

UNITED STATES DISTRICT COURT  
EASTERN DISTRICT OF TEXAS  
TEXARKANA DIVISION

MIMO RESEARCH, LLC,

*Plaintiff,*

v.

SAMSUNG ELECTRONICS AMERICA, INC.  
AND SAMSUNG ELECTRONICS CO., LTD.,

*Defendants.*

Civil Action No. \_\_\_\_\_

**JURY TRIAL DEMANDED**

**COMPLAINT FOR PATENT INFRINGEMENT**

MIMO Research, LLC (“MIMO Research” or “Plaintiff”) brings this action and makes the following allegations of patent infringement relating to U.S. Patent Nos.: 7,091,854 (the “‘854 patent”); 7,046,716 (the “‘716 patent”); 7,133,646 (the “‘646 patent”); 7,305,057 (the “‘057 patent”); and 7,433,382 (the “‘382 patent”) (collectively, the “patents-in-suit”). Defendants Samsung Electronics America, Inc. and Samsung Electronics Co., Ltd. (collectively, “Defendant(s)” or “Samsung”) infringe the patents-in-suit in violation of the patent laws of the United States of America, 35 U.S.C. § 1 *et seq.*

**THE PARTIES**

1. Plaintiff MIMO Research, LLC (“Plaintiff” or “MIMO Research”) is a New York limited liability company established in 2017. MIMO Research owns a portfolio of patents that cover Multiple Input Multiple Output (“MIMO”) wireless communication, powerline networking, and ultra-wideband (“UWB”) technology. MIMO Research is the owner of all rights, title, and interest in and to the patents-in-suit.

2. Highlighting the importance of the patents-in-suit is the fact that the MIMO Research patent portfolio has been cited by over 800 U.S. and international patents and patent

applications assigned to a wide variety of the largest companies operating in the wireless integrated circuit field. MIMO Research's patents have been cited by companies such as:

- Apple Inc.<sup>1</sup>
- Broadcom Inc.<sup>2</sup>
- STMicroelectronics N.V.<sup>3</sup>
- Sony Group Corporation<sup>4</sup>
- Nokia Corporation<sup>5</sup>
- Qualcomm, Inc.<sup>6</sup>
- Siemens AG<sup>7</sup>
- Fujitsu Limited<sup>8</sup>

3. Samsung has cited the MIMO Research patents in 22 patents and patent applications, including: U.S. Patent Nos. 7,305,250; 7,392,012; 7,929,995; 7,969,859; 8,478,271; 8,611,465; 9,002,304; 9,306,616; and 7,483,406, and U.S. Patent Application Nos. 2004/0259594; 2005/0170802; 2005/0195883; 2005/0243756; 2006/0209755; 2007/0140319; 2007/0195860; 2008/0076433; 2008/0189119; 2009/0175381; 2012/0243645; 2014/0065992; and 20150180532.

4. Defendant Samsung Electronics America, Inc. is a corporation organized under the laws of the State of New York with its principal place of business at 85 Challenger Road, Ridgefield Park, New Jersey 07660. Samsung Electronics America, Inc. may be served by serving

<sup>1</sup> See, e.g., U.S. Patent Nos. 7,548,577; 8,279,913; 8,705,641; 8,743,852; 8,958,760; 9,490,864; and 9,614,578.

<sup>2</sup> See, e.g., U.S. Patent Nos. 7,885,323; 8,520,715; 7,680,083; 7,725,096; 7,795,973; 7,808,985; 7,860,146; 7,873,324; 7,877,078; 7,899,436; 7,956,689; 8,160,127; 8,213,895; 8,406,239; 8,437,387; 8,509,707; 8,750,362; 8,750,392; 8,885,814; 9,042,436; 9,065,465; 9,313,828; and 9,936,439.

<sup>3</sup> See, e.g., U.S. Patent Nos. 7,660,342; 7,656,932; 7,660,341; 7,817,763; and 8,817,935.

<sup>4</sup> See, e.g., U.S. Patent Nos. 9,265,004; 7,542,728; 7,545,787; 7,567,820; 7,688,784; 7,822,436; 7,881,252; 8,045,447; 8,121,144; 8,160,001; 8,259,823; 8,462,746; 9,036,569; 9,237,572; 9,258,833; 8,660,196; and 9,276,649.

<sup>5</sup> See, e.g., U.S. Patent Nos. 7,499,674; 7,643,811; 7,697,893; 7,782,894; and 9,913,248.

<sup>6</sup> See, e.g., U.S. Patent Nos. 8,767,812; 9,300,491; 7,916,081; 8,009,775; 8,054,223; 8,401,503; 8,452,294; 8,467,331; 8,472,551; 8,743,903; 8,745,137; 8,745,695; 8,774,334; and 8,824,477.

<sup>7</sup> See, e.g., U.S. Patent Nos. 7,378,980; 7,382,271; 7,408,839; 8,155,664; and 10,051,465.

