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| 19 | UNITED STATES DISTRICT COURT | |
| 20 | NORTHERN DISTRICT OF CALIFORNIA | |
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| 22 | CONTINENTAL AUTOMOTIVE | Case No. 19-cv-2520-LHK |
| 23 | SYSTEMS, INC., a Delaware | EVENT A MENDED COMPLAINT |
| 24 | corporation, | FIRST AMENDED COMPLAINT FOR BREACH OF FRAND |
| | Plaintiff, | COMMITMENTS AND |
| 25 | l lamini, | VIOLATIONS OF ANTITRUST |
| 26 | v. | AND UNFAIR COMPETITION |
| 27 | | LAWS: |
| 28 | AVANCI, LLC, a Delaware | (1) Breach of Contract; |
| | corporation, AVANCI PLATFORM | (2) Dienon of Convinces |

Case No. 19-cv-2520-LHK FIRST AMENDED COMPLAINT

INTERNATIONAL LIMITED, an Irish 1 company, NOKIA CORPORATION, a Finnish corporation, NOKIA OF AMERICA CORPORATION, a 3 Delaware corporation, NOKIA 4 SOLUTIONS AND NETWORKS US 5 LLC, a Delaware corporation, NOKIA SOLUTIONS AND NETWORKS OY, a Finnish corporation, NOKIA TECHNOLOGIES OY, a Finnish 7 corporation, CONVERSANT WIRELESS LICENSING SARL, a 9 Luxembourg corporation, OPTIS UP HOLDINGS LLC, a Delaware 10 corporation, OPTIS CELLULAR TECHNOLOGY, LLC, a Delaware 11 corporation, OPTIS WIRELESS 12 TECHNOLOGY, LLC, a Delaware 13 corporation, SHARP CORPORATION, a Japanese corporation, 14 15 Defendants. 16 17 18 19 20 21 22 23 24 25 26 27

- (2) Promissory Estoppel;
- (3) Declaratory Judgment;
- (4) Violation of Section 1 of the Sherman Act—Concerted Action Unreasonably Restraining Trade
- (5) Violation of Section 2 of the Sherman Act—Unlawful Monopolization;
- (6) Violation of Section 2 of the Sherman Act—Conspiracy to Monopolize;
- (7) Violations of the California Unfair Competition Law, Business and Professions Code Section 17200 et seq.

Plaintiff Continental Automotive Systems, Inc. ("Continental" or "Plaintiff") alleges the following facts and claims against Defendants Avanci, LLC, Avanci Platform International Limited (collectively, "Avanci"), Nokia Corporation ("Nokia Corp."), Nokia of America Corporation ("Nokia America"), Nokia Solutions and Networks US LLC ("Nokia Solutions"), Nokia Solutions and Networks Oy ("Nokia Solutions Oy"), Nokia Technologies Oy ("Nokia Technologies Oy") (Nokia Corp., Nokia America, Nokia Solutions, Nokia Solutions Oy, and Nokia Technologies Oy collectively referred to herein as "Nokia"), Conversant Wireless Licensing SARL ("Conversant SARL"), Optis UP Holdings, LLC ("Optis UP"), Optis Cellular Technology, LLC ("Optis Cellular"), Optis Wireless Technology, LLC ("Optis Wireless") (Optis UP, Optis Cellular, and Optis Wireless collectively referred to herein as "PanOptis"), Sharp Corporation ("Sharp") (collectively, "Defendants") (Nokia, Conversant, PanOptis, and Sharp collectively referred to herein as "Defendant Licensors").

INTRODUCTION

1. Continental, a leading provider of cutting-edge automotive components, including gateway products and telematics control units ("TCUs"), brings this lawsuit because of Defendants' concerted refusal to license their alleged standard essential patents ("SEPs") relevant to the 2G, 3G, and 4G cellular standards to Continental and its suppliers on fair, reasonable, and non-discriminatory ("FRAND") terms and conditions.¹ Continental is a willing licensee, and seeks to pay a FRAND royalty rate for a license to the SEPs owned or controlled by Defendants. Accordingly, Continental seeks a declaration of its rights and Defendants' breaches of contract and other violations of law, as well as the determination and imposition of the FRAND terms and conditions for a license to the SEPs owned or controlled by Defendants.

