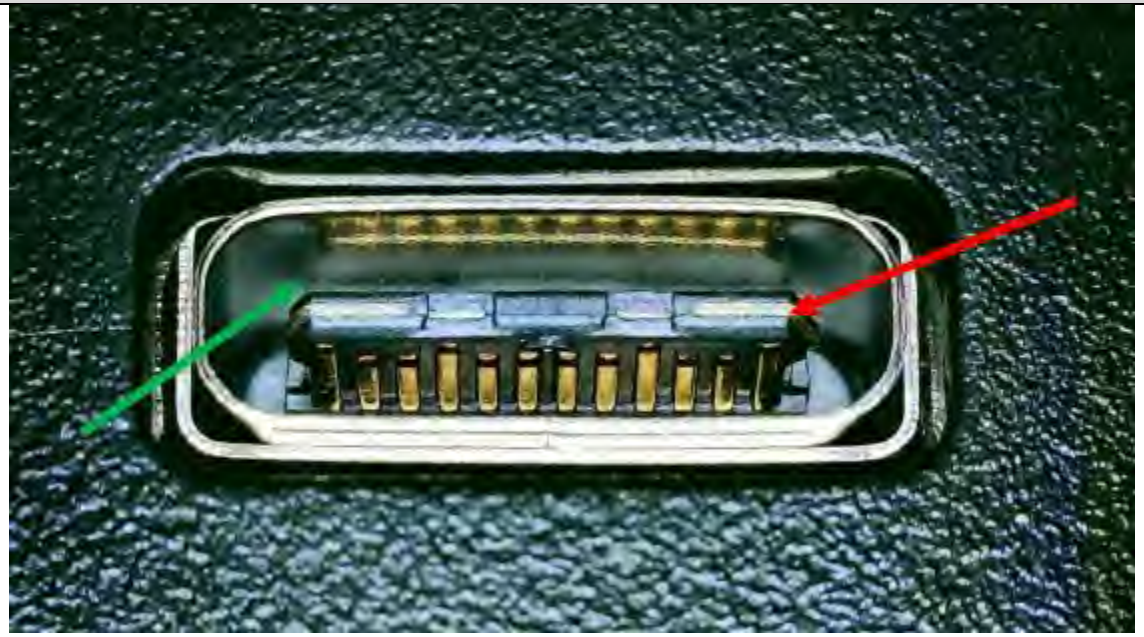
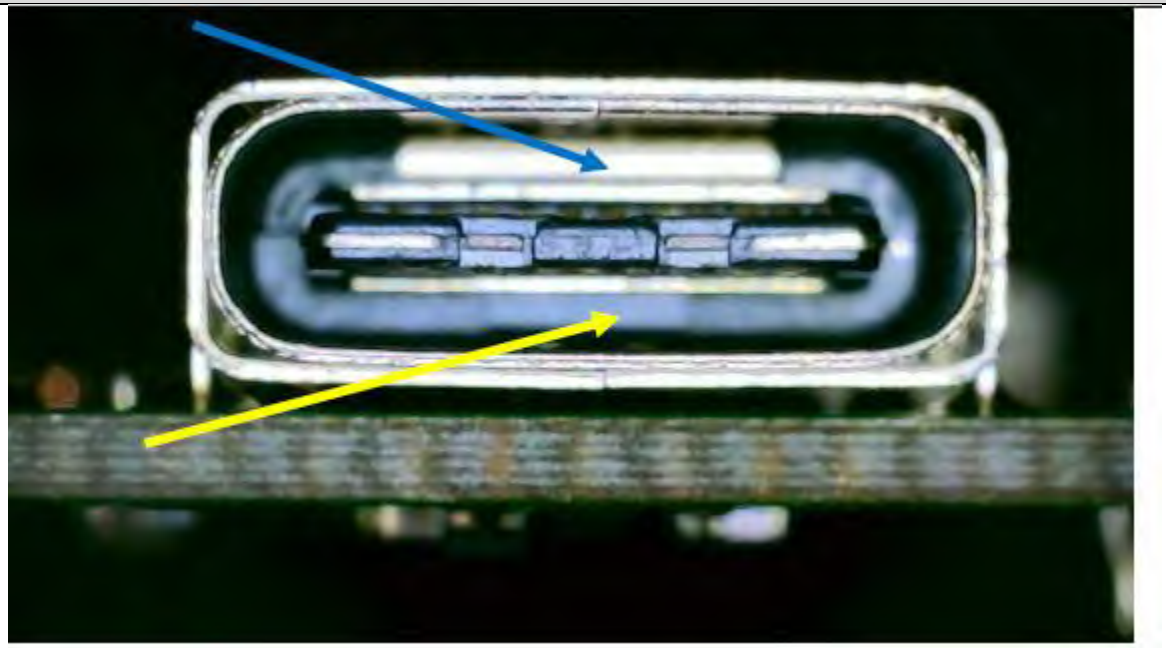
Claim 130 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug inserted and positioned in the connection slot both normally and oppositely.

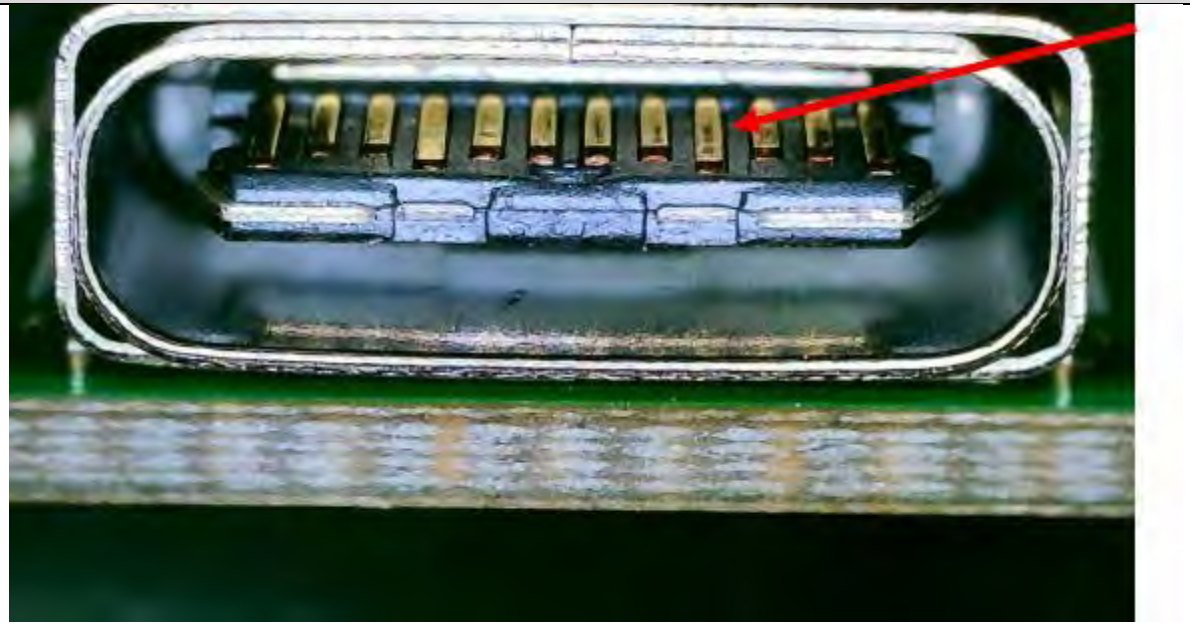
Samsung, EX1004, p. 1706

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	  The green and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the socket structure of the Samsung ViewFinity S80UD when the side of the plug indicated with a green flag is on top (first image) and when the side of the plug indicated with the green flag is on bottom (second picture). *See also* Element [**34E**].
[**130F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to	The socket structure of the Samsung ViewFinity S80UD includes at least one row of first contacts separately arranged on the first surface of the tongue.

Samsung, EX1004, p. 1707

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
a respective first pin extending out of the plastic base; and	

Samsung, EX1004, p. 1708

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

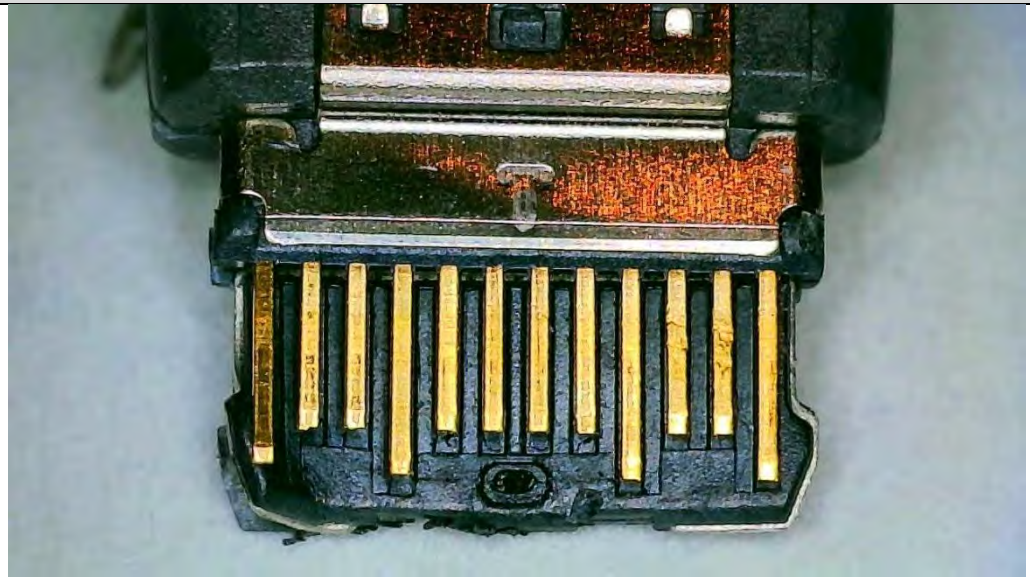
Claim 130 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve first contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image of separated components of socket structure.)

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure showing pins connected to PCB.) Note that the pins extending out of the plastic base are arranged in two rows, such that the image above shows only the first pins. The second pins are located behind the first pins. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

See also Element [**34F**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

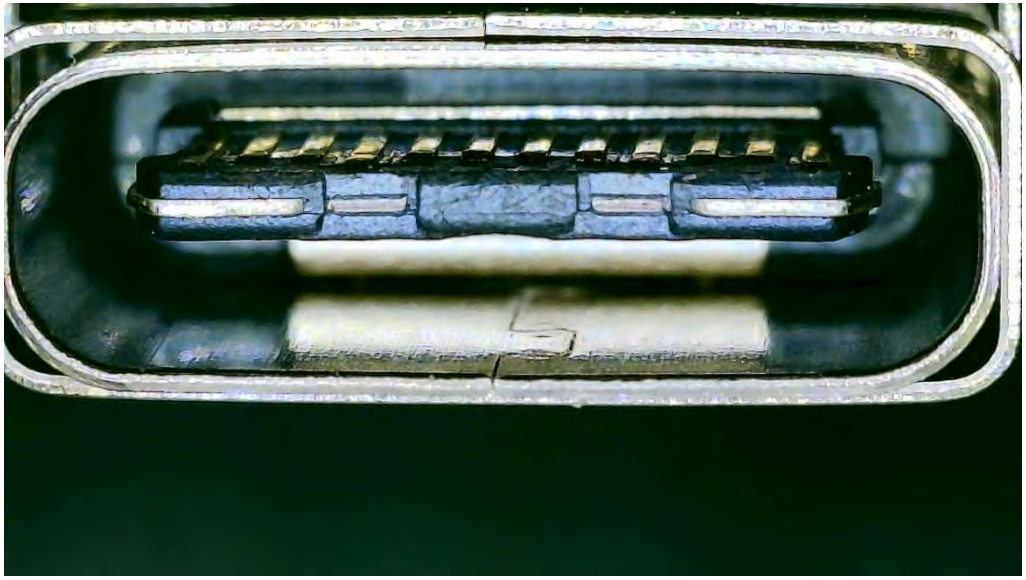
Claim 130 of the '307 Patent	**Evidence of Infringement**
[**130G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung ViewFinity S80UD includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

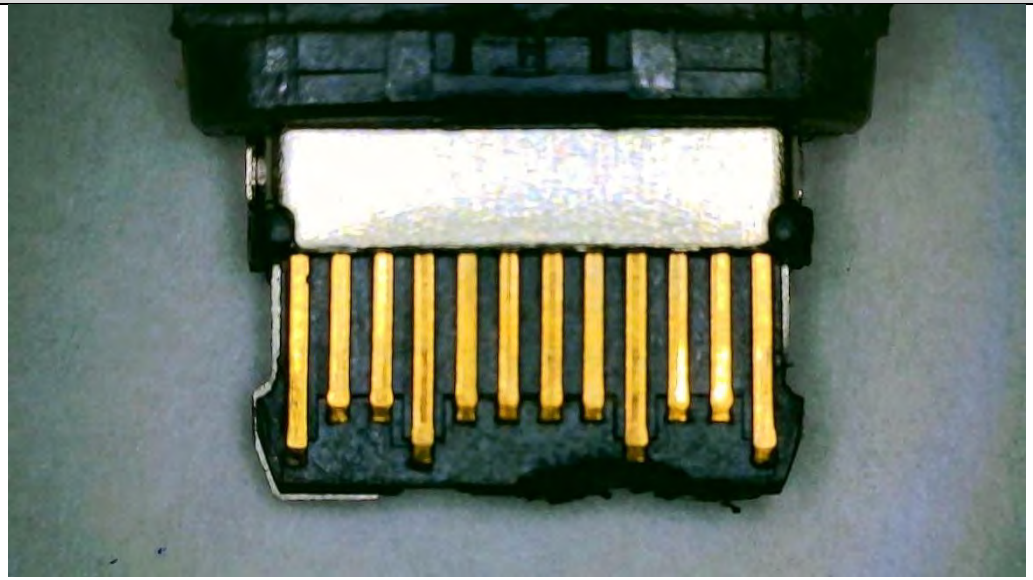
Claim 130 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung ViewFinity S80UD.) *See also* Element [**34G**].
[**130H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve second contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base.

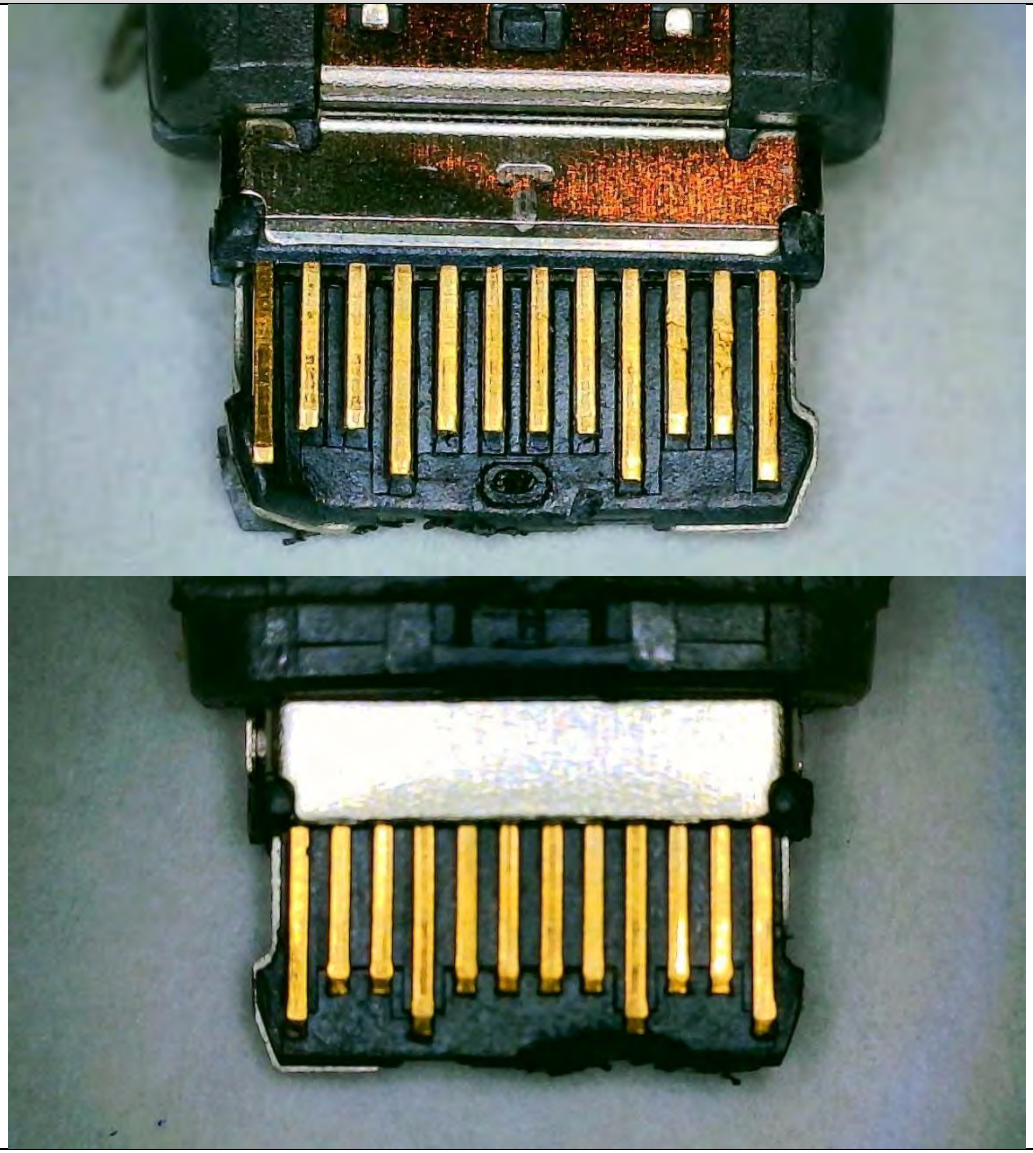
See also element [**34H**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	**Evidence of Infringement**
[**130I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

Samsung, EX1004, p. 1717

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1718

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

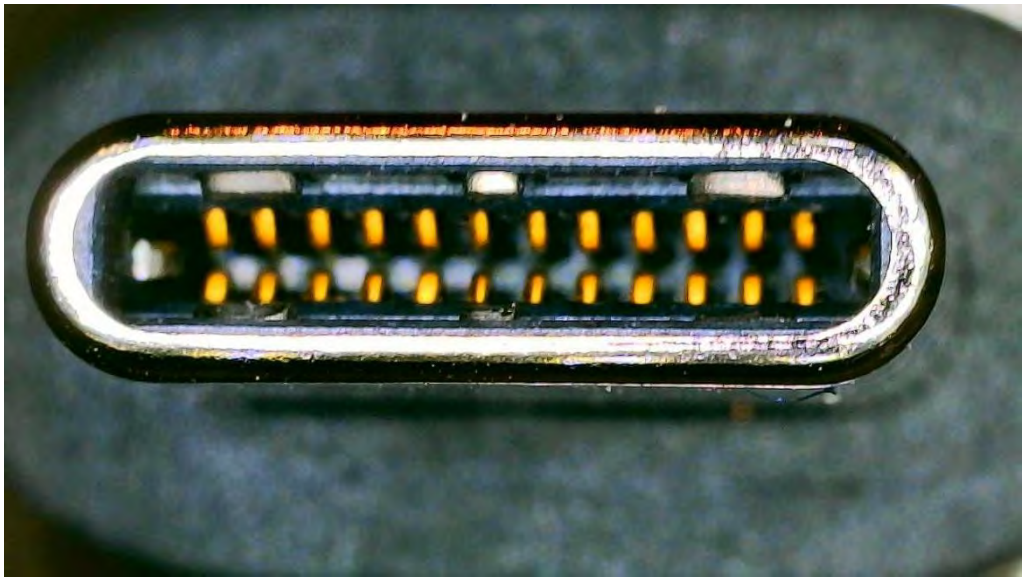
Claim 130 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

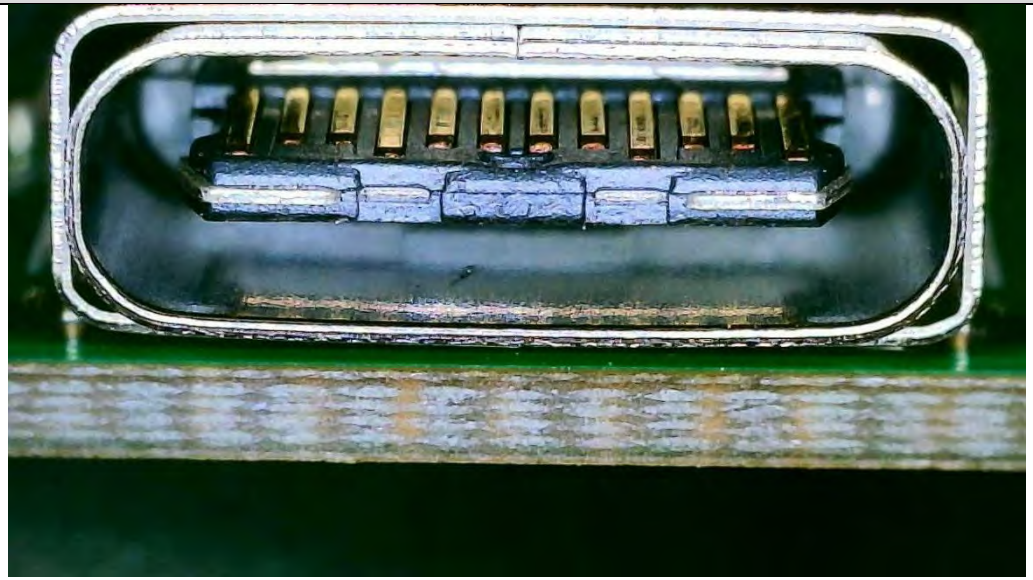
EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	**Evidence of Infringement**
	%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**130J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for two separate operational states:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image). 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung ViewFinity S80UD has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Claim 130 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**130K**] through [**130N**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
[**130K**] a first operational states when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed within the connection slot,	The Samsung ViewFinity S80UD is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the green flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as green arrows in the image below. In the normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

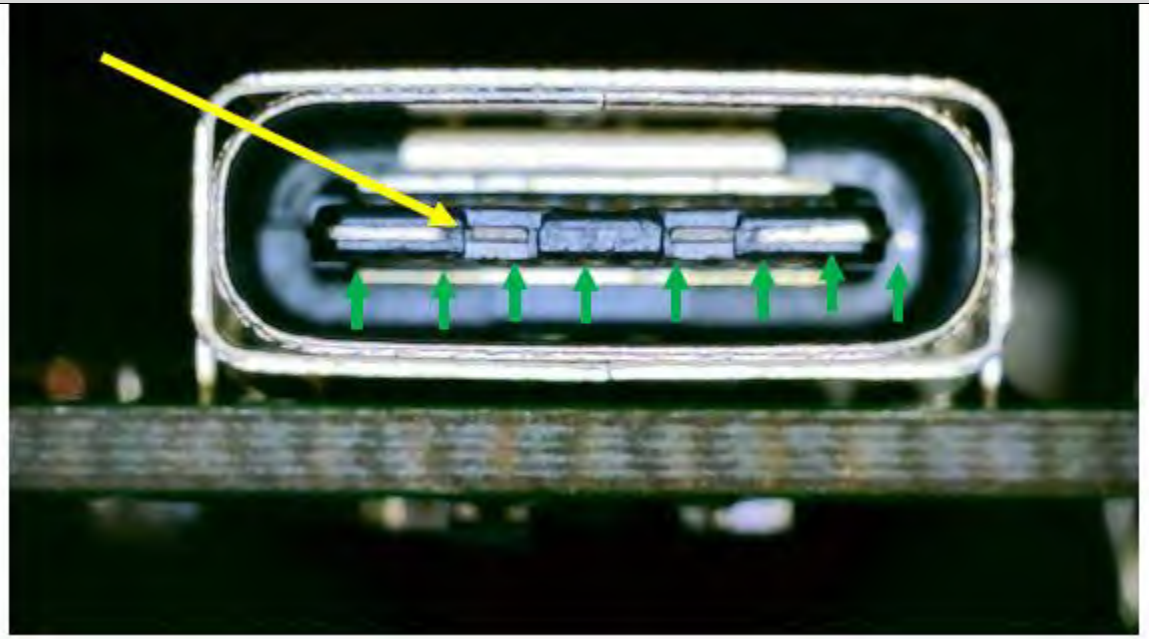
Claim 130 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

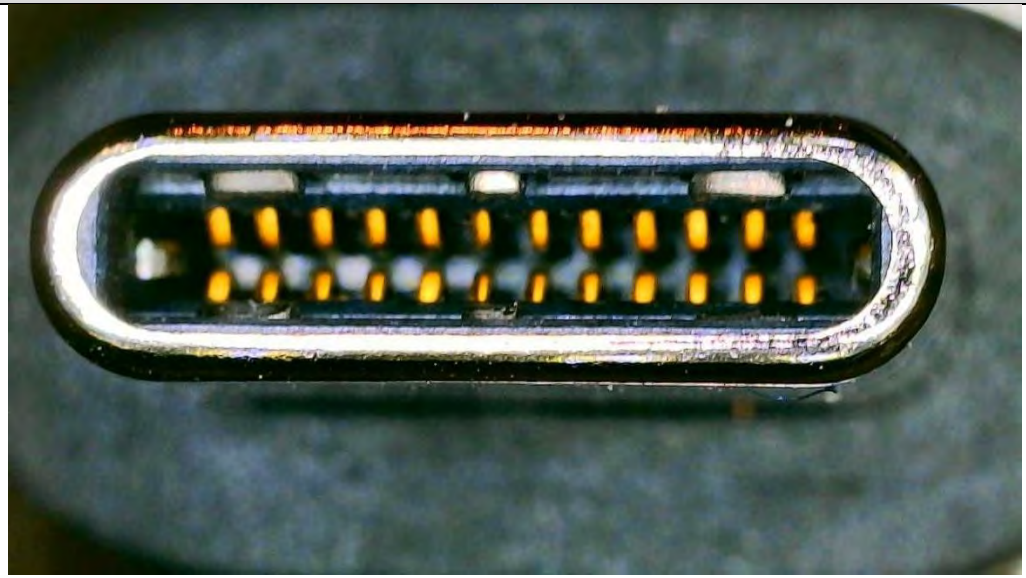
Claim 130 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**130L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The socket structure of the Samsung ViewFinity S80UD is configured for a first operational state as described above in connection with element [**130K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

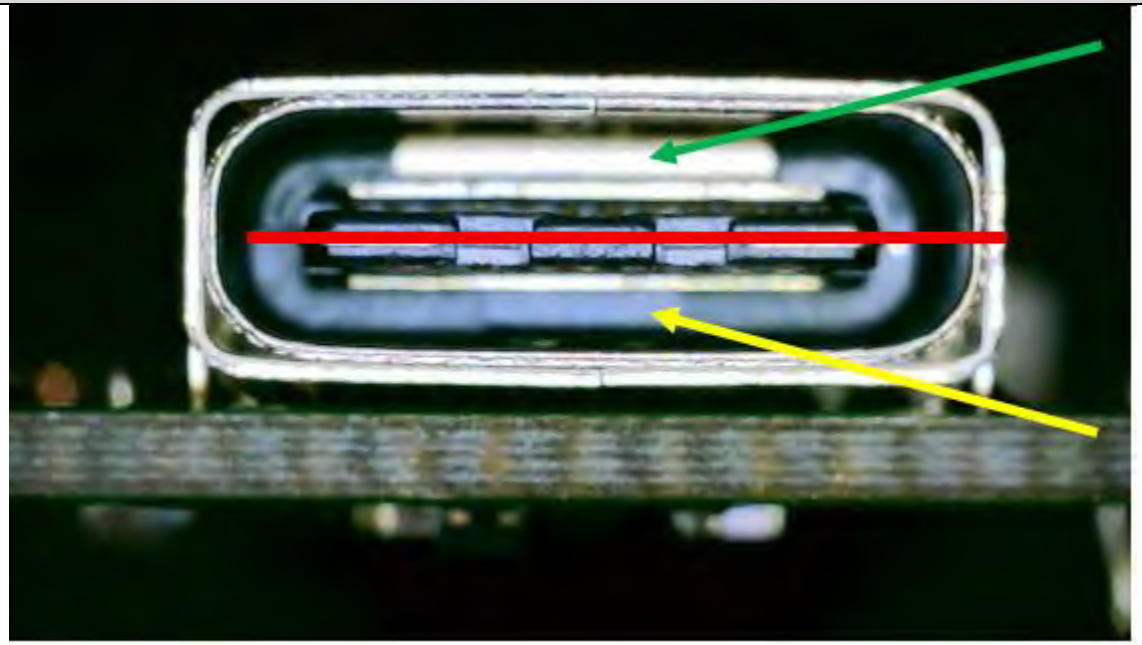
Claim 130 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows, respectively, in the image below.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

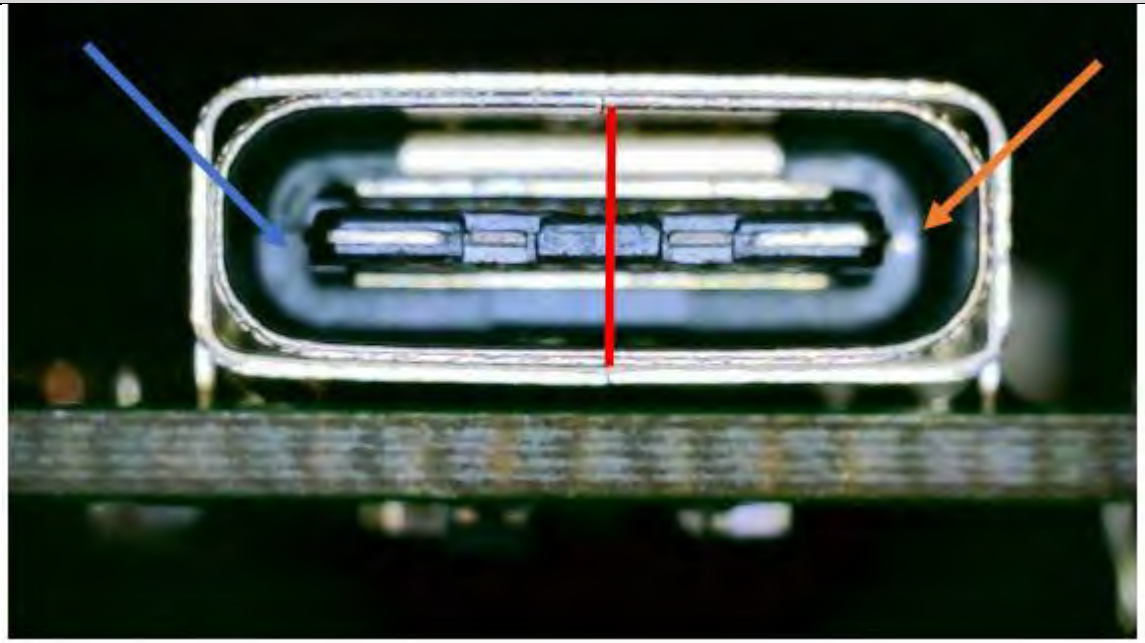
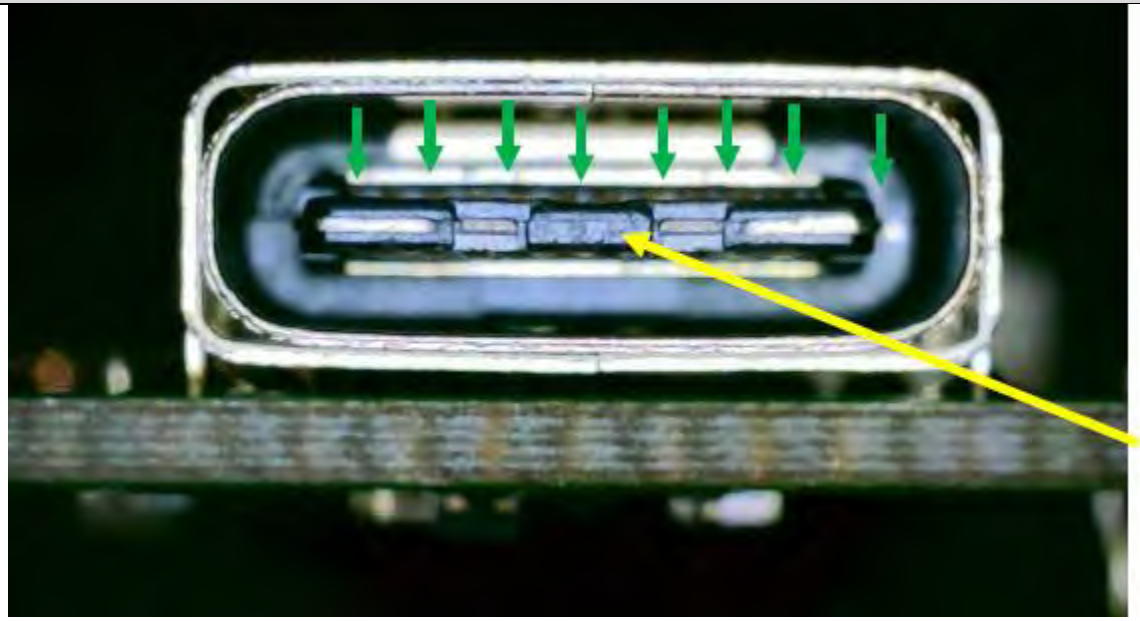
Claim 130 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34L**].
[**130M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the	The socket structure of the Samsung ViewFinity S80UD is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	Evidence of Infringement
at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the green flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as green arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 130 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34M**].
[**130N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**130L**]. *See also* Element [**34N**].

