

# **EXHIBIT 4**

## **Application of Claim 1 of U.S. Patent No. 8,989,064 to Roku's Devices (the "Accused Products" or "Roku Devices")\*\*\***

\* The terms "Accused Product" or "Roku" refers to Roku's Express, Express+, Premiere, Streaming Stick, Streaming Stick+, and Ultra products, as well as all other products used, sold, offered for sale and/or imported by Roku (as defined in the Complaint) or one of Roku's subsidiaries, that have the features shown in this chart, or substantially similar features.

\*\* This claim chart is meant to be illustrative for purposes of meeting Plaintiff's pleading obligations and should not be construed as limiting or binding. Plaintiff will serve infringement contentions in this case in accord with the Local Rules and schedule entered by the Court.

## Application of U.S. Patent No. 8,989,064 to the Accused Products

1. A wireless data output controller method associated with a wireless controller for receiving, over a short range wireless communication, digital content from one or more wireless information apparatus,

*A wireless controller (e.g. Roku Device) receives digital content (e.g. audio, video, photos, video link etc.) from a wireless information apparatus (e.g. Android/iOS devices etc.) over a short range wireless communication link (e.g. Wi-Fi connection) using 'Play on Roku' and 'Casting' data output methods.*

*“When you want to display personal media files on your TV screen, you may be able to use the Play on Roku feature built in to the free Roku mobile app for iOS® and Android™ devices. Play on Roku lets you share photos, videos, and songs stored on your compatible mobile device to your Roku streaming player or Roku TV™. After you launch the mobile app and choose what to view from your phone or tablet, it will appear on your TV.*



*To use Play on Roku, you must install the latest version of the Roku mobile app on your compatible mobile device. You must also make sure to connect your phone or tablet to the same wireless network as your Roku device.”*

Source: <https://support.roku.com/article/208755108>

**“Roku Ultra”**

**Networking**

802.11ac MIMO dual-band wireless

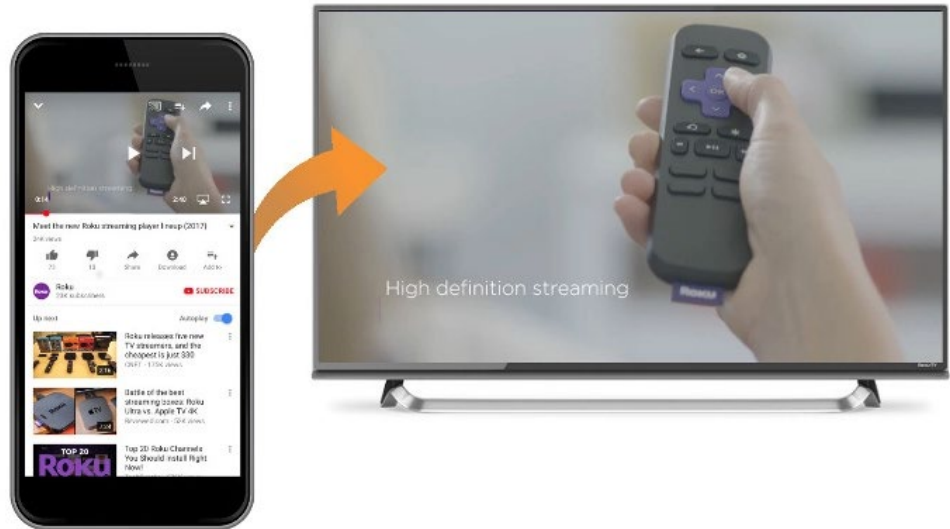
10/100 Base-T Ethernet

Source: <https://www.roku.com/products/roku-ultra>

**“How do I cast apps like YouTube or Netflix from my phone to my TV?**

Background

You can of course launch channels directly from your Roku streaming player or Roku TV™, *but on some occasions, you may want to direct, or cast, to your TV what you are already watching on your mobile device. You can do this wirelessly with supported apps like YouTube and Netflix by opening the casting icon casting icon on your phone or tablet and selecting your Roku device. The channel will launch automatically on your Roku device and playback will begin.*

