

**IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF DELAWARE**

AEGIS 11 S.A.,

Plaintiff,

v.

TTE TECHNOLOGY, INC.,

Defendant.

Civil Action No. 1:19-cv-01165-RGA

JURY TRIAL DEMANDED

FIRST AMENDED COMPLAINT FOR PATENT INFRINGEMENT

Plaintiff Aegis 11 S.A. (“Aegis 11” or “Plaintiff”), for its Complaint against TTE Technology, Inc. (“Defendant” or “TTE”), alleges the following:

NATURE OF THE ACTION

1. This is an action for patent infringement arising under the Patent Laws of the United States, 35 U.S.C. § 1 *et seq.*

THE PARTIES

2. Aegis 11 is a corporation organized under the laws of Luxembourg with a place of business at 6, Avenue Marie Thérèse 2132 Luxembourg, Grand Duchy of Luxembourg.

3. Upon information and belief, TTE Technology, Inc. is a subsidiary of TCL Corporation. TTE Technology, Inc. is a Delaware corporation with a place of business at 101 West 103rd Street, Indianapolis, Indiana 46290, and can be served through its registered agent, Business Filings Incorporated, 108 West 13th Street, Wilmington, Delaware 19801.

TTE Technology, Inc. provides sales, research, and development support in North America for its ultimate parent, TCL Corporation. TTE Technology, Inc. makes, uses, sells, offers for sale, and/or imports products and services throughout the United States, including in this judicial

district, and introduces products and services into the stream of commerce that incorporate infringing technology knowing that they would be sold in this judicial district and elsewhere in the United States.

JURISDICTION AND VENUE

4. This is an action for patent infringement arising under the Patent Laws of the United States, Title 35 of the United States Code.

5. This Court has subject matter jurisdiction under 28 U.S.C. §§ 1331 and 1338(a).

6. Venue is proper in this judicial district under 28 U.S.C. § 1400(b). Defendant TTE Technology, Inc. is incorporated in the State of Delaware.

7. This Court has general and specific personal jurisdiction over Defendant. Defendant has sufficient minimum contacts within the State of Delaware and this District, pursuant to due process and/or the Del. Code Ann. Tit. 3, § 3104, because Defendant purposefully availed themselves of the privileges of conducting business in the State of Delaware and in this District, because Defendant regularly conducts and solicits business within the State of Delaware and within this District, and because Plaintiff's causes of action arise directly from Defendant's business contacts and other activities in the State of Delaware and this District. Further, this Court has personal jurisdiction over Defendant TTE Technology, Inc. because it is incorporated in Delaware and has purposely availed itself of the privileges and benefits of the laws of the State of Delaware.

BACKGROUND

8. This action involves three patents, described in detail in the counts below (collectively, the "Asserted Patents").

9. U.S. Patent No. 6,839,553 (“the ’553 patent”), claims technologies for managing operational parameters in terminal devices in wireless networks that were developed in the late 1990s by LG scientist Hyoung Sun Park.

10. U.S. Patent No. 9,848,443 (“the ’443 patent”) claims technologies for accessing a channel to support wideband in a wireless communication system that were developed in the late 2000s by LG scientist Yong Ho Seok.

11. U.S. Patent No. 9,584,200 (“the ’200 patent”) claims technologies for transmitting control information in a wireless communication system that were developed in the late 2000s by LG scientists Hyun Soo Ko and others.

12. U.S. Patent No. 9,350,434 (“the ’434 patent”), claims technologies for channel sounding between stations in a wireless local area network system that were developed in the late 2000s by LG scientists Ill Soo Sohn and others.

13. LG was actively involved with standards-development organizations that developed industry standards relevant to LG’s product portfolios, including LG’s Wi-Fi enabled consumer electronic goods.

14. The Institute of Electrical and Electronics Engineers (IEEE) is a leading standards-development organization for the development of industrial standards (having developed over 900 active industry technical standards) in a broad range of disciplines, including electric power and energy, telecommunications, consumer electronics, biomedical technology and healthcare-information technology, information assurance, transportation, aerospace, and nanotechnology.

15. Today, IEEE is the world’s largest association of technical professionals with more than 420,000 members in over 160 countries around the world. Its objectives are the

educational and technical advancement of electrical and electronic engineering, telecommunications, computer engineering, and allied disciplines.