¹ For purposes of this Complaint, FRAND will also mean and refer to reasonable and non-discriminatory ("RAND") terms and conditions.

- 2. In today's society, many products in addition to mobile phones, including cars, also include cellular connectivity. For example, cars use cellular connectivity for emergency communications, among others. A car can provide such connectivity primarily through a telecommunications chipset, known as a baseband processor, which is the core electronic component that allows it to transmit and receive information to and from a cellular communications network. The baseband processor is typically incorporated within a network access device ("NAD"), which is itself often a sub-system of the TCU. The TCU includes additional functionality and components beyond cellular communication, including, by way of example, GPS, interface software, and control functions. The car into which the TCU (and thus the NAD and baseband processor) is incorporated obviously includes many functionalities having nothing to do with cellular connectivity, which is at best tangential to the main functionality of a car.
- 3. Enabling cellular connectivity requires the use of widely adopted cellular standards, such as the second generation ("2G"), third generation ("3G"), and/or fourth generation ("4G") cellular standards adopted by various standard-setting organizations ("SSOs"), such as ETSI, ATIS, TIA, ARIB, CCSA and others (addressed in more detail beginning at paragraph 64). Continental is a Tier 1 supplier of TCUs to various automotive original equipment manufacturers ("OEMs"), *i.e.*, vehicle manufacturers. Continental sources its NADs primarily from Tier 2 suppliers, who in turn source the necessary baseband processor chipsets that enable cellular connectivity from companies that manufacture such chipsets (*e.g.*, Qualcomm, Intel, or MediaTek, sometimes referred to as Tier 3 suppliers).
- 4. Defendant Licensors claim to own patents that have been declared essential to the cellular standards that are implemented in the components and/or subsystems supplied by Tier 1, Tier 2, and Tier 3 suppliers, including Continental. Avanci is a self-proclaimed "licensing platform" purporting to offer "one-stop" access to essential patents necessary for cellular connectivity. On

- information and belief, Avanci claims to license the majority of the total SEPs necessary for implementing the 2G, 3G, and 4G cellular standards, although Avanci does not disclose the actual percentage. Avanci purportedly does not own any patents directly, but rather acts on behalf of Defendant Licensors and other owners of SEPs (collectively "Avanci Members") as their licensing agent for the alleged SEPs, and controls the licensing of those SEPs.
- 5. On information and belief, all of the SEPs at issue are the subject of express and voluntary promises made either directly by Defendant Licensors, or their predecessors-in-interest, to the relevant SSOs pursuant to those SSOs' Intellectual Property Rights ("IPR") Policies. Such IPR Policies all require Defendants to license the alleged SEPs to any user of the standard that requests a license, and do so on FRAND terms and conditions. The SSOs relied on such FRAND commitments when they purportedly incorporated Defendant Licensors' proprietary technology into their standards.
- 6. The relevant SSOs require FRAND commitments in recognition of the dangers inherent in collective standard-setting activities which eliminate competitive technological alternatives that otherwise would have existed in the market. Once standardized, a technology is "locked in" and must be practiced by all who wish to produce standard-compliant products. Such lock-in gives SEP owners the market power to exclude companies from practicing the standard, and to raise the cost of practicing the standards by charging supra-competitive royalties in excess of the *ex ante* value of such technology when it still competed with alternatives. This phenomenon is often referred to as "hold-up." Such market power does not derive from the original patenting of the SEPs at issue, but results directly from collective action. In order to ameliorate the risks posed by the existence of this market power, and as a trade-off for having its proprietary technology included in the standards, which in turn enables the SEP owner to license a much greater volume of products than would be the case if the technology was not used in the standards, the SEP

owner is required to make the FRAND licensing commitment.