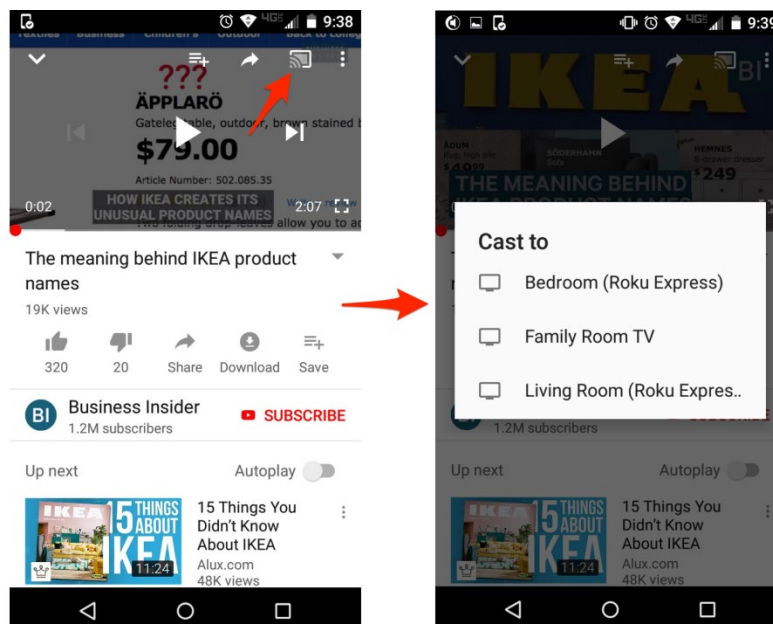


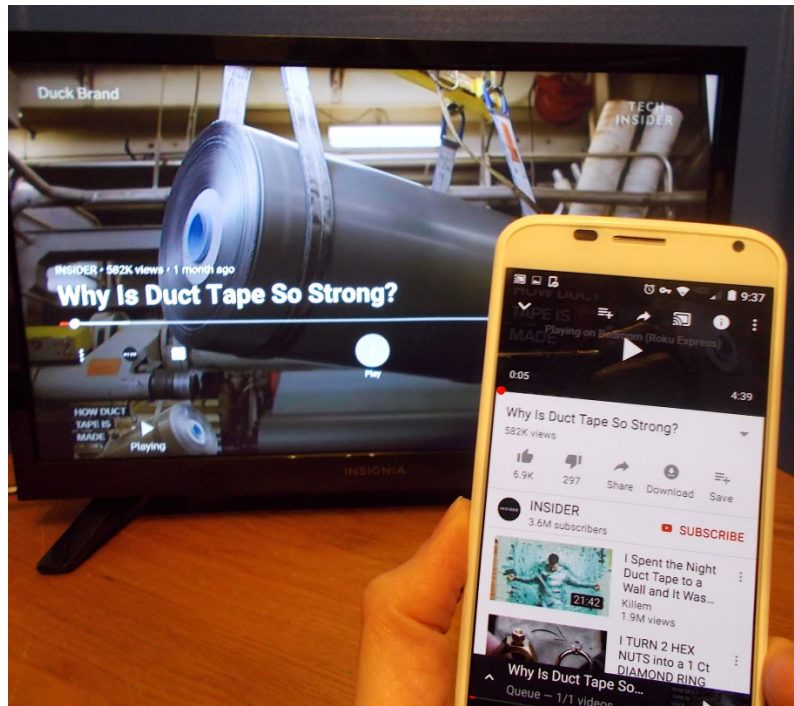
*To use casting, the supported app must be installed on both your mobile device and your Roku streaming device. You must also make sure to connect your phone or tablet to the same wireless network as your Roku device.”*

Source: <https://support.roku.com/article/360002990094>

### **“How to cast content to Roku”**

- 1.** Verify your mobile device and Roku are accessing the same network. Casting to Roku will only work if both devices are connected to the same WiFi network.
- 2.** Ensure the app you want to use is installed on your mobile device and on Roku. The Roku version of the app you want to use (example: Netflix) must be installed on Roku before you can cast to it.





Source: <https://www.businessinsider.com/how-to-cast-to-roku-from-phone-tv>

the wireless controller being externally connectable via a wired connection to an output device for rendering at least part of the digital content received from the one or more wireless information apparatus,

*The wireless controller (e.g. Roku Device) is externally connected to an output device (e.g. television etc.) via a wired connection (e.g. HDMI cable etc.) for rendering the digital content (e.g. songs, video, photos etc.) received from the wireless information apparatus (e.g. Android/iOS devices etc.).*

“Initial Roku Setup Preparation

***Connect the Roku Box or Streaming Stick to your TV using HDMI, or turn on your Roku TV.***

***If you have a 4K-enabled Roku Streaming Stick or Box, such as a Streaming Stick+, Roku 4, Premiere, Premiere+, or Ultra, make sure you connect the stick or box to an HDMI port that's HDCP 2.2 compatible; there should be a label on the input.*** This is especially important for compatibility with HDR-encoded content.

Whether you have a 4K-enabled Roku stick, box, or TV, make sure you have access to internet speeds that support 4K.

If you have a Roku 1 or Express Plus, you have the option of connecting a Roku box to a TV using composite video and analog audio connections. However, this should only be used for analog TVs.”

Source: <https://www.lifewire.com/how-to-set-up-roku-4174022>

“Got a new **Roku**? Here's how to set it up”

“Step 1: **Plug it into HDMI and power**”



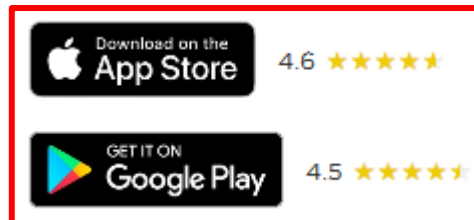


*“There are a few things you'll have to connect whether you have a box or Streaming Stick. In our case, with the Streaming Stick Plus, you'll need to plug in the included USB power cable into the Roku as well the Roku into your TV's HDMI slot.”*

Source: <https://www.cnet.com/how-to/got-a-new-roku-heres-how-to-set-it-up/>

“Your ultimate streaming companion  
*Whether you need a second remote or want more features and functionality, the free Roku mobile app makes it fun to control your Roku streaming player.*

- Search using your keyboard
- Turn up the volume with private listening
- See what's on with a handy entertainment guide
- Send video, music, and photos to your TV”



# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.