Samsung, EX1004, p. 1730

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	**Evidence of Infringement**
[**131A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung ViewFinity S80UD is a monitor that includes a socket structure with duplex electrical connection. In particular, the Samsung ViewFinity S80UD provides duplex electrical connection via a USB-C port.  *See* https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025).  *Id.* • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops. *Id.*

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

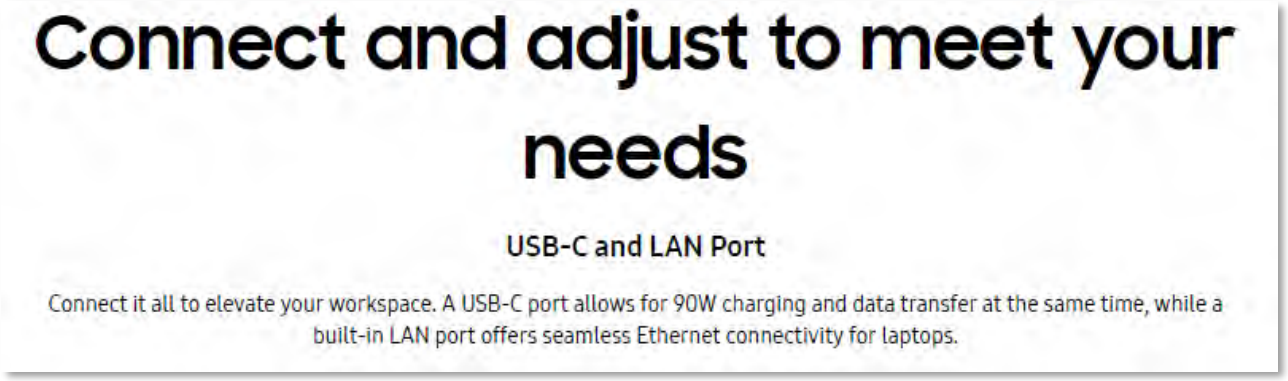
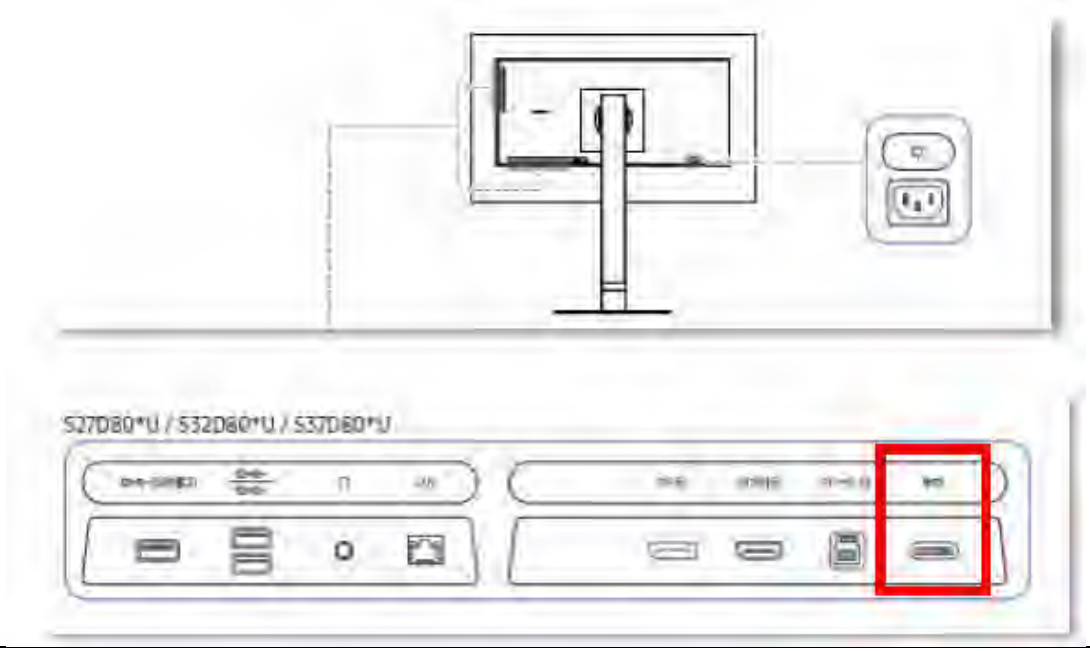
Claim 131 of the '307 Patent	Evidence of Infringement
	 *Id.* 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

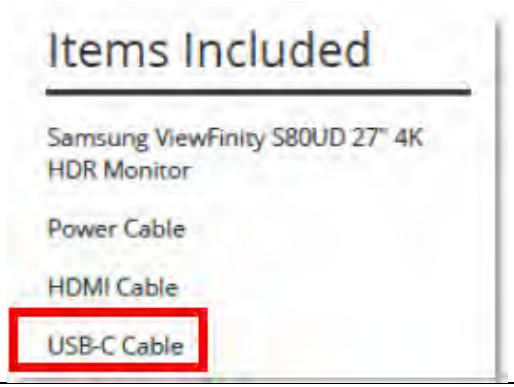
Claim 131 of the '307 Patent	Evidence of Infringement
	User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). In addition, the Samsung ViewFinity S80UD is packaged and compatible with a USB-C cable.  (Image of cable included in packaging) 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

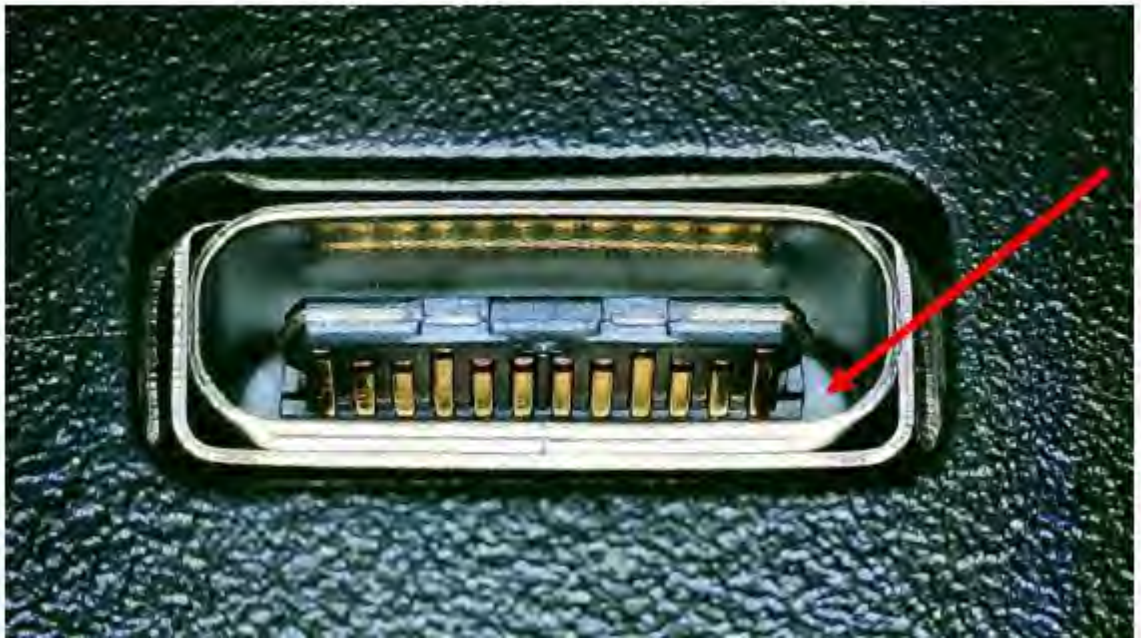
Claim 131 of the '307 Patent	**Evidence of Infringement**
	See https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**131B**] through [**131L**].
[**131B**] a plastic base;	The socket structure of the Samsung ViewFinity S80UD includes a plastic base. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of ViewFinity S80UD.) *See also* Element [**34B**].
[**131C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung ViewFinity S80UD includes a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

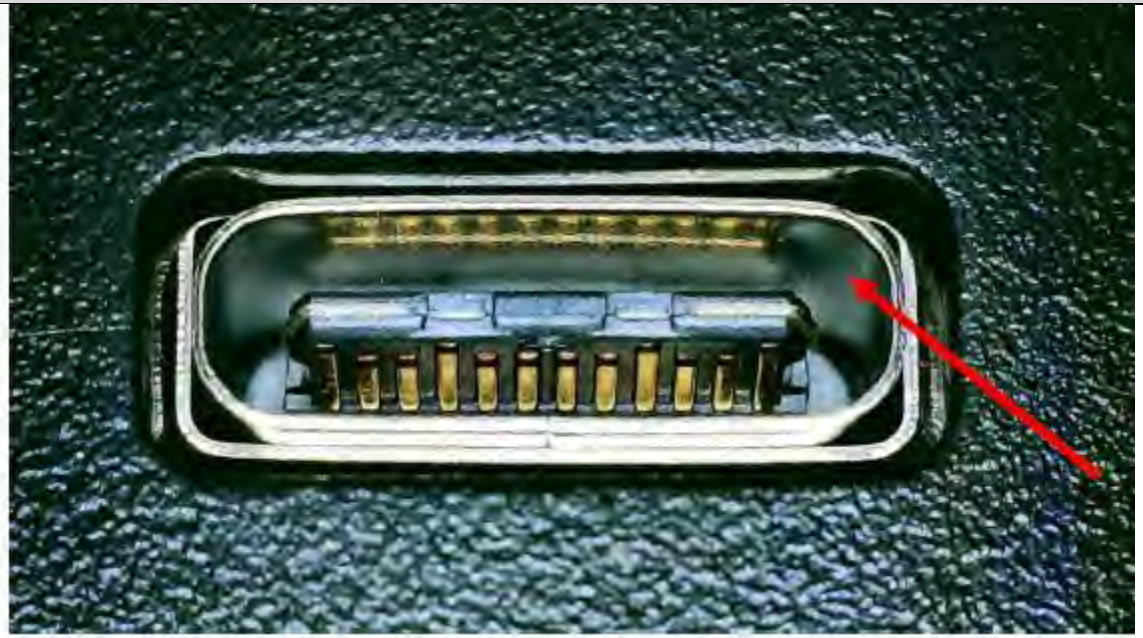
Claim 131 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is generally indicated by the yellow arrow.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

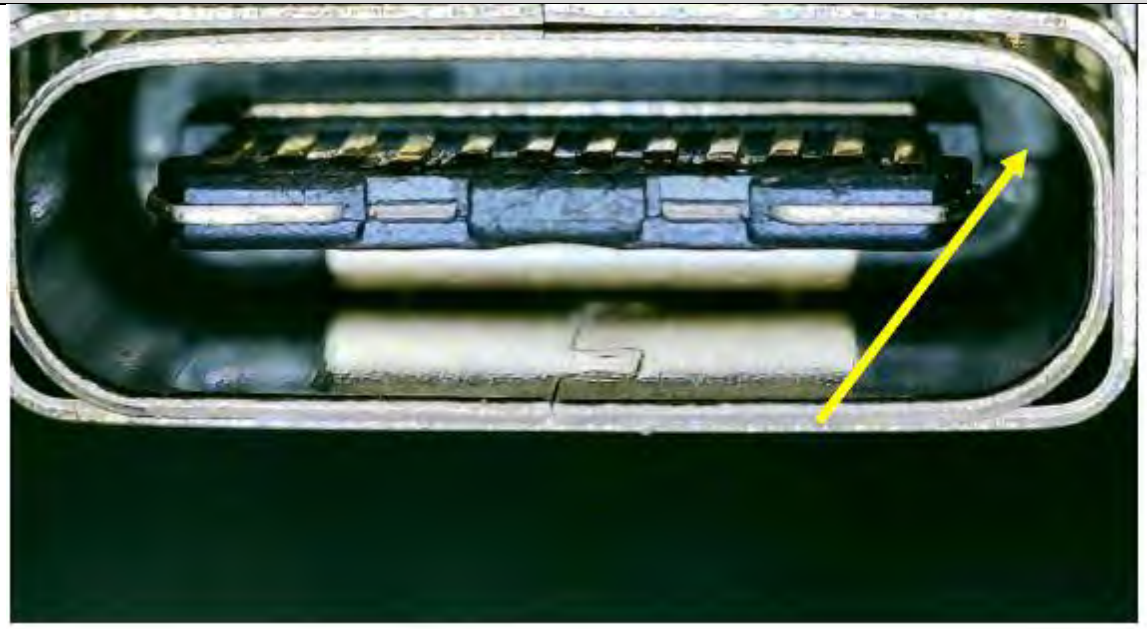
Claim 131 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung ViewFinity S80UD, as described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

Samsung, EX1004, p. 1738

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

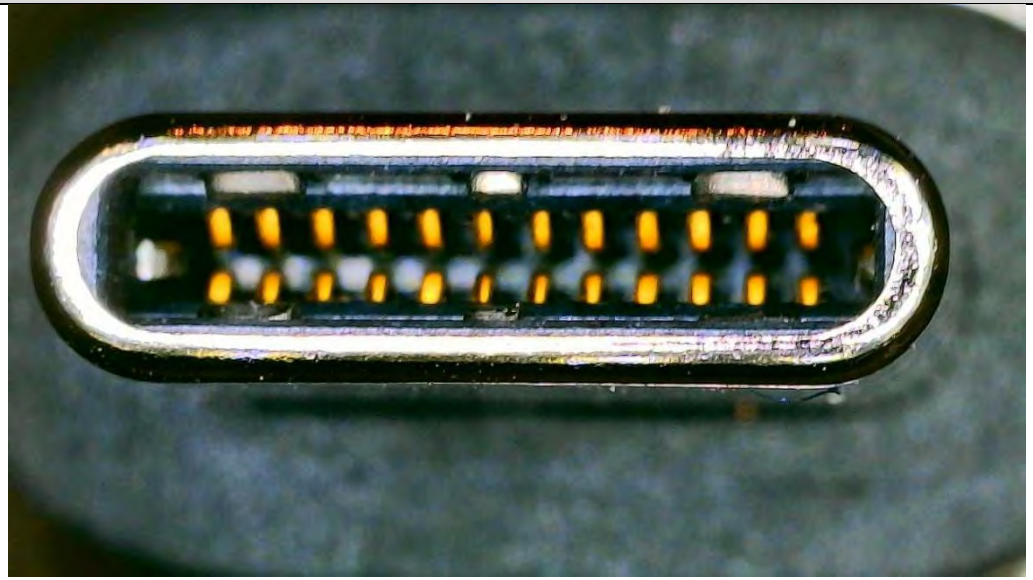
Claim 131 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**131D**] a tongue, which has a top side with a first surface with grooves, and a bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung ViewFinity S80UD includes a tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

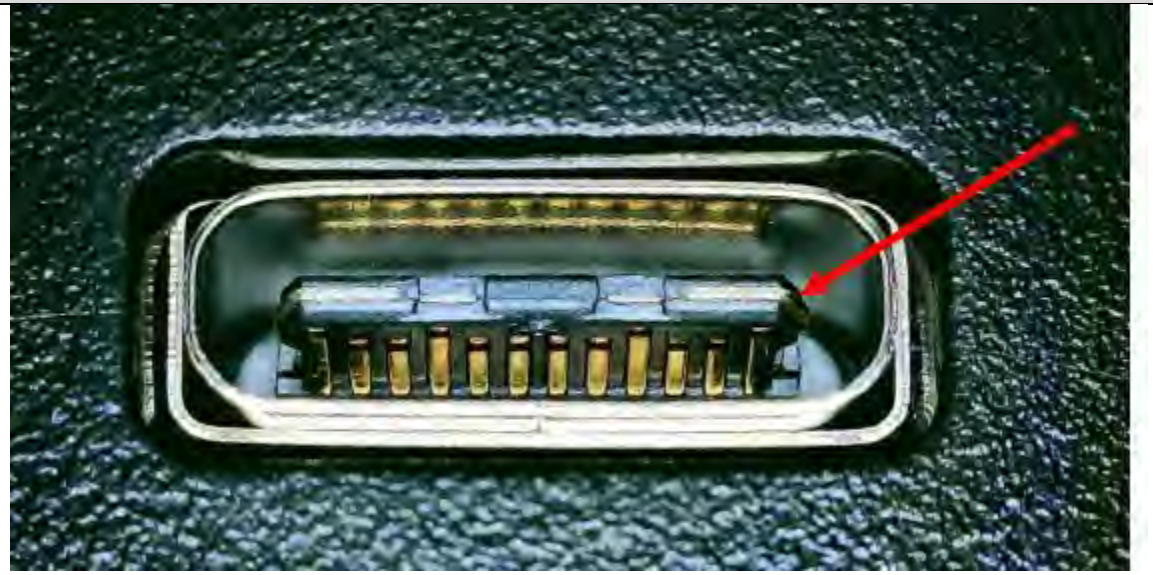
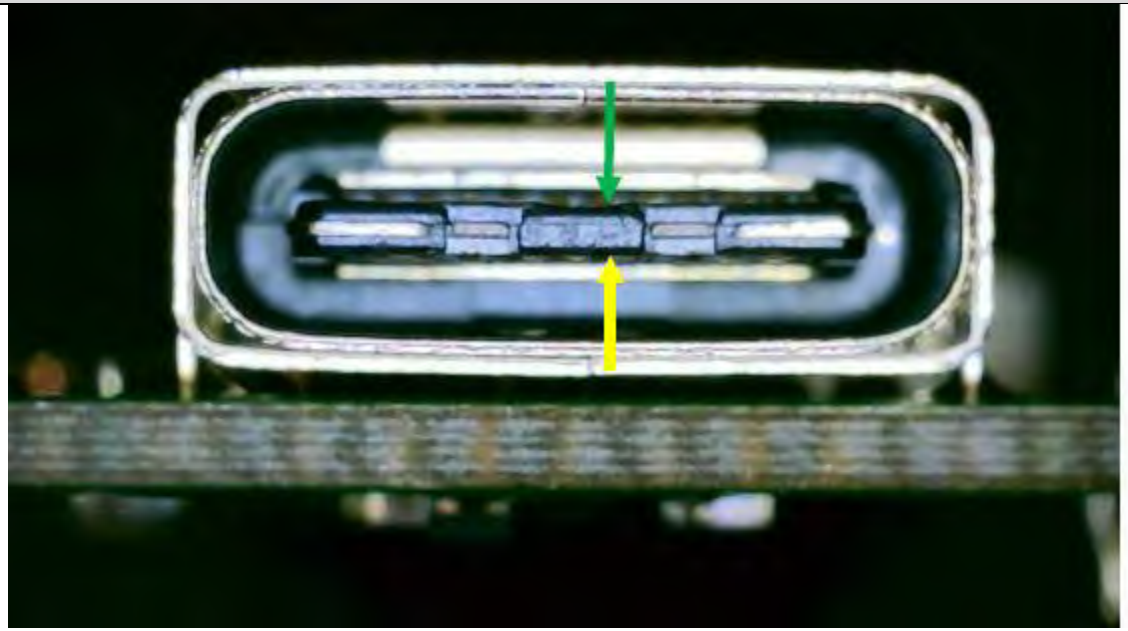
Claim 131 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

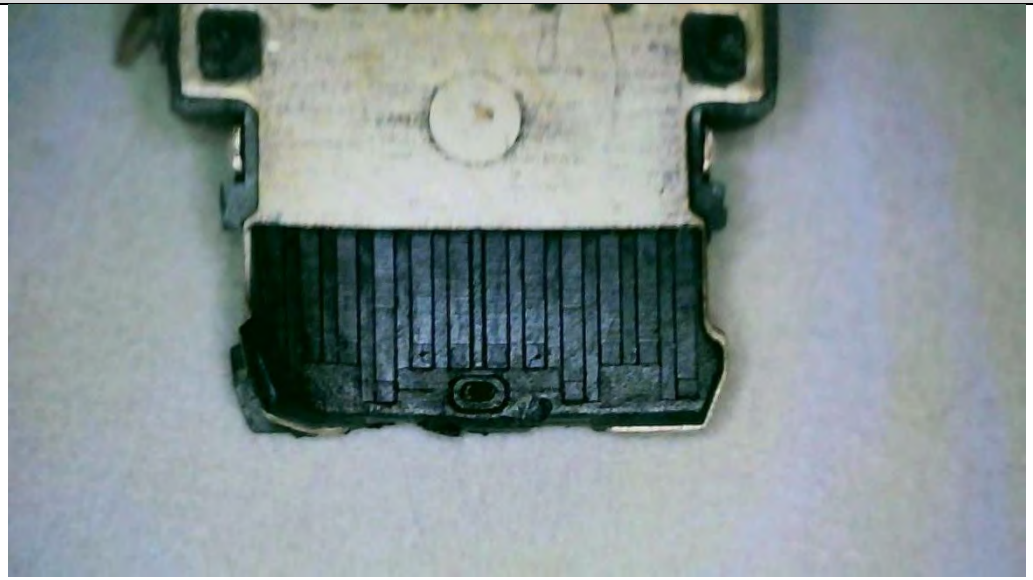
Claim 131 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

Samsung, EX1004, p. 1742

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1743

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

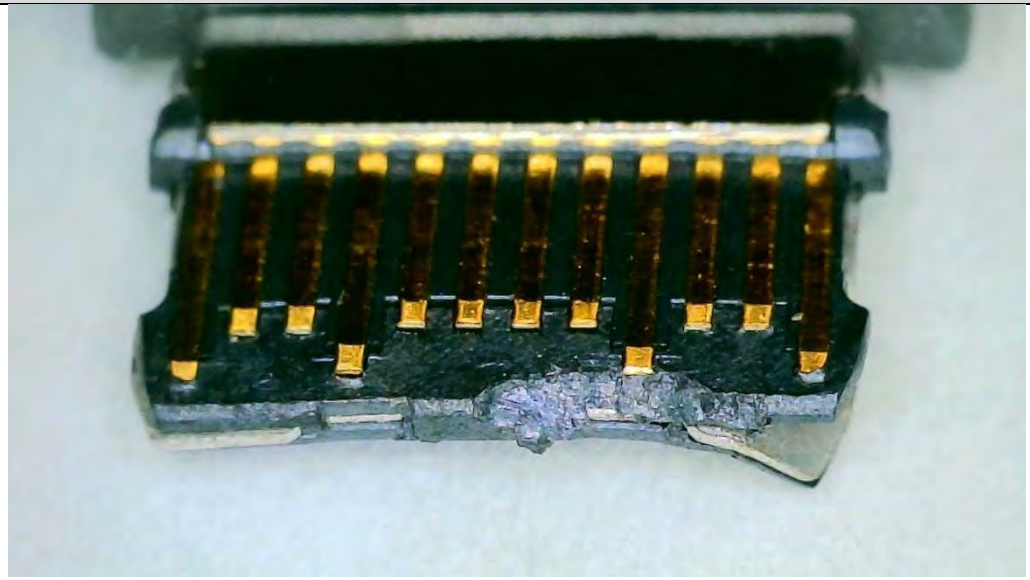
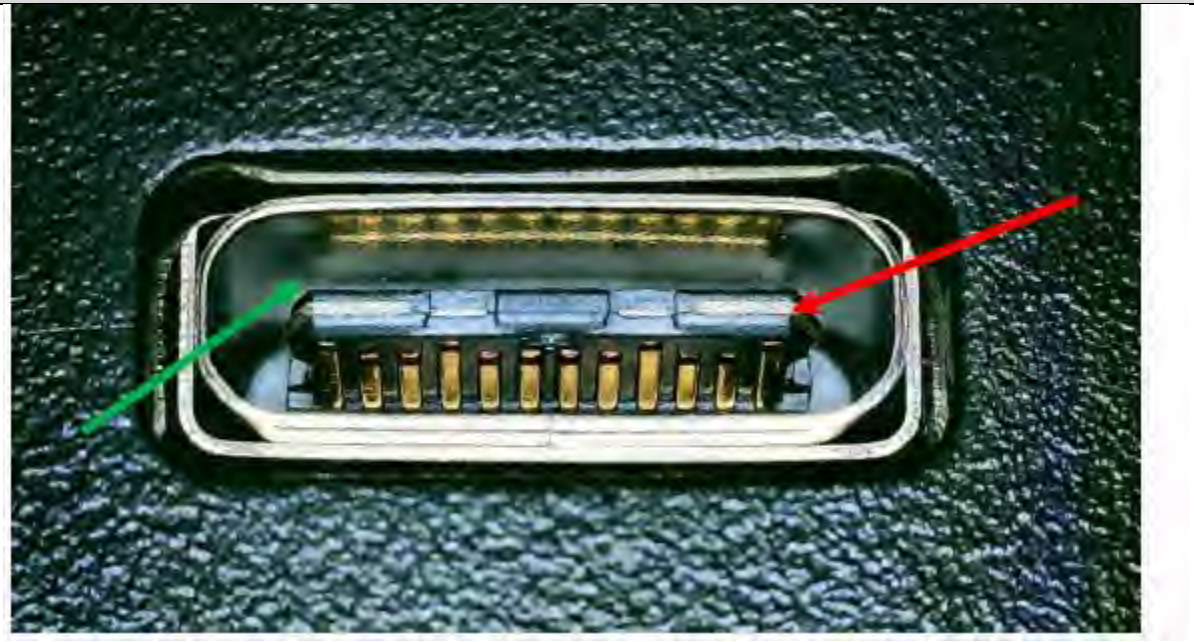
Claim 131 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponding to the side with the second surface as described in element [**34D**].
[**131E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	The tongue of the socket structure of the ViewFinity S80UD (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

Samsung, EX1004, p. 1745

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

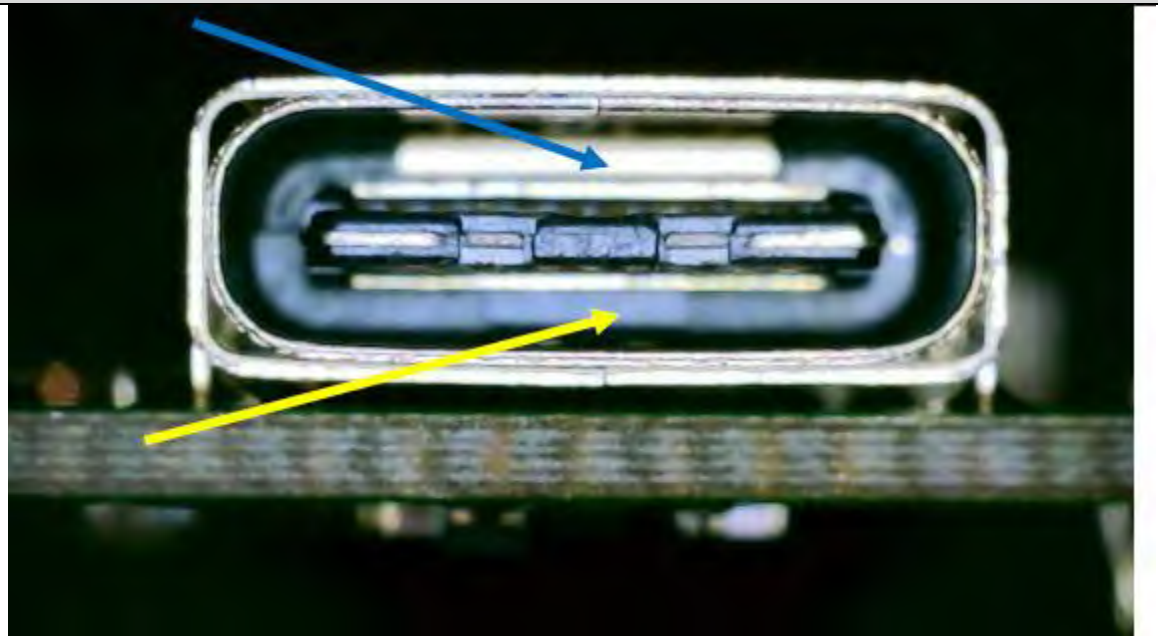
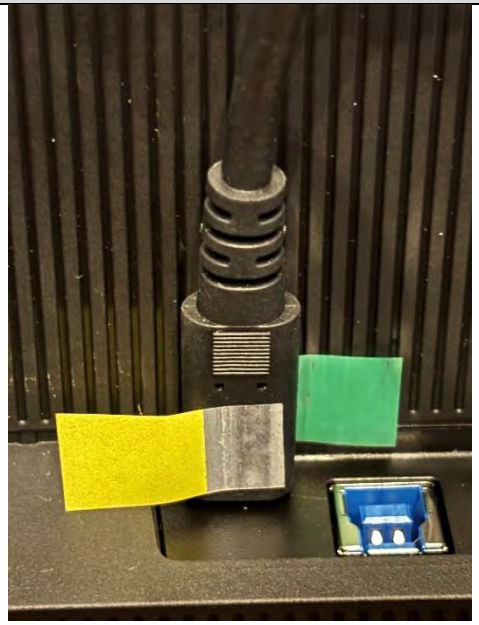
Claim 131 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	  The green and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the socket structure of the Samsung ViewFinity S80UD when the side of the plug indicated with a green flag is on top (first image) and when the side of the plug indicated with the green flag is on bottom (second picture). *See also* Element [**34E**].
[**131F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to	The socket structure of the Samsung ViewFinity S80UD includes at least one row of first contacts separately arranged on the first surface of the tongue.

Samsung, EX1004, p. 1747

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

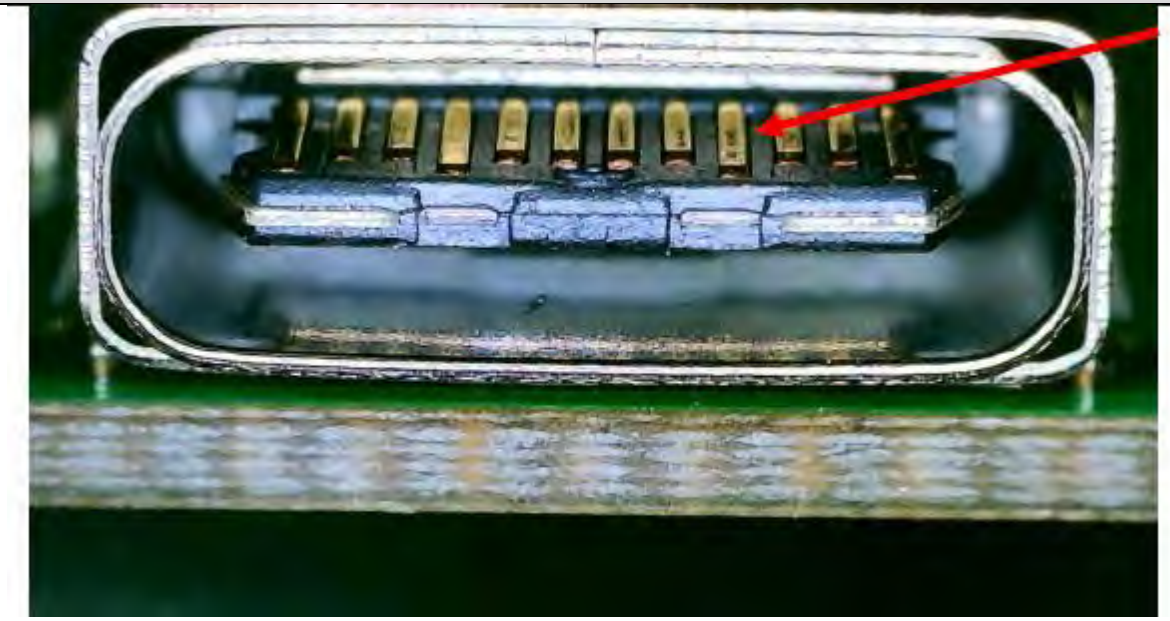
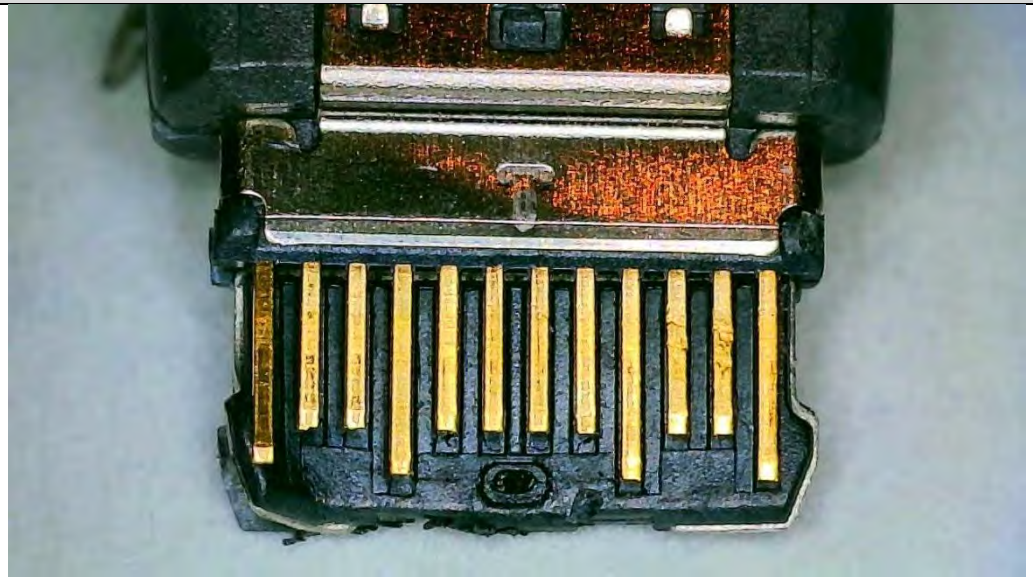
Claim 131 of the '307 Patent	**Evidence of Infringement**
a first pin extending out of the plastic base; and	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve first contacts correspond to the twelve pins extending from the plastic base.