16. The IEEE 802.11 standards, created by the IEEE, are a set of media access control (MAC) and physical layer (PHY) specifications for implementing wireless local area network (WLAN) computer communication in the 900 MHz and 2.4, 3.6, 5, and 60 GHz frequency bands.

17. The IEEE 802.11 standards are created and maintained by the IEEE LAN/MAN Standards Committee (IEEE 802). The base version of IEEE 802.11 was released in 1997 and has had subsequent amendments. The standard and amendments provide the basis for wireless network products using the Wi-Fi brand.

18. IEEE Std. 802.11-2016, commonly shortened to 802.11-2016, is a revision based on the IEEE 802.11-2012 wireless-networking standard, and further incorporates five amendments, including 802.11ac-2013 (commonly shortened to 802.11ac).

19. 802.11ac is an amendment to IEEE 802.11, published in December 2013, and builds on 802.11n. The goal of 802.11n was to improve network throughput over the two previous standards—802.11a and 802.11g—with a significant increase in the maximum net data rate from 54 Mbit/s to 600 Mbit/s (slightly higher gross bit rate, including, for example, error-correction codes, and slightly lower maximum throughput) with the use of four spatial streams at a channel width of 40 MHz.

20. Changes in 802.11ac compared to 802.11n include wider channels (80 or 160 MHz versus 40 MHz) in the 5 GHz band, more spatial streams (up to eight versus four), higher-order modulation (up to 256-QAM vs. 64-QAM), and the addition of Multi-user MIMO (MU-MIMO). While initial implementations supported 80 MHz channels, three spatial streams, and

256-QAM, in 80 MHz channels in the 5 GHz band, more recent devices support 160 MHz channels, four spatial streams, and MU-MIMO.

21. The 802.11ac standard has enabled increased efficiency, as evidenced by the fact that most high-end, Wi-Fi-enabled consumer electronics on the market are 802.11ac compliant. The majority of products adopting this technological advance are advertised as being compliant with the standard, and companies regularly list their product as compliant with this particular standard on trade group web sites (such as the Wi-Fi Alliance website).

22. In or about May 2018, Sisvel International S.A. (“Sisvel”) acquired the ’553 patent from LG.

23. In or about June 2019, Aegis 11 acquired the ’553 patent from Sisvel.

24. In or about April 2019, Aegis 11 acquired the remaining Asserted Patents from LG.

COUNT I – INFRINGEMENT OF U.S. PATENT NO. 6,839,553

25. The allegations set forth in the foregoing paragraphs 1 through 24 are incorporated into this First Claim for Relief.

26. On January 4, 2005, U.S. Patent No. 6,839,553 (“the ’553 patent”), entitled “Method of Managing Mobile Station Operational Parameters,” was duly and legally issued by the United States Patent and Trademark Office. A true and correct copy of the ’553 patent is attached as Exhibit A.

27. Aegis 11 holds the exclusive right to assert all causes of action arising under the ’553 patent and the right to collect any remedies for infringement thereof.

28. The inventions claimed in the ’553 patent relate to technologies for managing operational parameters in terminal devices in wireless networks. Such technologies are a required part of Wi-Fi Protected Access 2 (“WPA2”) and Wi-Fi Protected Access 3 (“WPA3”)

network security protocols that were first incorporated into IEEE Standard 802.11i-2004 (“802.11i”) and were subsequently incorporated into later versions of the 802.11 standard, including 802.11-2007, 802.11-2012, and 802.11-2016. In fact, “Since 2006, all Wi-Fi CERTIFIED™ devices implement WPA2.” (<https://www.wi-fi.org/discover-wi-fi/security>, last accessed May 10, 2019.) Furthermore, WPA3 retains interoperability with WPA2. (*Id.*) Thus, Wi-Fi CERTIFIED™ devices and uncertified devices that nonetheless implement the mandatory WPA2 and WPA3 features of the 802.11 standard necessarily meet the claim limitations of the ’553 patent.

29. At the time of the inventions of the ’553 patent (1999), WLAN networks (e.g., those standardized in the IEEE 802.11 standards) were in their infancy. Authentication in 802.11 consisted of shared secret one-way authentication (e.g., using WEP), meaning the mobile station had to prove its identity to the access point but not the other way around. Therefore, at the time rogue access points could successfully intercept mobile stations and subsequently capture all packets that originated from the station. At the time of the invention, it was not common to have shared secret mutual authentication as it is expected today. (*See* Ex. G at ¶ 16.)

