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11 Attorneys for Plaintiff *WI-LAN INC., Wi-LAN USA, Inc., and Wi-LAN Labs, Inc.*

12  
13 **UNITED STATES DISTRICT COURT**  
14 **SOUTHERN DISTRICT OF CALIFORNIA**

15 WI-LAN INC.; WI-LAN USA, INC.; and  
16 WI-LAN LABS, INC.,

17 Plaintiffs,

18 vs.

19 LG ELECTRONICS, INC.; LG  
ELECTRONICS U.S.A., INC.; LG  
20 ELECTRONICS MOBILECOMM  
U.S.A., INC.

21 Defendants.

Case No. '18CV1577 AJB BGS

**COMPLAINT FOR  
INFRINGEMENT OF U.S.  
PATENT NOS. 8,787,924,  
8,867,351, 9,226,320, & 9,497,743**

**DEMAND FOR JURY TRIAL**

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1 Plaintiffs WI-LAN INC., Wi-LAN USA, Inc. and Wi-LAN Labs, Inc.  
2 (collectively, “Wi-LAN” or “Plaintiffs”) hereby submit this Complaint against  
3 Defendants LG Electronics, Inc., LG Electronics U.S.A., Inc., LG Electronics  
4 Mobilecomm U.S.A., Inc. (collectively, “LG” or “Defendants”).

5 **NATURE OF ACTION**

6 1. This is an action for infringement of U.S. Patent Nos. 8,787,924 (“the  
7 ‘924 Patent”), 8,867,351 (“the ‘351 Patent”), 9,226,320 (“the ‘320 Patent”), and  
8 9,497,743 (“the ‘743 Patent”).

9 **THE PARTIES**

10 2. Plaintiff WI-LAN INC. is a corporation organized and existing under  
11 the laws of Canada, with a Canadian Corporation Number of 854057-8 and  
12 Business Number (BN) of 811594530RC0001, with its principal place of business  
13 at 303 Terry Fox Drive, Suite 300, Ottawa, ON, K2K 3J1, Canada.

14 3. Plaintiff Wi-LAN USA, Inc. is a corporation organized and existing  
15 under the laws of Florida with its principal executive office at 303 Terry Fox  
16 Drive, Suite 300, Ottawa, ON, K2K 3J1, Canada, and a principal business office at  
17 600 Anton Blvd., Suite 1350, Costa Mesa, CA, 92626.

18 4. Plaintiff Wi-LAN Labs, Inc. is a corporation organized and existing  
19 under the laws of Delaware with its principal executive office at 303 Terry Fox  
20 Drive, Suite 300, Ottawa, ON, K2K 3J1, Canada, and a principal business office at  
21 5962 La Place Court Suite 265, Carlsbad, CA 92008.

22 5. LG Electronics, Inc. is incorporated under the laws of South Korea  
23 with its principal place of business at LG Twin Towers 20, Yeouido-dong,  
24 Yeongdeunspo-gu, Seoul 150-721, South Korea. Upon information and belief, LG  
25 Electronics, Inc. owns and controls, directly and/or indirectly, LG Electronics  
26 U.S.A., Inc. and LG Electronics Mobilecomm U.S.A., Inc.

1           6.    LG Electronics U.S.A., Inc. is a Delaware corporation with its  
 2 principal place of business at 1000 Sylvan Ave, Englewood Cliffs, New Jersey.  
 3 LG Electronics U.S.A., Inc. may be served via its registered agent, United States  
 4 Corporation Company, 2711 Centerville Rd. Ste. 400, Wilmington, DE 19808.

5           7.    LG Electronics Mobilecomm U.S.A., Inc. is a California corporation  
 6 with its principal place of business at 10225 Willow Creek Rd., San Diego,  
 7 California 92131. LG Electronics Mobilecomm U.S.A., Inc. may be served via its  
 8 registered agent, Corporation Service Company (Which will do Business in  
 9 California as CSC - Lawyers Incorporating Service), 2710 Gateway Oaks Dr. Ste.  
 10 150N Sacramento, CA 95833.

11   **JURISDICTION AND VENUE**

12           8.    This Court has subject matter jurisdiction pursuant to 28 U.S.C.  
 13 §§ 1331 and 1338(a) because this action arises under the patent laws of the United  
 14 States, 35 U.S.C. §§ 101 *et seq.*

15           9.    This Court has personal jurisdiction over LG as personal jurisdiction  
 16 over LG in this action comports with due process. LG has conducted and regularly  
 17 conducts business within the United States and this judicial district. LG has  
 18 continuous and systematic contacts with California and this judicial district.  
 19 Furthermore, LG has purposefully availed itself of the privileges of conducting  
 20 business in the United States and this judicial district. LG has sought protection  
 21 and benefit from the laws of the State of California by maintaining offices in  
 22 California and this judicial district, by selling products with the expectation and/or  
 23 knowledge that they will be purchased by consumers in this judicial district, and/or  
 24 by offering advertisements targeted at consumers in this judicial district, and/or by  
 25 having partners and customers in this judicial district. In California and in this  
 26 judicial district, LG regularly does or solicits business and engages in other  
 27 persistent courses of conduct. LG derives substantial revenue from services

1 provided to individuals in California and in this judicial district. Plaintiff's causes  
2 of action arise directly from LG's activities in this judicial district. In particular,  
3 LG's research and development division is based in San Diego. And LG's San  
4 Diego-based division is the center of LG's 3GPP and standardization efforts. LG  
5 has even sought to transfer other patent cases involving LTE technology to the  
6 Southern District of California.

7 10. Joinder of Defendants is proper because Defendants are related parties  
8 who are either jointly and severally liable for infringement, or who make, use, sell,  
9 offer for sale, or import the same or similar accused products that practice the same  
10 4G LTE standards. Further, upon information and belief, Defendants use the same  
11 chip suppliers and chipsets in their infringing products, meaning the factual  
12 question of infringement will substantially overlap between Defendants. Further,  
13 Plaintiffs anticipate that there will be substantial overlap during the discovery  
14 process.

15 11. Venue is proper in this federal district pursuant to 28 U.S.C. §§  
16 1391(b)-(c) and 1400(b) in that one or all Defendants reside in this District, have  
17 done business in this District, have regular and established places of business in  
18 this District, have committed acts of infringement in this District, and continue to  
19 commit acts of infringement in this District, entitling Plaintiffs to relief.