- 7. Continental, as a supplier of TCUs implementing various cellular standards, relies on such FRAND licensing promises and is a third-party beneficiary of the SEP holders' FRAND promises to the relevant SSOs. However, with respect to the alleged SEPs owned or controlled by Defendants, Continental's repeated attempts to obtain a license have been unsuccessful.
- 8. Upon information and belief, Defendants have collusively agreed to only offer licenses to the automotive industry at the OEM level in an attempt to obtain elevated royalties that far exceed any measure of FRAND. Indeed, Continental has sought a license from each of the Defendants, including Avanci, the Defendants' purported collective licensing "agent," but has been met with either refusals to offer a direct license, or no response whatsoever. For example, when Continental sought a license from Avanci, Avanci informed Continental that, as part of Avanci's collective agreement with its members, Avanci is only authorized to license at the OEM level. Moreover, Avanci would only seek the additional authorization required to license Continental if Continental first agreed to be bound by Avanci's inflated and non-FRAND royalty rates offered to the OEMs—a proposal Avanci knew Continental could not agree to.
- 9. On information and belief, Avanci demands as much as \$15/vehicle for a license to the Avanci Members' patents covering 4G/3G/2G and E-Call capabilities. This amount exceeds any measure of FRAND for that combination of patents. There is no economic, technical, or other valid justification for royalty rates this high, and such rates are not consistent with the incremental value of Defendants' SEPs, if any, to the relevant products in the supply chain. Indeed, such royalties would not be sustainable if charged to the Tier 1, Tier 2, or Tier 3 levels of the supply chain. For example, a typical baseband processor with 4G/3G/2G capabilities costs around \$20 or less, a typical NAD costs under \$40, and a typical TCU with such functionalities can cost under \$100, with prices continually dropping

10. Because Defendants could not justify such exorbitant royalties to the suppliers of components and subsystems in the supply chain, they colluded to maintain their exorbitant royalty rates—and thus their monopoly—by refusing to license Tier 1, Tier 2, or Tier 3 suppliers. Instead, they agreed to require their licensing agent, Avanci, to offer to collectively license their SEPs only at the OEM level—where the optics of their non-FRAND licensing model would appear superficially less severe given the substantially higher price and margin of a car as compared to that of a baseband processor, NAD, or TCU.

11. However, regardless of how Defendants attempt to spin their collusive licensing model, Continental and other Tier 1 suppliers in the supply chain directly bear the artificially elevated cost of Defendants' non-FRAND royalties because the OEMs typically demand indemnity of such licensing costs as a condition of purchasing any TCUs from Tier 1 suppliers. Accordingly, royalties charged to OEMs risk being passed through to Tier 1 suppliers like Continental. As alleged herein, such indemnity costs are disproportionate to Tier 1 suppliers' margins and expose them, including Continental, to potentially ruinous liability. Defendants should not be permitted to achieve indirectly what they could not do directly—*i.e.*, demand supra-FRAND royalties from suppliers within the supply chain that would

effectively wipe out those suppliers' margins and ability to continue in business.

- 12. Continental, for its part, may not be able to pass on the indemnity costs that would be associated with Defendants' collusive and elevated royalties. To the extent Continental must absorb such costs, it must forego investment and innovation in TCUs and related products to the detriment of consumers. Such indemnity costs will substantially burden not only Continental, but also the entire Tier 1 supplier industry in the form of lower investment and innovation, as other Tier 1 suppliers face the same market realities as Continental. Even if Continental theoretically could pass on some of those royalty costs, it can be expected that at least a portion of such costs will be passed on to American consumers in the form of higher prices or lower functionality. Either way, consumers will bear the ultimate costs as a result of Defendants' refusal to license suppliers in the automotive supply chain, and also their refusal to offer FRAND terms and conditions.
- 13. None of the IPR policies established by the relevant SSOs in any way restrict who is eligible and entitled to receive a FRAND license from the owners of FRAND-encumbered SEPs. Indeed, in such a consensus-oriented context involving many competitors at different levels, it is doubtful that an express policy to effectively exclude entire categories of implementers from access to the standards would have survived the barest of antitrust scrutiny, or even gained the necessary consensus among all relevant stakeholders.
- 14. To the contrary, the IPR policies of all relevant SSOs expressly prohibit owners of FRAND-encumbered SEPs from discriminating among users of the standards. For example, the ETSI IPR Policy requires SEP owners to commit to provide "irrevocable licenses on fair, reasonable and nondiscriminatory ('FRAND') terms and conditions." The TIA policy requires any SEP holder that wishes to monetize its essential patents to commit to license SEPs "to all applicants under terms and conditions that are reasonable and non-discriminatory . . . to the extent necessary for the practice of . . . the Standard." The ATIS policy requires SEP

suppliers, like Continental, by refusing to license the relevant 2G, 3G, and 4G SEPs to Continental and other suppliers on FRAND terms and conditions not only breaches Defendants' FRAND commitments, but constitutes anticompetitive conduct in violation of the antitrust laws resulting in reduced competition and innovation in both the upstream technology licensing markets and the downstream TCU market, and higher prices to ultimate consumers as further alleged herein. As a result, Continental has brought this lawsuit in order to address the above breaches of contract and other violations of law, and obtain a license to the SEPs owned or controlled by Defendants on FRAND terms and conditions.