30. While OTAPA and related techniques were later standardized and became more widely used (mostly in the mid-2000s), at the time of the inventions of the ’553 patent OTAPA was still little-known. This is demonstrated in the ’553 patent disclosures. Specifically, the fact that OTAPA was disclosed and described as part of the invention of PCT Application No. WO 98/41044, which was filed on March 13, 1998, and did not publish until September 17, 1998, shows that OTAPA was new and potentially subject to patent rights as of March 3, 1999. The ’553 patent specification also contrasts the (at the time) newer OTAPA techniques (Ex. A at

1:36-41) with older techniques that skilled artisans would more likely have considered to be routine and conventional at the time (Ex. A at 1:24-35). (*See* Ex. G at ¶ 18.)

31. The inventions claimed in the '553 patent provide many advantages over the prior art, and in particular improve the ability of network administrators to wirelessly change operational parameters installed in a communication apparatus such as base station or mobile station. One advantage of the patented inventions is providing a mutual authentication procedure for the mobile station such that operational parameters may not be changed by unauthorized persons, while maintaining the same number of updating steps as before. (*See* Ex. A at 1:42-51; 2:3-10.)

32. The patented inventions disclosed in the '553 patent resolve technical problems related to wirelessly updating operational parameters of a communication apparatus, particularly problems related to the authentication procedure at a mobile station before an over-the-air update can be run. As the '553 patent explains, one of the limitations of the prior art regarding authentication for over-the-air updates was that an authentication procedure performed independently at the mobile station would elongate the update process and increase the load in the network. (*See* Ex. A at 1:53-59.)

33. The claims of the '553 patent recite inventive concepts that are deeply rooted in wireless communication and networking technology, and overcome problems specifically arising out of how to optimize the time and complexity of authentication procedures for updating operational parameters at a mobile station.

34. Moreover, the claims of the '553 patent recite inventive concepts that are not merely routine or conventional use of wireless networking technology. Instead, the patented inventions disclosed in the '553 patent provide novel solutions to specific problems related to

authentication at a mobile station prior to updating operational parameters. The claims of the '553 patent thus specify how messages are transmitted in a wireless communication network are manipulated to yield the desired levels of authentication and network security.

35. Upon information and belief, TTE has and continues to directly infringe at least claim 1 of the '553 patent by making, using, selling, importing and/or providing and causing to be used Wi-Fi CERTIFIED™ devices and 802.11-compliant devices (“the '553 Patent Accused Instrumentalities”), as set forth in detail in the attached preliminary and exemplary claim chart provided in Exhibit B.

36. The '553 patent teaches improved methods for managing operational parameters in mobile stations in wireless networks, specifically methods relating to parameter updates that first require mutual authentication of the mobile station and the network. (*See* Ex. G at ¶ 19.)

37. The mutual authentication described as part of the inventions of the '553 patent is itself innovative in that it authenticates both the mobile station and the network in a single process, and that process is as efficient (i.e., uses a similar number of steps or messages) as conventional one-way authentication processes. (*See* Ex. A at 2:6-11.) Column 2:6-11 of the '553 patent uses the term “the conventional procedure” to refer to standard one-way authentication techniques, but at the time of the invention there were multiple one-way authentication techniques available, including the OTASP techniques described in PCT Application No. WO 98/41044 (*see, e.g.*, p. 8:29-31). It is unclear which specific techniques or techniques column 2:6-11 of the '553 patent is referring to. (*See* Ex. G at ¶ 20.)

38. The mutual authentication described in the '553 patent specification is not the same thing as just running two independent one-way authentications. The mutual authentication described in the '553 patent is a seamless process that requires only three messages to exchange

in order to mutually authenticate two parties by each other, while running sequential but independent one-way authentications would require the exchange of at least four messages. (*See* Ex. G at ¶ 21.)

39. Even a change from four to three messages represented a significant advance at the time of the invention. Because wireless networks manage significant amounts of traffic, reducing network load during authentication by 25% represents a significant improvement in network performance and reliability. This was particularly true at the time of the invention. (*See* Ex. G at ¶ 22.)

40. Performing two-way authentication in a single, seamless process was also an advantage. For example, in the mutual authentication process of the '553 patent, the entire authentication procedure could be aborted after two messages if the mobile station is not successfully authenticated by the network (Ex. A at 2:42-46), thus saving network resources. But independent one-way authentications such as those in the prior art would each proceed regardless if the other was aborted, thereby wasting network resources when one side was aborted. (*See* Ex. G at ¶ 23.)