20 12. No other venue is more convenient than the Southern District of  
21 California. Plaintiff Wi-LAN Labs, Inc. resides in this district. Two of the three  
22 patents in suit were developed in this district (and the other was developed  
23 elsewhere in California). Further, many of the inventors of the patents-in-suit,  
24 including Ken Stanwood, Yair Bourlas, Adam Newham, and Lei Wang currently  
25 reside in this district. And Wi-LAN's current U.S. headquarters is also located in  
26 California (600 Anton Boulevard, Suite 1350, Costa Mesa, California 92626).

1 Also, important third-party suppliers for Defendants' infringing products reside in  
2 this district.

3 **BACKGROUND OF THE TECHNOLOGY**

4 13. Wi-LAN Labs developed advanced 4G technologies and products for  
5 Wi-LAN and others in the wireless industry that enhance the capacity, quality of  
6 user experience, and connectivity of 4G (and next generation 5G) mobile devices  
7 and networks.

8 14. Several of the 4G patents asserted in this action were developed by  
9 Wi-LAN's own Ken Stanwood, the former president of Wi-LAN Labs and current  
10 CTO at Wi-LAN, and his team.

11 15. Mr. Stanwood has played a leadership role in the development of 4G  
12 technologies and standards for more than a decade, starting with the industry's first  
13 major 4G cellular initiative, referred to as WiMAX. He served as Vice Chair of the  
14 IEEE 802.16 standards committee for WiMAX from 2003-2006 and as a principal  
15 contributor to the original IEEE 802.16 standard for 4G cellular networks and  
16 mobile devices.

17 16. Mr. Stanwood has written extensively on 4G technologies, including  
18 coauthoring a popular textbook on the subject, and has been awarded 125 U.S.  
19 patents, with many more patent applications currently pending before the United  
20 States Patent Office and worldwide, many of which relate to 4G technologies.

21 17. Like Ken Stanwood, Wi-LAN's founders, Michel Fattouche and  
22 Hatim Zaghoul, are widely recognized and acknowledged as wireless industry  
23 pioneers. Their technologies, patents and writings have been cited in patents and  
24 publications written by thousands of engineers and scientists in the wireless  
25 industry.

26 18. Wi-LAN's founders developed key cellular "data" technologies,  
27 including the W-OFDM air interface, to enable data to be exchanged at desktop

1 speeds over a wireless channel, such as in Wi-Fi networks, or from mobile devices  
2 in 4G cellular networks. Wi-LAN's technologies have made Wi-Fi and 4G in  
3 mobile devices possible.<sup>1</sup>

4 19. The Wi-LAN success story is featured in major publications  
5 worldwide, including in such publications as *Scientific American*<sup>2</sup> and *Time*  
6 *Magazine*,<sup>3</sup> and in many others. Wi-LAN and its founders have also been the  
7 subject of numerous industry awards for their wireless innovations, and for their  
8 contribution to the growth in wireless data capability present in today's  
9 smartphones, tablets, and other mobile devices.

10 20. One of Wi-LAN's co-founders is featured in one of Canada's leading  
11 business publications as among the Top 100 Canadians of the 20th century for Wi-  
12 LAN's wireless innovations.<sup>4</sup> And Wi-LAN's original wireless designs and first  
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15 <sup>1</sup> See, e.g., *Ergen, Mustafa, Mobile Broadband: Including WiMAX and LTE*, John  
16 Wiley & Sons, 2009 at p. 110, Section 4.1 "Principles of OFDM: Introduction"  
17 (recognizing one of Wi-LAN's first patents, U.S. Patent No. 5,282,222, to W-  
18 OFDM as a major milestone in the development of Wi-Fi and 4G technologies,  
19 turning a single lane wireless communication channel into a multi-lane super  
20 highway, and enabling mobile devices to transmit and receive data at desktop  
21 speeds).

22 <sup>2</sup> *The Future of Wireless, Scientific American*, October 2000 at p. 57 ("To date,  
23 wireless multiplexing hasn't been exploited for cellular systems.... That may  
24 change soon.... Wi-LAN holds a number of key patents for multiplexing  
25 technology known as wideband orthogonal frequency division multiplexing, or W-  
26 OFDM").

27 <sup>3</sup> *Wi-LAN Shows How to be Successful-and Canadian-in the Global Economy,*  
28 *Time Magazine*, April 3, 2000.

<sup>4</sup> *Great Canadians, Maclean's*, July 1, 2000 ("Riding the wave of invention ... Wi-  
LAN is one of those next generation companies. Its technology may well become  
the base for what some call the coming wireless revolution: the ability to e-mail,  
surf the Net, adjust the lights in your home and order theater tickets from a  
cellphone or handheld computer.")

1 wireless mobile device have been displayed in the Canadian equivalent of the  
2 Smithsonian Institution.

3 21. Enabling high-speed wireless data capability in mobile devices was no  
4 small task—it posed incredible challenges—something we take for granted today  
5 with desktop speeds now standard in 4G mobile devices.

6 22. Over the years, Wi-LAN, Wi-LAN Labs, and their predecessors have  
7 invested hundreds of millions of dollars in developing, making and selling many of  
8 the world’s first fixed and mobile devices capable of transmitting and receiving  
9 wireless data at desktop speeds.

10 23. Wi-LAN’s products which had 4G data speeds include, among  
11 others, the I.WILL, BWS 300, LIBRA 3000, LIBRA 5800, LIBRA MX, and the  
12 LIBRA Mobilis.

13 24. Wi-LAN was the first company in the world to build Wi-Fi and 4G  
14 data speeds into mobile devices, with speeds reaching up to 100 megabits per  
15 second (Mbps), and it did so a decade before 4G would become the standard in the  
16 wireless industry that it is today.

17 25. A number of Wi-LAN’s advanced 4G technologies have their origin  
18 in work started by Wi-LAN’s Ken Stanwood and his team while at Ensemble  
19 Communications (“Ensemble”), a San Diego company that Mr. Stanwood helped  
20 grow (then, as Ensemble’s Chief Technology Officer) to over 200 engineers,  
21 scientists, and support personnel.