THE PARTIES

A. Continental

- 16. Plaintiff Continental Automotive Systems, Inc. ("Continental") is a corporation organized under the laws of the State of Delaware, with its principal place of business at One Continental Drive, Auburn Hills, Michigan 48326.
- 17. Continental is an indirect subsidiary of Continental AG, a corporation organized and existing under the laws of Germany. Continental AG was originally founded in 1871 as a rubber manufacturer, focusing its business on automotive tires. Since then, Continental AG has expanded into new automotive business areas, becoming one of the leading suppliers to automotive OEMs worldwide. Today, Continental AG's business is organized into five divisions: the Interior Division, the Chassis & Safety Division, the Powertrain Division (collectively forming the Automotive Group), the Tire Division, and the ContiTech Division (collectively forming the Rubber Group).

- 18. The Interior Division develops, *inter alia*, highly innovative telematics devices, including TCUs that merge telecommunications, infotainment, and safety features. The TCUs produced by Continental rely on telecommunications standards, such as 2G, 3G, and/or 4G cellular standards, to transmit and receive data used by these features. Indeed, Continental was an early innovator in the design and production of TCUs. Continental and/or Continental AG also spend millions of dollars in research and development in an effort to engineer solutions that are separate from or in addition to the cellular connections made by connected vehicles.
- 19. In April 2017, a nearly 65,000 square foot research and development center was opened in Silicon Valley, with activity that includes a focus on connectivity and mobility services. Through this research and development center in Silicon Valley, all areas of Continental cooperate in an interdisciplinary and collaborative manner to engineer Continental's next innovative contributions to the automotive market.

B. Avanci

- 20. Upon information and belief, defendant Avanci, LLC is a limited liability corporation organized under the laws of the State of Delaware, with its principal place of business at 1717 McKinney Avenue, Suite 1050, Dallas, Texas 75202.
- 21. Upon information and belief, defendant Avanci Platform International Limited (collectively with Avanci, LLC, "Avanci") is a company organized and existing under the laws of Ireland, having its principal place of business at Unit 40, The Hyde Building, The Park, Carrickmines, Dublin 18, Ireland D18 PX40.
- 22. Upon information and belief, Avanci regularly conducts business in California which supports its patent licensing business.
- 23. Upon information and belief, Avanci derives revenues primarily from patent licensing and aggressively seeks to monetize the alleged SEPs for which it acts as licensing agent by targeting automotive OEMs that sell automobiles

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incorporating components that operate in compliance with these standards, both in California and all around the world.

- 24. Upon information and belief, Avanci claims to have the right to license a majority of the world's cellular SEPs spanning multiple jurisdictions and telecommunications technologies.
- 25. Upon information and belief, Avanci has engaged in licensing and related business negotiations within this judicial district, including with at least defendant Conversant SARL (Conversant SARL's Chief Executive Officer, who announced Conversant SARL's relationship with Avanci, is based in Conversant's office within this judicial district), InterDigital, Inc. ("InterDigital") (InterDigital has offices and high level officers in this judicial district), and defendant Nokia (Nokia has multiple offices in this judicial district and high level licensing negotiation personnel in this judicial district).
- 26. Upon information and belief, Avanci has entered into license agreements with entities located within this judicial district that require continuing obligations with this judicial district, and/or choice of law and forum selection clauses in this judicial district. For example, at least Avanci Members BlackBerry, Conversant SARL, and Nokia all have a substantial presence in this judicial district and current or former principal places of business in this judicial district.

C. **Nokia**

- 27. Upon information and belief, defendant Nokia Corporation ("Nokia Corp.") is a corporation organized and existing under the laws of Finland, having its principal place of business at Karaportti 3, 02610 Espoo, Finland.
- 28. Upon information and belief, defendant Nokia of America Corporation ("Nokia America") is a corporation organized under the laws of Delaware, having its principal place of business at 600 Mountain Avenue, Murray Hill, New Jersey 07974. Upon information and belief, Nokia of America Corporation is a wholly owned subsidiary of Nokia Corporation.