41. Another advantage described by the '553 patent is the increased security of two-way mutual authentication versus prior art methods of one-way authentication. (*See* Ex. A at 1:46-52, 2:1-5; Ex. G at ¶ 24.)

42. For example, as shown by the screenshots below, TTE affirmatively represents that it makes and sells products that are Wi-Fi CERTIFIED™ and/or compliant with the 802.11 standard. *See, e.g.*, <https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/55C803.pdf> (last accessed September 23, 2020);

<https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/65C807.pdf>

(last accessed September 23, 2020):

C series **C807**

4K HDR **DOLBY VISION**

Sizes Available

55" **65"**

Key Features:

- 4K Ultra HD with Dolby Vision HDR
- HDR Dynamic Contrast
- Wide Color Gamut

| TCL SERIES - C807 | |
|-----------------------|---|
| Model | 55C807 / 65C807 / 75C807 |
| Screen Class | 55" / 65" / 75" |
| Viewable Display Size | 54.6" / 64.8" / 74.5" |
| Description | 4K High Dynamic Range TCL Roku TV |
| Wi-Fi | 802.11ac 2x2 Dual Band (support 2.4GHz&5GHz) |
| Processor Type | CPU: Dual-core / GPU: Dual-core |

(<https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/65C807.pdf>.)

| TCL C-SERIES - C803 | |
|-----------------------|---|
| Model | 55C803 / 65C803 |
| Screen Class | 55" / 65" |
| Viewable Display Size | 54.6" / 64.8" |
| Description | 4K High Dynamic Range TCL Roku TV |
| Wi-Fi | 802.11ac 2x2 Dual Band (support 2.4GHz&5GHz) |
| Processor Type | CPU: Dual-core / GPU: Dual-core |

(<https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/55C803.pdf>.)

43. However, the '553 Patent Accused Instrumentalities include any and all products that TTE has or continues to make, use, sell, import and/or provide and cause to be used that are Wi-Fi CERTIFIED™ or that perform the WPA2 and/or WPA3 features of the 802.11 standard.

44. On information and belief, the '553 Patent Accused Instrumentalities are used, marketed, provided to, and/or used by or for each of TTE's partners, clients, customers and end users across the country and in this District.

45. Upon information and belief, since at least the date of this Complaint, TTE is liable as a contributory infringer of the '553 patent under 35 U.S.C. § 271(c) by offering to sell, selling and importing into the United States components to be especially made or adapted for use in an infringement of the '553 patent. The '553 Patent Accused Instrumentalities are a material component for use in practicing the '553 patent and are specifically made and are not a staple article of commerce suitable for substantial non-infringing use.

46. Plaintiff has been harmed by TTE's infringing activities.

COUNT II – INFRINGEMENT OF U.S. PATENT NO. 9,848,443

47. The allegations set forth in the foregoing paragraphs 1 through 46 are incorporated into this Second Claim for Relief.

48. On December 19, 2017, U.S. Patent No. 9,848,443 ("the '443 patent"), entitled "Method and Apparatus of Accessing Channel in Wireless Communication System," was duly and legally issued by the United States Patent and Trademark Office. A true and correct copy of the '443 patent is attached as Exhibit C.

49. Aegis 11 holds the exclusive right to assert all causes of action arising under the '443 patent and the right to collect any remedies for infringement thereof.

50. The inventions claimed in the '443 patent relate to technologies for accessing a channel to support wideband in a wireless communication system. Such technologies are a required part of the 802.11ac standard, subsequently incorporated into 802.11-2016. Accordingly, devices supporting the 802.11ac standard necessarily meet the claim limitations of the '443 patent.

51. The inventions claimed in the '443 patent provide many advantages over the prior art, and in particular improve the efficiency of radio resources by managing and using a wideband channel through a plurality of narrowband channels. One advantage of the patented inventions in efficiently operating a wideband VHT (Very High Throughput) system, as disclosed by the 802.11 standard, is to segment a wideband channel into a plurality of narrowband channels for efficiency. (*See* Ex. C at 4:28-30.)

52. Upon information and belief, TTE has and continues to directly infringe at least claims 1-10 of the '443 patent by making, using, selling, importing and/or providing and causing to be used 802.11ac-compliant devices (“the '443 Patent Accused Instrumentalities”), as set forth in detail in the attached preliminary and exemplary claim chart provided in Exhibit D.