Samsung, EX1004, p. 1749

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 (Image of separated components of socket structure.)

Samsung, EX1004, p. 1750

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure showing pins connected to PCB.) Note that the pins extending out of the plastic base are arranged in two rows, such that the image above shows only the first pins. The second pins are located behind the first pins. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Claim 131 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

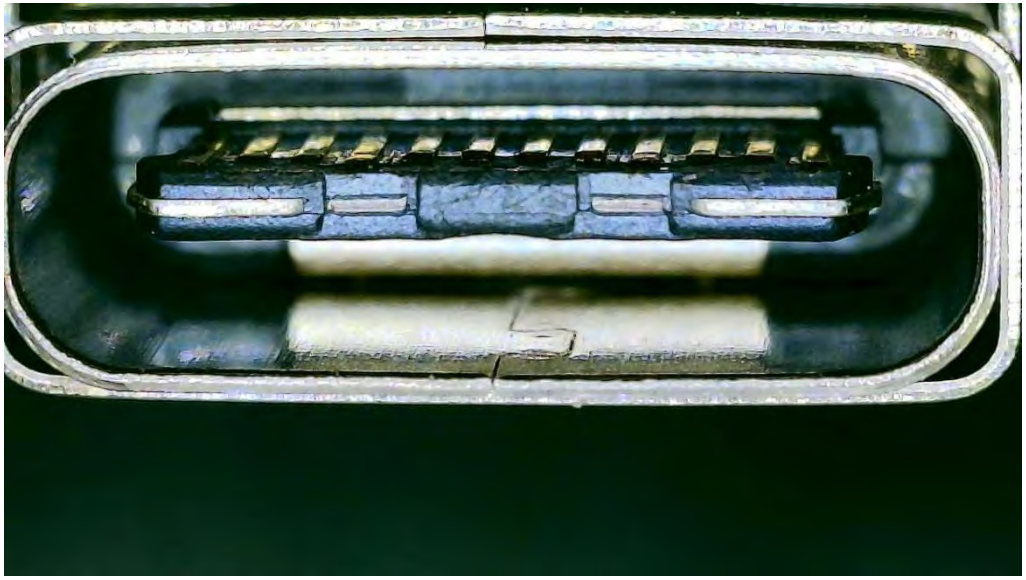
Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

See also Element [**34F**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	**Evidence of Infringement**
[**131G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung ViewFinity S80UD includes at least one row of second contacts separately arranged on the second surface of the tongue. 

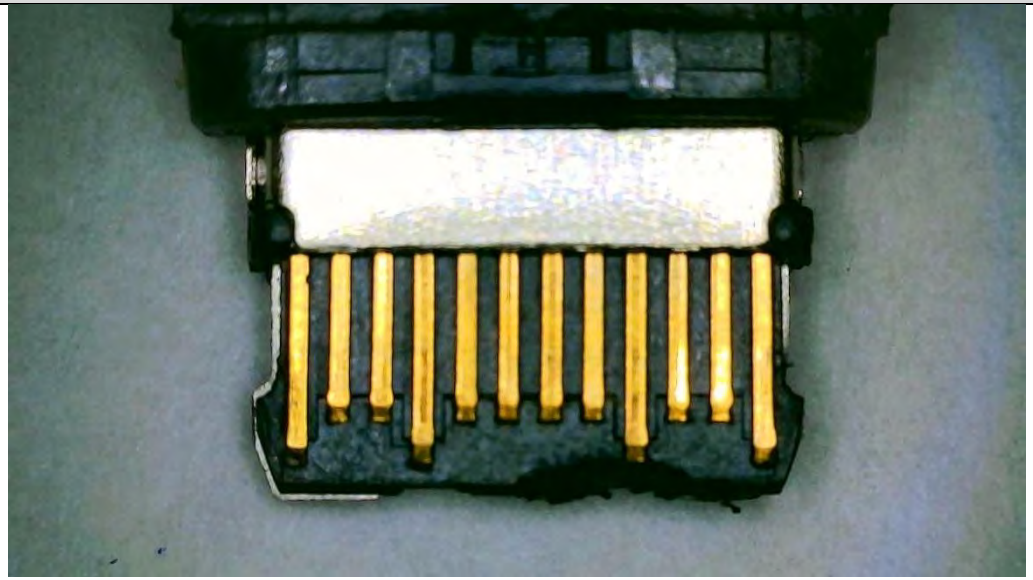
Claim 131 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung ViewFinity S80UD.) *See also* Element [**34G**].
[**131H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve second contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Claim 131 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base.

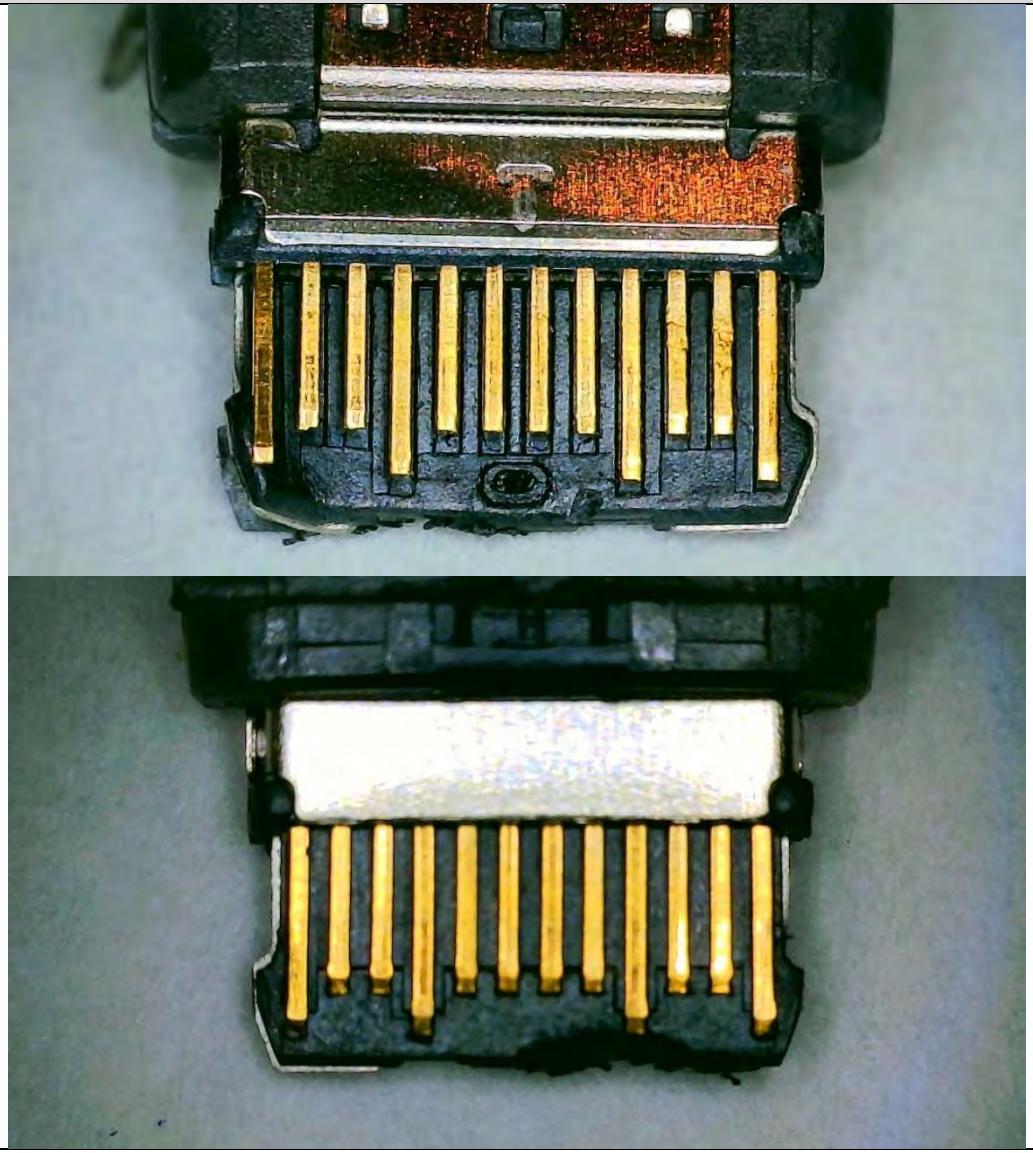
See also element [**34H**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	**Evidence of Infringement**
[**131I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

Samsung, EX1004, p. 1757

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1758

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

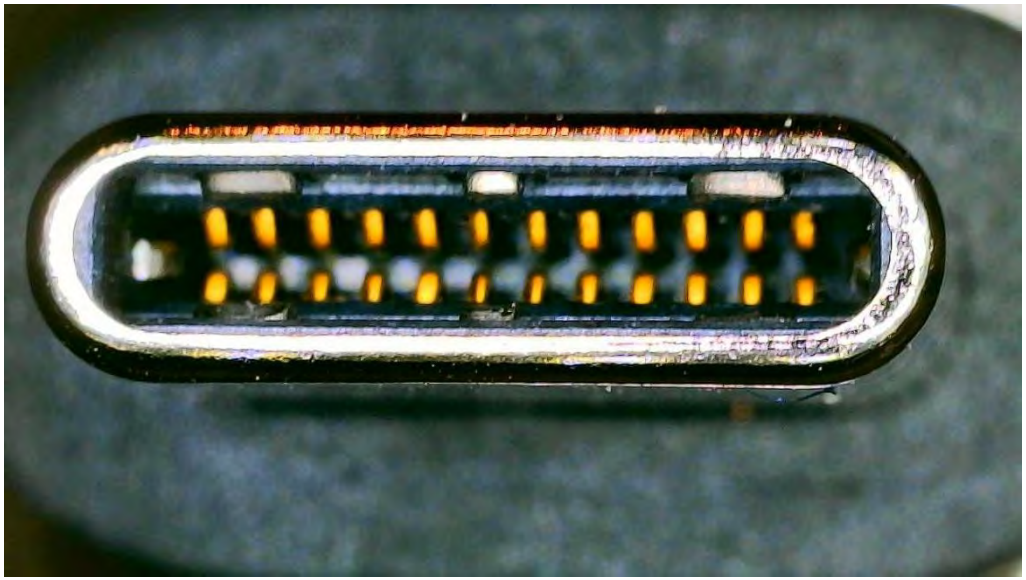
Claim 131 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**131J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured such that:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image). 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

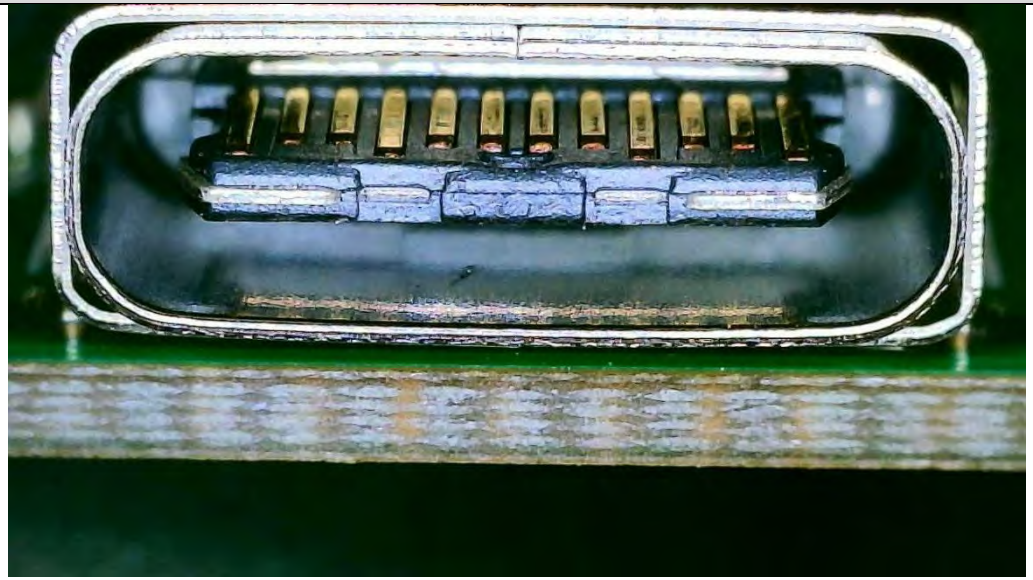
Claim 131 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung ViewFinity S80UD has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

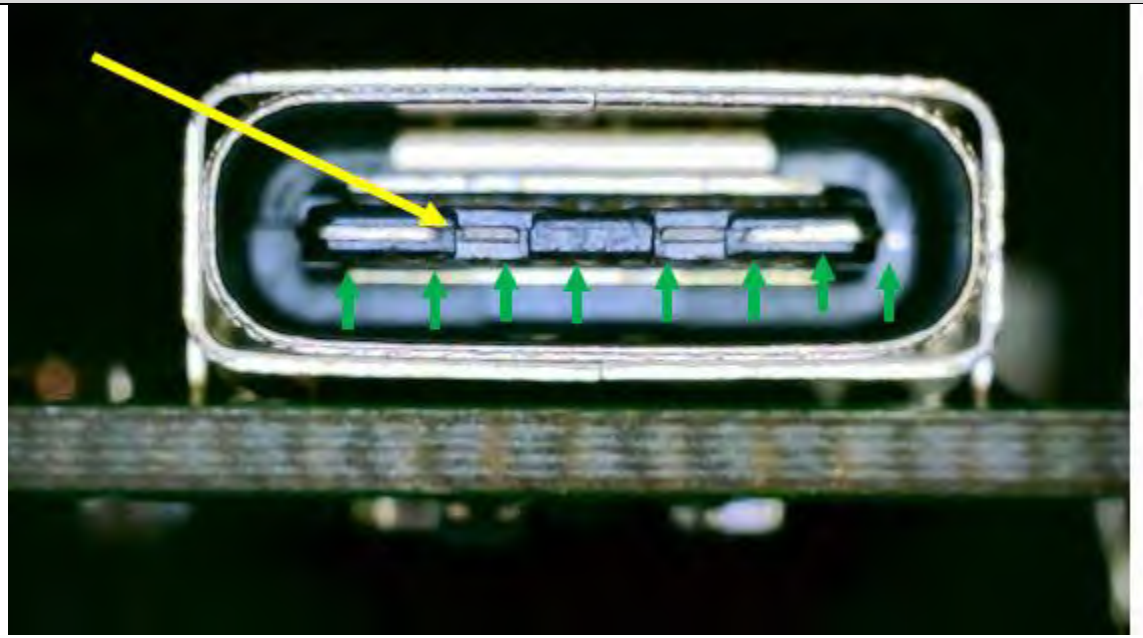
See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**131K**] through [**131L**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
[**131K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung ViewFinity S80UD is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the green flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as green arrows in the image below. In the normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1765

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

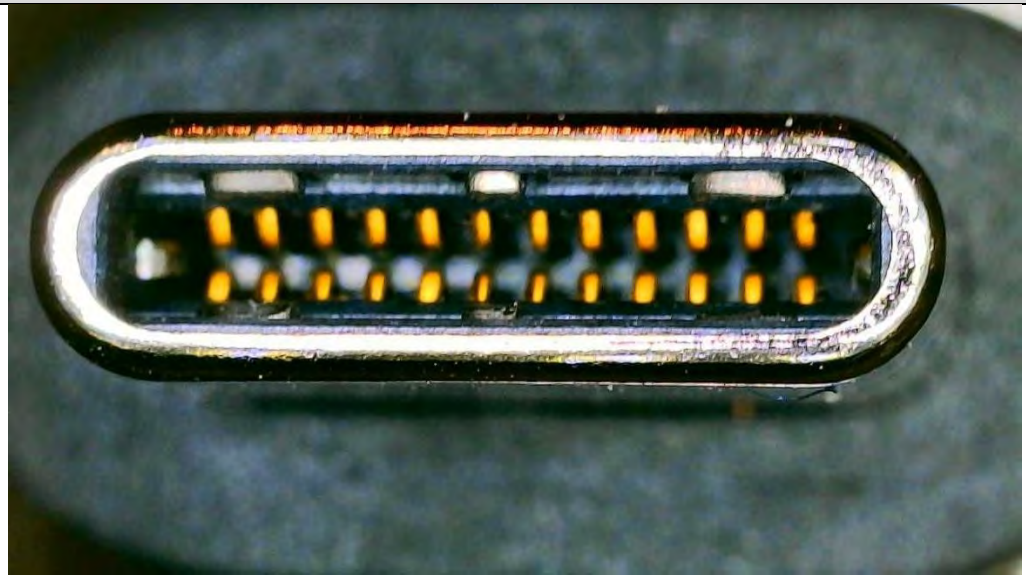
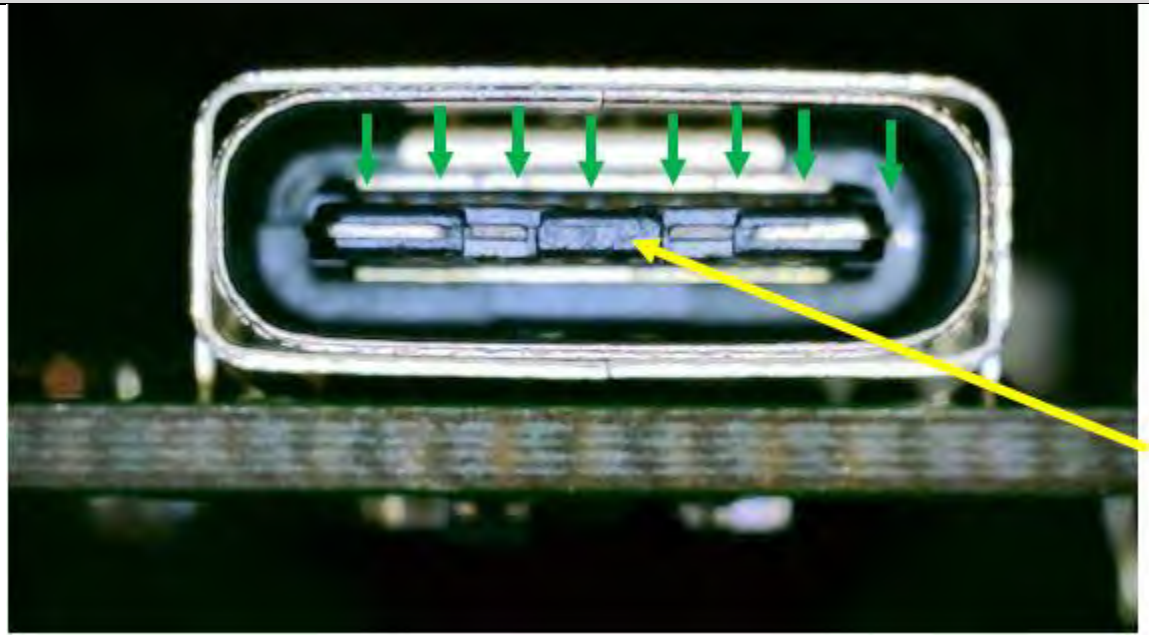
Claim 131 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**131L**] when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically	The socket structure of the Samsung ViewFinity S80UD is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the green flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as green arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 131 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].

Samsung, EX1004, p. 1768

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

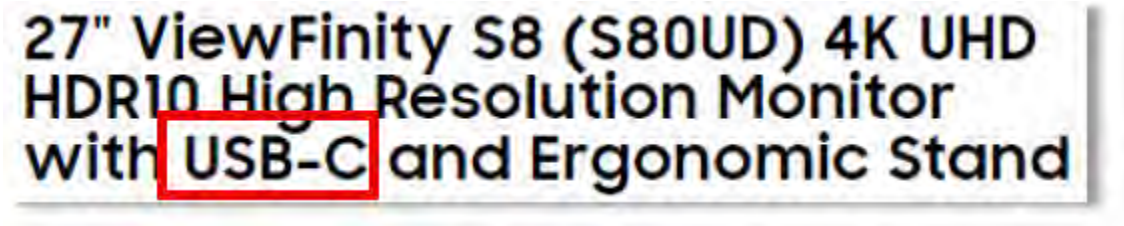
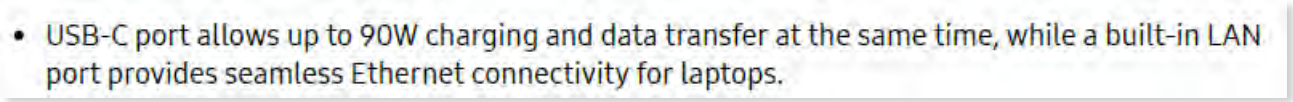
Claim 132 of the '307 Patent	**Evidence of Infringement**
[**132A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung ViewFinity S80UD is a monitor that includes a socket structure with duplex electrical connection. In particular, the Samsung ViewFinity S80UD provides duplex electrical connection via a USB-C port.  *See* https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025).  *Id.*  *Id.*

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

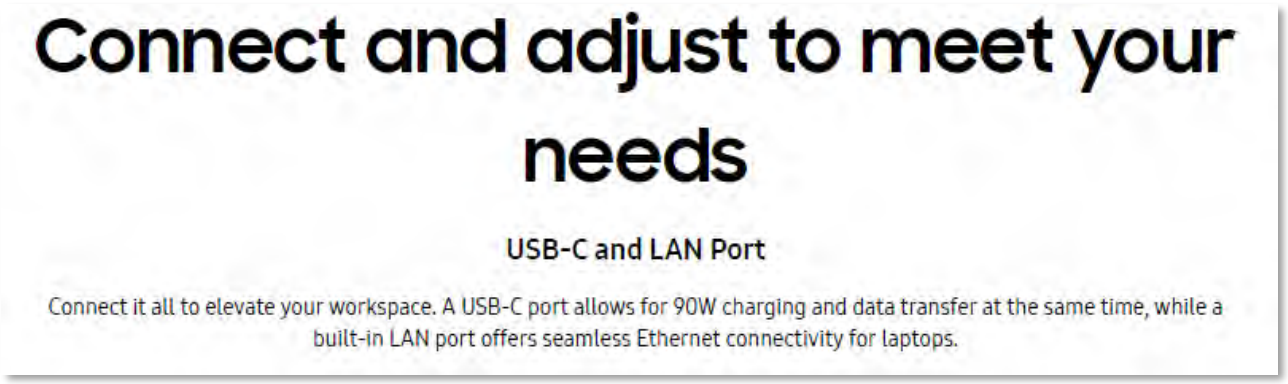
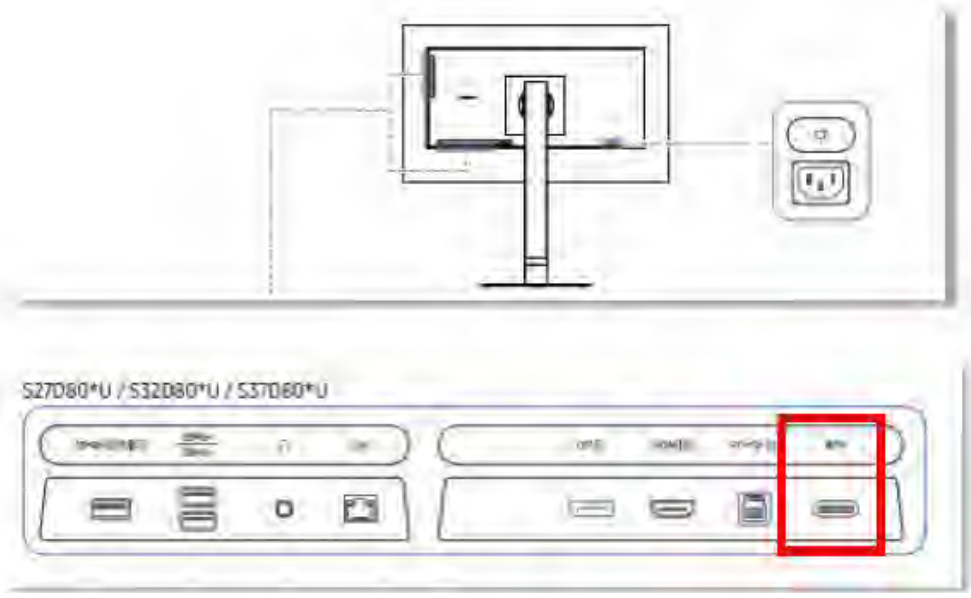
Claim 132 of the '307 Patent	Evidence of Infringement
	 *Id.* 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). In addition, the Samsung ViewFinity S80UD is packaged and compatible with a USB-C cable.  (Image of cable included in packaging) 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	**Evidence of Infringement**
	See https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**132B**] through [**132L**].
[**132B**] a plastic base;	The socket structure of the Samsung ViewFinity S80UD includes a plastic base. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

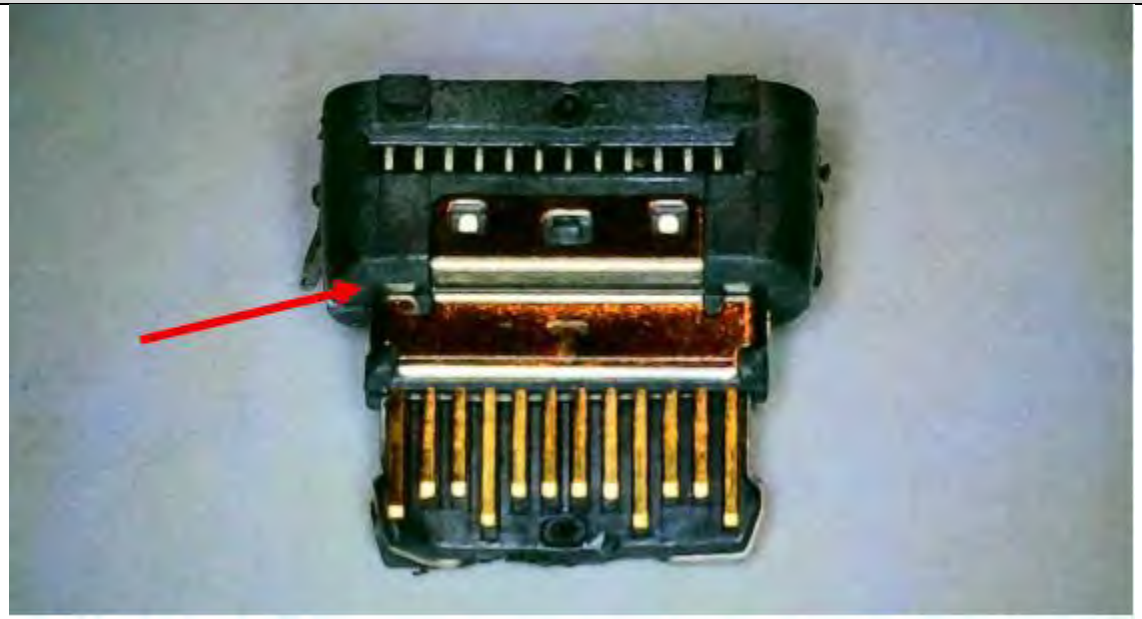
Claim 132 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of ViewFinity S80UD.) *See also* Element [**34B**].
[**132C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung ViewFinity S80UD includes a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

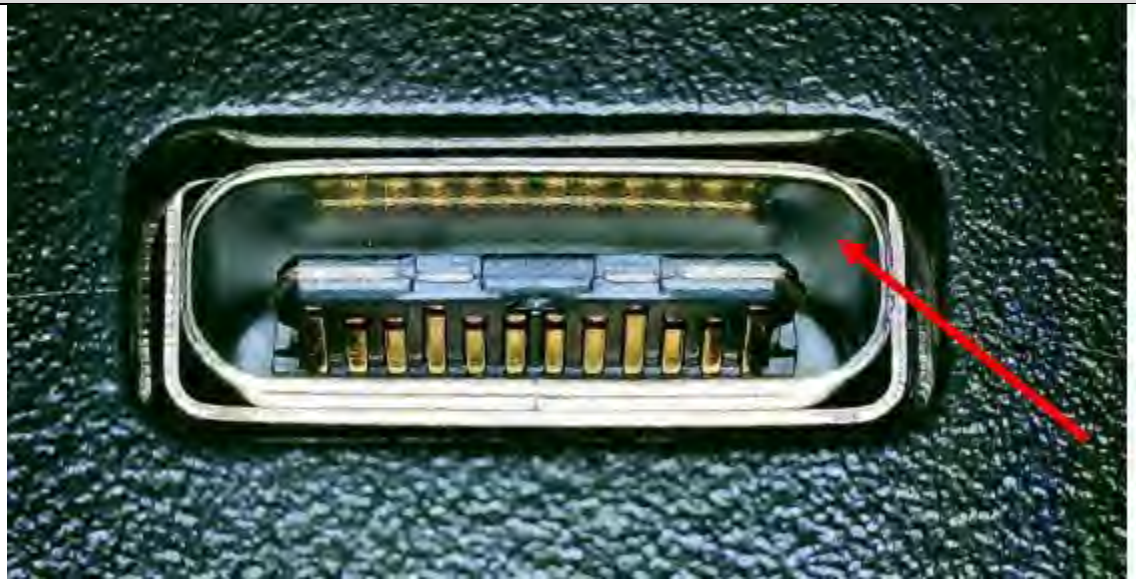
Claim 132 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is generally indicated by the yellow arrow.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

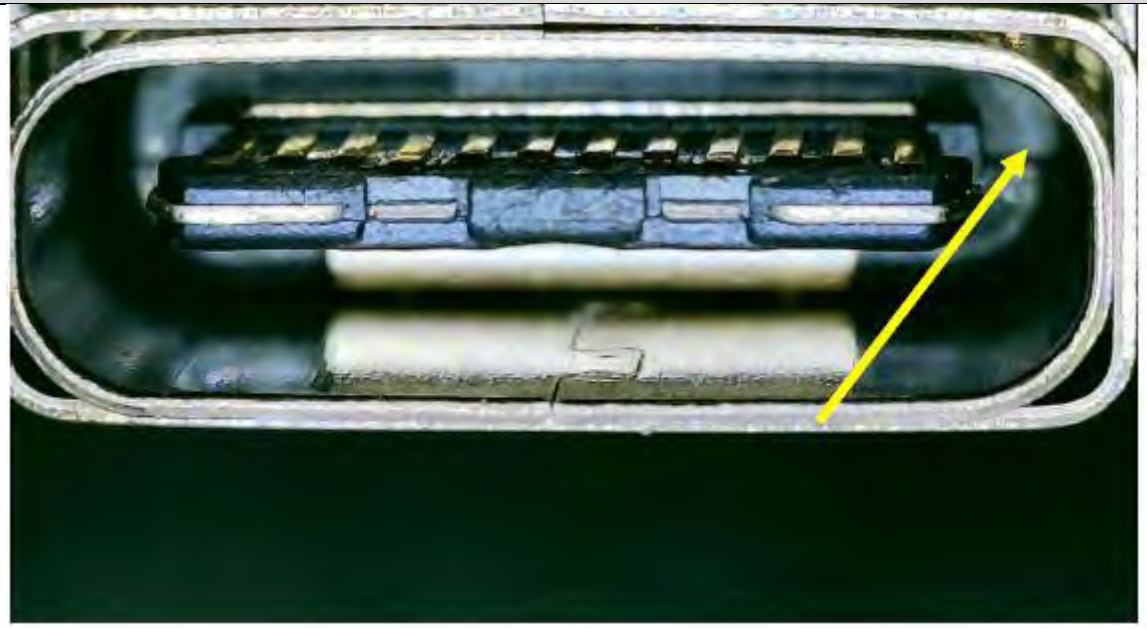
Claim 132 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung ViewFinity S80UD, as described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