22 26. Others of Wi-LAN’s advanced 4G technologies have their origin in  
23 work created at NextWave Communications, another San Diego company where  
24 Mr. Stanwood served as a Vice President. And yet other technologies were first  
25 developed at SOMA network, a California-based company involved in 4G  
26 technologies.

1           27. The advanced 4G technologies developed by Mr. Stanwood and his  
2 team were employed in the network stacks utilizing the 4G WiMAX cellular  
3 standard, and were subsequently adopted for use in the network stacks utilizing the  
4 4G LTE cellular standard used in today’s 4G mobile devices.

5           28. These advanced 4G technologies include:

6           (i) the bandwidth-on-demand and periodic bandwidth services built into 4G  
7 mobile devices to enable apps installed on such devices to have the bandwidth they  
8 need, when they need it, in real-time;

9           (ii) the quality-of-service functions built into 4G mobile devices to enable  
10 mobile devices to prioritize the services that have the most pressing need for  
11 bandwidth; and

12           (iii) the handoff functionality built into 4G mobile devices to identify  
13 particular devices and use pre-allocated codes to respond faster to requests from  
14 mobile devices.

15           29. The efforts of Mr. Stanwood and other Wi-LAN inventors in  
16 developing these advanced 4G technologies have enabled 4G mobile devices to  
17 support a variety of services popular among users of Defendants’ 4G LTE mobile  
18 devices, such as voice, conversational video, live streaming of video and music,  
19 real-time gaming, video and photo sharing, email, and instant messaging, all in the  
20 palm of your hand (“4G Network Services”).

21           30. Wi-LAN’s wireless technologies and patents, including its advanced  
22 4G technologies, have been licensed by nearly all companies in the wireless  
23 industry, comprising more than 130 companies.

24           31. Defendants’ infringement gives them an unfair advantage over their  
25 competitors, many of whom have chosen to do the right thing and license their use  
26 of Wi-LAN’s wireless technologies and patents. Many of Defendants’ major  
27



1 competitors in the mobile device industry, including Samsung, HTC, Nokia and  
2 BlackBerry have licensed Wi-LAN's wireless technologies and patents.

3 32. Wi-LAN has made numerous efforts to license the unauthorized use  
4 of its wireless technologies by the Defendants, but Defendants have consistently  
5 refused to take a license, choosing to use Wi-LAN's 4G technologies without  
6 paying anything for that right.

7 33. Defendants have willfully chosen to not respect the intellectual  
8 property of Wi-LAN, including the four 4G patents asserted in this action directed  
9 to Wi-LAN's advanced 4G technologies, and it does so despite understanding the  
10 importance of intellectual property.

11 34. Before initiating litigation, Wi-LAN made substantial efforts to  
12 license Defendants' use of Wi-LAN's advanced 4G technologies and patents in  
13 their 4G LTE mobile devices, expecting that Defendants would proceed in good  
14 faith.

15 35. During the spring of 2016, Wi-LAN separately contacted both  
16 Defendants to engage in licensing the patents-in-suit relating to LTE and 4G  
17 wireless technology. Both Defendants initially expressed interest. But despite Wi-  
18 LAN's repeated efforts, Defendants failed to take a license.

19 36. Defendants' actions have forced Wi-LAN's hand, leaving it with no  
20 choice but to protect its intellectual property through litigation.

21 **DEFENDANTS' INFRINGING PRODUCTS**

22 37. LG directly or indirectly through subsidiaries or affiliated companies  
23 markets, distributes, manufactures, imports, sells, and/or offers for sale wireless  
24 communication products, such as products compliant with the 3rd Generation  
25 Partnership Project ("3GPP") 4G LTE standard, including but not limited to the  
26 LG G6, Pixel 2, Pixel 2 XL, LG G7, LG V30, LG X Venture, LG V20, LG Watch  
27 Urbane 2nd Edition LTE, LG Stylus 3, LG Stylo 2 V, LG Stylo 2 Plus, LG Stylo 3,

1 LG Stylo 3 Plus, LG K3 2017, LG K4 2017, LG K8 2017, LG K10 2017, LG K8V,  
 2 LG G Stylo, LG Stylo 2, LG Tribute HD, LG Aristo, LG G5, LG G4, LG G4c, LG  
 3 G3, LG G3 S, LG G3 Beat, LG G3 Vigor, LG G2, LG K7, LG X Power, LG X  
 4 Mach, LG X cam, LG X screen, LG Leon LTE, LG K10, LG B470, LG B471, LG  
 5 Escape 3, LG Volt, LG Premier LTE, LG Treasure LTE, LG Classic, LG Rebel, LG  
 6 Rebel 2, LG Fiesta, LG Grace, LG K20 Plus, LG Treasure, LG X style, LG  
 7 Premier, LG K3, LG K8, LG K4, LG Optimus Zone 3, LG Optimus G Pro, LG K8  
 8 V, LG K8, LG Phoenix 3, LG Phoenix 2, LG Tribute 5, LG Wine 4, LG V10, LG  
 9 Tribute 5, LG Spree, LG G Vista 2, LG X Charge, LG Risio 2, LG Risio, LG  
 10 Terra, LG Exalt, LG Exalt II, LG Sunrise, LG G Flex 2, LG Destiny, LG Sunset,  
 11 LG 441G, LG Access, LG Envoy III, LG 450, LG True, LG Revere 3, LG  
 12 Extravert 2, LG XPression 2, LG G Flex, LG Cosmos 3, LG G Pad X II, LG G Pad  
 13 X, LG G Pad F, LG G Pad, LG V30+, LG Q6, LG Fiesta 2 LTE, LG Wine LTE,  
 14 and LG Stylo 3 Plus Titan, in the United States and in this district. As some of  
 15 these products, and additional LG LTE devices, are known by internal model  
 16 numbers, codenames, or have alternate versions and iterations, discovery will be  
 17 necessary to finalize a list of devices that infringe the patents-in-suit. LG's  
 18 products support at least Release 8, et seq. of the 4G LTE standard.

19 38. Upon information and belief, LG's products also include software  
 20 and associated hardware that prioritize the transmission of data generated by  
 21 various applications that run on these LG products, and in doing such prioritization  
 22 utilize the claimed inventions of the patents asserted in this action.