53. For example, as shown by the screenshots below, TTE affirmatively represents that it makes and sells products compliant with the 802.11ac standard. *See, e.g.*, <https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/55C803.pdf> (last accessed September 23, 2020); <https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/65C807.pdf> (last accessed September 23, 2020):

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|-----------------------|---|
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| Processor Type | CPU: Dual-core / GPU: Dual-core |

(<https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/55C803.pdf>.)

54. However, the '443 Patent Accused Instrumentalities to include any and all products that TTE has or continues to make, use, sell, import and/or provide and cause to be used that incorporate the wideband channel access features of the 802.11 standard, whether certified for 802.11ac or other versions of the 802.11 standard.

55. On information and belief, the '443 Patent Accused Instrumentalities are used, marketed, provided to, and/or used by or for each of TTE's partners, clients, customers and end users across the country and in this District.

56. Upon information and belief, since at least the date of this Complaint, TTE is liable as a contributory infringer of the '443 patent under 35 U.S.C. § 271(c) by offering to sell, selling and importing into the United States components to be especially made or adapted for use in an infringement of the '443 patent. The '443 Patent Accused Instrumentalities are a material component for use in practicing the '443 patent and are specifically made and are not a staple article of commerce suitable for substantial non-infringing use.

57. Plaintiff has been harmed by TTE's infringing activities.

COUNT III – INFRINGEMENT OF U.S. PATENT NO. 9,584,200

58. The allegations set forth in the foregoing paragraphs 1 through 57 are incorporated into this Third Claim for Relief.

59. On February 28, 2017, U.S. Patent No. 9,584,200 ("the '200 patent"), entitled "Method for Transmitting Control Information in Multiple Antenna System," was duly and legally issued by the United States Patent and Trademark Office. A true and correct copy of the '200 patent is attached as Exhibit E.

60. Aegis 11 holds the exclusive right to assert all causes of action arising under the '200 patent and the right to collect any remedies for infringement thereof.

61. The inventions claimed in the '200 patent relate to technologies for transmitting control information in a wireless communication system, comprising dividing frequency bandwidth into ranges to which a precoding matrix index (PMI) is applied, obtaining multiple antenna information by the range to which the same PMI is applied, and transmitting the multiple antenna information. Such technologies are a required part of the 802.11ac standard,

subsequently incorporated into 802.11-2016. Accordingly, devices supporting the 802.11ac standard necessarily meet the claim limitations of the '200 patent.

62. The inventions claimed in the '200 patent provide many advantages over the prior art, and in particular improve data transmission efficiency in a wireless communication network by transmitting multiple antenna information by the unit of a range to which the same PMI is applied. (*See* Ex. E at 2:44-48.)

63. Upon information and belief, TTE has and continues to directly infringe at least claims 1, 4, 5, 6, 7, 10, 11, and 12 of the '200 patent by making, using, selling, importing and/or providing and causing to be used 802.11ac-compliant devices (“the '200 Patent Accused Instrumentalities”), as set forth in detail in the attached preliminary and exemplary claim chart provided in Exhibit F.

64. For example, as shown by the screenshots below, TTE affirmatively represents that it makes and sells products compliant with the 802.11ac standard. *See, e.g.*, <https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/55C803.pdf> (last accessed September 23, 2020); <https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/65C807.pdf> (last accessed September 23, 2020):

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65. However, the '200 Patent Accused Instrumentalities include any and all products that TTE has or continues to make, use, sell, import and/or provide and cause to be used that incorporate the wideband channel access features of the 802.11 standard, whether certified for 802.11ac or other versions of the 802.11 standard.

66. On information and belief, the '200 Patent Accused Instrumentalities are used, marketed, provided to, and/or used by or for each of TTE's partners, clients, customers and end users across the country and in this District

67. Upon information and belief, since at least the date of this Complaint, TTE is liable as a contributory infringer of the '200 patent under 35 U.S.C. § 271(c) by offering to sell, selling and importing into the United States components to be especially made or adapted for use in an infringement of the '200 patent. The '200 Patent Accused Instrumentalities are a material component for use in practicing the '200 patent and are specifically made and are not a staple article of commerce suitable for substantial non-infringing use.

68. Plaintiff has been harmed by TTE's infringing activities.

COUNT IV – INFRINGEMENT OF U.S. PATENT NO. 9,350,434

69. The allegations set forth in the foregoing paragraphs 1 through 68 are incorporated into this Fourth Claim for Relief.