- 29. Upon information and belief, defendant Nokia Solutions and Networks US LLC ("Nokia Solutions") is a corporation organized under the laws of Delaware, having its principal place of business at 6000 Connection Drive, Irving, Texas 75039. Upon information and belief, Nokia Solutions and Networks US LLC is a wholly owned subsidiary of Nokia Corp.
- 30. Upon information and belief, defendant Nokia Solutions and Networks Oy ("Nokia Solutions Oy") is a corporation organized and existing under the laws of Finland, having its principal place of business at Karaportti 3, 02610 Espoo, Finland. Upon information and belief, Nokia Solutions Oy is a wholly owned subsidiary of Nokia Corp.
- 31. Upon information and belief, defendant Nokia Technologies Oy is a corporation organized and existing under the laws of Finland, having its principal place of business at Karaportti 3, 02610 Espoo, Finland. Upon information and belief, Nokia Technologies Oy is a wholly owned subsidiary of Nokia Corp.
- 32. Upon information and belief, Nokia America, Nokia Solutions, Nokia Solutions Oy, and Nokia Technologies Oy are all wholly-owned direct or indirect subsidiaries of Nokia Corp. Nokia Corp., Nokia America, Nokia Solutions, Nokia Solutions Oy, and Nokia Technologies Oy (collectively "Nokia") act as a common, unified economic enterprise.
- 33. Upon information and belief, Nokia conducts business within the United States as a whole, including having employees located at multiple offices and campuses within this judicial district with locations including Mountain View, San Jose, Sunnyvale, and Petaluma. Upon information and belief, Nokia supports its patent licensing business through its operations within this judicial district, and has sent licensing correspondence to Continental's affiliate from its offices in this judicial district.
- 34. Upon information and belief, Nokia joined the Avanci platform on or about October 25, 2018.

D. Conversant

- 35. Upon information and belief, defendant Conversant Wireless Licensing SARL ("Conversant SARL") is a corporation organized and existing under the laws of Luxembourg, having its principal place of business at 12, rue Jean Engling, L-1466 Luxembourg, Luxembourg.
- 36. Upon information and believe, Conversant SARL conducts business within the United States as a whole, which supports its patent licensing business.
- 37. Upon information and belief, Conversant SARL derives revenues primarily from patent licensing and aggressively seeks to monetize its patents, which includes patents declared essential to the 2G, 3G, and 4G standards—at least through its agent Avanci.
- 38. Upon information and belief, Conversant SARL is a wholly-owned direct or indirect subsidiary of Conversant Intellectual Property Management Inc. ("Conversant IP Inc."), a corporation organized under the laws of Canada, having its principal place of business at 515 Legget Drive, Suite 704, Ottawa, Ontario, Canada K2K 3G4.
- 39. Upon information and belief, Conversant Intellectual Property Management Corporation ("Conversant IP Corp."), is a corporation organized under the laws of Texas, having its principal place of business at 5601 Granite Parkway Suite 1300, Plano, TX 75024, and its principal business office in California at 2441 Park Blvd. Suite 104, Palo Alto, CA 94036. Conversant Wireless Licensing Ltd. ("Conversant Wireless"), is a corporation organized under the laws of Texas, having its principal place of business at 5601 Granite Parkway Suite 1300, Plano, TX 75024.
- 40. Upon information and belief, Conversant SARL, Conversant IP Corp., and Conversant Wireless are all wholly-owned direct or indirect subsidiaries of Conversant IP Inc. Conversant IP Inc., Conversant SARL, Conversant IP Corp., and Conversant Wireless (collectively "Conversant") act as a common, unified

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the United States, including California, and/or regularly conducts business in California and in this district, including via its office at 2441 Park Blvd, Suite 104, Palo Alto, CA 94036, as well as the presence of the Chief Executive Officer of Conversant IP Inc., Boris Teksler, in this district. For example, Continental's correspondence with Conversant relevant to this matter was directed to Conversant's office in this judicial district.

Upon information and belief, Conversant has offices and employees in

- 42. According to publicly available information, Conversant's patents are held by Conversant SARL and are managed by Conversant by and through business activity in this judicial district.
- 43. Upon information and belief, Conversant SARL joined the Avanci platform on or about October 10, 2018, by and through activities taking place in this judicial district.