### 23 **INFRINGEMENT OF U.S. PATENT NO. 8,787,924**

24 39. On July 22, 2014, United States Patent No. 8,787,924 ("the '924  
 25 Patent") was duly and legally issued for inventions entitled "Methods and Systems  
 26 for Transmission of Multiple Modulated Signals Over Wireless Networks." WI-  
 27

1 LAN INC. owns the ‘924 Patent and holds the right to sue and recover damages for  
2 infringement thereof.

3 40. On information and belief, Defendants have directly infringed and  
4 continue to directly infringe numerous claims of the ‘924 Patent, including at least  
5 claims 1 and 17, by manufacturing, using, selling, offering to sell, and/or importing  
6 their respective accused 4G LTE devices. Defendants are liable for infringement of  
7 the ‘924 Patent pursuant to 35 U.S.C. § 271(a).

8 41. For example, the LG accused 4G LTE devices comply with the 4G  
9 LTE standards, including the UL-SCH data transfer procedure specified by 3GPP  
10 TS 36.321 at section 5.4. In particular, the accused 4G LTE devices first transmit a  
11 Scheduling Request (*i.e.*, “a one bit message to the base station to request an  
12 allocation of UL bandwidth in which to transmit a bandwidth request”) and then  
13 subsequently transmit a Buffer Status Report (*i.e.*, a “bandwidth request indicative  
14 of an amount of pending UL data”). Thereafter, the accused devices dynamically  
15 allocate the assigned UL bandwidth amongst their respective “UL services based  
16 on a QoS parameter of a respective service.”

17 42. Defendants have been and are now indirectly infringing at least one  
18 claim of the ‘924 Patent in accordance with 35 U.S.C. § 271(b) in this district and  
19 elsewhere in the United States. More specifically, Defendants have been and are  
20 now actively inducing direct infringement by other persons (*e.g.*, Defendants’  
21 customers who use, sell or offer for sale products that embody and/or otherwise  
22 practice one or more claims of the ‘924 Patent).

23 43. By at least the filing of the complaint in Case No. 3:17-cv-00358-  
24 BEN-MDD on February 22, 2017, and by at least the filing of this complaint,  
25 Defendants had knowledge of the ‘924 Patent, and that their actions resulted in a  
26 direct infringement of the ‘924 Patent, and knew or were willfully blind that their  
27

1 actions would induce direct infringement by others and intended that their actions  
2 would induce direct infringement by others.

3 44. Defendants actively induce such infringement by, among other things,  
4 providing user manuals and other instruction material for their devices that induce  
5 their customers to use Defendants' devices in their normal and customary way to  
6 infringe the '924 Patent. For example, LG's website provides instructions for  
7 using the LG devices on 4G LTE networks. *See, e.g.*, [http://www.lg.com/us/4g-](http://www.lg.com/us/4g-lte-phones)  
8 [lte-phones](http://www.lg.com/us/4g-lte-phones) (noting that "LG 4G LTE phones feature forward-thinking designs and  
9 innovative technology" and emphasizing the "4G LTE phone Network," which  
10 permits the accused LG 4G LTE devices to "stay connected wherever you go on a  
11 super-fast LTE network, for seamless and reliable use."). As does LG's user  
12 documentation for the accused devices. *See, e.g.*, [http://www.lg.com/us/support-](http://www.lg.com/us/support-mobile/lg-H910-Silver)  
13 [mobile/lg-H910-Silver](http://www.lg.com/us/support-mobile/lg-H910-Silver) (encouraging customers to use the "Enhanced LTE  
14 Service"). Through its manufacture and sales of their devices, Defendants  
15 specifically intended for their customers to infringe the '924 Patent. Further,  
16 Defendants were aware that these normal and customary activities would infringe  
17 the '924 Patent. Defendants performed the acts that constitute induced  
18 infringement, and that would induce actual infringement, with knowledge of the  
19 '924 Patent and with the knowledge or willful blindness that the induced acts  
20 would constitute direct infringement.

21 45. Accordingly, a reasonable inference is that Defendants specifically  
22 intend for others, such as their customers, to directly infringe one or more claims  
23 of the '924 Patent in the United States because Defendants had knowledge of the  
24 '924 Patent and actively induced others (*e.g.*, its customers) to directly infringe the  
25 '924 Patent by using, selling, or offering to sell Defendants' 4G LTE devices.

26 46. Defendants have been and are now indirectly infringing at least one  
27 claim of the '924 Patent in accordance with 35 U.S.C. § 271(c) in this district and

1 elsewhere in the United States. More specifically, Defendants have been and are  
2 now providing non-staple articles of commerce to others for use in an infringing  
3 system or method with knowledge of the '924 Patent, and with knowledge that the  
4 use of their products resulted in a direct infringement of the '924 Patent by their  
5 customers, and with knowledge that these non-staple articles of commerce are used  
6 as a material part of the claimed invention of the '924 Patent.

7 47. Defendants' devices compliant with 4G LTE include components  
8 comprising an application processor and a baseband processor specifically  
9 designed to support communication and transmission of data over 4G LTE-  
10 compliant networks. These components are mounted to a circuit board in  
11 Defendants' accused devices and, absent these components, Defendants' devices  
12 compliant with 4G LTE would not function in an acceptable manner to send or  
13 receive data over 4G LTE networks. A reasonable inference to be drawn from the  
14 facts set forth is that these components in Defendants' devices are especially made  
15 or especially adapted to operate in the accused devices to provide wireless  
16 communication, including the transmission of data in accordance with the 4G LTE  
17 standard. Further, a reasonable inference to be drawn from the facts is that these  
18 components comprising an application processor and a baseband processor are  
19 intended to support communication of data over a 4G LTE network and are not  
20 staple articles or commodities of commerce, and that the use of the components is  
21 required for operation of the devices to send or receive data over a 4G LTE-  
22 compliant network. Any other use would be unusual, far-fetched, illusory,  
23 occasional, aberrant, or experimental.