70. On May 24, 2016, U.S. Patent No. 9,350,434 ("the '434 patent"), entitled "Channel Sounding Method in Wireless Local Area Network System and Apparatus for Supporting the Same," was duly and legally issued by the United States Patent and Trademark Office. A true and correct copy of the '434 patent is attached as Exhibit H.

71. Aegis 11 holds the exclusive right to assert all causes of action arising under the '434 patent and the right to collect any remedies for infringement thereof.

72. The inventions claimed in the '434 patent relate to technologies for channel sounding between stations in a wireless local area network system. Such technologies are a required part of the very-high throughput ("VHT") beamforming protocols of 802.11ac standard, subsequently incorporated into 802.11-2016. Accordingly, devices supporting the 802.11ac standard necessarily meet the claim limitations of the '434 patent.

73. Upon information and belief, Defendant has and continues to directly infringe at least claim 4 of the '434 patent by making, using, selling, importing and/or providing and causing to be used 802.11ac-compliant devices (“the '434 Patent Accused Instrumentalities”), as set forth in detail in the attached preliminary and exemplary claim chart provided in Exhibit I.

74. For example, as shown by the screenshots below, TTE affirmatively represents that it makes and sells products compliant with the 802.11ac standard. *See, e.g.*, <https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/55C803.pdf> (last accessed September 23, 2020); <https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/65C807.pdf> (last accessed September 23, 2020):




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C803
series



4K HDR 

DOLBY VISION

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| Processor Type | CPU: Dual-core / GPU: Dual-core |

(<https://www.tclusa.com/content/dam/tcl/product/home-theater/c-series/download/55C803.pdf>.)

75. However, the '434 Patent Accused Instrumentalities include any and all products that Defendant has or continues to make, use, sell, import and/or provide and cause to be used that incorporate the channel sounding features of the 802.11ac standard, whether certified for 802.11ac or other versions of the 802.11 standard.

76. On information and belief, the '434 Patent Accused Instrumentalities are used, marketed, provided to, and/or used by or for each of Defendant's partners, clients, customers and end users across the country and in this District.

77. Plaintiff has been harmed by Defendant's infringing activities.

STATEMENT REGARDING RAND OBLIGATION

78. Plaintiff contends that, pursuant to relevant IEEE bylaws, the '553, '443, '200, and '434 patents are subject to Reasonable and Non-Discriminatory ("RAND") licensing obligations to willing licensees.

79. To the extent Defendant refuses to willingly license the '553, '443, '200, and '434 patents under RAND terms, Plaintiff reserves the right to treat Defendant as an unwilling licensee, such that Plaintiff would not be bound by any RAND licensing obligation for purposes of this action or any license to Defendant. Accordingly, Plaintiff seeks the maximum available reasonable royalty damages to compensate for Defendant's infringing activities.

STATEMENT REGARDING RAND OBLIGATION

80. Plaintiff contends that, pursuant to relevant IEEE bylaws, the '553, '443, '200, and '434 patents are subject to Reasonable and Non-Discriminatory ("RAND") licensing obligations to willing licensees.

81. To the extent TTE refuses to willingly license the '553, '443, '200, and '434 patents under RAND terms, Plaintiff reserves the right to treat TTE as an unwilling licensee, such that Plaintiff would not be bound by any RAND licensing obligation for purposes of this action or any license to TTE. Accordingly, Plaintiff seeks the maximum available reasonable royalty damages to compensate for TTE's infringing activities.

JURY DEMAND

Pursuant to Rule 38 of the Federal Rules of Civil Procedure, Plaintiff demands a trial by jury on all issues triable as such.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff demands judgment for itself and against Defendant as follows:

- A. An adjudication that Defendant has infringed the '553, '443, '200, and '434 patents;
- B. An award of damages to be paid by Defendant adequate to compensate Plaintiff for Defendants' infringement of the '553, '443, '200, and '434 patents, and any continuing or future infringement through the date such judgment is entered, including interest, costs, expenses and an accounting of all infringing acts including, but not limited to, those acts not presented at trial;
- C. A declaration that this case is exceptional under 35 U.S.C. § 285, and an award of Plaintiff's reasonable attorneys' fees; and

D. An award to Plaintiff of such further relief at law or in equity as the Court deems just and proper.

Dated: October 21, 2020

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/s/ Timothy Devlin

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