E. PanOptis/Unwired Planet

- 44. Upon information and belief, defendant Optis Wireless Technology, LLC ("Optis Wireless") is a corporation organized and existing under the laws of Delaware, having its principal place of business at 7160 Dallas Parkway, Suite 250, Plano, TX 75024.
- 45. Upon information and belief, defendant Optis Cellular Technology, LLC ("Optis Cellular") is a corporation organized and existing under the laws of Delaware, having its principal place of business at 7160 Dallas Parkway, Suite 250, Plano, TX 75024.
- 46. Upon information and belief, defendant Optis UP Holdings, LLC ("Optis UP") is a corporation organized under the laws of Delaware, having its principal place of business at 7160 Dallas Parkway, Suite 250, Plano, TX 75024.
- 47. Optis UP, Optis Cellular, and Optis Wireless are collectively referred to herein as "PanOptis." Upon information and belief, PanOptis conducts business

within the United States as a whole, which supports its patent licensing business.

- 48. Upon information and belief, PanOptis derives revenues primarily from patent licensing and aggressively seeks to monetize its patents, which includes patents declared essential to the 2G, 3G, and 4G standards—at least through its agent Avanci.
- 49. Upon information and belief, Optis Wireless, Optis Cellular, and Optis UP are wholly-owned direct or indirect subsidiaries of PanOptis Patent Management, LLC, a corporation organized and existing under the laws of Delaware, having its principal place of business at 7160 Dallas Parkway, Suite 250, Plano, TX 75024.
- 50. Upon information and belief, PanOptis Patent Management, LLC obtained all patents formerly owned by Unwired Planet, Inc., which patents are now owned by Optis UP, which also operates under the name "Unwired Planet."
- 51. Upon information and belief, PanOptis joined the Avanci platform on or about March 6, 2017.

F. Sharp

- 52. Upon information and belief, defendant Sharp Corporation ("Sharp") is a corporation organized and existing under the laws of Japan, having its principal place of business at 1 Takumi-cho, Sakai-ku, Sakai-City, Osaka, 590-8522, Japan. Upon information and belief, Sharp is also known as "Sharp Kabushiki Kaisha."
- 53. Upon information and believe, Sharp conducts business within the United States as a whole, which supports its patent licensing business. Upon information and belief, Sharp derives revenues from patent licensing and aggressively seeks to monetize its patents, which includes patents declared essential to the 2G, 3G, and 4G standards—at least through its agent Avanci.
- 54. Upon information and belief, Sharp Electronics Corporation ("SEC") is a wholly-owned direct or indirect subsidiary of Sharp. Upon information and belief, Sharp Business Systems, Inc. ("Sharp Business Systems") is a wholly-owned direct

- 55. Upon information and belief, Sharp, SEC, and Sharp Business Systems act as a common, unified economic enterprise. Upon information and belief, Sharp Business Systems is a sales division of SEC, which is the United States sales and marketing subsidiary of Sharp. Upon information and belief, Sharp has employees located at offices within and conducts business within this judicial district, including in Pleasanton, California.
- 56. Upon information and belief, Sharp joined the Avanci platform on or about July 12, 2017.

JURISDICTION AND VENUE

- 57. Continental brings this action for specific performance, declaratory relief, injunctive relief, costs of suit, and reasonable attorneys' fees arising under, *inter alia*, Sections 1 and 2 of the Sherman Act and Section 16 of the Clayton Act, 15 U.S.C. §§ 1, 2, 26, and the Declaratory Judgment Act, 28 U.S.C. §§ 2201 and 2202. Accordingly, this Court has jurisdiction to hear this case pursuant to 28 U.S.C. §§ 1331 and 1337.
- 58. To the extent any of Continental's claims are deemed to arise under state law, this Court has subject matter jurisdiction over those claims pursuant to 28 U.S.C. § 1367, because such claims arise from the same factual nucleus as Continental's federal law claims.
- 59. This Court has personal jurisdiction over each defendant based on their national contacts with the United States as a whole pursuant to 15 U.S.C. § 22, as well as Defendants' relevant contacts with this judicial district. Upon information and belief, each Defendant has conducted and continues to conduct business in this judicial district and/or has engaged in continuous and systematic activities in this judicial district, including licensing activities, demands, and negotiations in California—at least through their agent Avanci.
 - 60. Venue is proper in this judicial district pursuant to 28 U.S.C. §1391(b)

and (c) and/or 15 U.S.C. § 22.

