UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS WACO DIVISION

NEODRON LTD.,

Plaintiff,

Case No. 6:20-cv- 00118

v.

JURY TRIAL DEMANDED

LG ELECTRONICS INC.,

Defendant.

COMPLAINT FOR PATENT INFRINGEMENT AGAINST LG ELECTRONICS INC.

This is an action for patent infringement arising under the Patent Laws of the United States of America, 35 U.S.C. § 1 *et seq.*, in which Plaintiff Neodron Ltd. ("Plaintiff" or "Neodron") makes the following allegations against Defendant LG Electronics Inc. ("Defendant"):

INTRODUCTION

1. This complaint arises from Defendant's unlawful infringement of the following United States patents owned by Neodron, each of which generally relate to touchscreen technology: United States Patent Nos. 7,821,425 ("425 Patent"); 7,903,092 ("092 Patent"); 8,749,251 ("251 Patent"); and 9,411,472 ("472 Patent") (collectively, the "Asserted Patents").

2. Touchscreen technology plays a ubiquitous and important role in countless electronic devices today. Beyond just providing greater usability to smartphones, tablets and notebooks, touchscreens now fill our lives in public and private spaces, from our homes and cars to the restaurants and stores we visit.

3. But just a few decades ago, touchscreen technology could only be found in science

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fiction books and film. Although the underlying science behind touch technology can be traced back to the 1940s, working touchscreens were not conceived and feasible until the mid-1960s, when the first finger-driven touchscreen was invented by E.A. Johnson in 1965 at the Royal Radar Establishment in Malvern, United Kingdom. Since then, it took several generations and major technological advancements for touchscreens to achieve the level of complexity—and convenience—we see and enjoy today.

4. Built on the fundamental breakthrough that our hands and fingers can form changes in the capacitance of electrodes and electrode-connections when they are in close proximity to them, touch technology has developed rapidly over the years. Along the way, engineers have worked tirelessly to try to overcome the limitations and roadblocks touch technology presents. From conceiving various ways to detect (and correctly ignore) unintentional touches, to minimizing signal "noise," to reducing the latency and power consumption that comes with any complex, multi-part electrical process, there have been many advances to various aspects of the technology—each building a little on a related advancement before it—to get us to the highly advanced state we enjoy today.

5. These advancements range from fundamental ones, which make basic touch technology work, to optional improvements, which typically represent one technological option that improves aspects of the user experience and functionality of a touchscreen. This infringement action is about the latter: several patented improvements—which took years of research and millions of dollars in U.S. investments to develop, and which are infringed by Defendant's accused products.

PARTIES

6. Plaintiff Neodron, Ltd. is an Irish company, having its principal place of business

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at Unit 4-5, Burton Hall Road, Sandyford, Dublin 18, D18a094. Neodron is the sole owner by assignment of all right, title, and interest in each Asserted Patent.

7. On information and belief, Defendant LG Electronics Inc. is a corporation organized under the laws of Korea, with its principal place of business at P.O. Box 150-721, LG Twin Towers 20 Yoido-dong, Youngdungpo-gu, Seoul, Korea.

JURISDICTION AND VENUE

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

9. This Court has personal jurisdiction over Defendant in this action because Defendant has committed acts within this District giving rise to this action, and has established minimum contacts with this forum such that the exercise of jurisdiction over Defendant would not offend traditional notions of fair play and substantial justice. Defendant, directly and through subsidiaries or intermediaries, has committed and continue to commit acts of infringement in this District by, among other things, importing, offering to sell, and selling products that infringe the asserted patents.

10. Venue is proper in this District. Venue is proper as to a foreign defendant in any district. 28 U.S.C. § 1391(c)(3); *In re HTC Corp.*, 889 F.3d 1349 (Fed. Cir. 2018). Defendant is a foreign corporation organized under the laws of Korea, with a principal place of business in Korea.