Samsung, EX1004, p. 1776

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

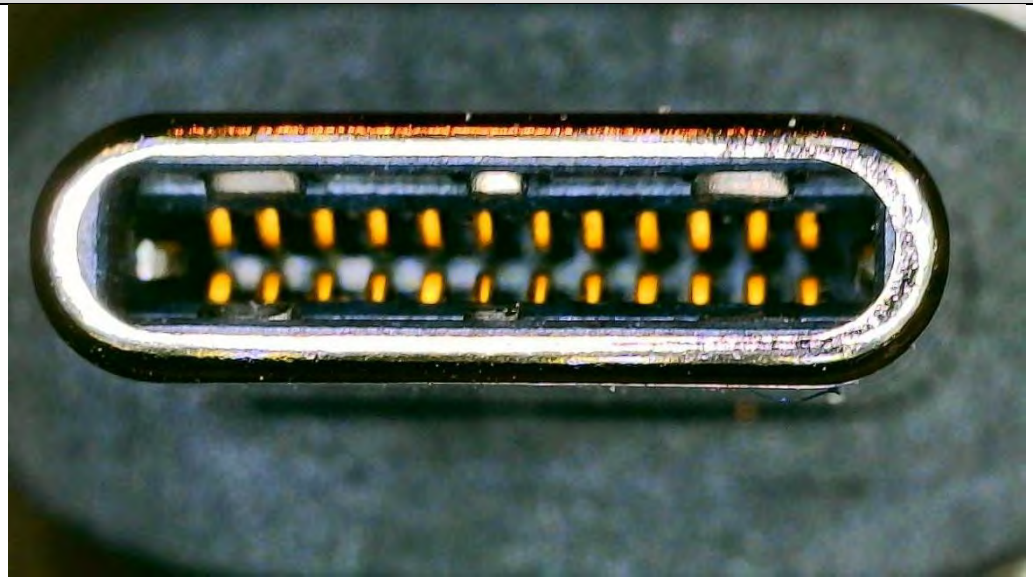
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**132D**] a tongue, which has a top side with a first surface with grooves, and a bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung ViewFinity S80UD includes a tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

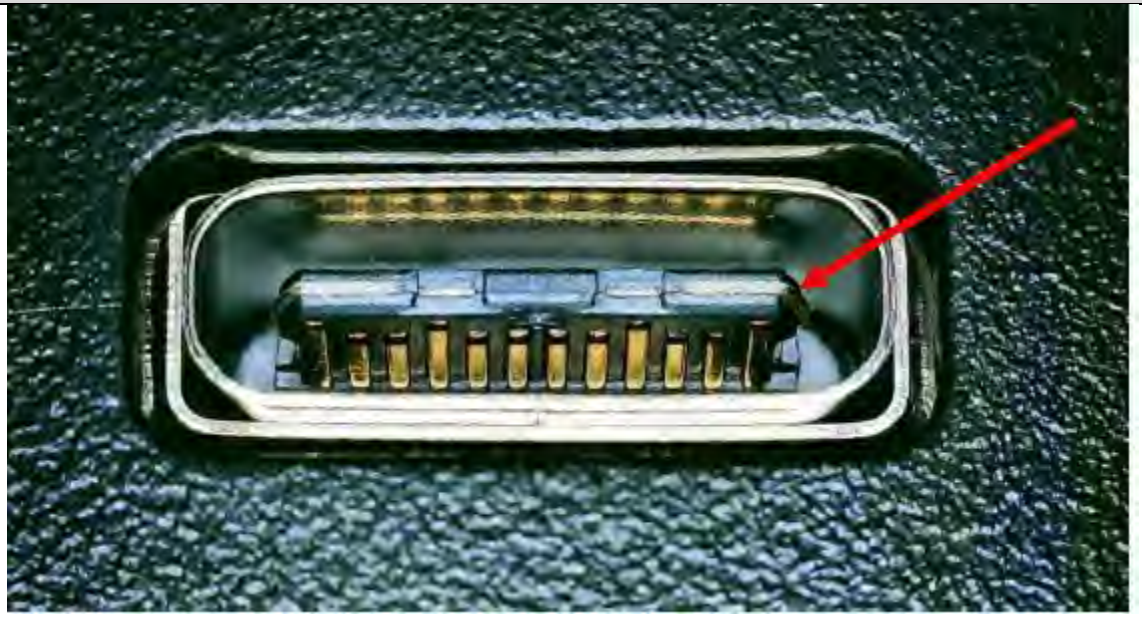
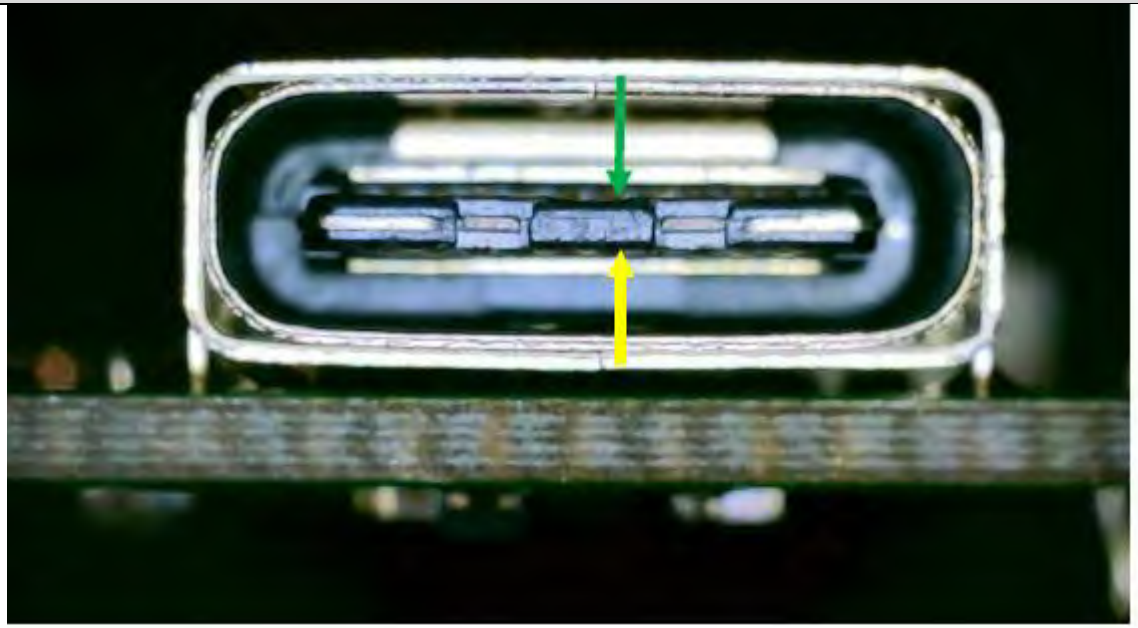
Claim 132 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

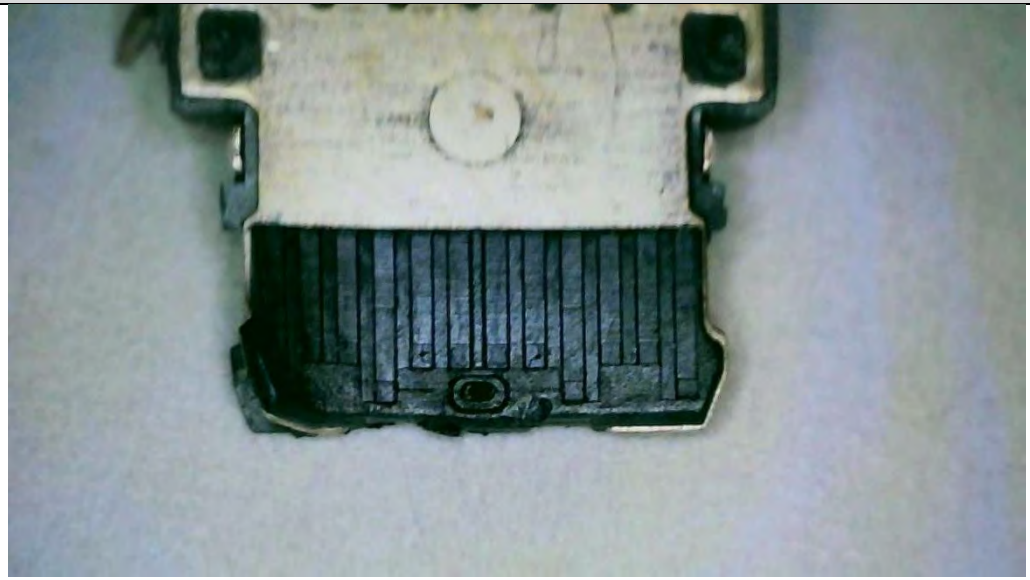
Samsung, EX1004, p. 1779

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

Samsung, EX1004, p. 1780

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1781

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

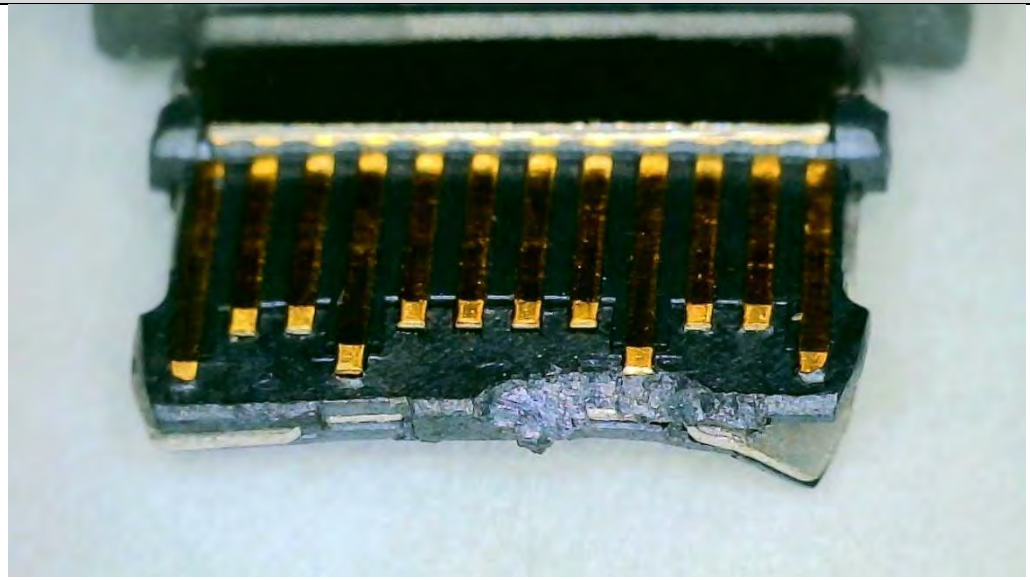
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponding to the side with the second surface as described in element [**34D**].
[**132E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and positioned into the connection slot;	The tongue of the socket structure of the ViewFinity S80UD (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

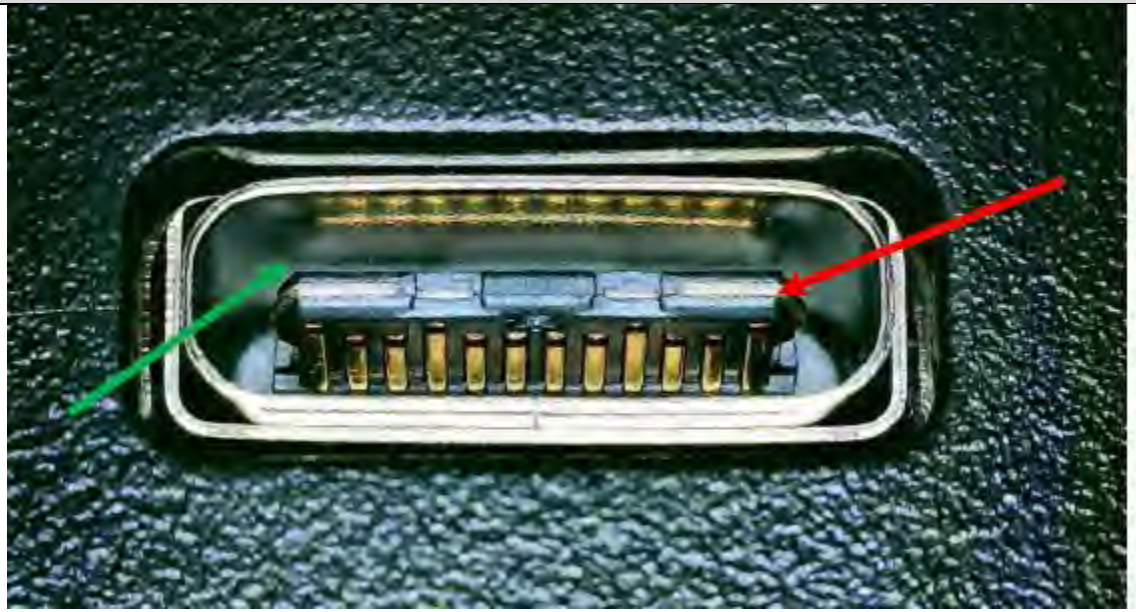
Claim 132 of the '307 Patent	Evidence of Infringement
	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

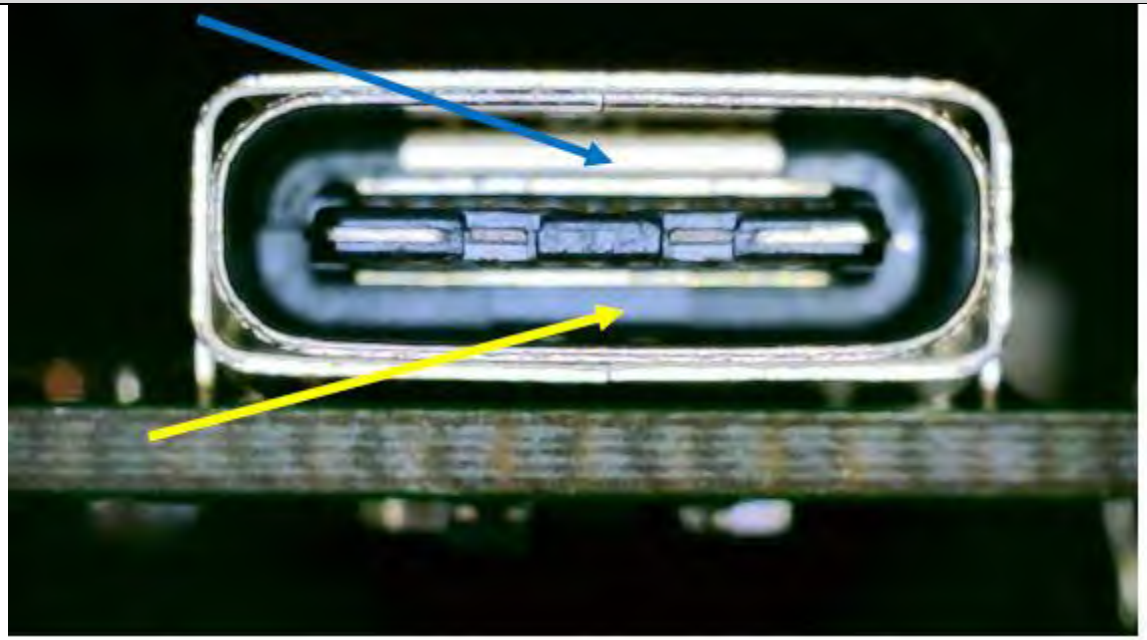
Claim 132 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	  The green and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the socket structure of the Samsung ViewFinity S80UD when the side of the plug indicated with a green flag is on top (first image) and when the side of the plug indicated with the green flag is on bottom (second picture). *See also* Element [**34E**].
[**132F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is electrically connected to	The socket structure of the Samsung ViewFinity S80UD includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

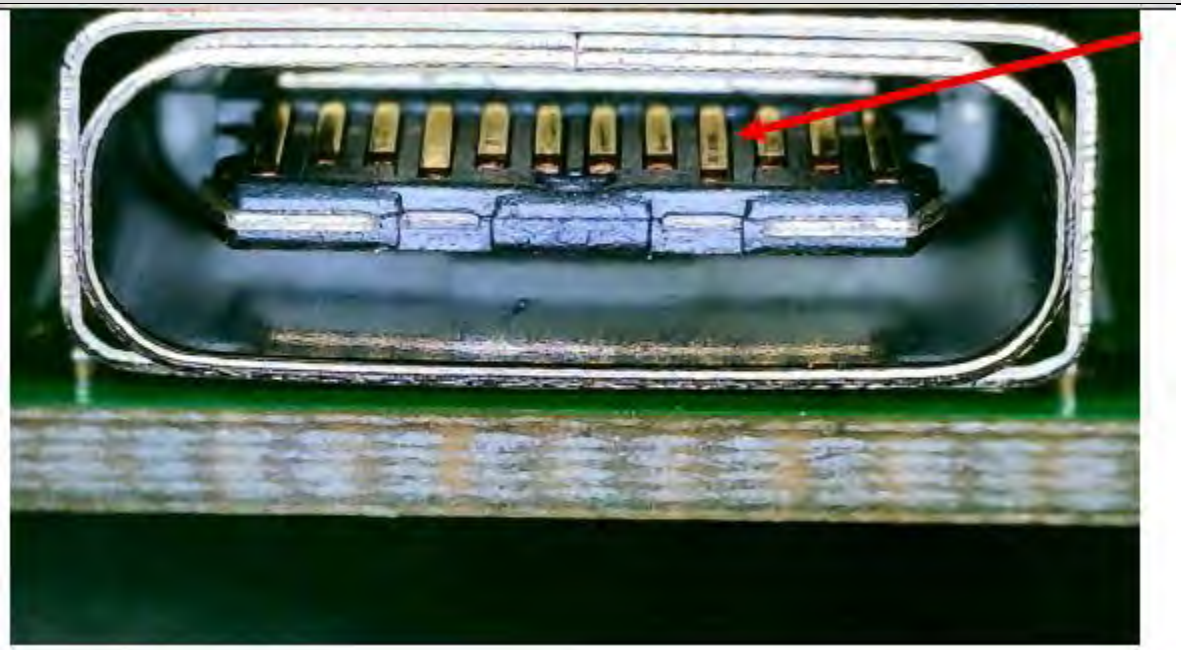
Claim 132 of the '307 Patent	**Evidence of Infringement**
a first pin extending out of the plastic base; and	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

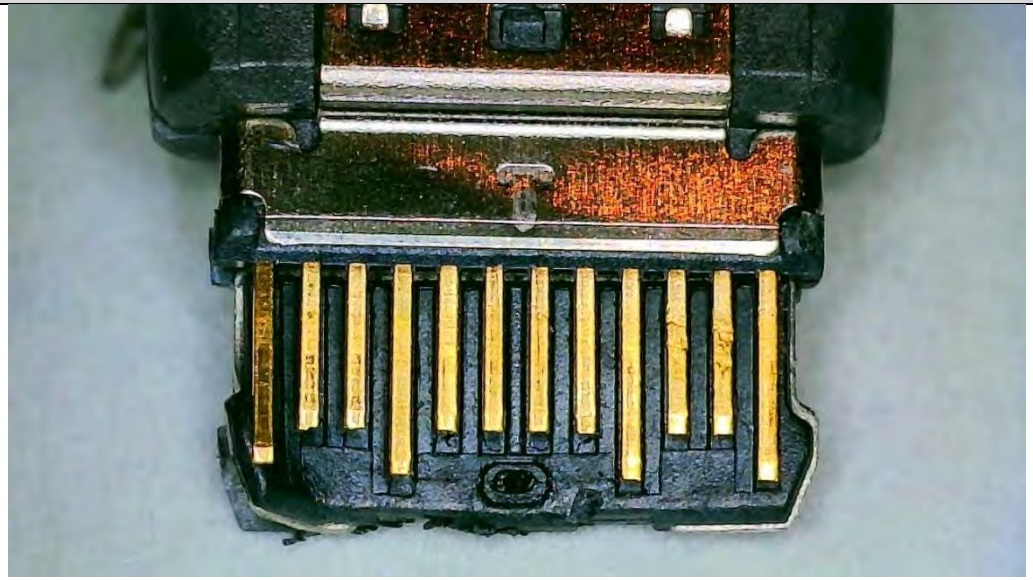
Claim 132 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve first contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

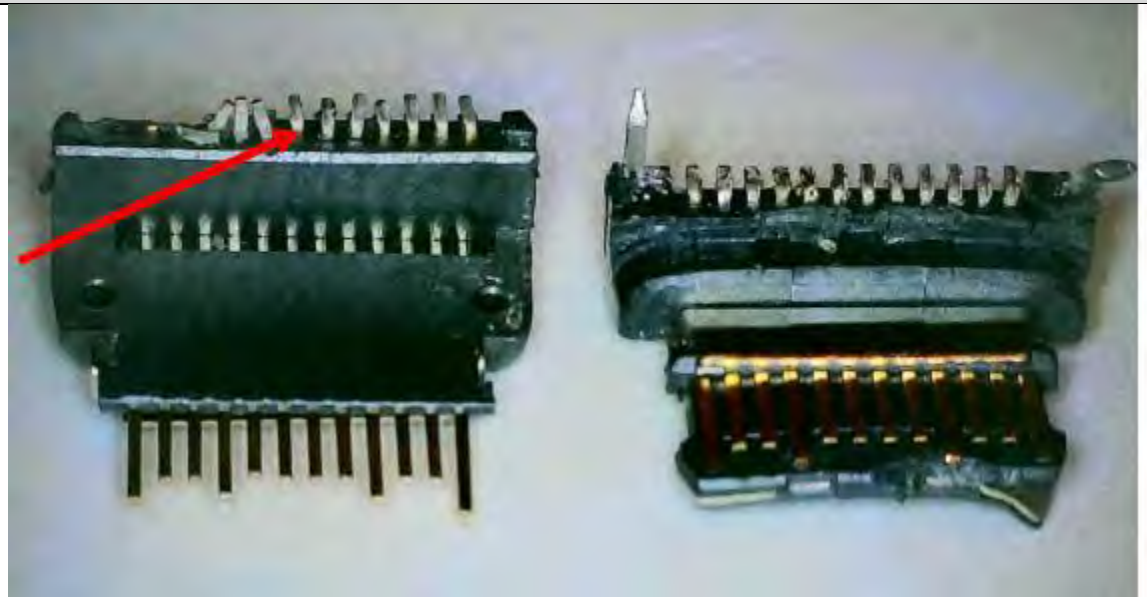
Claim 132 of the '307 Patent	Evidence of Infringement
	 (Image of separated components of socket structure.)

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure showing pins connected to PCB.) Note that the pins extending out of the plastic base are arranged in two rows, such that the image above shows only the first pins. The second pins are located behind the first pins. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Claim 132 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

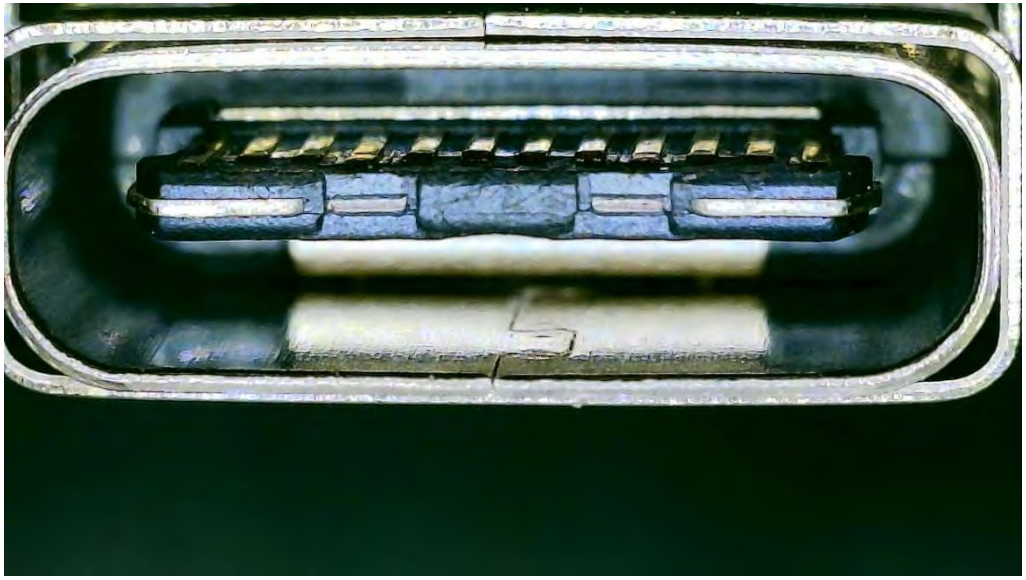
Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

See also Element [**34F**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	**Evidence of Infringement**
[**132G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung ViewFinity S80UD includes at least one row of second contacts separately arranged on the second surface of the tongue. 

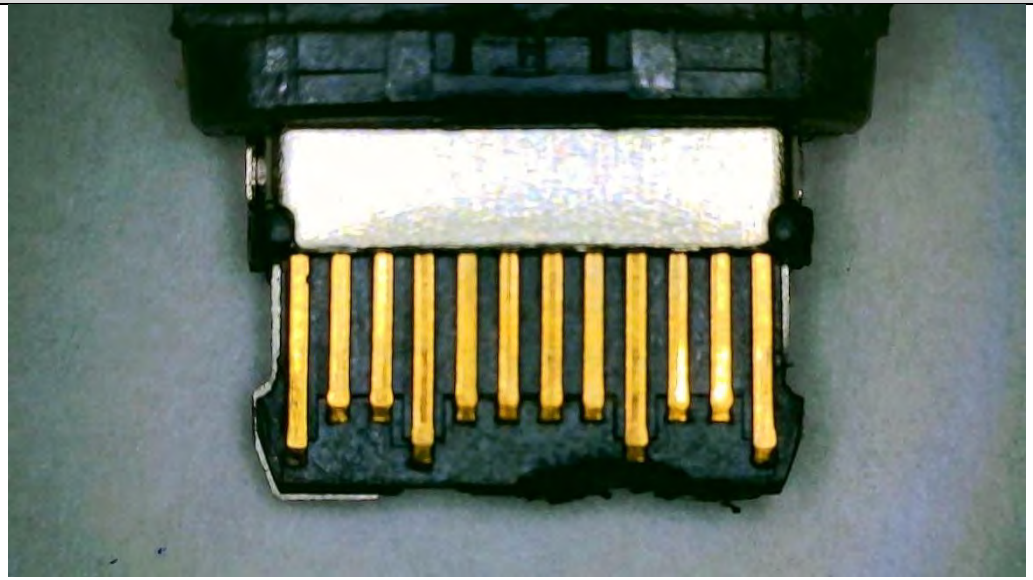
Claim 132 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung ViewFinity S80UD.) *See also* Element [**34G**].
[**132H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve second contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Samsung, EX1004, p. 1793

Claim 132 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

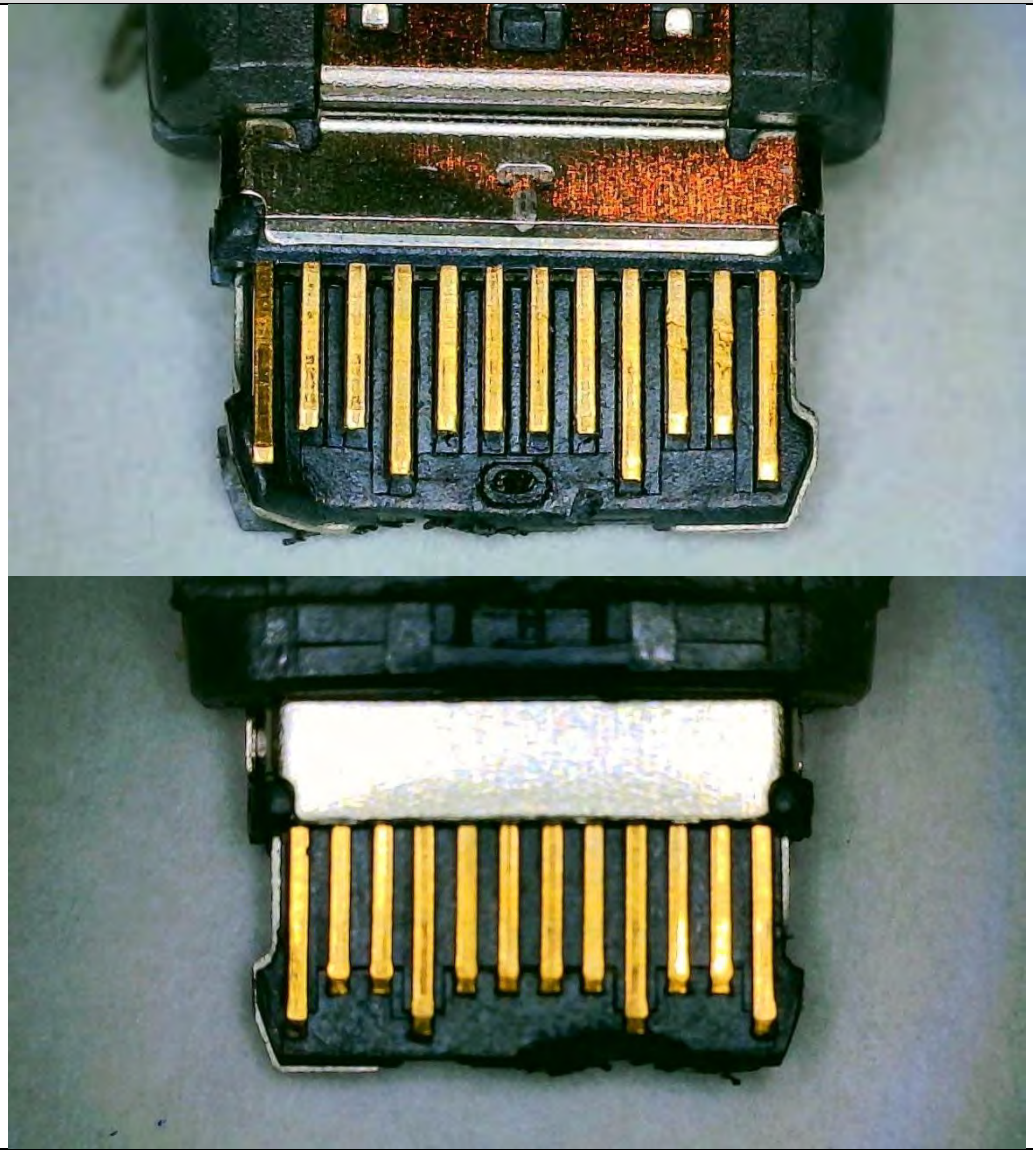
In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base.

See also element [**34H**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	**Evidence of Infringement**
[**132I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1796

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

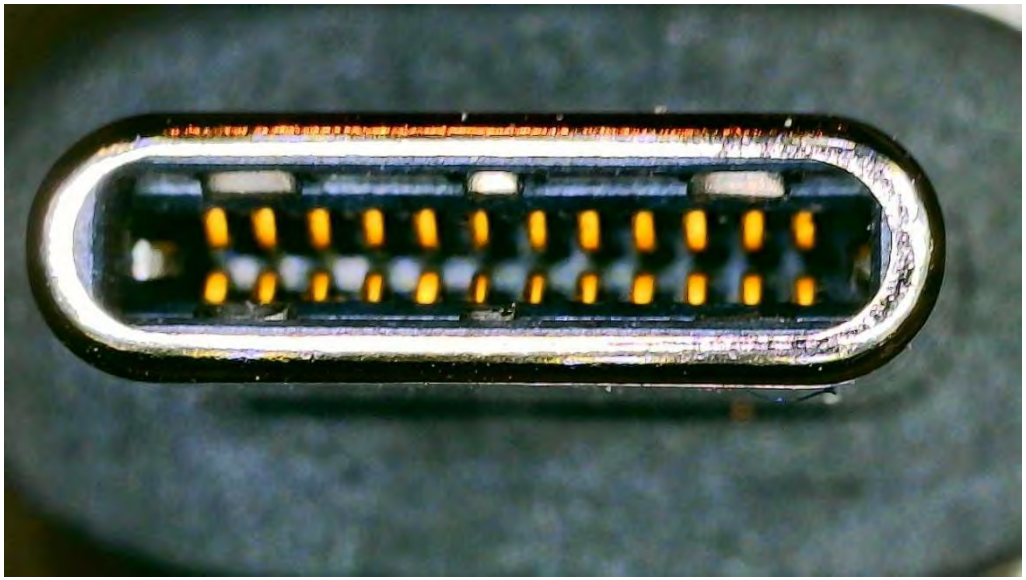
Claim 132 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

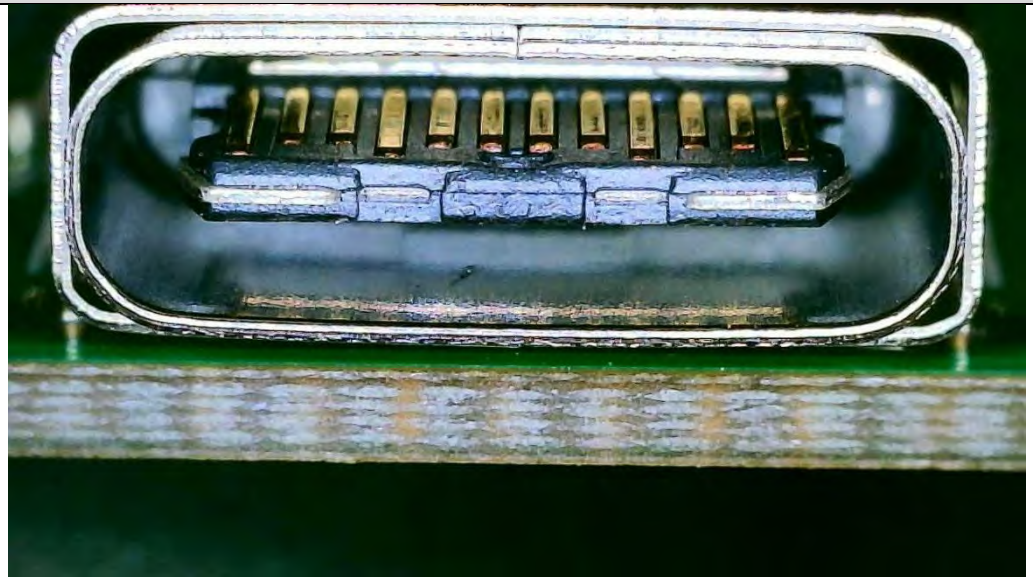
EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15. *See also* Element [**34I**].
[**132J**] the at least one row of first contacts has a functional reverse mirror configuration relative to the at least one row of second contacts, and the socket structure is thereby configured for reversable connection such that:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image). 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung ViewFinity S80UD has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

Claim 132 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

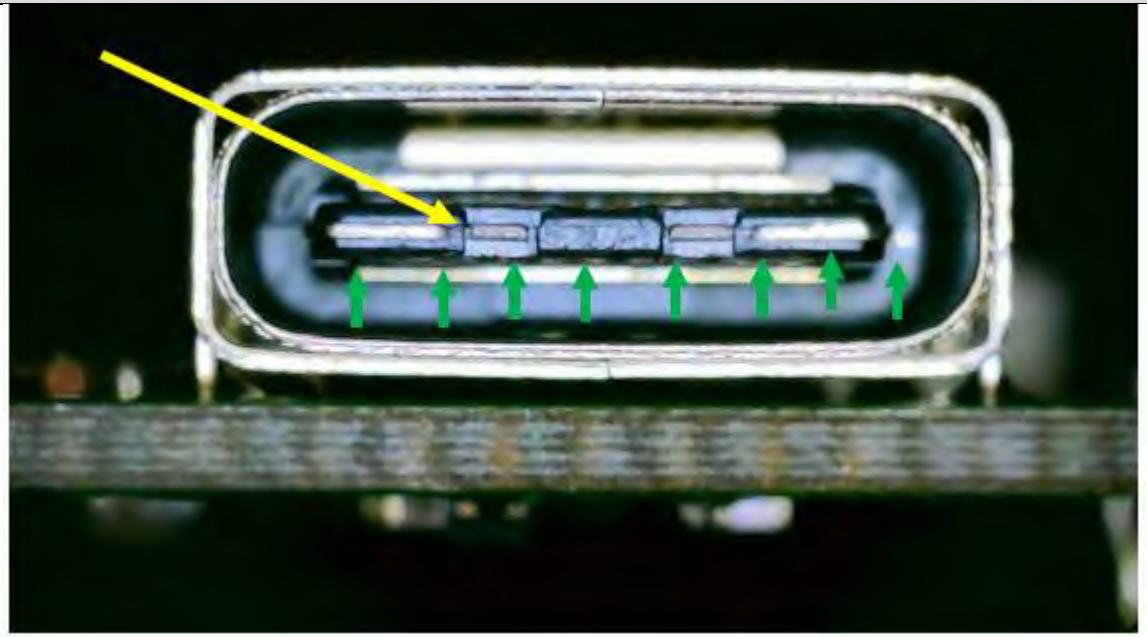
See also Element [**34J**].