<sup>8</sup> See, e.g., U.S. Patent Nos. 7,702,022; 7,995,680; 8,761,275; and 8,938,017.

its registered agent CT Corporation System, 1999 Bryan Street, Suite 900, Dallas, Texas 75201-3136.

5. Samsung Electronics America, Inc. is a wholly-owned subsidiary of Samsung Electronics Co. Ltd. Samsung Electronics America, Inc. and Samsung Electronics Co. Ltd. are collectively referred to herein as “Samsung.”

6. Defendant Samsung Electronics Co. Ltd. is a corporation organized under the laws of Korea, with its principal place of business located at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea.

7. Samsung conducts business operations within the Eastern District of Texas in its facilities and stores located at: 776 Henrietta Creek Rd 55 Roanoke, Texas 76262-6398; 6625 Excellence Way, Plano, Texas 75023; and 2601 Preston Road, Frisco, Texas 75034.

#### **JURISDICTION AND VENUE**

8. This action arises under the patent laws of the United States, Title 35 of the United States Code. Accordingly, this Court has exclusive subject matter jurisdiction over this action under 28 U.S.C. §§ 1331 and 1338(a).

9. This Court has personal jurisdiction over Samsung in this action because Samsung has committed acts within the Eastern District of Texas giving rise to this action and has established minimum contacts with this forum such that the exercise of jurisdiction over Samsung would not offend traditional notions of fair play and substantial justice. Defendant Samsung, directly and/or through subsidiaries or intermediaries (including distributors, retailers, and others), has committed and continues to commit acts of infringement in this District by, among other things, offering to sell and selling products and/or services that infringe the patents-in-suit. Moreover, Samsung is registered to do business in the State of Texas, has offices and facilities in the State of Texas, and actively directs its activities to customers located in the State of Texas.

10. Venue is proper in this district under 28 U.S.C. §§ 1391(b)-(d) and 1400(b). Defendant Samsung is registered to do business in the State of Texas, has offices in the State of Texas, has transacted business in the Eastern District of Texas and has committed acts of direct and indirect infringement in the Eastern District of Texas.

11. Samsung has a regular and established place of business in this District and has committed acts of infringement in this District. Samsung has permanent office locations at: 776 Henrietta Creek Rd 55, Roanoke, Texas 76262-6398; 6625 Excellence Way, Plano, Texas 75023; and 2601 Preston Road, Frisco, Texas 75034.

12. Samsung employs full-time personnel such as sales personnel and engineers in this District

13. Samsung has also committed acts of infringement in this District by commercializing, marketing, selling, distributing, testing, and servicing certain Accused Products.

14. This Court has personal jurisdiction over Samsung. Samsung has conducted and does conduct business within the State of Texas. Samsung, directly or through subsidiaries or intermediaries (including distributors, retailers, and others), ships, distributes, makes, uses, offers for sale, sells, imports, and/or advertises (including by providing an interactive web page) its products and/or services in the United States and the Eastern District of Texas and/or contributes to and actively induces its customers to ship, distribute, make, use, offer for sale, sell, import, and/or advertise (including the provision of an interactive web page) infringing products and/or services in the United States and the Eastern District of Texas. Samsung, directly and through subsidiaries or intermediaries (including distributors, retailers, and others), has purposefully and voluntarily placed one or more of its infringing products and/or services, as described below, into the stream of commerce with the expectation that those products will be purchased and used by

customers and/or consumers in the Eastern District of Texas. These infringing products and/or services have been and continue to be made, used, sold, offered for sale, purchased, and/or imported by customers and/or consumers in the Eastern District of Texas. Samsung has committed acts of patent infringement within the Eastern District of Texas. Samsung interacts with customers in Texas, including through visits to customer sites in Texas. Through these interactions and visits, Samsung directly infringes the patents-in-suit. Samsung also interacts with customers who sell the Accused Products into Texas, knowing that these customers will sell the Accused Products into Texas, either directly or through intermediaries.

15. Samsung has minimum contacts with this District such that the maintenance of this action within this District would not offend traditional notions of fair play and substantial justice. Thus, the Court therefore has both general and specific personal jurisdiction over Samsung.

#### **THE ASSERTED PATENTS**

##### **U.S. PATENT NO. 7,091,854**

16. U.S. Patent No. 7,091,854 (the “854 patent”) entitled, *Multiple-Input Multiple-Output Wireless Sensor Networks Communications*, was filed on April 9, 2004. The ‘854 patent is subject to a 35 U.S.C. § 154(b) term extension of 187 days. MIMO Research, LLC is the owner by assignment of the ‘854 patent. A true and correct copy of the ‘854 patent is attached hereto as Exhibit A.

17. The ‘854 patent claims specific systems for wireless multiple-input multiple-output communication devices.

18. The ‘854 patent teaches the use of a MIMO sensor transmitter that improves array gain, diversity, and reduces channel interference and inter-symbol interference.



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