- 61. Upon information and belief, this Court has personal jurisdiction over defendant Avanci LLC at least pursuant to 15 U.S.C. § 22, as Avanci is incorporated within the United States and therefore has national contacts with the United States. Further, venue is proper over Avanci in this judicial district at least pursuant to 15 U.S.C. § 22, as Avanci transacts business within this judicial district.
- 62. Upon information and belief, this Court has personal jurisdiction over defendant Avanci Platform International Limited at least pursuant to 15 U.S.C. § 22, as Avanci Platform International Limited has acted within any district of the United States at least by and through licensing with companies within the United States and therefore has national contacts with the United States. Further, venue is proper over Avanci Platform International Limited in this judicial district at least pursuant to 28 U.S.C. § 1391(c)(3).
- 63. Upon information and belief, this Court has personal jurisdiction over defendants Nokia Corporation, Nokia Solutions and Networks Oy, and Nokia Technologies Oy at least pursuant to 15 U.S.C. § 22, as Nokia Corporation, Nokia Solutions and Networks Oy, and Nokia Technologies Oy each have acted within any district of the United States at least by and through their license and preceding negotiations with Avanci, and therefore each has national contacts with the United States. Further, venue is proper over Nokia Corporation, Nokia Solutions and Networks Oy, and Nokia Technologies Oy in this judicial district at least pursuant to 28 U.S.C. § 1391(c)(3).
- 64. Upon information and belief, this Court has personal jurisdiction over defendants Nokia of America Corporation and Nokia Solutions and Networks US LLC at least pursuant to 15 U.S.C. § 22, as Nokia of America Corporation and Nokia Solutions and Networks US LLC are incorporated within the United States and therefore have national contacts with the United States. Additionally, personal jurisdiction over defendants Nokia of America Corporation and Nokia Solutions and

- Networks US LLC is proper in this judicial district due to Nokia of America Corporation and Nokia Solutions and Networks US LLC having substantial and continuous contacts with this judicial district. Further, venue is proper over Nokia of America Corporation and Nokia Solutions and Networks US LLC in this judicial district at least pursuant to 15 U.S.C. § 22, as Nokia of America Corporation and Nokia Solutions and Networks US LLC each transact business within this judicial district.
- 65. Upon information and belief, this Court has personal jurisdiction over defendant Conversant SARL at least pursuant to 15 U.S.C. § 22, as Conversant SARL has acted within any district of the United States at least by and through its license and preceding negotiations with Avanci, and therefore has national contacts with the United States. Additionally, this Court has personal jurisdiction over Conversant SARL at least through its substantial and continuous contacts with this judicial district. Finally, venue is proper over Conversant SARL in this judicial district at least pursuant to 28 U.S.C. § 1391(c)(3).
- 66. Upon information and belief, this Court has personal jurisdiction over defendants Optis Wireless, Optis Cellular, and Optis UP in this judicial district at least pursuant to 15 U.S.C. § 22, as Optis Wireless, Optis Cellular, and Optis UP are incorporated within the United States and therefore have national contacts with the United States. Further, venue is proper over Optis Wireless, Optis Cellular, and Optis UP in this judicial district at least pursuant to 15 U.S.C. § 22, as Optis Wireless, Optis Cellular, and Optis UP all transact business within this judicial district.
- 67. Upon information and belief, this Court has personal jurisdiction over defendant Sharp in this judicial district at least pursuant to 15 U.S.C. § 22, as Sharp has acted within any district of the United States at least by and through its license and preceding negotiations with Avanci, and therefore has national contacts with the United States. Additionally, this Court has personal jurisdiction over Sharp at least

through its substantial and continuous contacts with this judicial district. Further, venue is proper over defendant Sharp in this judicial district at least pursuant to 28 U.S.C. § 1391(c)(3).

INTRADISTRICT ASSIGNMENT

68. Assignment to the San Jose Division is proper. This action arises in Santa Clara County because a substantial part of the events or omissions which give rise to the claim occurred in Santa Clara County. Continental has a large research and development facility in Santa Clara, with activity that includes a focus on connectivity and mobility services. Defendant Nokia has offices in Sunnyvale, San Jose, and Mountain View. Defendant Conversant has offices and high-level officers located in Palo Alto. Third parties that have information relevant to this action, including other Avanci Members, also have offices in Santa Clara County.