The socket structure is thereby configured for reversable connection, as described below in connection with elements [**132K**] through [**132L**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
[**132K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung ViewFinity S80UD is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the green flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as green arrows in the image below. In the normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1803

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

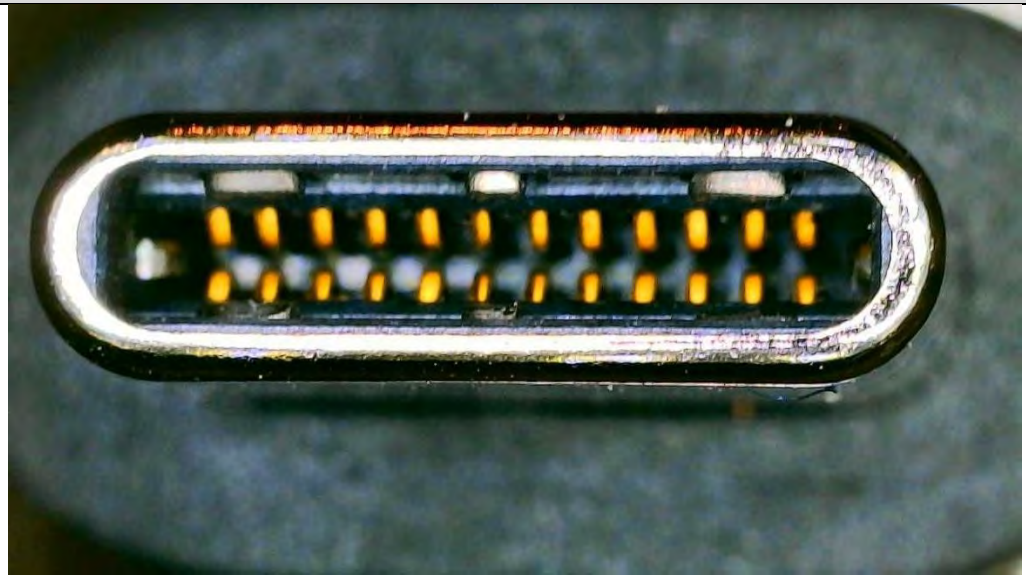
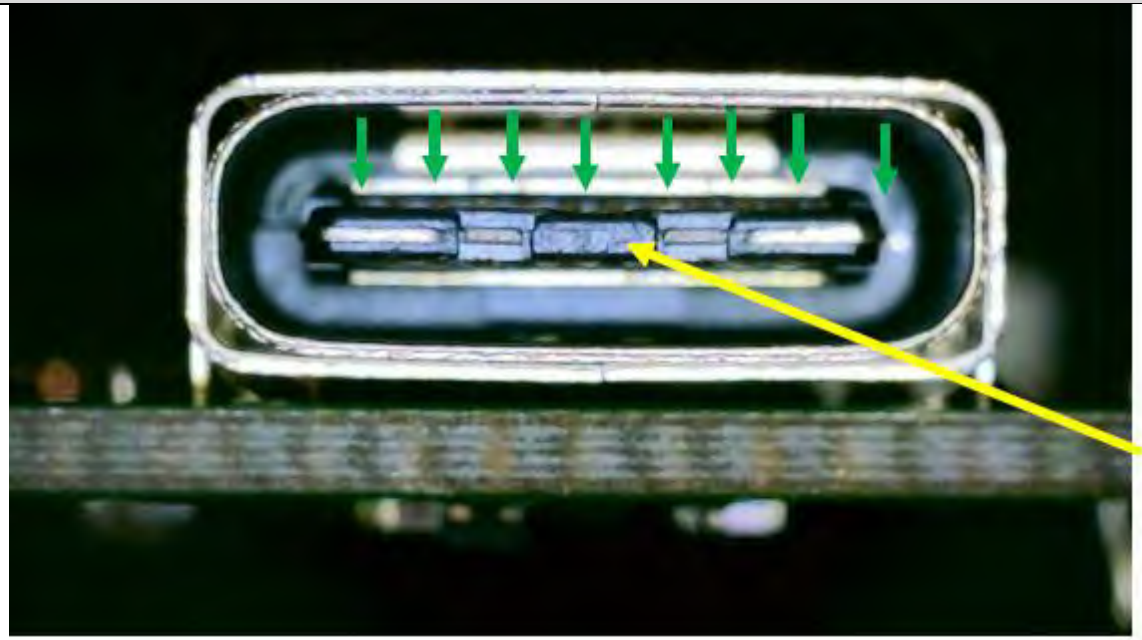
Claim 132 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**132L**] when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of connection terminals of the plug are electrically	The socket structure of the Samsung ViewFinity S80UD is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the green flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as green arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 132 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].

Samsung, EX1004, p. 1806

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

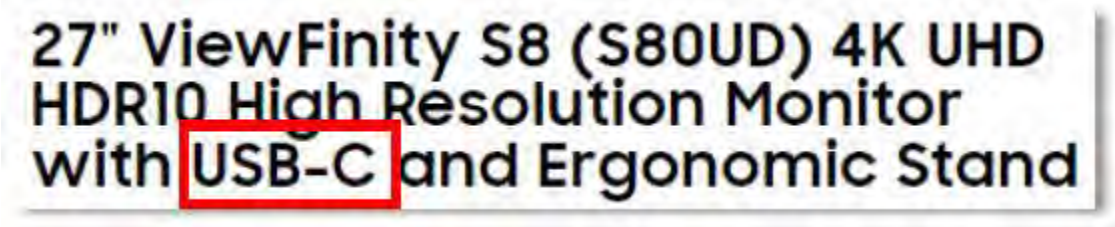
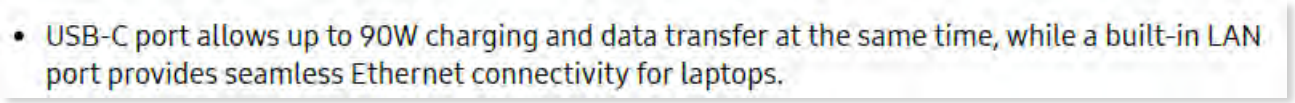
Claim 133 of the '307 Patent	**Evidence of Infringement**
[**133A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung ViewFinity S80UD is a monitor that includes a socket structure with duplex electrical connection. In particular, the Samsung ViewFinity S80UD provides duplex electrical connection via a USB-C port.  *See* https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025).  *Id.*  *Id.*

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

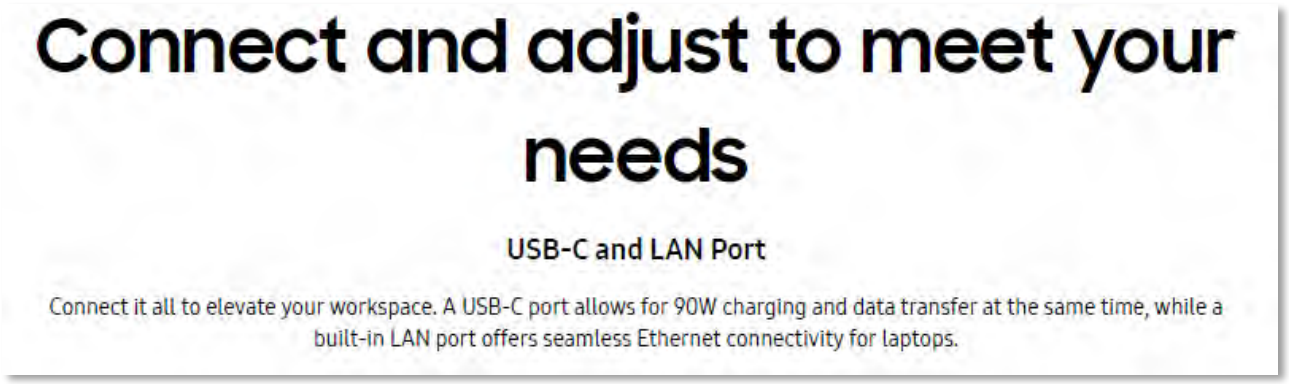
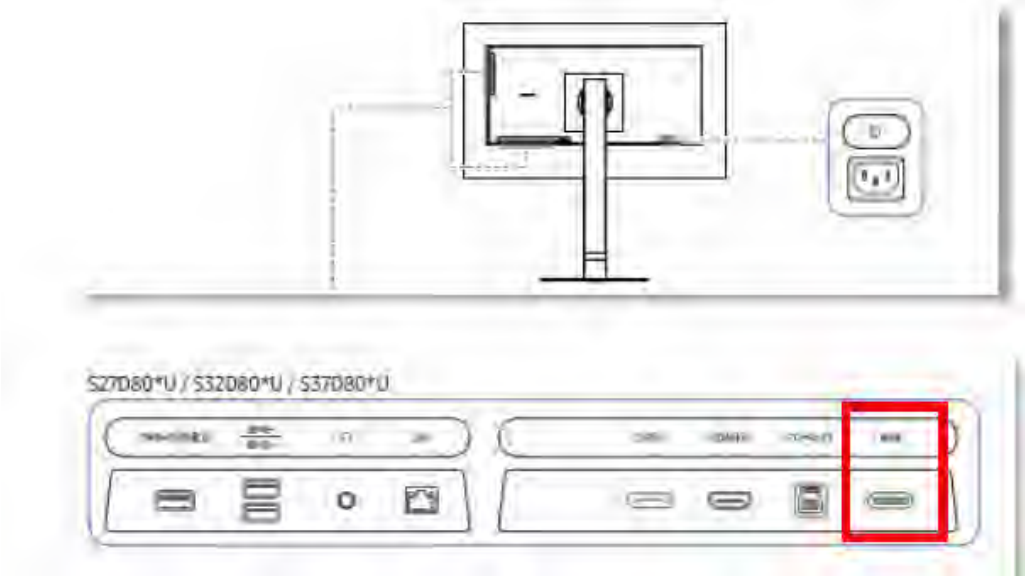
Claim 133 of the '307 Patent	Evidence of Infringement
	 *Id.* 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). In addition, the Samsung ViewFinity S80UD is packaged and compatible with a USB-C cable.  (Image of cable included in packaging) 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

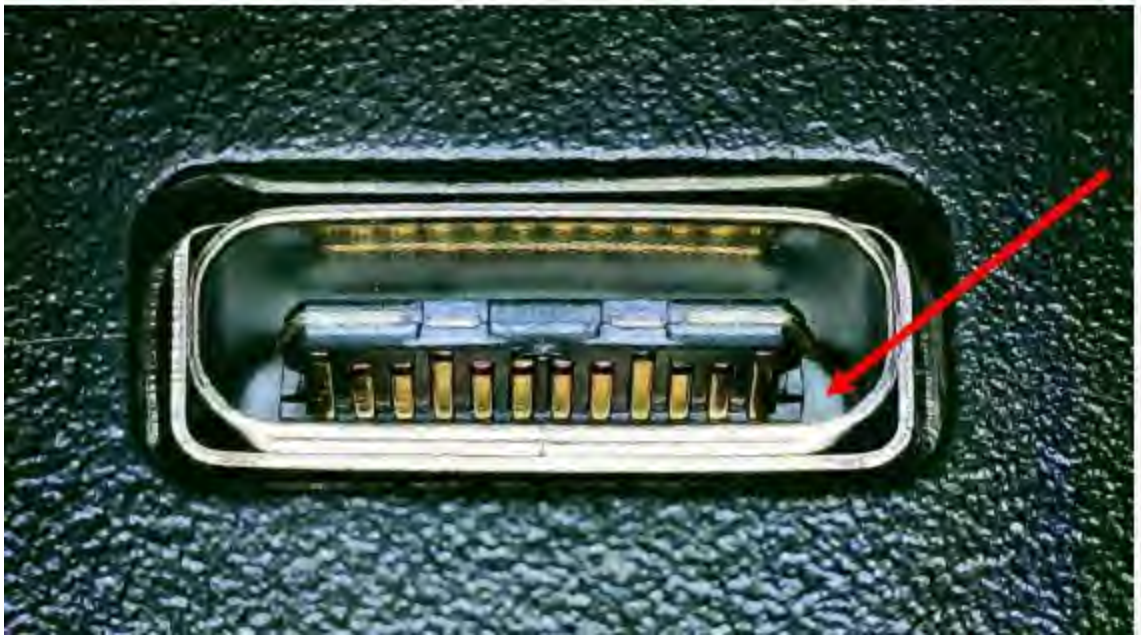
Claim 133 of the '307 Patent	**Evidence of Infringement**
	See https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**133B**] through [**133N**].
[**133B**] a plastic base;	The socket structure of the Samsung ViewFinity S80UD includes a plastic base. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

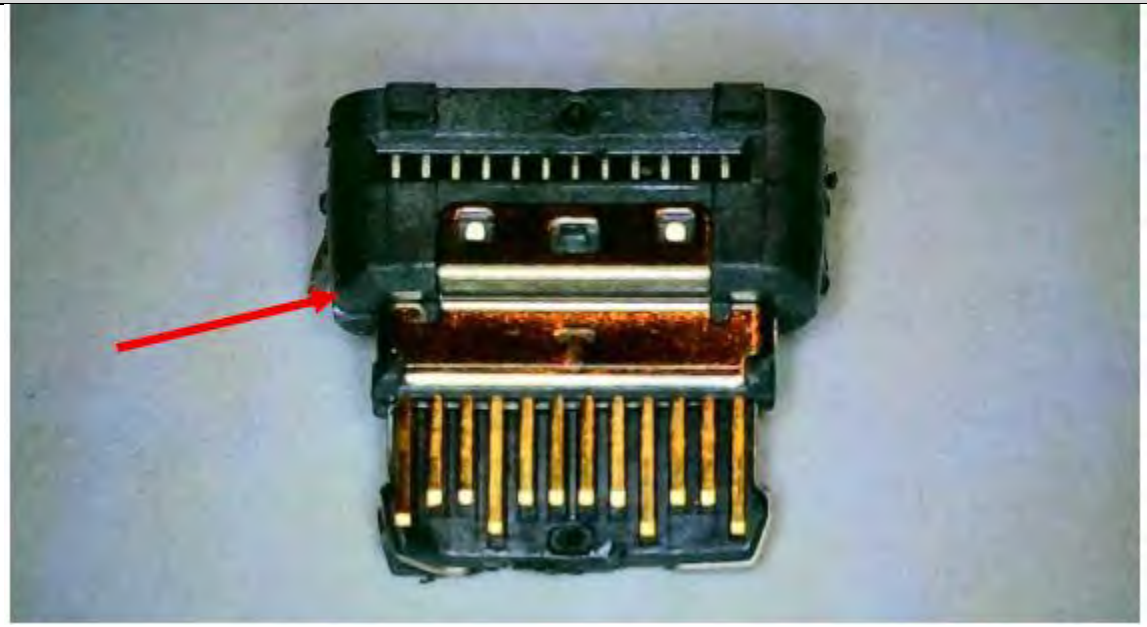
Claim 133 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of ViewFinity S80UD.) *See also* Element [**34B**].
[**133C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung ViewFinity S80UD includes a connection slot. The connection slot is defined by a metal housing.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

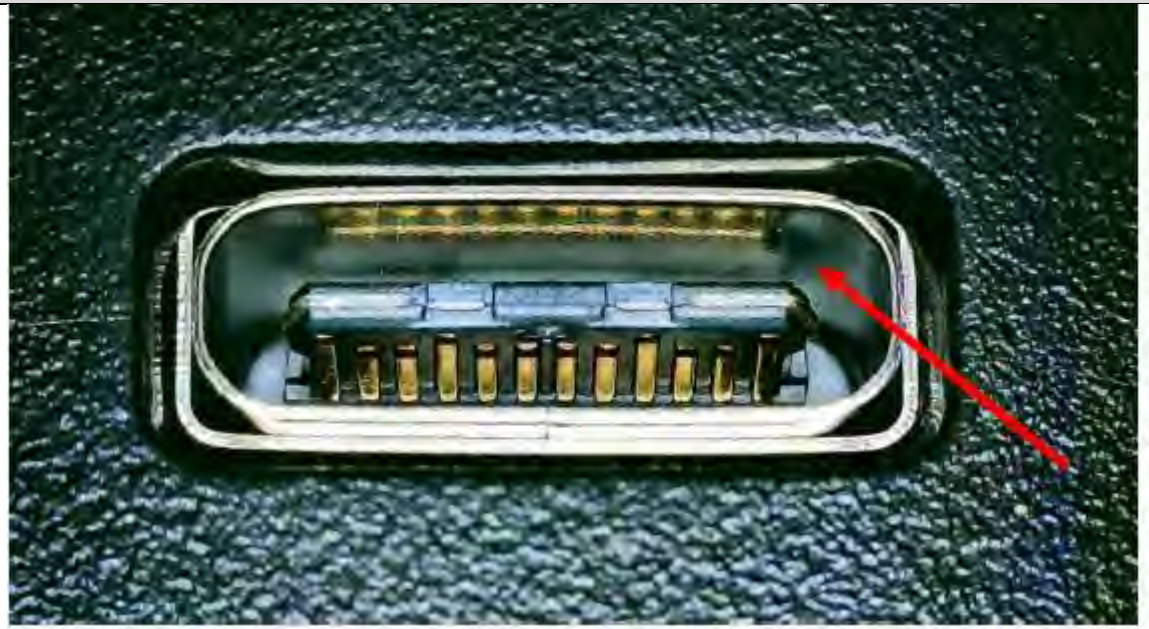
Claim 133 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is generally indicated by the yellow arrow.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

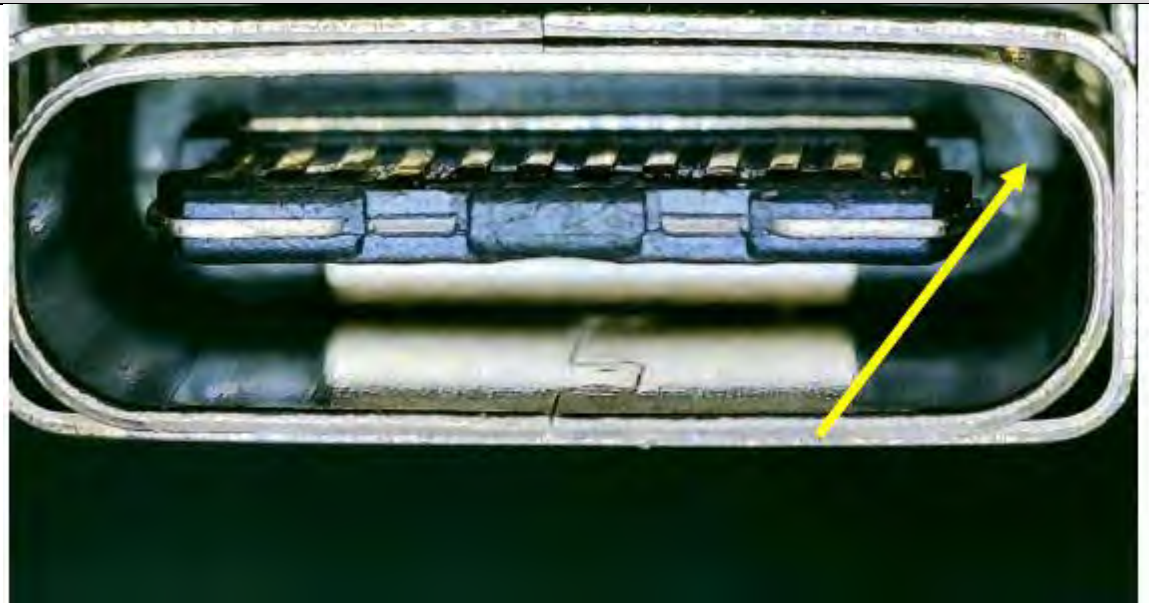
Claim 133 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung ViewFinity S80UD, as described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

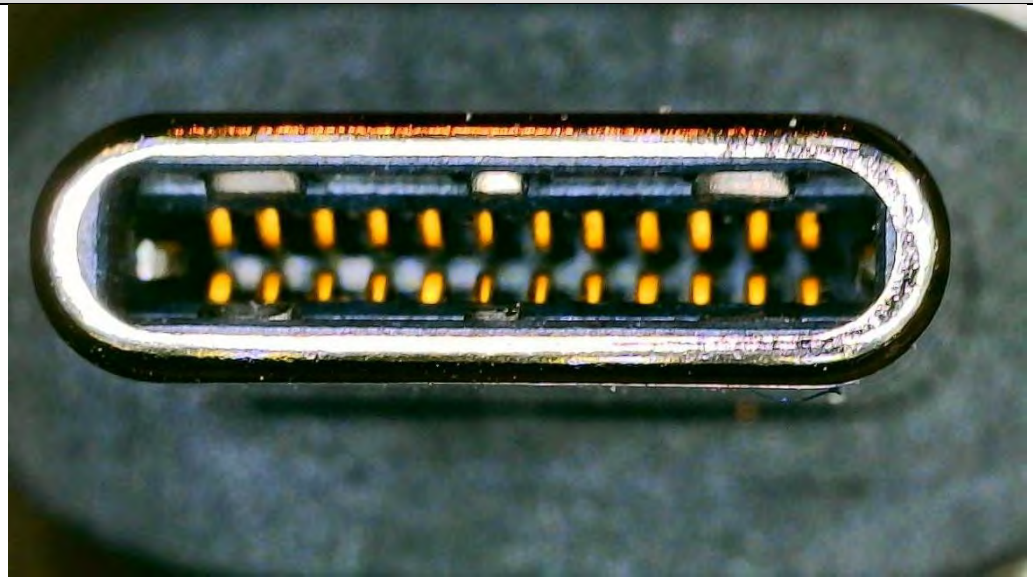
Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**133D**] a tongue, which has a first surface with recesses, and a second surface with recesses, the second surface disposed opposite the first surface,	The socket structure of the Samsung ViewFinity S80UD includes a tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

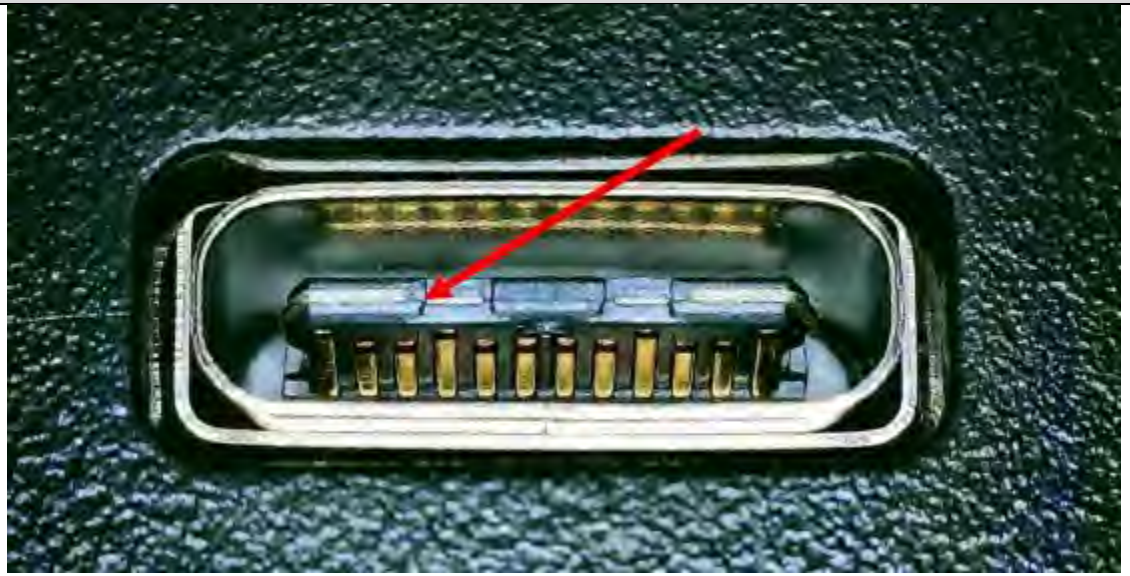
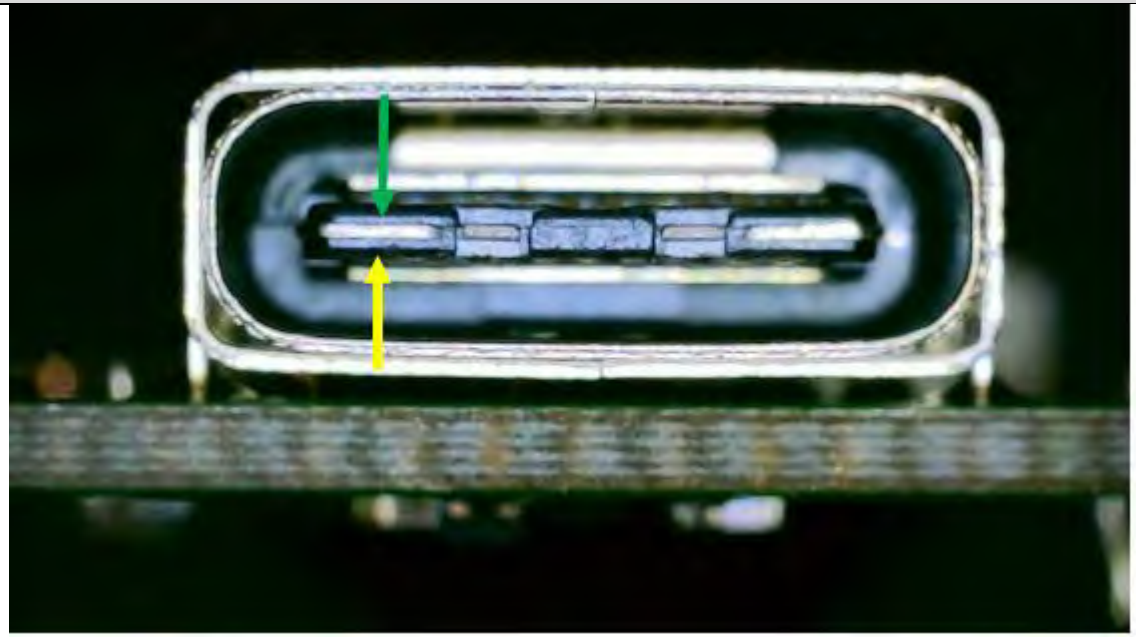
Claim 133 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has recesses.