24 48. The components comprising an application processor and a baseband  
25 processor designed to support communication of data using 4G LTE in  
26 Defendants' devices are each a material part of the invention of the '924 Patent and  
27 are especially made for the infringing manufacture, sale, and use of Defendants'

1 accused devices. Defendants’ devices, including those components, are especially  
2 made or adapted to infringe the ‘924 Patent, and have no substantial non-infringing  
3 uses.

4 49. The ‘924 Patent is valid and enforceable.

5 50. Defendants’ infringement of the ‘924 Patent has damaged Wi-LAN,  
6 and Defendants are liable to Wi-LAN in an amount to be determined at trial that  
7 compensates Wi-LAN for the infringement, which by law can be no less than a  
8 reasonable royalty.

9 51. As a result of Defendants’ infringement of the ‘924 Patent, Wi-LAN  
10 has suffered irreparable harm and will continue to suffer loss and injury unless  
11 Defendants are enjoined by this Court.

12 **INFRINGEMENT OF U.S. PATENT NO. 9,497,743**

13 52. On November 15, 2016, United States Patent No. 9,497.743 (“the  
14 ‘743 Patent”) was duly and legally issued for inventions entitled “Methods and  
15 Systems for Transmission of Multiple Modulated Signals Over Wireless  
16 Networks.” WI-LAN INC. owns the ‘743 Patent and holds the right to sue and  
17 recover damages for infringement thereof.

18 53. On information and belief, Defendants have directly infringed and  
19 continue to directly infringe numerous claims of the ‘743 Patent, including at least  
20 claims 1 and 6, by manufacturing, using, selling, offering to sell, and/or importing  
21 their respective accused 4G LTE devices. Defendants are liable for infringement of  
22 the ‘743 Patent pursuant to 35 U.S.C. § 271(a).

23 54. For example, the LG accused 4G LTE devices comply with the 4G  
24 LTE standards, including the UL-SCH data transfer procedure specified by 3GPP  
25 TS 36.321 at section 5.4. In particular, the accused 4G LTE devices first transmit a  
26 Scheduling Request (*i.e.*, “an explicit message to the base station informing the  
27 base station that the cellular telephone has data awaiting transmission to the base

1 station over the UL connection between the cellular telephone and the base  
2 station”) and then subsequently transmit a Buffer Status Report (*i.e.*, a  
3 “information indicative of an amount of data awaiting transmission to the base  
4 station over the UL connection between the cellular telephone and the base  
5 station”).

6 55. Defendants have been and are now indirectly infringing at least one  
7 claim of the ‘743 Patent in accordance with 35 U.S.C. § 271(b) in this district and  
8 elsewhere in the United States. More specifically, Defendants have been and are  
9 now actively inducing direct infringement by other persons (*e.g.*, Defendants’  
10 customers who use, sell or offer for sale products that embody and/or otherwise  
11 practice one or more claims of the ‘743 Patent).

12 56. By at least the filing of the complaint in Case No. 3:17-cv-00358-  
13 BEN-MDD on February 22, 2017, and by at least the filing of this complaint,  
14 Defendants had knowledge of the ‘743 Patent, and that their actions resulted in a  
15 direct infringement of the ‘743 Patent, and knew or were willfully blind that their  
16 actions would induce direct infringement by others and intended that their actions  
17 would induce direct infringement by others.

18 57. Defendants actively induce such infringement by, among other things,  
19 providing user manuals and other instruction material for their devices that induce  
20 their customers to use Defendants’ devices in their normal and customary way to  
21 infringe the ‘743 Patent. For example, LG’s website provides instructions for  
22 using the LG devices on 4G LTE networks. *See, e.g.*, [http://www.lg.com/us/4g-](http://www.lg.com/us/4g-lte-phones)  
23 [lte-phones](http://www.lg.com/us/4g-lte-phones) (noting that “LG 4G LTE phones feature forward-thinking designs and  
24 innovative technology” and emphasizing the “4G LTE phone Network,” which  
25 permits the accused LG 4G LTE devices to “stay connected wherever you go on a  
26 super-fast LTE network, for seamless and reliable use.”). As does LG’s user  
27 documentation for the accused devices. *See, e.g.*, <http://www.lg.com/us/support->

1 mobile/lg-H910-Silver (encouraging customers to use the “Enhanced LTE  
2 Service”). Through its manufacture and sales of their devices, Defendants  
3 specifically intended for their customers to infringe the ‘743 Patent. Further,  
4 Defendants were aware that these normal and customary activities would infringe  
5 the ‘743 Patent. Defendants performed the acts that constitute induced  
6 infringement, and that would induce actual infringement, with knowledge of the  
7 ‘743 Patent and with the knowledge or willful blindness that the induced acts  
8 would constitute direct infringement.

9 58. Accordingly, a reasonable inference is that Defendants specifically  
10 intend for others, such as their customers, to directly infringe one or more claims  
11 of the ‘743 Patent in the United States because Defendants had knowledge of the  
12 ‘743 Patent and actively induced others (*e.g.*, its customers) to directly infringe the  
13 ‘743 Patent by using, selling, or offering to sell Defendants’ 4G LTE devices.

14 59. Defendants have been and are now indirectly infringing at least one  
15 claim of the ‘743 Patent in accordance with 35 U.S.C. § 271(c) in this district and  
16 elsewhere in the United States. More specifically, Defendants have been and are  
17 now providing non-staple articles of commerce to others for use in an infringing  
18 system or method with knowledge of the ‘743 Patent, and with knowledge that the  
19 use of their products resulted in a direct infringement of the ‘743 Patent by their  
20 customers, and with knowledge that these non-staple articles of commerce are used  
21 as a material part of the claimed invention of the ‘743 Patent.

22 60. Defendants’ devices compliant with 4G LTE include components  
23 comprising an application processor and a baseband processor specifically  
24 designed to support communication and transmission of data over 4G LTE-  
25 compliant networks. These components are mounted to a circuit board in  
26 Defendants’ accused devices and, absent these components, Defendants’ devices  
27 compliant with 4G LTE would not function in an acceptable manner to send or



1 receive data over 4G LTE networks. A reasonable inference to be drawn from the  
2 facts set forth is that these components in Defendants' devices are especially made  
3 or especially adapted to operate in the accused devices to provide wireless  
4 communication, including the transmission of data in accordance with the 4G LTE  
5 standard. Further, a reasonable inference to be drawn from the facts is that these  
6 components comprising an application processor and a baseband processor are  
7 intended to support communication of data over a 4G LTE network and are not  
8 staple articles or commodities of commerce, and that the use of the components is  
9 required for operation of the devices to send or receive data over a 4G LTE-  
10 compliant network. Any other use would be unusual, far-fetched, illusory,  
11 occasional, aberrant, or experimental.