COUNT I

INFRINGEMENT OF U.S. PATENT NO. 7,821,425

11. Neodron realleges and incorporates by reference the foregoing paragraphs as if fully set forth herein.

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12. Neodron owns by assignment all rights, title, and interest in U.S. Patent No. 7,821,425, entitled "Capacitive Keyboard with Non-Locking Reduced Keying Ambiguity." The '425 Patent was duly and legally issued by the United States Patent and Trademark Office on October 26, 2010. A true and correct copy of the '425 Patent is attached as Exhibit 1.

13. On information and belief, Defendant makes, uses, offers for sale, sells, and/or imports certain products ("Accused Products"), such as the LG Gram 14T990, that directly infringe, literally and/or under the doctrine of equivalents, claims 1–40 of the '425 Patent.

14. Defendant also knowingly and intentionally induces infringement of claims 1–40 of the '425 Patent in violation of 35 U.S.C. § 271(b). Through the filing and service of this Complaint, and also through the filing and service of a complaint with the United States International Trade Commission (ITC) pursuant to Section 337 of the Tariff Act of 1930, 19 U.S.C. § 1337, Defendant has had knowledge of the '425 Patent and the infringing nature of the Accused Products. Despite this knowledge of the '425 Patent, Defendant continue sto actively encourage and instruct its customers and end users (for example, through user manuals and online instruction materials on its website) to use the Accused Products in ways that directly infringe the '425 Patent. Defendant does so knowing and intending that its customers and end users will commit these infringing acts. Defendant also continues to make, use, offer for sale, sell, and/or import the Accused Products, despite its knowledge of the '425 Patent, thereby specifically intending for and inducing its customers to infringe the '425 Patent through the customers' normal and customary use of the Accused Products.

15. The Accused Products satisfy all claim limitations of claims 1–40 of the '425 Patent. A claim chart comparing independent claims 7, 16, 25, and 33 of the '425 Patent to representative Accused Products, the LG Gram 14T990, is attached as Exhibit 2.

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16. By making, using, offering for sale, selling and/or importing into the United States the Accused Products, Defendant has injured Neodron and are liable for infringement of the '425 Patent pursuant to 35 U.S.C. § 271.

17. As a result of Defendant's infringement of the '425 Patent, Neodron is entitled to monetary damages in an amount adequate to compensate for Defendant's infringement, but in no event less than a reasonable royalty for the use made of the invention by Defendant, together with interest and costs as fixed by the Court.

18. Defendant's infringing activities have injured and will continue to injure Neodron, unless and until this Court enters an injunction prohibiting further infringement of the '425 Patent, and, specifically, enjoining further manufacture, use, sale, importation, and/or offers for sale that come within the scope of the patent claims.

<u>COUNT II</u>

INFRINGEMENT OF U.S. PATENT NO. 7,903,092

19. Neodron realleges and incorporates by reference the foregoing paragraphs as if fully set forth herein.

20. Neodron owns by assignment all rights, title, and interest in U.S. Patent No. 7,903,092 (the "'092 Patent"), entitled "Capacitive Keyboard with Position Dependent Reduced Keying Ambiguity." The '092 Patent was duly and legally issued by the United States Patent and Trademark Office on March 8, 2011. A true and correct copy of the '092 Patent is attached as Exhibit 3.

21. On information and belief, Defendant makes, uses, offers for sale, sells, and/or imports certain products ("Accused Products"), such as the LG Gram 14T990, that directly infringe, literally and/or under the doctrine of equivalents, claims 1–14 of the '092 Patent.

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22. Defendant also knowingly and intentionally induces infringement of claims 1–14 of the '092 Patent in violation of 35 U.S.C. § 271(b). Through the filing and service of this Complaint, and also through the filing and service of a complaint with the United States International Trade Commission (ITC) pursuant to Section 337 of the Tariff Act of 1930, 19 U.S.C. § 1337, Defendant has had knowledge of the '092 Patent and the infringing nature of the Accused Products. Despite this knowledge of the '092 Patent, Defendant continues to actively encourage and instruct its customers and end users (for example, through user manuals and online instruction materials on its website) to use the Accused Products in ways that directly infringe the '092 Patent. Defendant does so knowing and intending that its customers and end users will commit these infringing acts. Defendant also continues to make, use, offer for sale, sell, and/or import the Accused Products, despite its knowledge of the '092 Patent, thereby specifically intending for and inducing its customers to infringe the '092 Patent through the customers' normal and customary use of the Accused Products.