Samsung, EX1004, p. 1818

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

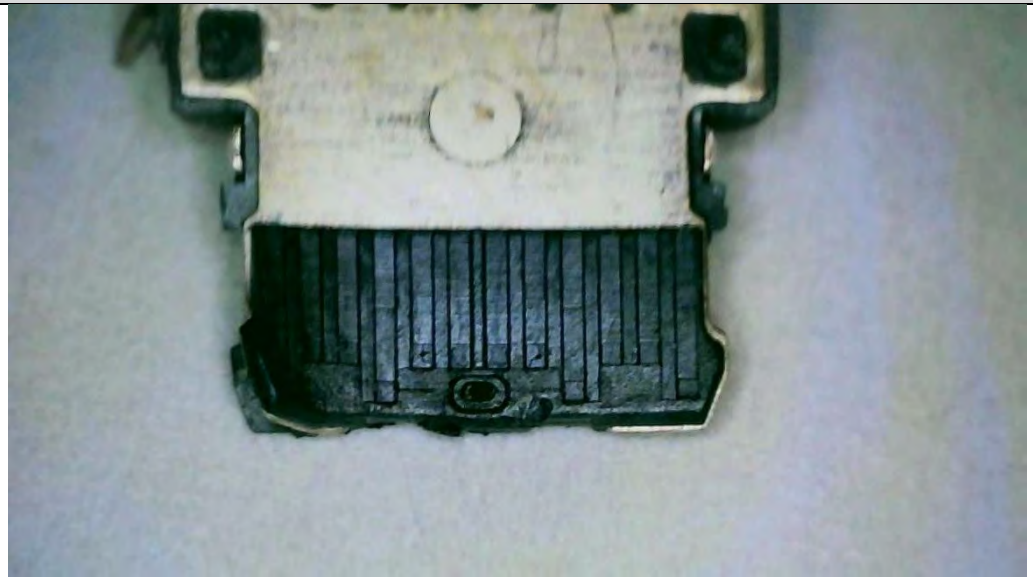
Claim 133 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

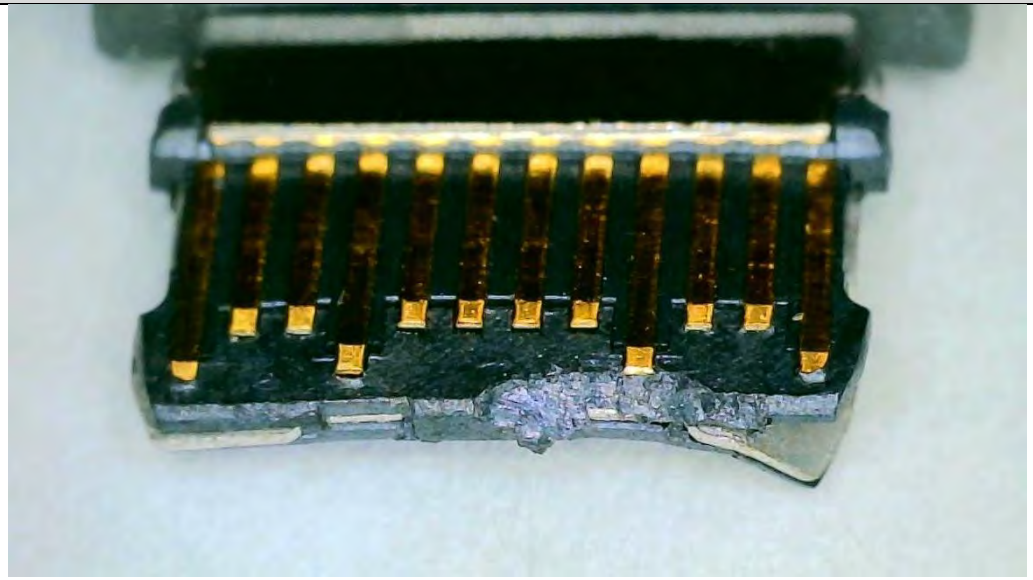
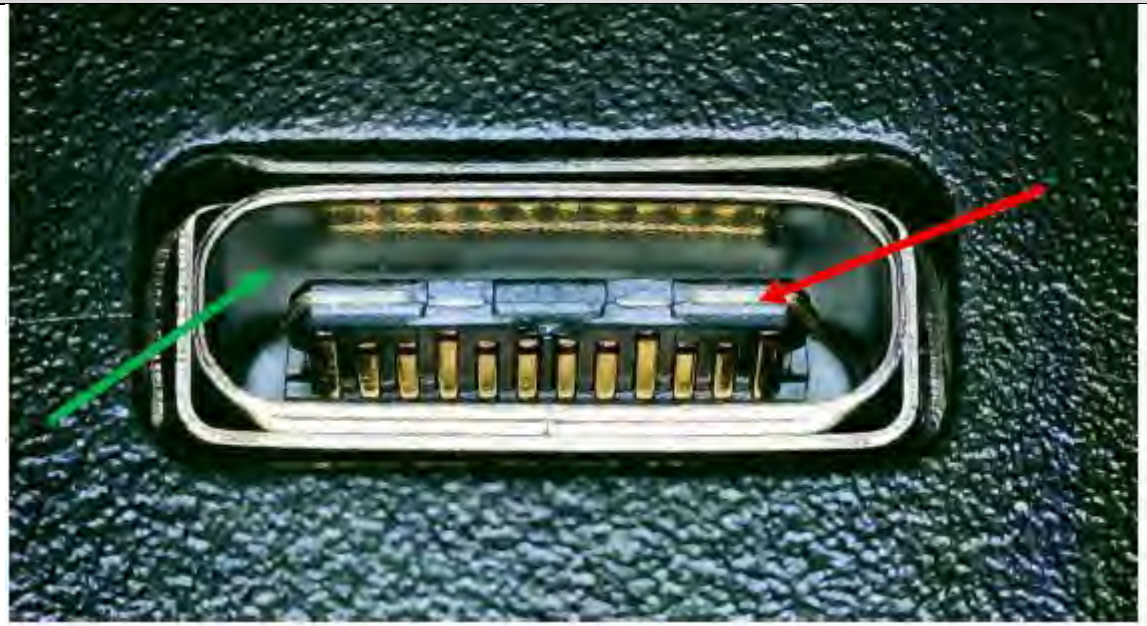
Claim 133 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**130D**].
[**133E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely inserted and	The tongue of the socket structure of the ViewFinity S80UD (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
positioned into the connection slot;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

Samsung, EX1004, p. 1821

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

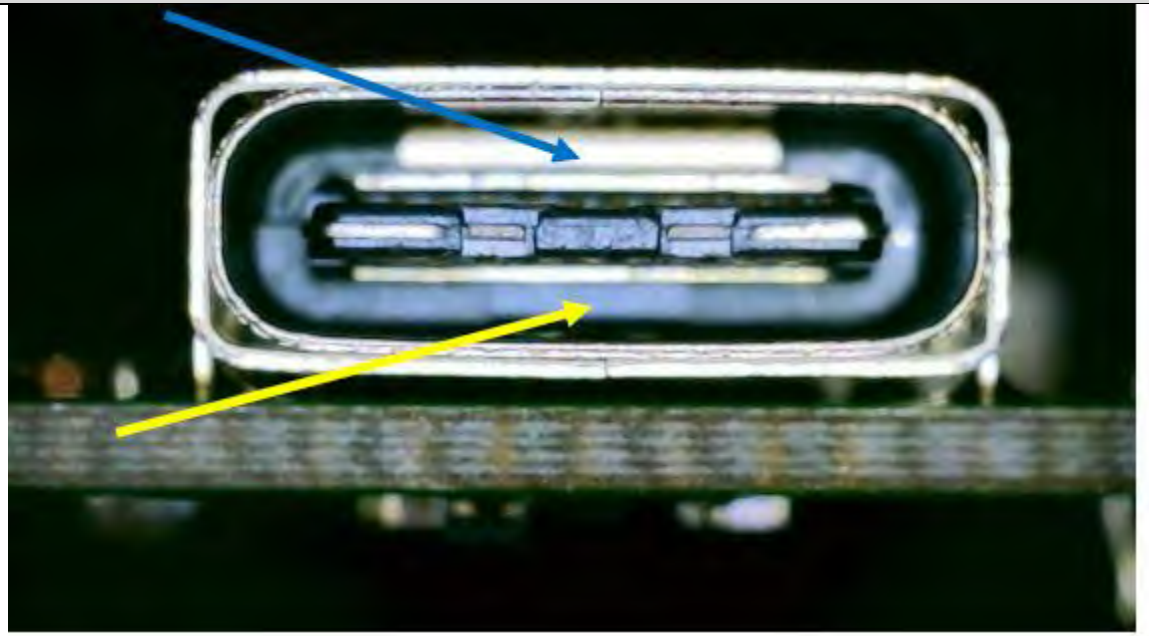
Claim 133 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug inserted and positioned in the connection slot both normally and oppositely.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

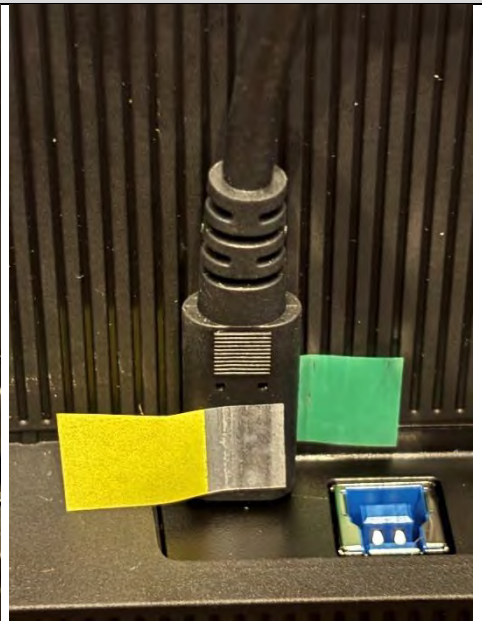
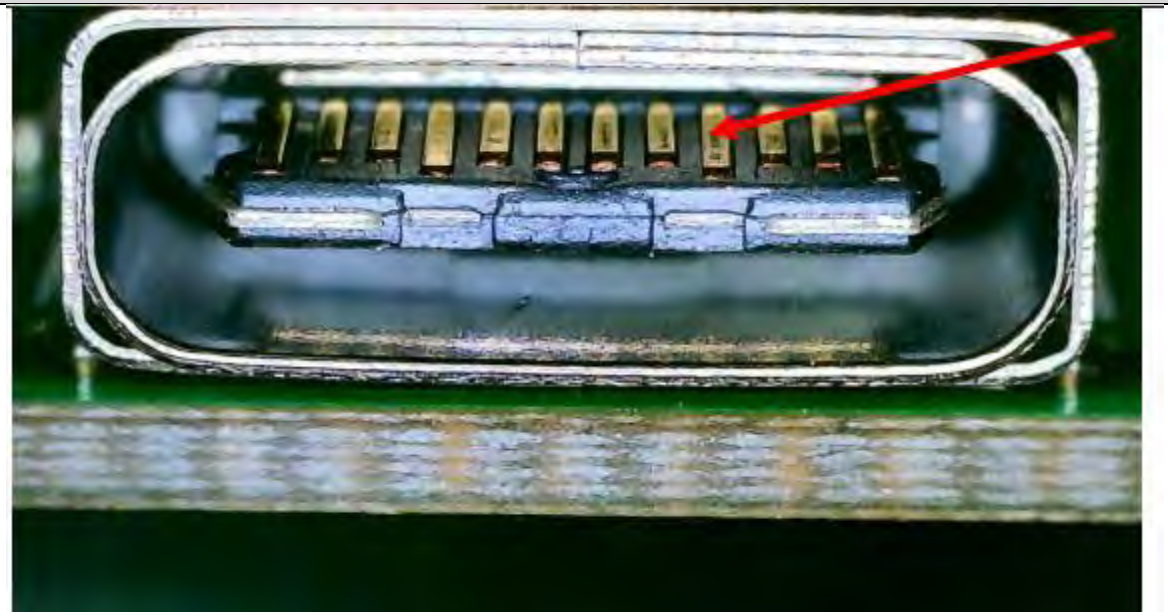
Claim 133 of the '307 Patent	Evidence of Infringement
	  The green and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the socket structure of the Samsung ViewFinity S80UD when the side of the plug indicated with a green flag is on top (first image) and when the side of the plug indicated with the green flag is on bottom (second picture). *See also* Element [**34E**].
[**133F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is	The socket structure of the Samsung ViewFinity S80UD includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
electrically connected to a respective first pin extending out of the plastic base; and	

Samsung, EX1004, p. 1824

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

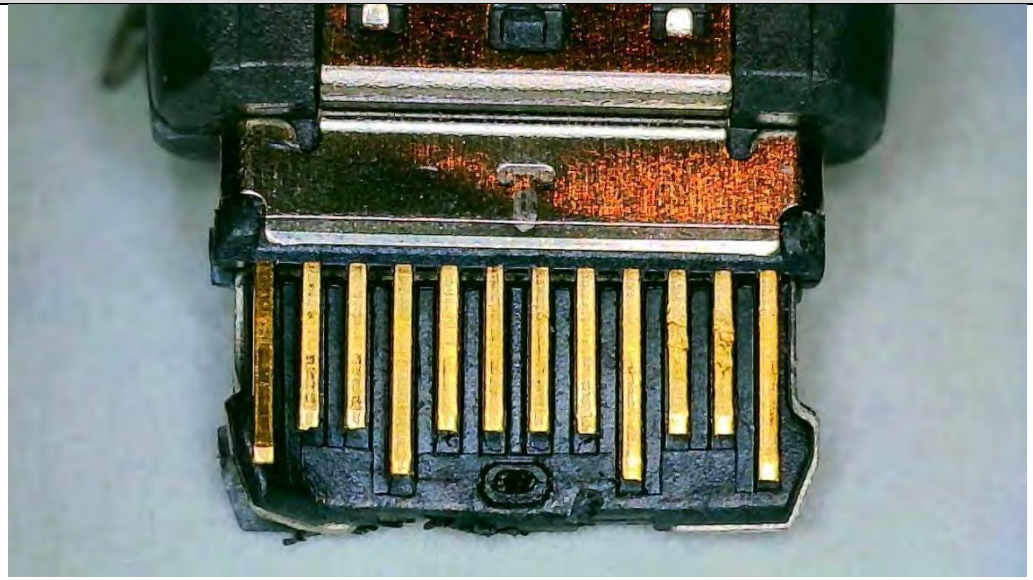
Claim 133 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve first contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image of separated components of socket structure.)

Samsung, EX1004, p. 1826

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

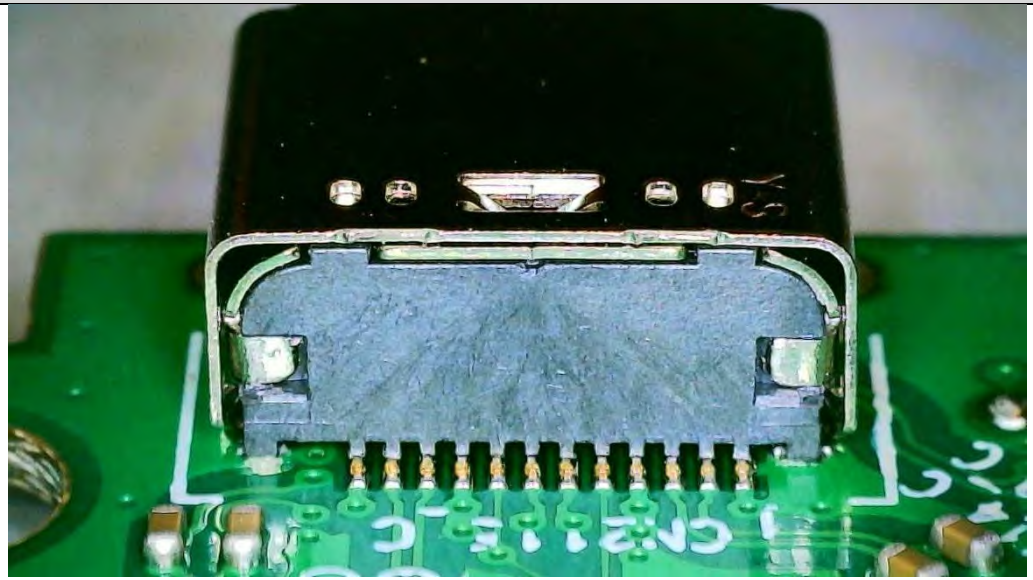
Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure showing pins connected to PCB.) Note that the pins extending out of the plastic base are arranged in two rows, such that the image above shows only the first pins. The second pins are located behind the first pins. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

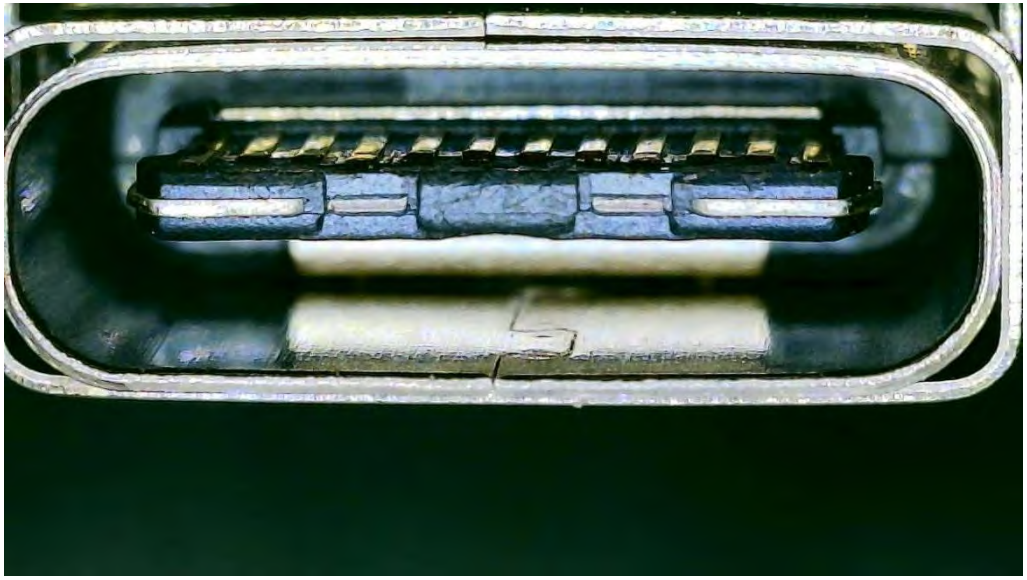
Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

See also Element [**34F**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	**Evidence of Infringement**
[**133G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung ViewFinity S80UD includes at least one row of second contacts separately arranged on the second surface of the tongue. 

Samsung, EX1004, p. 1829

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

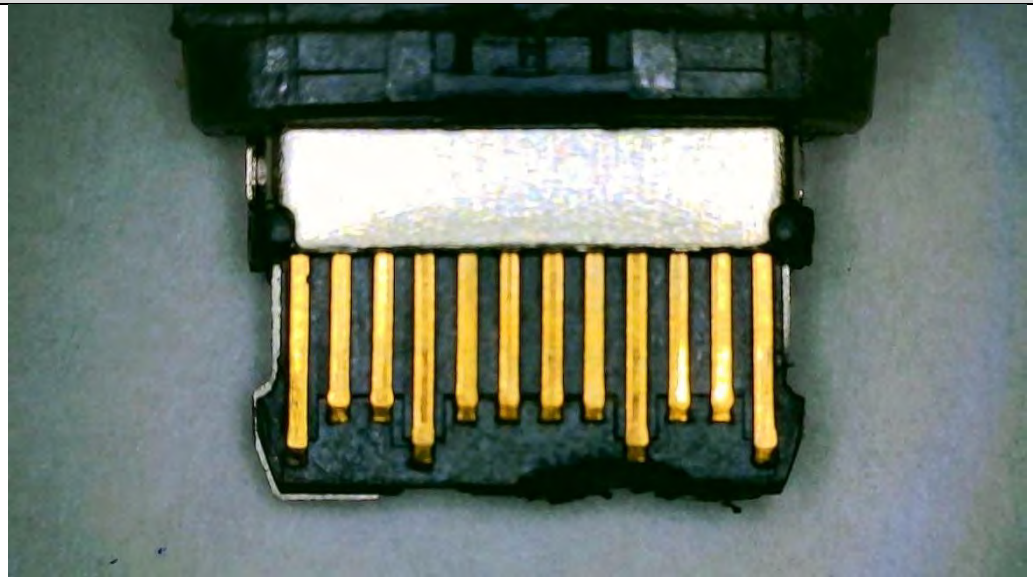
Claim 133 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung ViewFinity S80UD.) *See also* Element [**34G**].
[**133H**] each of the second contacts is electrically connected to a respective second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve second contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base.

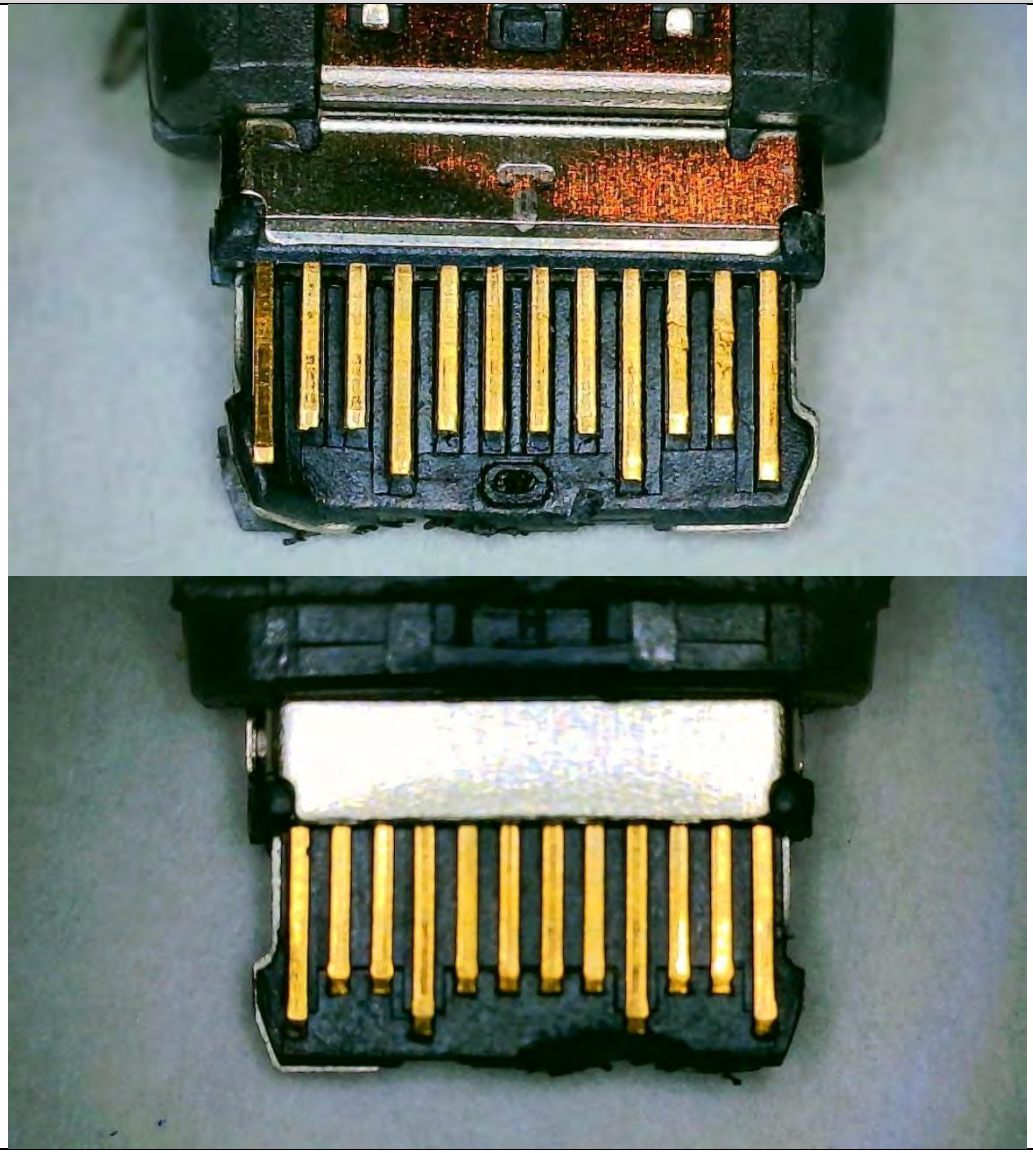
See also element [**34H**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	**Evidence of Infringement**
[**133I**] the socket structure is operative to simultaneously electrically connect via the first and second contacts;	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

Samsung, EX1004, p. 1833

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1834

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

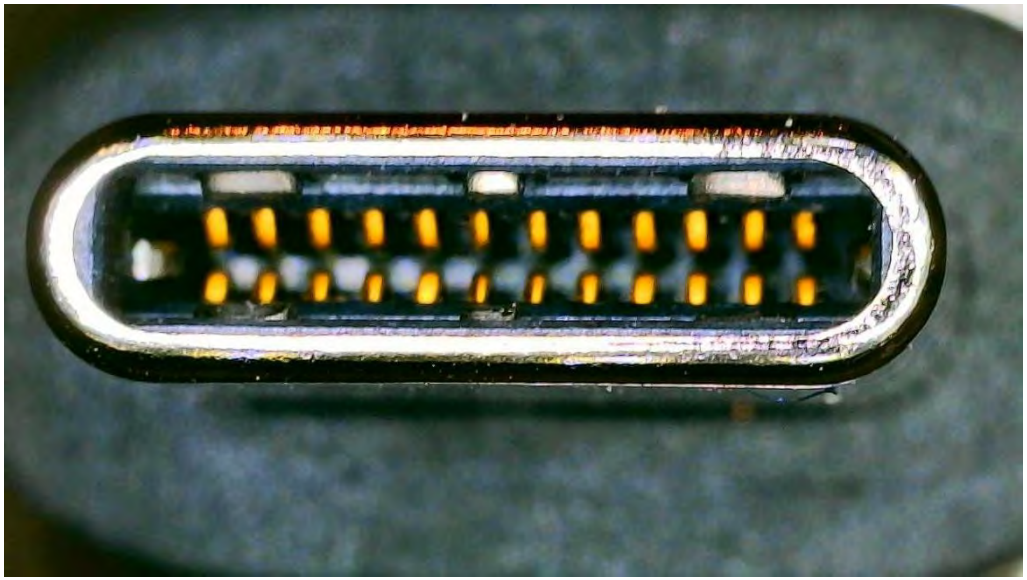
Claim 133 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
	See also Element [**34I**].
[**133J**] some of the at least one row of first contacts has a functional reverse mirror configuration relative to some of the at least one row of second contacts, and the socket structure is thereby configured for two operational states:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image). 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

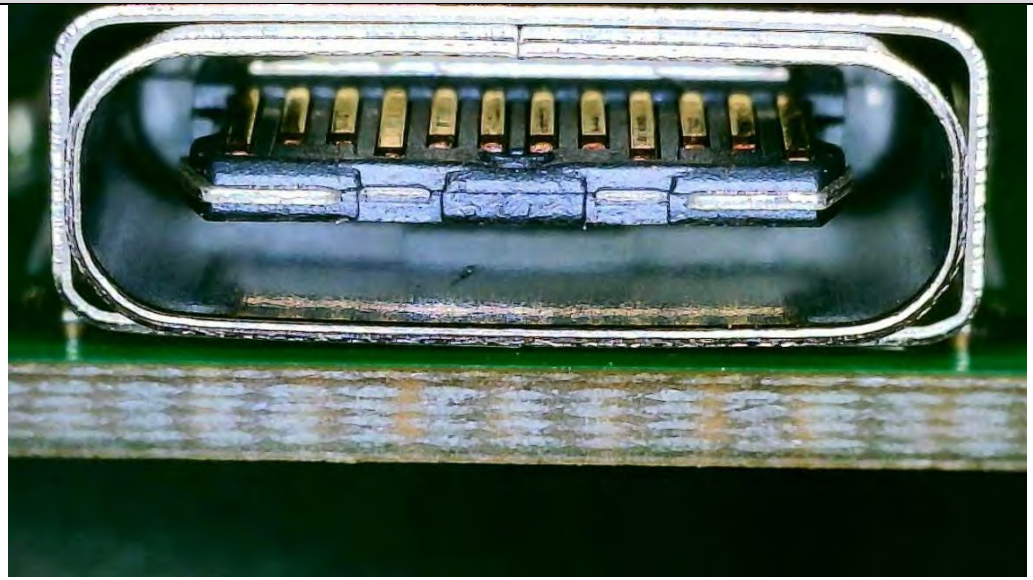
Claim 133 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung ViewFinity S80UD has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the *USB 2.0* differential pair – Position 1	Second	B7	Dn2	Negative half of the *USB 2.0* differential pair – Position 2	Second
A7	Dn1	Negative half of the *USB 2.0* differential pair – Position 1	Second	B6	Dp2	Positive half of the *USB 2.0* differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**133K**] through [**133N**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
[**133K**] a first operational state when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts and the tongue is disposed within the connection slot,	The Samsung ViewFinity S80UD is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the green flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as green arrows in the image below. In the normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

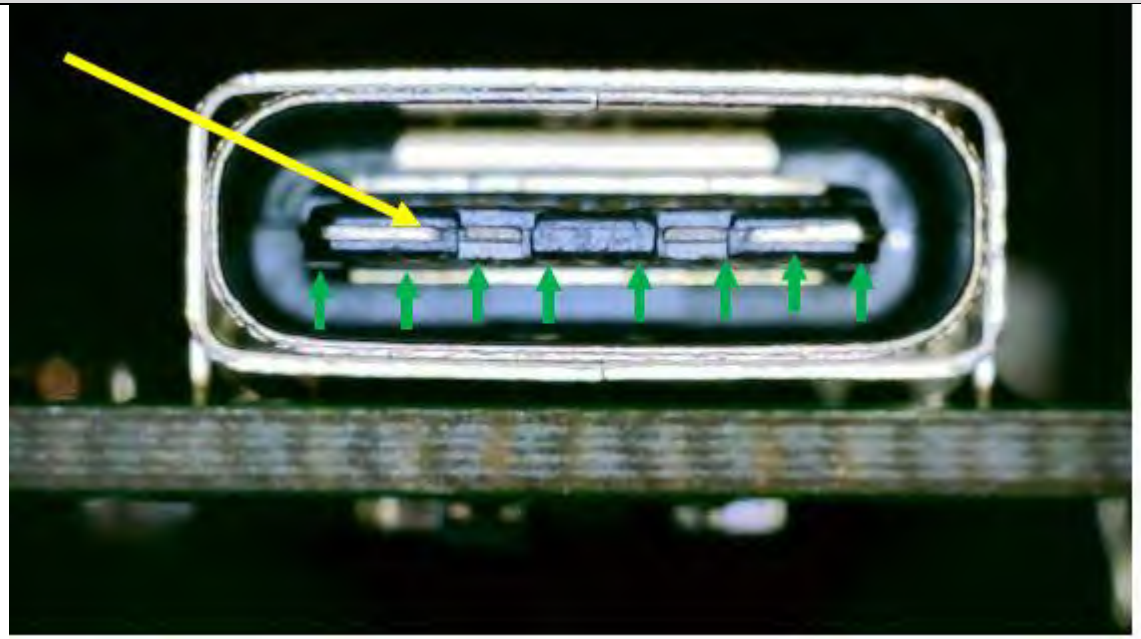
Claim 133 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

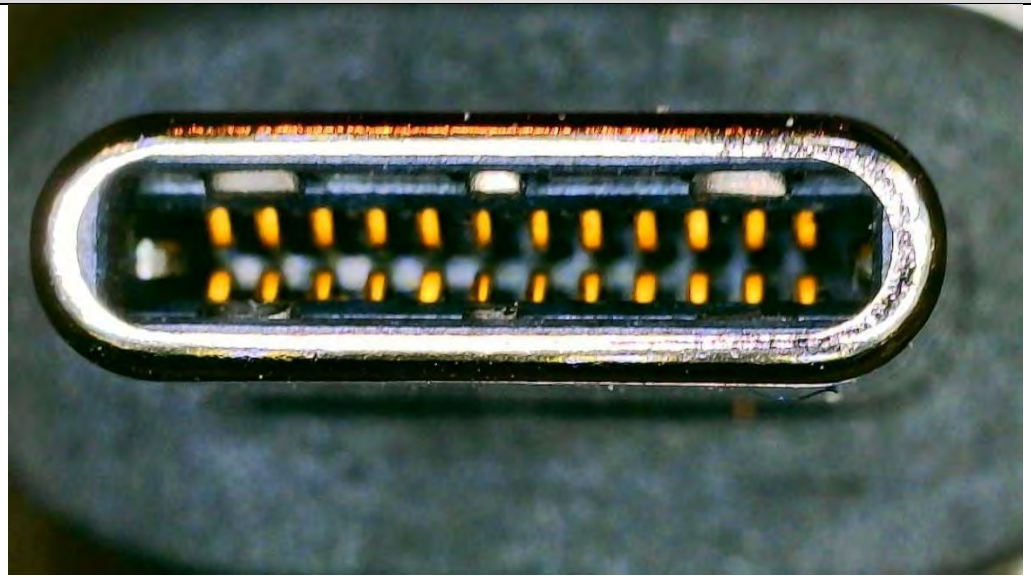
Claim 133 of the '307 Patent	Evidence of Infringement
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**133L**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue; and	The socket structure of the Samsung ViewFinity S80UD is configured for a first operational state as described above in connection with element [**133K**]. In this configuration, the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue. The up and down chambers are separated by red lines, and are indicated by green and yellow arrows respectively, in the image below.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

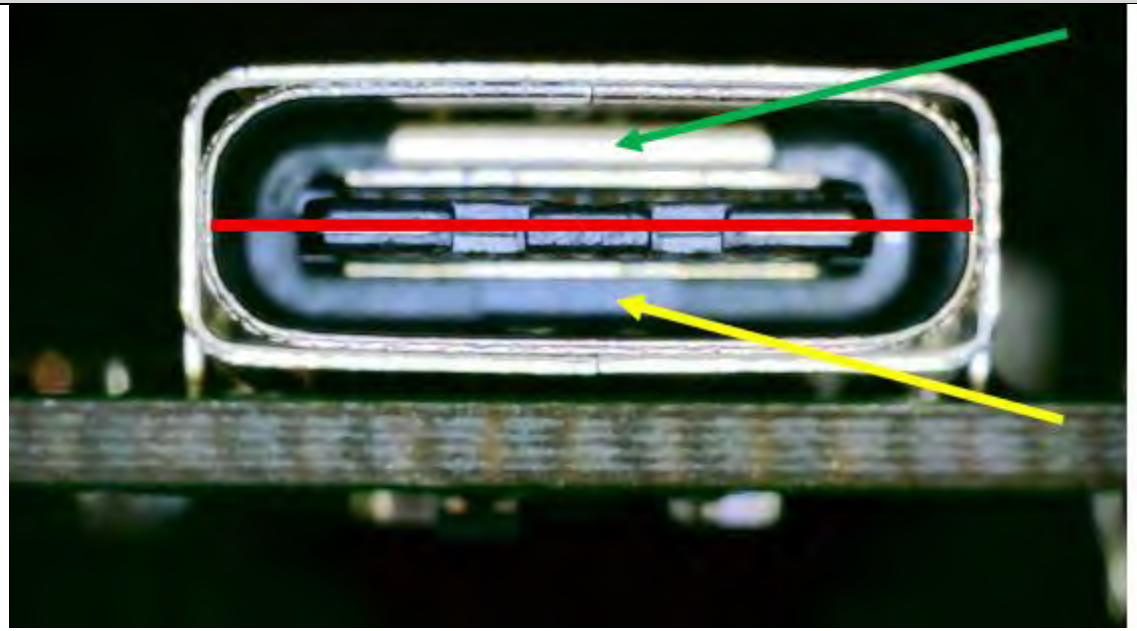
Claim 133 of the '307 Patent	Evidence of Infringement
	 The left and right chambers are separated by a red line, and are indicated by blue and orange arrows, respectively, in the image below.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