12 61. The components comprising an application processor and a baseband  
13 processor designed to support communication of data using 4G LTE in  
14 Defendants' devices are each a material part of the invention of the '743 Patent and  
15 are especially made for the infringing manufacture, sale, and use of Defendants'  
16 accused devices. Defendants' devices, including those components, are especially  
17 made or adapted to infringe the '743 Patent, and have no substantial non-infringing  
18 uses.

19 62. The '743 Patent is valid and enforceable.

20 63. Defendants' infringement of the '743 Patent has damaged Wi-LAN,  
21 and Defendants are liable to Wi-LAN in an amount to be determined at trial that  
22 compensates Wi-LAN for the infringement, which by law can be no less than a  
23 reasonable royalty.

24 64. As a result of Defendants' infringement of the '743 Patent, Wi-LAN  
25 has suffered irreparable harm and will continue to suffer loss and injury unless  
26 Defendants are enjoined by this Court.

27

**INFRINGEMENT OF U.S. PATENT NO. 8,867,351**

1  
2 65. On October 21, 2014, United States Patent No. 8,867,351 (“the ‘351  
3 Patent”) was duly and legally issued for inventions entitled “Apparatus, System,  
4 and Method for the Transmission of Data with Different QoS Attributes.” WI-LAN  
5 INC. owns the ‘351 Patent and holds the right to sue and recover damages for  
6 infringement thereof.

7 66. On information and belief, Defendants have directly infringed and  
8 continue to directly infringe numerous claims of the ‘351 Patent, including at least  
9 claims 1 and 7, by manufacturing, using, selling, offering to sell, and/or importing  
10 their respective accused 4G LTE devices. Defendants are liable for infringement of  
11 the ‘351 Patent pursuant to 35 U.S.C. § 271(a).

12 67. For example, the LG accused 4G LTE devices comply with the 4G  
13 LTE standards, including the UL-SCH data transfer procedure specified by 3GPP  
14 TS 36.321 at section 5.4 and, even more specifically, the Logical Channel  
15 Prioritization procedure specified at section 5.4.3.1. In particular, the accused 4G  
16 LTE devices transfer data on “logical channels.” Prior to transfer, the MAC entity  
17 (*i.e.*, “link controller”) queues data into “logical channel queues” that can have a  
18 “priority” and a prioritized bit rate (*i.e.*, “traffic shaping rate”). The accused 4G  
19 LTE devices then examine the available channels to determine which queues to  
20 assign to which channels, and attempt to fill the transmission capacity of the  
21 channels. In this way, highest priority transmissions will be made first.

22 68. Defendants have been and are now indirectly infringing at least one  
23 claim of the ‘351 Patent in accordance with 35 U.S.C. § 271(b) in this district and  
24 elsewhere in the United States. More specifically, Defendants have been and are  
25 now actively inducing direct infringement by other persons (*e.g.*, Defendants’  
26 customers who use, sell or offer for sale products that embody and/or otherwise  
27 practice one or more claims of the ‘351 Patent).

1           69. By at least the filing of the complaint in Case No. 3:17-cv-00358-  
2 BEN-MDD on February 22, 2017, and by at least the filing of this complaint,  
3 Defendants had knowledge of the ‘351 Patent, and that their actions resulted in a  
4 direct infringement of the ‘351 Patent, and knew or were willfully blind that their  
5 actions would induce direct infringement by others and intended that their actions  
6 would induce direct infringement by others.

7           70. Defendants actively induce such infringement by, among other things,  
8 providing user manuals and other instruction material for their devices that induce  
9 their customers to use Defendants’ devices in their normal and customary way to  
10 infringe the ‘351 Patent. For example, LG’s website provides instructions for  
11 using the LG devices on 4G LTE networks. *See, e.g.*, [http://www.lg.com/us/4g-](http://www.lg.com/us/4g-lte-phones)  
12 [lte-phones](http://www.lg.com/us/4g-lte-phones) (noting that “LG 4G LTE phones feature forward-thinking designs and  
13 innovative technology” and emphasizing the “4G LTE phone Network,” which  
14 permits the accused LG 4G LTE devices to “stay connected wherever you go on a  
15 super-fast LTE network, for seamless and reliable use.”). As does LG’s user  
16 documentation for the accused devices. *See, e.g.*, [http://www.lg.com/us/support-](http://www.lg.com/us/support-mobile/lg-H910-Silver)  
17 [mobile/lg-H910-Silver](http://www.lg.com/us/support-mobile/lg-H910-Silver) (encouraging customers to use the “Enhanced LTE  
18 Service”). Through its manufacture and sales of their devices, Defendants  
19 specifically intended for their customers to infringe the ‘351 Patent. Further,  
20 Defendants were aware that these normal and customary activities would infringe  
21 the ‘351 Patent. Defendants performed the acts that constitute induced  
22 infringement, and that would induce actual infringement, with knowledge of the  
23 ‘351 Patent and with the knowledge or willful blindness that the induced acts  
24 would constitute direct infringement.

25           71. Accordingly, a reasonable inference is that Defendants specifically  
26 intend for others, such as their customers, to directly infringe one or more claims  
27 of the ‘351 Patent in the United States because Defendants had knowledge of the

1 '351 Patent and actively induced others (*e.g.*, its customers) to directly infringe the  
2 '351 Patent by using, selling, or offering to sell Defendants' 4G LTE devices.

3 72. Defendants have been and are now indirectly infringing at least one  
4 claim of the '351 Patent in accordance with 35 U.S.C. § 271(c) in this district and  
5 elsewhere in the United States. More specifically, Defendants have been and are  
6 now providing non-staple articles of commerce to others for use in an infringing  
7 system or method with knowledge of the '351 Patent, and with knowledge that the  
8 use of their products resulted in a direct infringement of the '351 Patent by their  
9 customers, and with knowledge that these non-staple articles of commerce are used  
10 as a material part of the claimed invention of the '351 Patent.