23. The Accused Products satisfy all claim limitations of claims 1–14 of the '092 Patent. A claim chart comparing independent claims 1, 2, and 13 of the '092 Patent to representative Accused Products, the LG Gram 14T990, is attached as Exhibit 4.

24. By making, using, offering for sale, selling and/or importing into the United States the Accused Products, Defendant has injured Neodron and are liable for infringement of the '092 Patent pursuant to 35 U.S.C. § 271.

25. As a result of Defendant's infringement of the '092 Patent, Neodron is entitled to monetary damages in an amount adequate to compensate for Defendant's infringement, but in no event less than a reasonable royalty for the use made of the invention by Defendant, together with interest and costs as fixed by the Court.

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26. Defendant's infringing activities have injured and will continue to injure Neodron, unless and until this Court enters an injunction prohibiting further infringement of the '092 Patent, and, specifically, enjoining further manufacture, use, sale, importation, and/or offers for sale that come within the scope of the patent claims.

COUNT III

INFRINGEMENT OF U.S. PATENT NO. 8,749,251

27. Neodron realleges and incorporates by reference the foregoing paragraphs as if fully set forth herein.

28. Neodron owns by assignment all rights, title, and interest in U.S. Patent No. 8,749,251 (the "251 Patent"), entitled "Proximity Sensor." The 251 Patent was duly and legally issued by the United States Patent and Trademark Office on June 10, 2014. A true and correct copy of the 251 Patent is attached as Exhibit 5.

29. On information and belief, Defendant makes, uses, offers for sale, sells, and/or imports certain products ("Accused Products"), such as the LG V40 and LG Gram 14T990, that directly infringe, literally and/or under the doctrine of equivalents, claims 1–20 of the '251 Patent.

30. Defendant also knowingly and intentionally induces infringement of claims 1–20 of the '251 Patent in violation of 35 U.S.C. § 271(b). Through the filing and service of this Complaint, and also through the filing and service of a complaint with the United States International Trade Commission (ITC) pursuant to Section 337 of the Tariff Act of 1930, 19 U.S.C. § 1337, Defendant has had knowledge of the '251 Patent and the infringing nature of the Accused Products. Despite this knowledge of the '251 Patent, Defendant continues to actively encourage and instruct its customers and end users (for example, through user manuals and online instruction materials on its website) to use the Accused Products in ways that directly infringe the '251 Patent.

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Defendant does so knowing and intending that its customers and end users will commit these infringing acts. Defendant also continues to make, use, offer for sale, sell, and/or import the Accused Products, despite its knowledge of the '251 Patent, thereby specifically intending for and inducing its customers to infringe the '251 Patent through the customers' normal and customary use of the Accused Products.

31. The Accused Products satisfy all claim limitations of claims 1–20 of the '251 Patent. Claim charts comparing independent claims 1, 10, and 16 of the '251 Patent to representative Accused Products, the LG V40 and LG Gram 14T990, are attached as Exhibits 6-7.

32. By making, using, offering for sale, selling and/or importing into the United States the Accused Products, Defendant has injured Neodron and are liable for infringement of the '251 Patent pursuant to 35 U.S.C. § 271.

33. As a result of Defendant's infringement of the '251 Patent, Neodron is entitled to monetary damages in an amount adequate to compensate for Defendant's infringement, but in no event less than a reasonable royalty for the use made of the invention by Defendant, together with interest and costs as fixed by the Court.

34. Defendant's infringing activities have injured and will continue to injure Neodron, unless and until this Court enters an injunction prohibiting further infringement of the '251 Patent, and, specifically, enjoining further manufacture, use, sale, importation, and/or offers for sale that come within the scope of the patent claims.

COUNT IV

INFRINGEMENT OF U.S. PATENT NO. 9,411,472

35. Neodron realleges and incorporates by reference the foregoing paragraphs as if

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fully set forth herein.