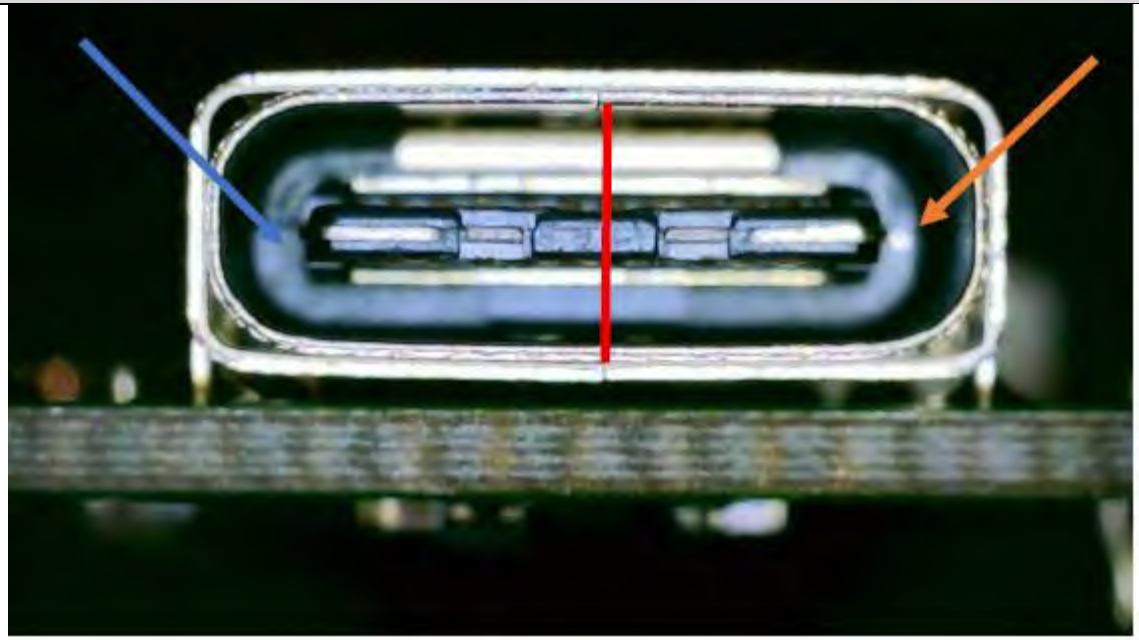
Claim 133 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34L**].
[**133M**] a second operational state when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing	The socket structure of the Samsung ViewFinity S80UD is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 133 of the '307 Patent	Evidence of Infringement
the first surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of first contacts, and the tongue is disposed within the connection slot,	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the green flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as green arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

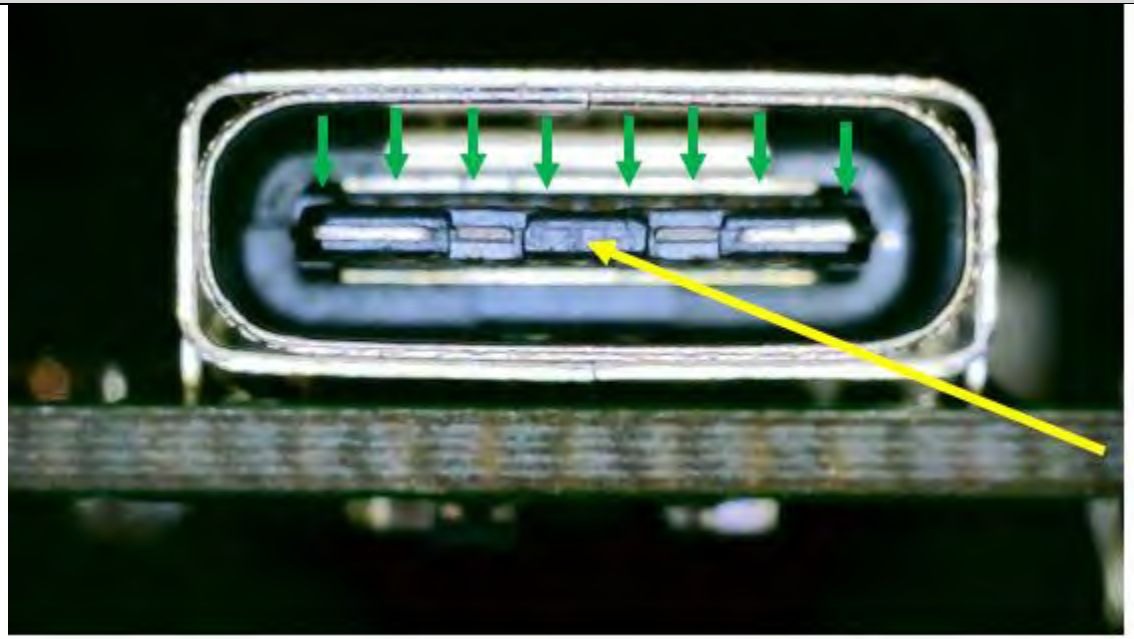
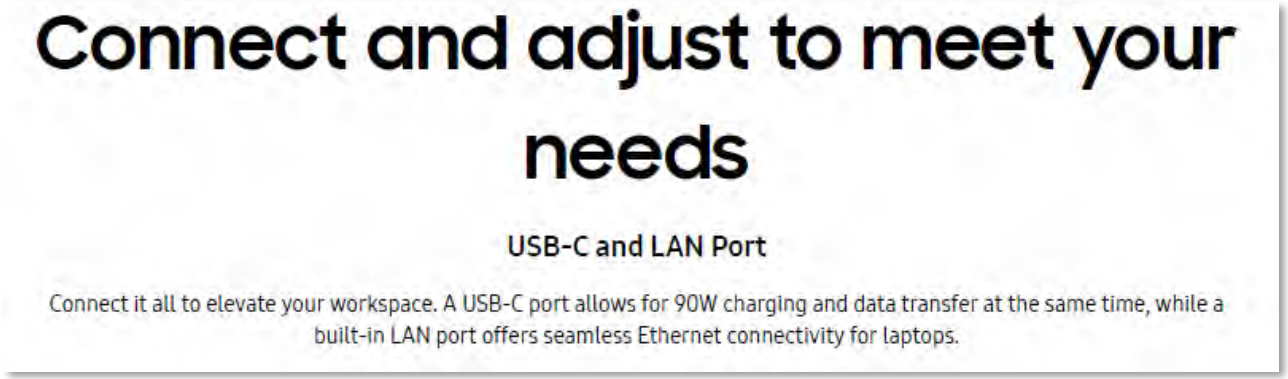
Claim 133 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].
[**133N**] wherein the connection slot is symmetric with symmetric up and down chambers, and symmetric left and right chambers around the tongue.	In the second operational state, the connection slot is symmetrical with symmetric up and down chambers, and symmetric left and right chambers around the tongue, as described above in connection with element [**133L**]. *See also* Element [**34N**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

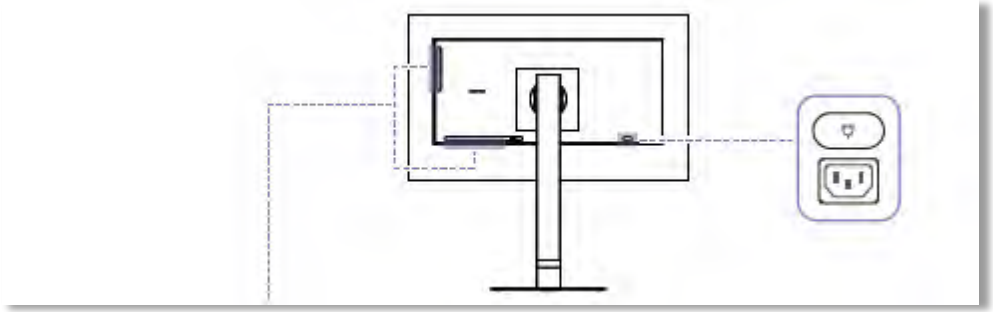
Claim 134 of the '307 Patent	**Evidence of Infringement**
[**134A**] A socket structure with duplex electrical connection, the socket structure comprising:	The Samsung ViewFinity S80UD is a monitor that includes a socket structure with duplex electrical connection. In particular, the Samsung ViewFinity S80UD provides duplex electrical connection via a USB-C port.  *See* https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025).  *Id.* • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops. *Id.*

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement



Id.



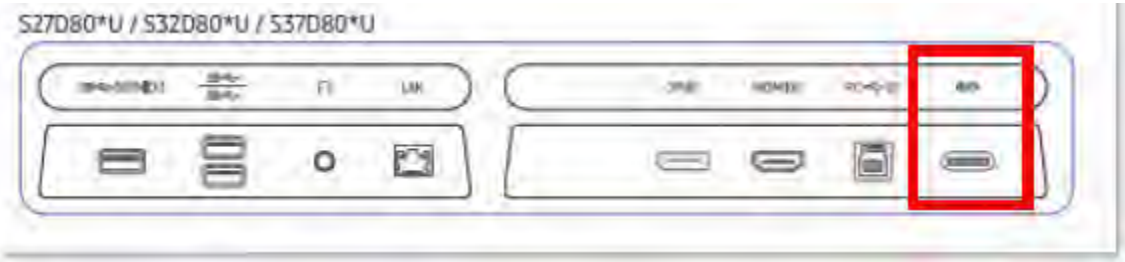


EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

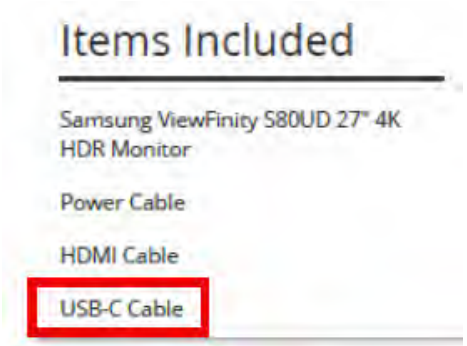
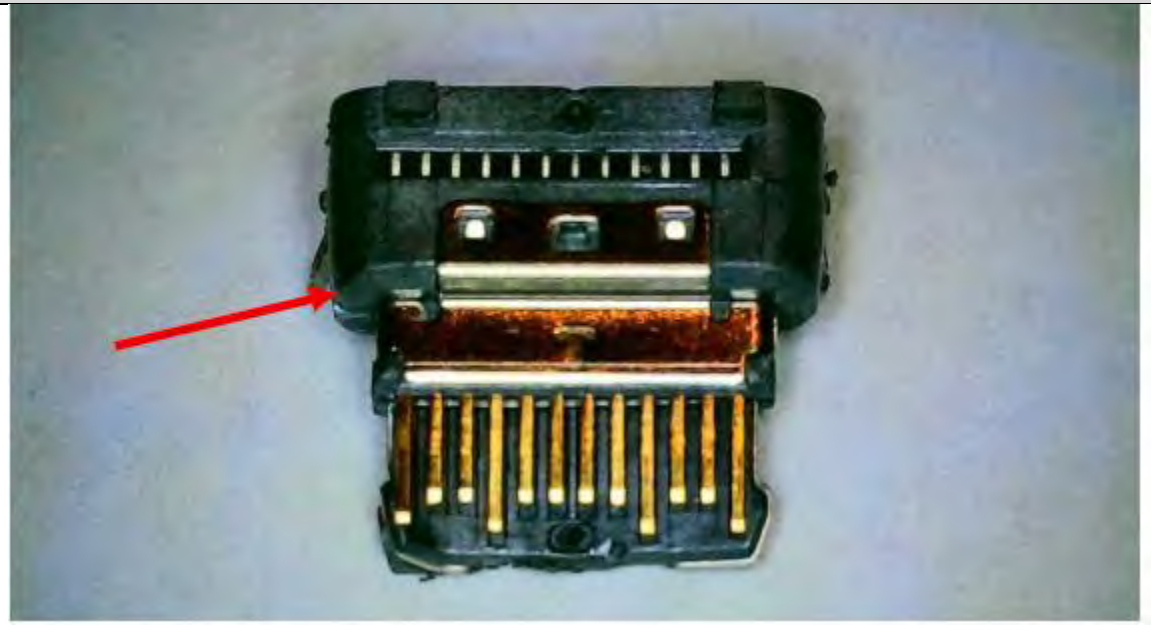
Claim 134 of the '307 Patent	Evidence of Infringement
	User Guide for Samsung S27D80*, available at https://downloadcenter.samsung.com/content/UM/202502/20250226033925001/BN81-25930A-03_WUG_S60D%20S60UD%20S70D%20S80D%20S80UD_NA%20LATIN_ENG_250219.0.pdf (accessed June 25, 2025). In addition, the Samsung ViewFinity S80UD is packaged and compatible with a USB-C cable.  (Image of cable included in packaging) 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	**Evidence of Infringement**
	See https://www.bhphotovideo.com/c/product/1815153-REG/samsung_ls27d802uanxgo_s80ud_27_4k_uhd.html (accessed June 25, 2025). *See also* Element [**34A**]. Further details regarding the socket structure are described below in connection with elements [**134B**] through [**134L**].
[**134B**] a plastic base;	The socket structure of the Samsung ViewFinity S80UD includes a plastic base. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 (Images of socket structure of ViewFinity S80UD.) *See also* Element [**34B**].
[**134C**] a connection slot, which is disposed in front of the plastic base and configured to be connected to a plug having at least one row of connection terminals;	The socket structure of the Samsung ViewFinity S80UD includes a connection slot. The connection slot is defined by a metal housing.

Samsung, EX1004, p. 1851

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

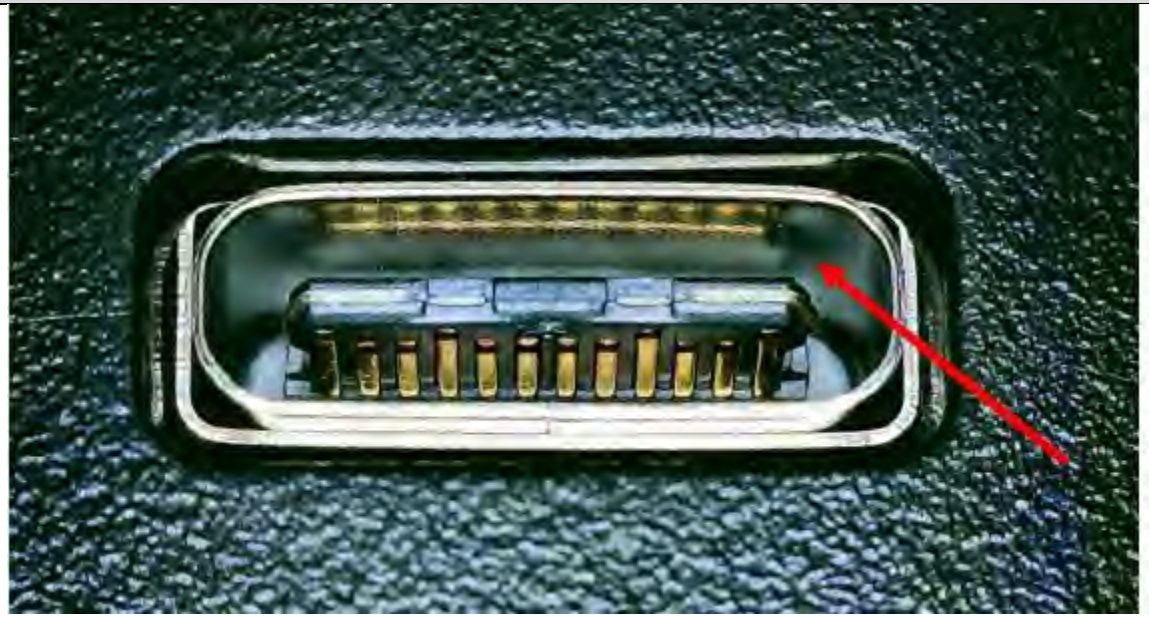
Claim 134 of the '307 Patent	Evidence of Infringement
	 The connection slot is disposed in front of the plastic base, which is generally indicated by the yellow arrow.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

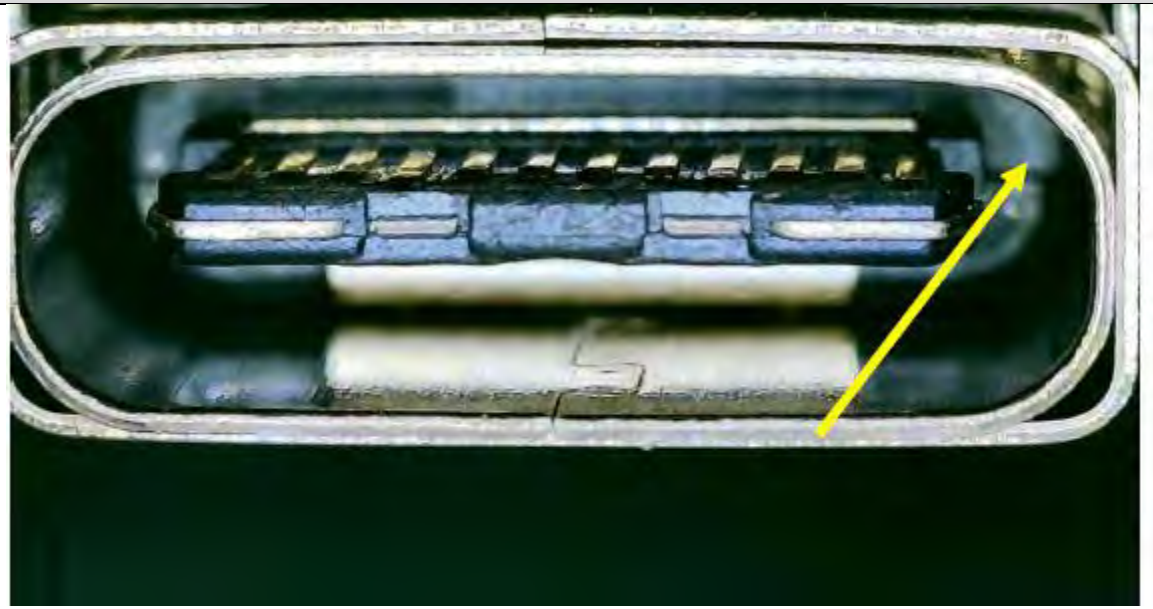
Claim 134 of the '307 Patent	Evidence of Infringement
	 The connection slot is configured to be connected to a plug having at least one row of connection terminals. For example, the connection slot is configured to be connected to a USB-C plug such as the USB-C plug included with the Samsung ViewFinity S80UD, as described above in connection with element [**34A**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 USB-C cables include at least one row of connection terminals.

Samsung, EX1004, p. 1854

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

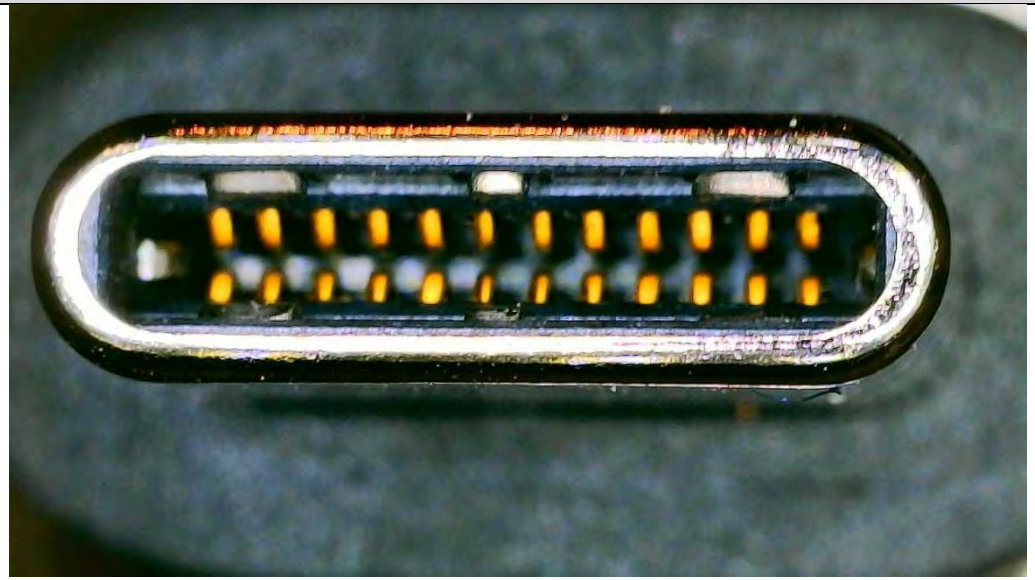
Claim 134 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable plug showing top and bottom rows of connection terminals.) *See also* Element [**34C**].
[**134D**] a tongue, which has a top side with a first surface with grooves, and bottom side with a second surface with grooves, the second surface disposed opposite the first surface,	The socket structure of the Samsung ViewFinity S80UD includes a tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

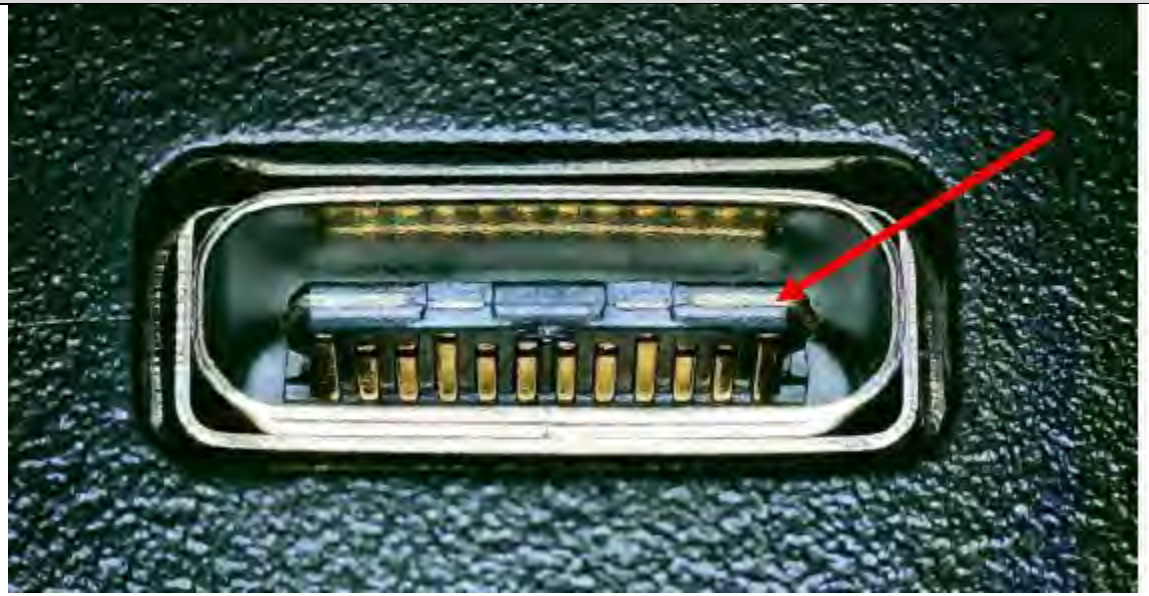
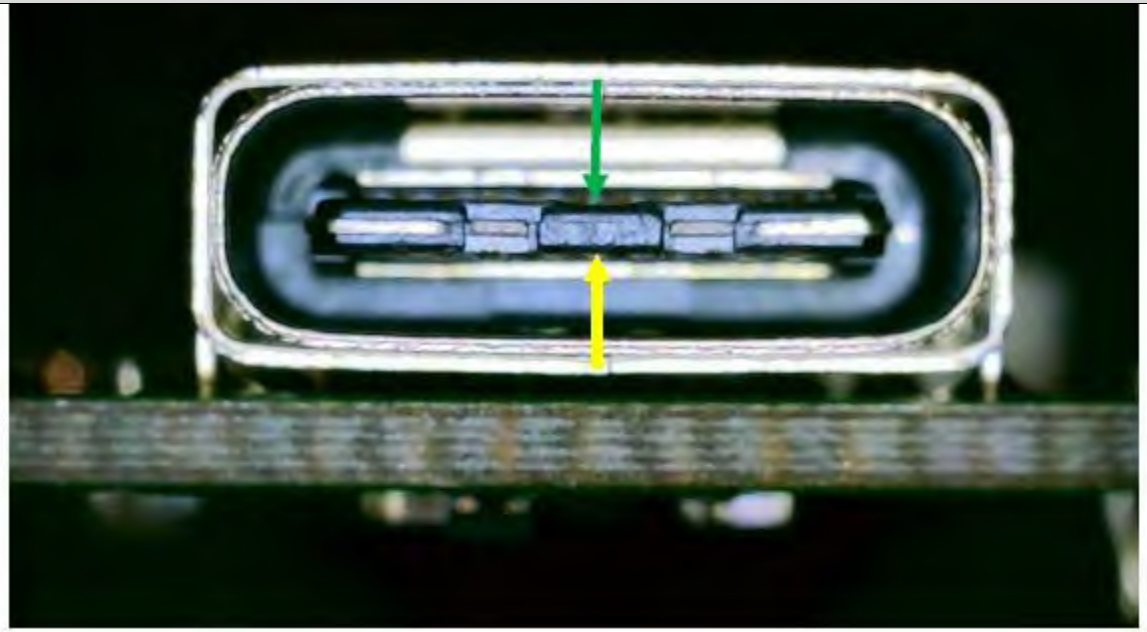
Claim 134 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 The tongue includes a first (top) surface and a second (bottom) surface opposite the first surface, as indicated by the green and yellow arrows respectively.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 Each of the first and second surfaces has grooves.

Samsung, EX1004, p. 1858

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

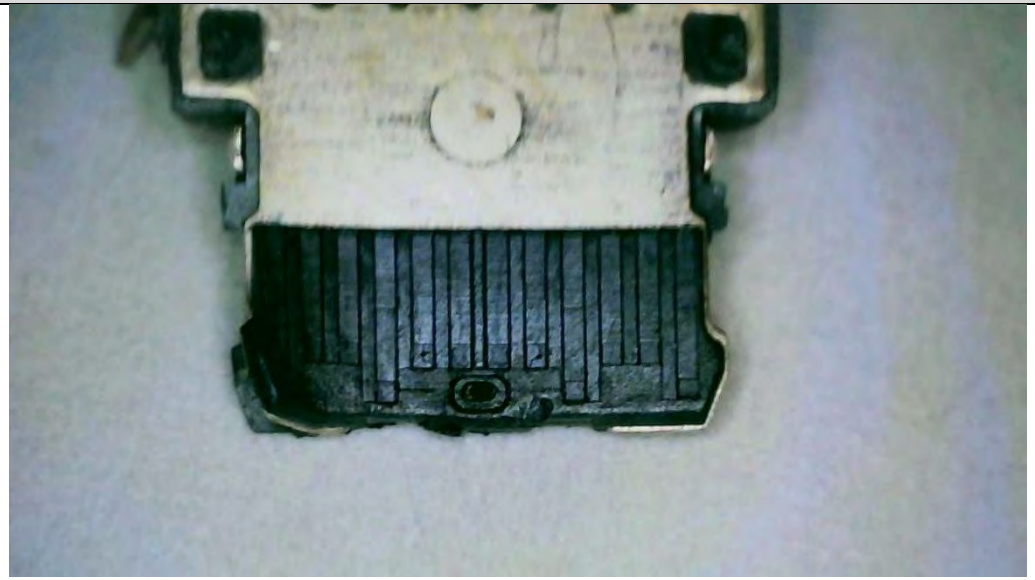
Claim 134 of the '307 Patent	Evidence of Infringement
	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

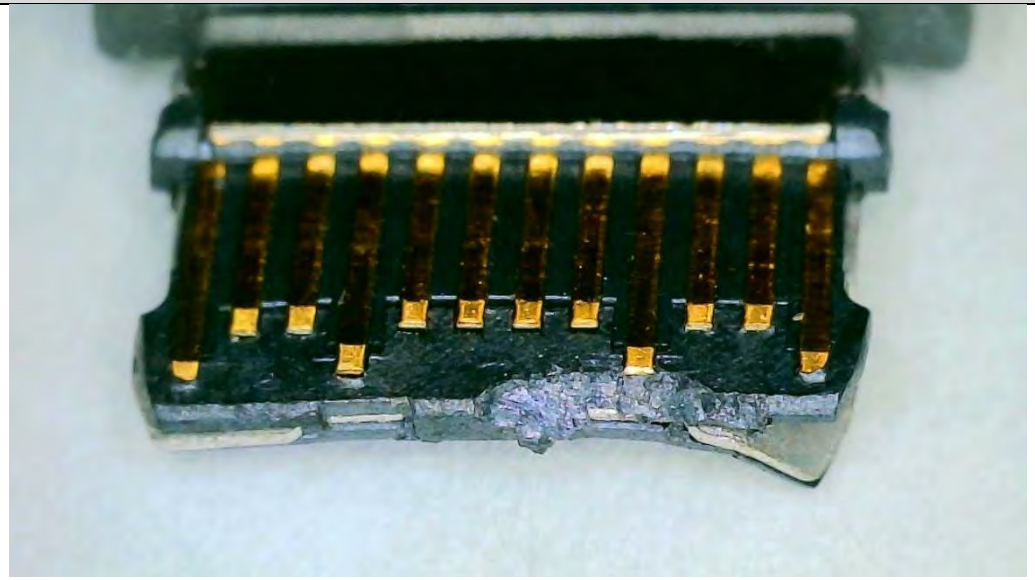
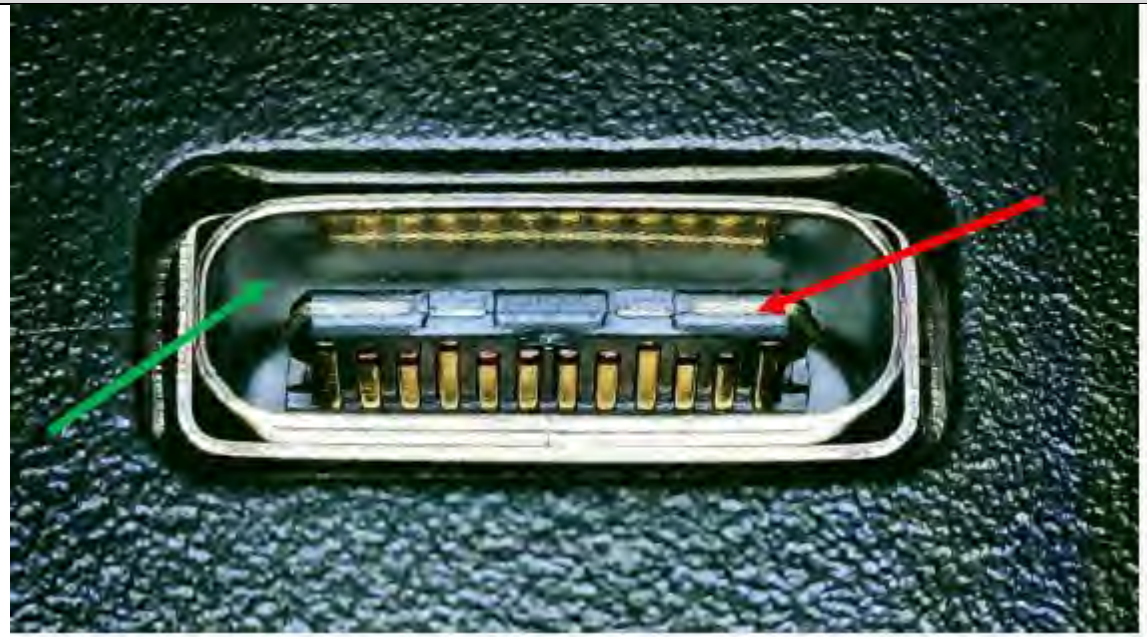
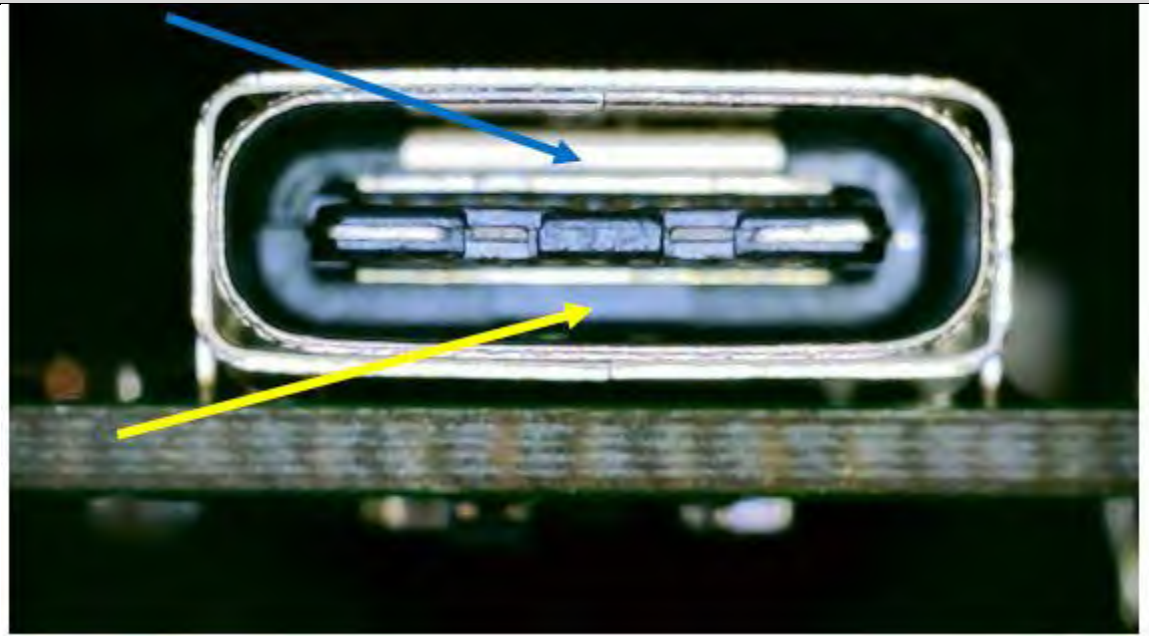
Claim 134 of the '307 Patent	**Evidence of Infringement**
	 *See also* Element [**34D**]. The top side corresponds to the side with the first surface as described in element [**34D**], and the bottom side corresponding to the side with the second surface as described in element [**34D**].
[**134E**] the tongue being disposed on one end of the plastic base and within the connection slot, such that chambers of the connection slot on two sides of the tongue allow the plug to be normally and oppositely	The tongue of the socket structure of the ViewFinity S80UD (indicated by the red arrow) is disposed within the connection slot (indicated by the green arrow). It is located on one end of the plastic base, which is shown in the background.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
inserted and positioned into the connection slot;	 The placement of the tongue within the connection slot provides a chamber on the first (top) side of the connection slot (indicated by the blue arrow) and a chamber on the second (bottom) side of the connection slot (indicated by a yellow arrow).