11 73. Defendants' devices compliant with 4G LTE include components  
12 comprising an application processor and a baseband processor specifically  
13 designed to support communication and transmission of data over 4G LTE-  
14 compliant networks. These components are mounted to a circuit board in  
15 Defendants' accused devices and, absent these components, Defendants' devices  
16 compliant with 4G LTE would not function in an acceptable manner to send or  
17 receive data over 4G LTE networks. A reasonable inference to be drawn from the  
18 facts set forth is that these components in Defendants' devices are especially made  
19 or especially adapted to operate in the accused devices to provide wireless  
20 communication, including the transmission of data in accordance with the 4G LTE  
21 standard. Further, a reasonable inference to be drawn from the facts is that these  
22 components comprising an application processor and a baseband processor are  
23 intended to support communication of data over a 4G LTE network and are not  
24 staple articles or commodities of commerce, and that the use of the components is  
25 required for operation of the devices to send or receive data over a 4G LTE-  
26 compliant network. Any other use would be unusual, far-fetched, illusory,  
27 occasional, aberrant, or experimental.

1           74. The components comprising an application processor and a baseband  
2 processor designed to support communication of data using 4G LTE in  
3 Defendants' devices are each a material part of the invention of the '351 Patent and  
4 are especially made for the infringing manufacture, sale, and use of Defendants'  
5 accused devices. Defendants' devices, including those components, are especially  
6 made or adapted to infringe the '351 Patent, and have no substantial non-infringing  
7 uses.

8           75. The '351 Patent is valid and enforceable.

9           76. Defendants' infringement of the '351 Patent has damaged Wi-LAN,  
10 and Defendants are liable to Wi-LAN in an amount to be determined at trial that  
11 compensates Wi-LAN for the infringement, which by law can be no less than a  
12 reasonable royalty.

13           77. As a result of Defendants' infringement of the '351 Patent, Wi-LAN  
14 has suffered irreparable harm and will continue to suffer loss and injury unless  
15 Defendants are enjoined by this Court.

16                           **INFRINGEMENT OF U.S. PATENT NO. 9,226,320**

17           78. On December 29, 2015, United States Patent No. 9,226,320 ("the '320  
18 Patent") was duly and legally issued for inventions entitled "Pre-Allocated  
19 Random Access Identifiers." WI-LAN INC. owns the '320 Patent and holds the  
20 right to sue and recover damages for infringement thereof.

21           79. On information and belief, Defendants LG have directly infringed and  
22 continue to directly infringe numerous claims of the '320 Patent, including at least  
23 claim 27, by manufacturing, using, selling, offering to sell, and/or importing their  
24 respective accused 4G LTE devices. Defendants are liable for infringement of the  
25 '320 Patent pursuant to 35 U.S.C. § 271(a).

26           80. For example, the LG accused 4G LTE devices comply with the 4G  
27 LTE standards, including the non-contention based random access procedure

1 specified by 3GPP TS 36.300 at section 10.1.5.2. In particular, during handover,  
2 the accused 4G LTE devices receive an information element (IE) message  
3 (RACH-ConfigDedicated) that explicitly signals the non-contention Random  
4 Access Preamble for use on the random access channel (*i.e.*, “an indication of a  
5 non-contention reserved access identifier”) that uniquely identifies the mobile  
6 device, as well as System Information Blocks containing Random Access Channel  
7 related configuration information (*i.e.*, “information about a shared random access  
8 channel”). The accused 4G LTE devices then transmit the assigned non-contention  
9 Random Access preamble to the target base station. Next, the accused 4G LTE  
10 devices receive from the target base station a Random Access Response that  
11 conveys Timing Alignment information (*i.e.*, a feedback message comprising a  
12 timing adjustment”), including a timing advance command. Finally, the accused  
13 4G LTE devices adjust uplink transmission timing (*i.e.*, “adjust uplink transmission  
14 timing”).

15 81. Defendants have been and are now indirectly infringing at least one  
16 claim of the ‘320 Patent in accordance with 35 U.S.C. § 271(b) in this district and  
17 elsewhere in the United States. More specifically, Defendants have been and are  
18 now actively inducing direct infringement by other persons (*e.g.*, Defendants’  
19 customers who use, sell or offer for sale products that embody and/or otherwise  
20 practice one or more claims of the ‘320 Patent).

21 82. By at least the filing of the complaint in Case No. 3:17-cv-00358-  
22 BEN-MDD on February 22, 2017, and by at least the filing of this complaint,  
23 Defendants had knowledge of the ‘320 Patent, and that their actions resulted in a  
24 direct infringement of the ‘320 Patent, and knew or were willfully blind that their  
25 actions would induce direct infringement by others and intended that their actions  
26 would induce direct infringement by others.

1           83. Defendants actively induce such infringement by, among other things,  
2 providing user manuals and other instruction material for their devices that induce  
3 their customers to use Defendants' devices in their normal and customary way to  
4 infringe the '320 Patent. For example, LG's website provides instructions for  
5 using the LG devices on 4G LTE networks. *See, e.g.*, [http://www.lg.com/us/4g-](http://www.lg.com/us/4g-lte-phones)  
6 [lte-phones](http://www.lg.com/us/4g-lte-phones) (noting that "LG 4G LTE phones feature forward-thinking designs and  
7 innovative technology" and emphasizing the "4G LTE phone Network," which  
8 permits the accused LG 4G LTE devices to "stay connected wherever you go on a  
9 super-fast LTE network, for seamless and reliable use."). As does LG's user  
10 documentation for the accused devices. *See, e.g.*, [http://www.lg.com/us/support-](http://www.lg.com/us/support-mobile/lg-H910-Silver)  
11 [mobile/lg-H910-Silver](http://www.lg.com/us/support-mobile/lg-H910-Silver) (encouraging customers to use the "Enhanced LTE  
12 Service"). Through its manufacture and sales of their devices, Defendants  
13 specifically intended for their customers to infringe the '320 Patent. Further,  
14 Defendants were aware that these normal and customary activities would infringe  
15 the '320 Patent. Defendants performed the acts that constitute induced  
16 infringement, and that would induce actual infringement, with knowledge of the  
17 '320 Patent and with the knowledge or willful blindness that the induced acts  
18 would constitute direct infringement.