36. Neodron owns by assignment all rights, title, and interest in U.S. Patent No. 9,411,472 (the "472 Patent"), entitled "Touch Sensor with Adaptive Touch Detection Thresholding." The '472 Patent was duly and legally issued by the United States Patent and Trademark Office on August 9, 2016. A true and correct copy of the '472 Patent is attached as Exhibit 8.

37. On information and belief, Defendant makes, uses, offers for sale, sells, and/or imports certain products ("Accused Products"), such as the LG V40, that directly infringe, literally and/or under the doctrine of equivalents, claims 1–23 of the '472 Patent.

38. Defendant also knowingly and intentionally induces infringement of claims 1–23 of the '472 Patent in violation of 35 U.S.C. § 271(b). Through the filing and service of this Complaint, and also through the filing and service of a complaint with the United States International Trade Commission (ITC) pursuant to Section 337 of the Tariff Act of 1930, 19 U.S.C. § 1337, Defendant has had knowledge of the '472 Patent and the infringing nature of the Accused Products. Despite this knowledge of the '472 Patent, Defendant continues to actively encourage and instruct its customers and end users (for example, through user manuals and online instruction materials on its website) to use the Accused Products in ways that directly infringe the '472 Patent. Defendant does so knowing and intending that its customers and end users will commit these infringing acts. Defendant also continues to make, use, offer for sale, sell, and/or import the Accused Products, despite its knowledge of the '472 Patent through the customers' normal and customary use of the Accused Products.

39. The Accused Products satisfy all claim limitations of claims 1–23 of the '472

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Patent. A claim chart comparing independent claims 1, 7, and 13 of the '472 Patent to representative Accused Product, the LG V40, is attached as Exhibit 9.

40. By making, using, offering for sale, selling and/or importing into the United States the Accused Products, Defendant has injured Neodron and are liable for infringement of the '472 Patent pursuant to 35 U.S.C. § 271.

41. As a result of Defendant's infringement of the '472 Patent, Neodron is entitled to monetary damages in an amount adequate to compensate for Defendant's infringement, but in no event less than a reasonable royalty for the use made of the invention by Defendant, together with interest and costs as fixed by the Court.

42. Defendant's infringing activities have injured and will continue to injure Neodron, unless and until this Court enters an injunction prohibiting further infringement of the '472 Patent, and, specifically, enjoining further manufacture, use, sale, importation, and/or offers for sale that come within the scope of the patent claims.

PRAYER FOR RELIEF

WHEREFORE, Neodron respectfully requests that this Court enter:

a. A judgment in favor of Neodron that Defendant has infringed, either literally and/or under the doctrine of equivalents, the '425 Patent, the '092 Patent, the '251 Patent, and the '472 Patent;

b. A permanent injunction prohibiting Defendant from further acts of infringement of the '425 Patent, the '092 Patent, the '251 Patent, and the '472 Patent;

c. A judgment and order requiring Defendant to pay Neodron its damages, costs, expenses, and pre-judgment and post-judgment interest for Defendant's infringement of the '425 Patent, the '092 Patent, the '251 Patent, and the '472 Patent; and

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d. A judgment and order requiring Defendant to provide an accounting and to pay supplemental damages to Neodron, including without limitation, pre-judgment and post-judgment interest;

e. A judgment and order finding that this is an exceptional case within the meaning of 35 U.S.C. § 285 and awarding to Neodron its reasonable attorneys' fees against Defendant; and

f. Any and all other relief as the Court may deem appropriate and just under the circumstances.

DEMAND FOR JURY TRIAL

Neodron, under Rule 38 of the Federal Rules of Civil Procedure, requests a trial by jury of any issues so triable by right.

Dated: February 14, 2020

Respectfully submitted,

/s/ Reza Mirzaie

Reza Mirzaie (CA SBN 246953) rmirzaie@raklaw.com Paul A. Kroeger (CA SBN 229074) pkroeger@raklaw.com Philip X. Wang (CA SBN 262239) pwang@raklaw.com Kent N. Shum (CA SBN 259189) kshum@raklaw.com RUSS AUGUST & KABAT 12424 Wilshire Blvd. 12th Floor Los Angeles, CA 90025 Phone: (310) 826-7474

Attorneys for Plaintiff Neodron Ltd.