Samsung, EX1004, p. 1861

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 These chambers allow a USB-C plug inserted and positioned in the connection slot both normally and oppositely.

Samsung, EX1004, p. 1862

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

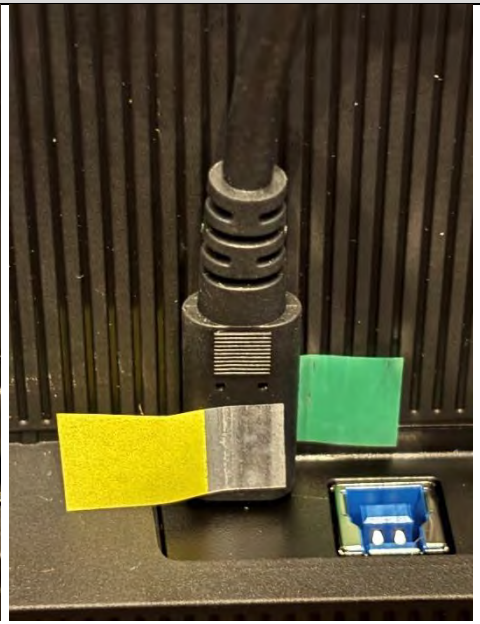
Claim 134 of the '307 Patent	Evidence of Infringement
	  The green and yellow flags in the images above are attached to the same side of the plug in both pictures, showing that the plug can be connected to the socket structure of the Samsung ViewFinity S80UD when the side of the plug indicated with a green flag is on top (first image) and when the side of the plug indicated with the green flag is on bottom (second picture). *See also* Element [**34E**].
[**134F**] at least one row of first contacts separately arranged on the first surface of the tongue, wherein each of the first contacts is	The socket structure of the Samsung ViewFinity S80UD includes at least one row of first contacts separately arranged on the first surface of the tongue.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

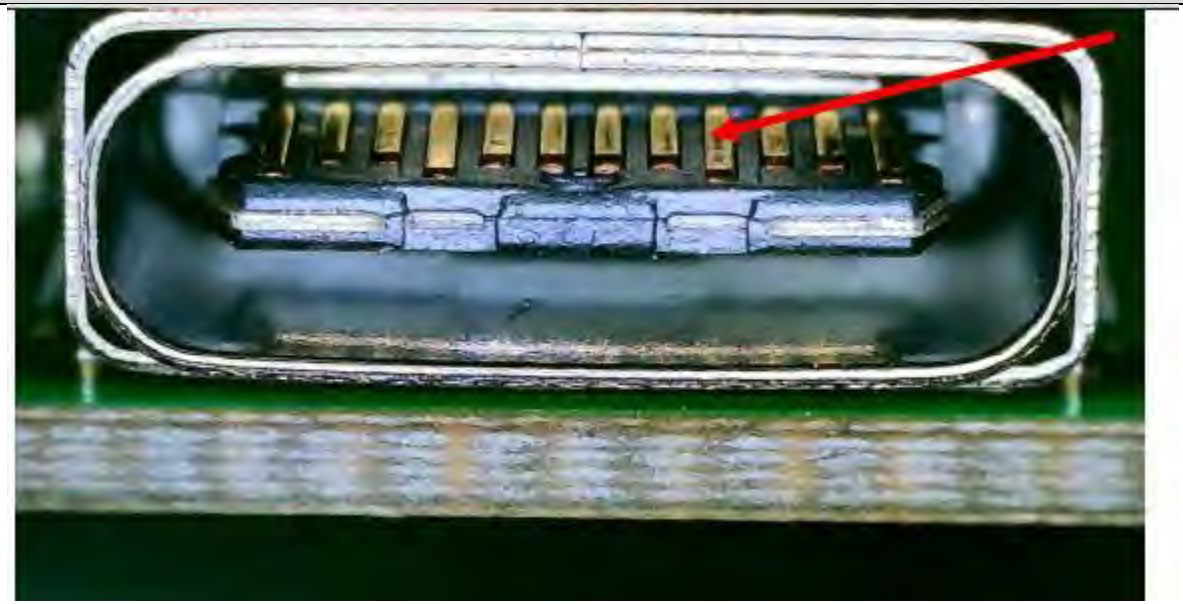
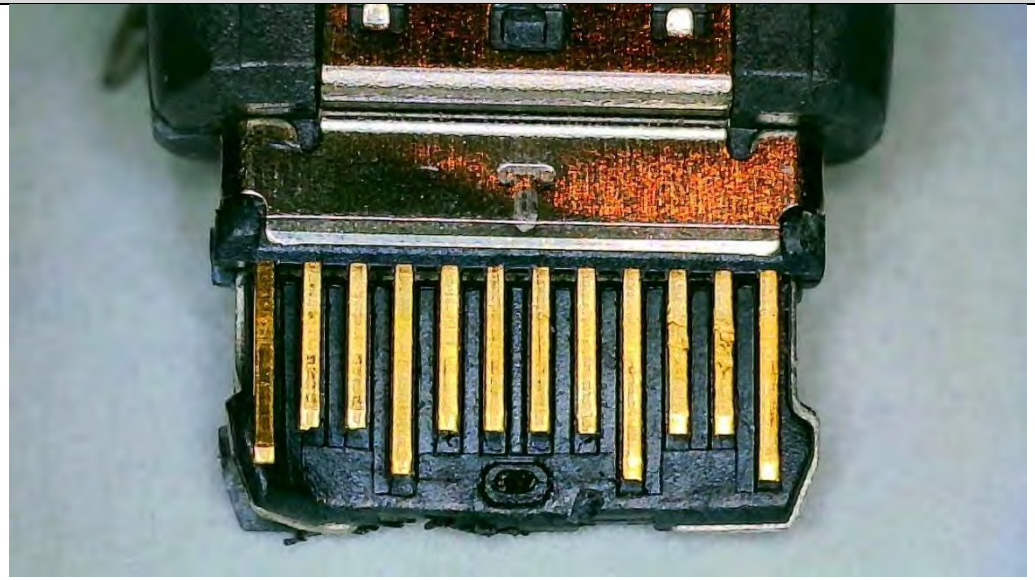
Claim 134 of the '307 Patent	**Evidence of Infringement**
electrically connected to a first pin extending out of the plastic base; and	

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 Each of the first contacts is electrically connected to a respective first pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve first contacts correspond to the twelve pins extending from the plastic base.

Samsung, EX1004, p. 1865

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image of separated components of socket structure.)

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 (Image of socket structure showing pins connected to PCB.) Note that the pins extending out of the plastic base are arranged in two rows, such that the image above shows only the first pins. The second pins are located behind the first pins. This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the first contacts is electrically connected to a respective first pin extending out of the plastic base.

See also Element [**34F**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

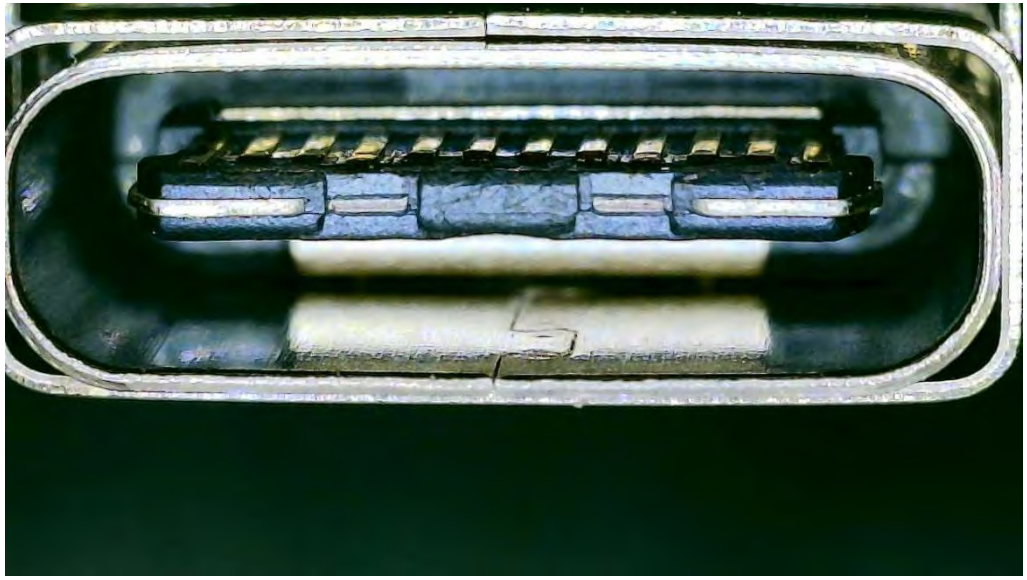
Claim 134 of the '307 Patent	**Evidence of Infringement**
[**134G**] at least one row of second contacts separately arranged on the second surface of the tongue, wherein:	The socket structure of the Samsung ViewFinity S80UD includes at least one row of second contacts separately arranged on the second surface of the tongue. 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

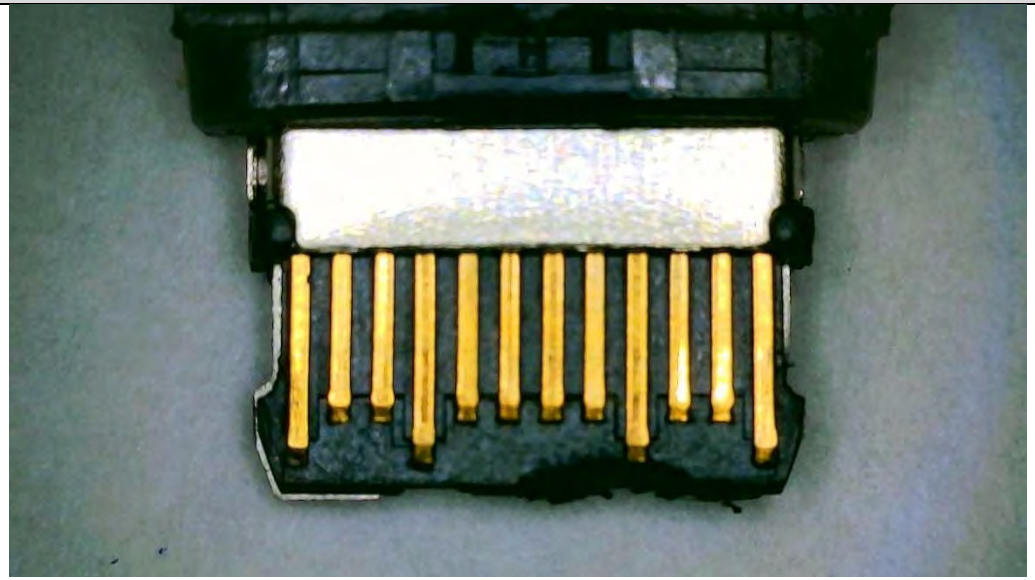
Claim 134 of the '307 Patent	**Evidence of Infringement**
	 (Images of socket structure of Samsung ViewFinity S80UD.) *See also* Element [**34G**].
[**134H**] each of the second contacts is electrically connected to a second pin extending out of the plastic base;	Each of the second contacts is electrically connected to a respective second pin extending out of the plastic base. For example, the image below shows separated portions of the socket structure. The terminals corresponding to the first contacts and first pins are identified by the red arrow. This image shows that the twelve second contacts correspond to the twelve pins extending from the plastic base.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 This is consistent with the USB-C standard, which describes implementations with 24 contacts, each of which corresponds with one of 24 pins.

Samsung, EX1004, p. 1871

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4. *See also* Element [**34A**] (explaining that the socket structure of the Samsung ViewFinity S80UD is a USB-C socket and/or compatible with the USB-C cables).

In addition, testing confirms that each of the second contacts is electrically connected to a respective second pin extending out of the plastic base.

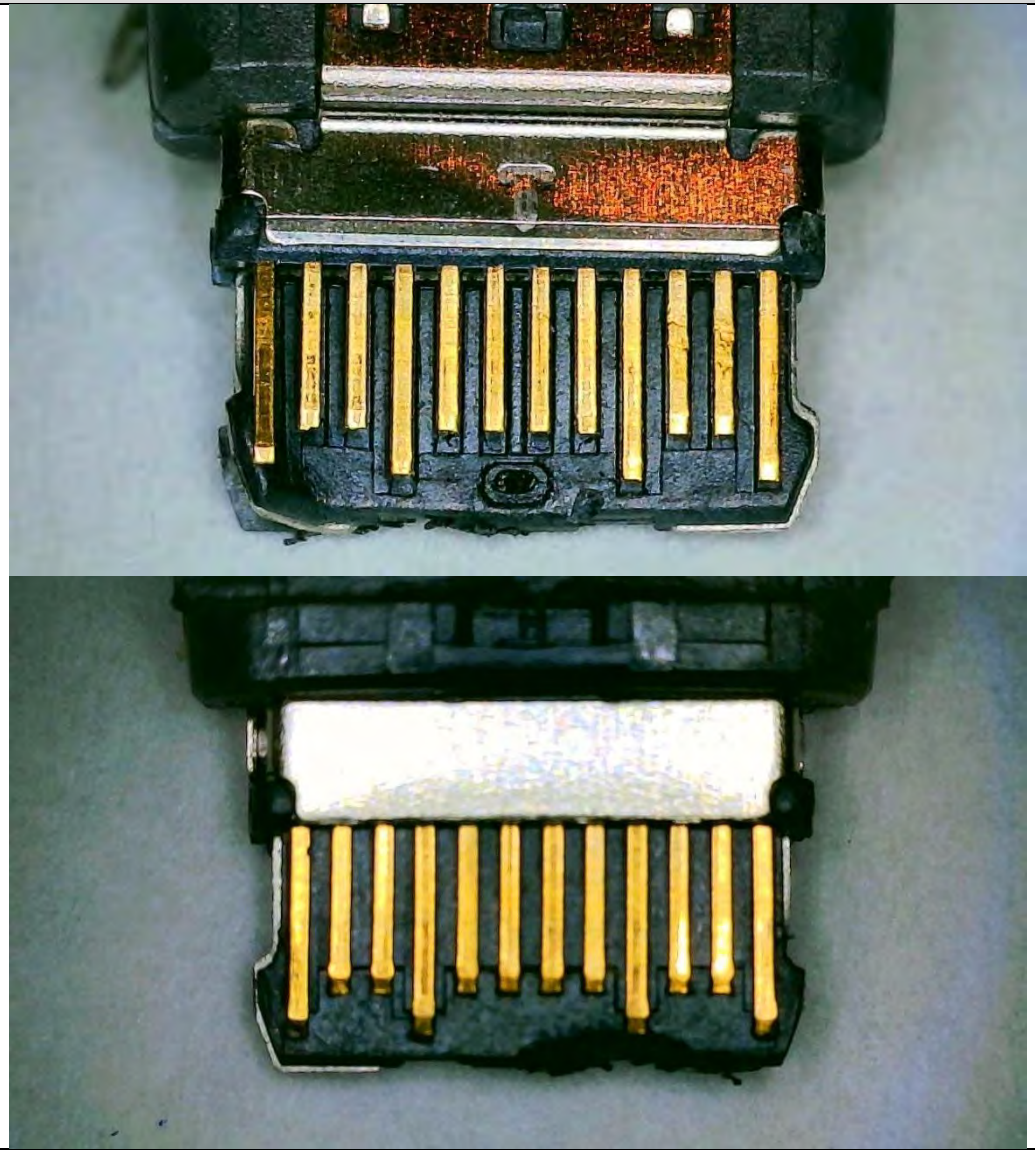
See also element [**34H**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	**Evidence of Infringement**
[**134I**] the socket structure is operative to simultaneously electrically connect on the top and the bottom side of the tongue;	The socket structure of the Samsung ViewFinity S80UD is operative to simultaneously electrically connect via the first and second contacts. The socket structure of the Samsung ViewFinity S80UD has electrical contacts on the top and bottom of the tongue.

Samsung, EX1004, p. 1873

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1874

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

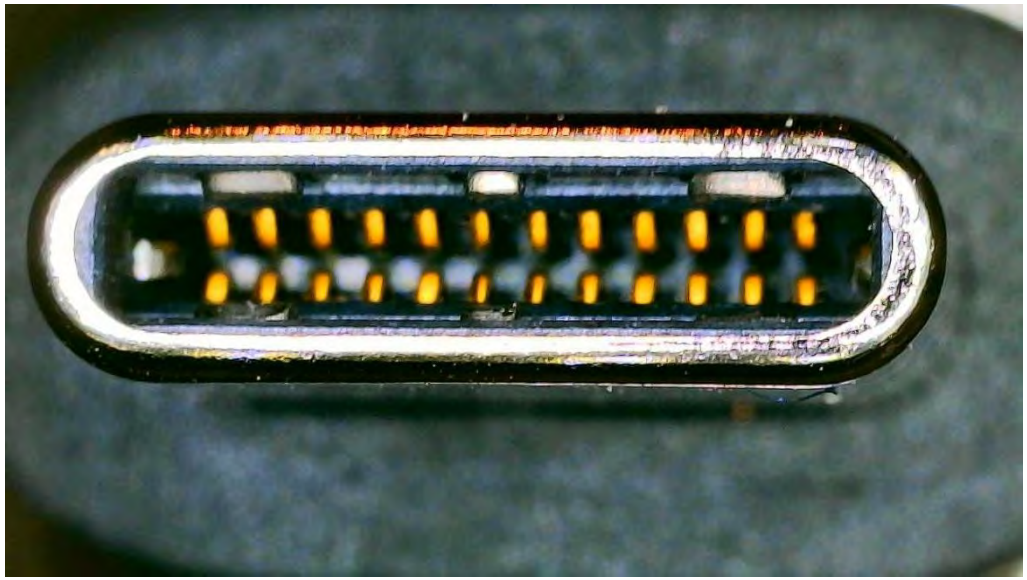
Claim 134 of the '307 Patent	Evidence of Infringement
	The contacts on the top and bottom of the tongue are configured to mate and connect with corresponding electrical contacts on the interior bottom and interior top of a USB-C plug.  In operation, the socket structure simultaneously electrically connects to the plug via the first and second contacts. For example, as noted above in connection with element [**34A**], the ViewFinity S80UD is packaged with a USB-C to USB-C cable which connects to the Samsung ViewFinity S80UD through the socket structure and the socket structure of the Samsung ViewFinity S80UD is advertised as a USB-C interface. Among other things, the USB-C port allows for charging. • USB-C port allows up to 90W charging and data transfer at the same time, while a built-in LAN port provides seamless Ethernet connectivity for laptops.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	See https://www.samsung.com/us/monitors/high-resolution/37-inch-viewfinity-s8-s80ud-4k-uhd-hdr10-high-resolution-monitor-with-usb-c-and-ergonomic-stand-sku-ls37d800uanxza/ (accessed April 22, 2025). Under the USB-C standard, power is provided through VBUS which is present at pins A4, A9, B9, and B4. 2.4 VBUS VBUS provides a path to deliver power between a host and a device, and between a USB power charger and a host/device. A simplified high-current supply capability is defined for hosts and chargers that optionally support current levels beyond the *USB 2.0*, *USB 3.2*, and *USB4* specifications. The *USB Power Delivery Specification* is supported. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 2.4; *see also* Table 3-4 (pin assignments). All of the VBUS pins are connected together in the USB-C plug and bussed together on the PCB. 12. All VBUS pins shall be connected together in the USB Type-C plug. Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.12. 14. All VBUS pins shall be connected together at the USB Type-C receptacle when it is in its mounted condition (e.g., all VBUS pins bussed together in the PCB). Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Section 3.2.1.14. The same is also true for the GND pins on each side of the socket structure (pins A1, A12, B12, B1). *See* Sections 3.2.1.13, 15.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	**Evidence of Infringement**
	See also Element [**34I**].
[**134J**] at least some of the at least one row of first contacts has a functional reverse mirror configuration relative to at least some of the at least one row of second contacts, and the socket structure is thereby configured such that:	The first row of contacts (shown in the lower image) has a functional reverse mirror image configuration relative to the row of second contacts (shown in the upper image). 

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

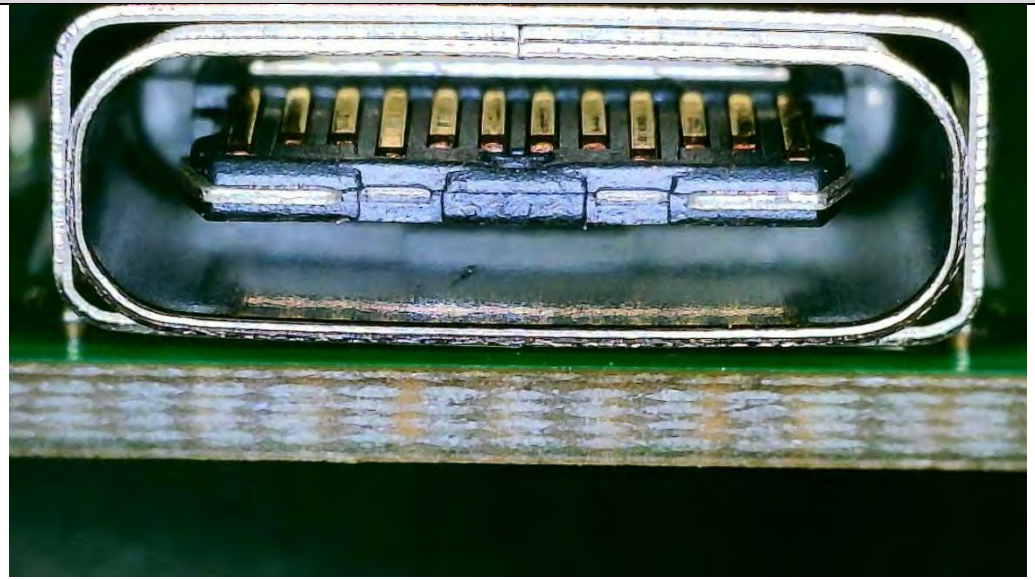
Claim 134 of the '307 Patent	Evidence of Infringement
	 In addition, as noted above in connection with element [**34A**], the Samsung ViewFinity S80UD has a USB-C socket structure and is compatible with USB-C cables. According to the USB-C standard, sockets (referred to as "receptacles" in the USB-C standard) have a functional reverse mirror configuration for the corresponding rows of first and second contacts.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement

Table 3-4 USB Type-C Receptacle Interface Pin Assignments

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	TXp1	Positive half of first TX differential pair	Second	B11	RXp1	Positive half of first RX differential pair	Second
A3	TXn1	Negative half of first TX differential pair	Second	B10	RXn1	Negative half of first RX differential pair	Second
A4	VBUS	Bus Power	First	B9	VBUS	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use (SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair – Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair – Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair – Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair – Position 2	Second
A8	SBU1	Sideband Use (SBU)	Second	B5	CC2	Configuration Channel	Second
A9	VBUS	Bus Power	First	B4	VBUS	Bus Power	First
A10	RXn2	Negative half of second RX differential pair	Second	B3	TXn2	Negative half of second TX differential pair	Second
A11	RXp2	Positive half of second RX differential pair	Second	B2	TXp2	Positive half of second TX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

Universal Serial Bus Type-C Cable and Connector Specification, Release 2.0, August 2019, available at https://www.usb.org/sites/default/files/USB%20Type-C%20Spec%20R2.0%20-%20August%202019.pdf, at Table 3-4.

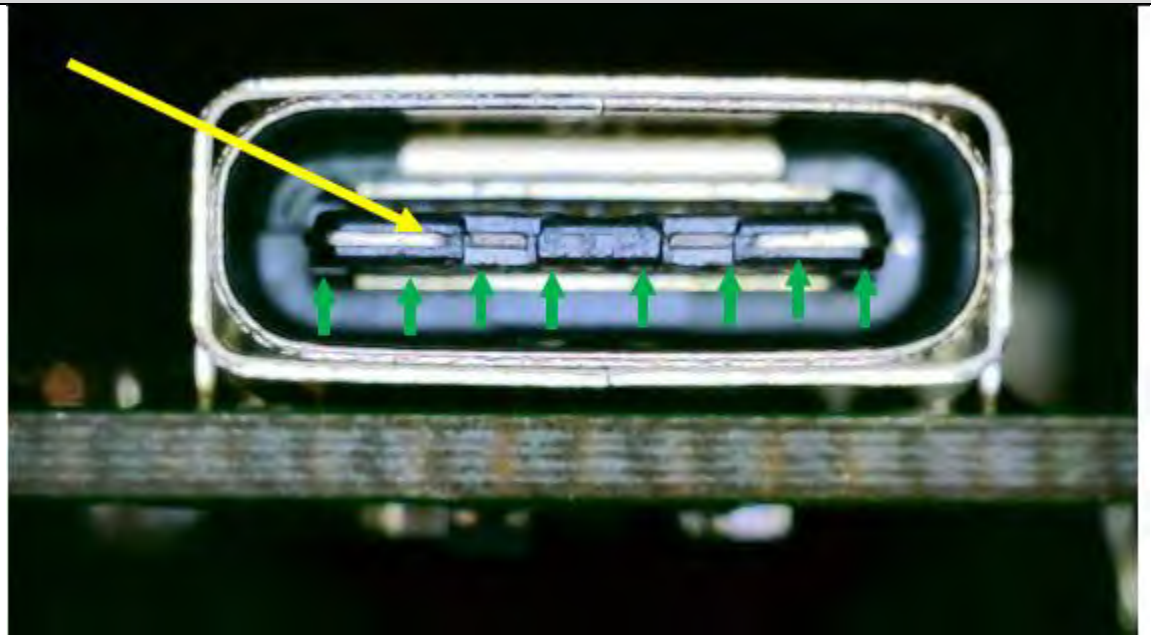
See also Element [**34J**].

The socket structure is thereby configured for two operational states, as described below in connection with elements [**134K**] through [**134L**].

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
[**134K**] when the plug is normally inserted into the connection slot with the at least one row of connection terminals of the plug facing the second surface of the tongue, the at least one row of connection terminals of the plug are electrically connected to the at least one row of second contacts; and	The Samsung ViewFinity S80UD is configured for a first operational state when a USB-C plug is normally inserted into the connection slot.  When the plug is normally inserted into the connection slot as shown above, the at least one row of connection terminals of the USB-C plug face the second surface of the tongue, and at least one row of connection terminals of the USB plug are electrically connected to the at least one row of second contacts. For purposes of illustration, the at least one row of connection terminals (which would extend inward from the plug face marked with the green flag so as to electrically connect with the second contacts on the bottom surface of the tongue) are represented as green arrows in the image below. In the normal insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	

Samsung, EX1004, p. 1881

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

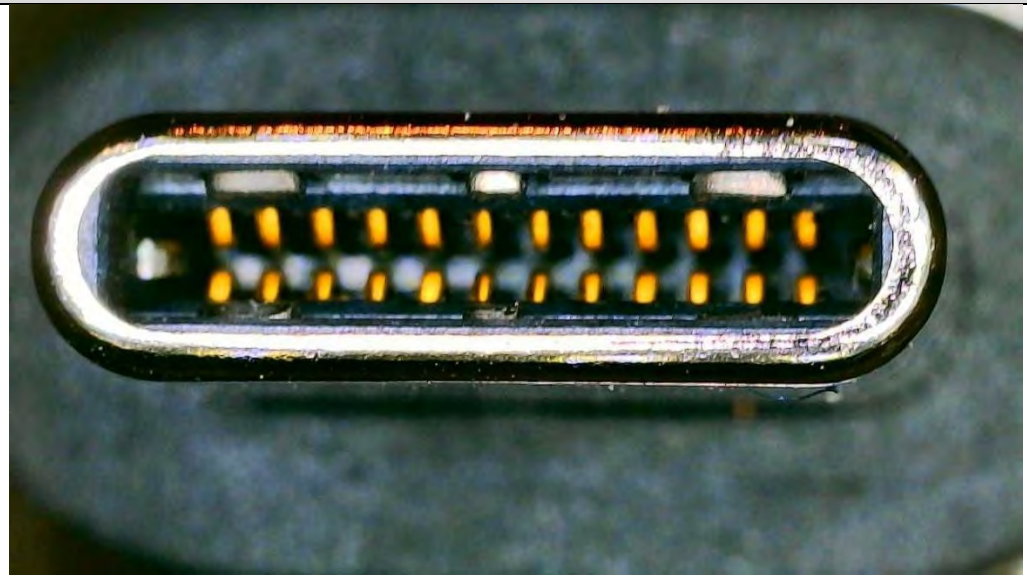
Claim 134 of the '307 Patent	**Evidence of Infringement**
	 (Image of USB-C cable showing top and bottom rows of connection terminals.) *See also* Element [**34K**].
[**134L**] when the plug is oppositely inserted into the connection slot with the at least one row of connection terminals of the plug facing the first surface of the tongue, the at least one row of	The socket structure of the Samsung ViewFinity S80UD is further configured for a second operational state when the USB-C plug is oppositely inserted into the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

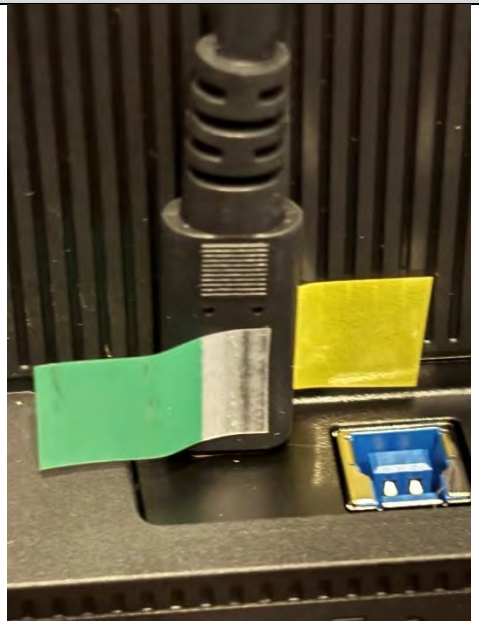
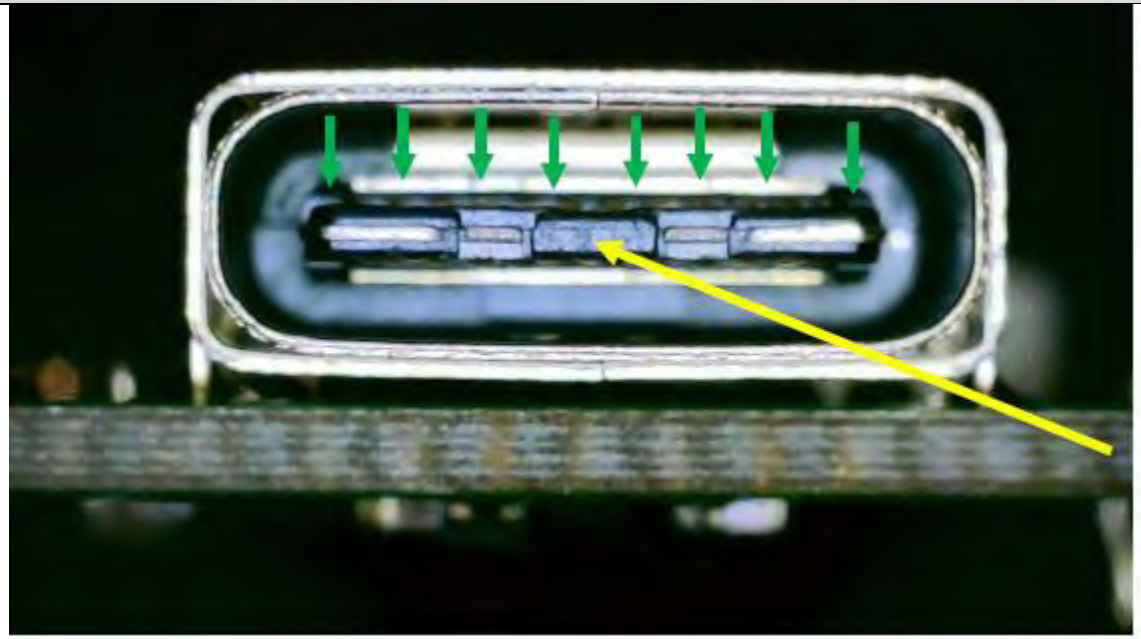
Claim 134 of the '307 Patent	Evidence of Infringement
connection terminals of the plug are electrically connected to the at least one row of first contacts.	 When the plug is oppositely inserted into the connection slot, the at least one row of connection terminals of the USB-C plug face the first surface of the tongue, and the at least one row of connection terminals of the USB-C plug are electrically connected to the at least one row of first contacts. For purposes of illustration, the at least one row of connection terminals (which extend inward from the plug face marked with the green flag so as to electrically connect with the first contacts on the top surface of the tongue) are represented as green arrows in the image below. In this opposite insertion state, the tongue (indicated by the yellow arrow) is disposed within the connection slot.

EXHIBIT 9 TO KIWI INTELLECTUAL ASSETS CORPORATION'S COMPLAINT

Claim 134 of the '307 Patent	Evidence of Infringement
	 *See also* Element [**34M**].

Samsung, EX1004, p. 1884