19           84. Accordingly, a reasonable inference is that Defendants specifically  
20 intend for others, such as their customers, to directly infringe one or more claims  
21 of the '320 Patent in the United States because Defendants had knowledge of the  
22 '320 Patent and actively induced others (*e.g.*, its customers) to directly infringe the  
23 '320 Patent by using, selling, or offering to sell Defendants' 4G LTE devices.

24           85. Defendants have been and are now indirectly infringing at least one  
25 claim of the '320 Patent in accordance with 35 U.S.C. § 271(c) in this district and  
26 elsewhere in the United States. More specifically, Defendants have been and are  
27 now providing non-staple articles of commerce to others for use in an infringing

1 system or method with knowledge of the '320 Patent, and with knowledge that the  
2 use of their products resulted in a direct infringement of the '320 Patent by their  
3 customers, and with knowledge that these non-staple articles of commerce are used  
4 as a material part of the claimed invention of the '320 Patent.

5 86. Defendants' devices compliant with 4G LTE include components  
6 comprising an application processor and a baseband processor specifically  
7 designed to support communication and transmission of data over 4G LTE-  
8 compliant networks. These components are mounted to a circuit board in  
9 Defendants' accused devices and, absent these components, Defendants' devices  
10 compliant with 4G LTE would not function in an acceptable manner to send or  
11 receive data over 4G LTE networks. A reasonable inference to be drawn from the  
12 facts set forth is that these components in Defendants' devices are especially made  
13 or especially adapted to operate in the accused devices to provide wireless  
14 communication, including the transmission of data in accordance with the 4G LTE  
15 standard. Further, a reasonable inference to be drawn from the facts is that these  
16 components comprising an application processor and a baseband processor are  
17 intended to support communication of data over a 4G LTE network and are not  
18 staple articles or commodities of commerce, and that the use of the components is  
19 required for operation of the devices to send or receive data over a 4G LTE-  
20 compliant network. Any other use would be unusual, far-fetched, illusory,  
21 occasional, aberrant, or experimental.

22 87. The components comprising an application processor and a baseband  
23 processor designed to support communication of data using 4G LTE in  
24 Defendants' devices are each a material part of the invention of the '320 Patent and  
25 are especially made for the infringing manufacture, sale, and use of Defendants'  
26 accused devices. Defendants' devices, including those components, are especially  
27



1 made or adapted to infringe the ‘320 Patent, and have no substantial non-infringing  
2 uses.

3 88. The ‘320 Patent is valid and enforceable.

4 89. Defendants’ infringement of the ‘320 Patent has damaged Wi-LAN,  
5 and Defendants are liable to Wi-LAN in an amount to be determined at trial that  
6 compensates Wi-LAN for the infringement, which by law can be no less than a  
7 reasonable royalty.

8 90. As a result of Defendants’ infringement of the ‘320 Patent, Wi-LAN  
9 has suffered irreparable harm and will continue to suffer loss and injury unless  
10 Defendants are enjoined by this Court.

11 **WILLFUL INFRINGEMENT**

12 91. Prior to the filing of this complaint, Defendants knew or should have  
13 known that they infringed the patents-in-suit. On April 7, 2016, Wi-LAN invited  
14 LG to renew its license to Wi-LAN’s “wireless portfolio,” including its patents  
15 covering “LTE.” LG knew or reasonably should have known based on its prior  
16 license that such patents in the “wireless portfolio” covering “LTE” included the  
17 three patents-in-suit. Yet despite repeated requests from Wi-LAN on May 16, June  
18 10, and June 27, 2016, LG declined to substantively engage in licensing  
19 negotiations with Wi-LAN or take a license.

20 92. Accordingly, LG has had knowledge, or reasonably should have had  
21 knowledge, of the patents-in-suit since at least April 7, 2016 and certainly by the  
22 filing of the complaint in Case No. 3:17-cv-00358-BEN-MDD on February 22,  
23 2017, and by the filing of this complaint. Despite such knowledge, Defendants  
24 have proceeded to infringe the patents-in-suit with full and complete knowledge of  
25 their applicability to their respective 4G LTE products without taking a license and  
26 without a good faith belief that the patents-in-suit are invalid and not infringed.  
27 Defendants’ infringement of the patents-in-suit thus occurs with knowledge of

1 infringement and/or objective recklessness and has been and continues to be willful  
2 and deliberate. Thus, Defendants' infringement of the patents-in-suit is willful and  
3 deliberate, entitling Wi-LAN to increased damages under 35 U.S.C. § 284 and to  
4 attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C. § 285.

5 **PRAYER FOR RELIEF**

6 WHEREFORE, Wi-LAN prays for the following relief:

7 93. A judgment in favor of Wi-LAN that Defendants have infringed and  
8 are infringing U.S. Patent Nos. 8,787,924; 8,867,351; 9,226,320; and 9,497,743.

9 94. An order permanently enjoining Defendants, their respective officers,  
10 agents, employees, and those acting in privity with it, from further direct and/or  
11 indirect infringement of U.S. Patent Nos. 8,787,924; 8,867,351; 9,226,320; and  
12 9,497,743.

13 95. An award of damages to Wi-LAN arising out of Defendants'  
14 infringement of U.S. Patent Nos. 8,787,924; 8,867,351; 9,226,320; and 9,497,743,  
15 including enhanced damages pursuant to 35 U.S.C. § 284, together with  
16 prejudgment and post-judgment interest, in an amount according to proof;

17 96. An award of an ongoing royalty for Defendants' post-judgment  
18 infringement in an amount according to proof;

19 97. Declaring that Defendants' infringement is willful and that this is an  
20 exceptional case under 35 U.S.C. § 285 and awarding attorneys' fees and costs in  
21 this action.

22 98. Granting Wi-LAN its costs and further relief as the Court may deem  
23 just and proper.

24 **DEMAND FOR JURY TRIAL**

25 99. Wi-LAN demands a trial by jury of any and all issues triable of right  
26 before a jury.

1 Dated: July 11, 2018

By: /s/ Victor M. Felix

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