FACTUAL ALLEGATIONS

69. As explained below, Continental brings this action because of Defendants' unlawful refusal to license Continental and other suppliers within the automotive supply chain with respect to their patents asserted to be essential to the 2G, 3G, and 4G cellular standards, as well as their failure and refusal to offer FRAND terms and conditions for such a license.

I. Overview of Standard Setting Organizations and Relevant Standards

- 70. Cellular communications depend on widely distributed networks that implement cellular communications standards. These standards promote availability and interoperability of standardized products regardless of geographic boundary. Cellular standards have evolved over generations, beginning with the "first generation"—or "1G"—standards developed in the 1980s. *See In re Qualcomm Antitrust Litig.*, 292 F. Supp. 3d 948, 955 (N.D. Cal. 2017). Second, third, and fourth generation standards followed.
- 71. Industry groups called standard-setting organizations, or SSOs, have emerged to develop and manage the relevant cellular standards. SSOs are voluntary

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("ARIB"), the Telecommunications Technology Committee ("TTC"), and the China As work began on third generation—or "3G"—cellular communication standards, collaborations of SSOs formed to ensure global standardization. One such collaboration is the Third Generation Partnership Project ("3GPP"). As 4G technology emerged, 3GPP also developed the 4G LTE family of standards. Another collaboration, the Third Generation Partnership Project 2 ("3GPP2"),

- Organizational Partners. An Organizational Partner approves and maintains the 3GPP or 3GPP2 scope and transposes 3GPP or 3GPP2 technical specifications into the Organizational Partner's own standards. ETSI, ATIS, ARIB, TTC, and CCSA are all organizational partners of 3GPP. TIA, ARIB, and TTC are all organizational partners of 3GPP2.
- 74. Prior to the adoption of 2G standards, 1G cellular connectivity offered relatively basic functionality, supporting just a few analog signals (as opposed to the digital signals used today). In the late 1980s, the cellular industry began moving towards 2G and considered a number of different standards, including the Global System for Mobile communications ("GSM"), the Generalized Packet Radio System ("GPRS"), Enhanced GPRS ("EDGE"), and Code Division Multiple Access ("CDMA"). Ultimately GSM and CDMA became the primary standards in 2G

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cellular communications. The two 2G standards were not interoperable; thus a device configured for one network would not operate on the other.

- 75. In the late 1990s, the cellular industry pushed towards 3G, which offered higher transmission speeds, ability to support more users, and improved reliability. The leading 3G standards families were CDMA2000 and the Universal Terrestrial Radio Access ("UTRA"), which operated in various modes around the world, including Wideband CDMA ("WCDMA") and Time Division Synchronous Code Division Multiple Access ("TD-SCDMA"). The WCDMA standard was also known as Universal Mobile Telecommunications System ("UMTS"), with High Speed Packet Access ("HSPA") which utilized at least two protocols: High Speed Downlink Packet Access ("HSDPA") and High Speed Uplink Packet Access ("HSUPA"). Once again, the two main 3G standards were not interoperable, and thus a device configured for a CDMA2000 network would not function on a UMTS network.
- 76. In the late 2000s, the cellular industry came together for 4G to develop a single standard: Evolved UTRA ("E-UTRA"), more commonly referred to as Long Term Evolution ("LTE"). LTE was adopted almost universally as the 4G cellular communication standard.

II. The Importance of FRAND Commitments in the Context of Voluntary Standard Setting

77. Although standards deliver economic benefits, they can also present anticompetitive risks that potentially impose excessive and unfair costs on users of the standards, and even hinder broad implementation of the standards. SSO members often own or hold patents covering the technologies adopted into the standards, creating a potential for market-distorting behavior whereby the owners of essential technology attempt to capture not only the value of the patented technology, but also the value of standardization itself. Such behavior could involve refusing to license certain users of the standards, or demanding supra-FRAND

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royalties that are disproportionate to the value of the essential technology at issue.

78. In order to prevent the owner of a patent essential to complying with the standard—the "SEP holder"—from blocking or otherwise inhibiting implementation of a given standard, the relevant cellular SSOs maintain IPR policies which impose certain duties on SEP holders. Such policies require and/or strongly encourage each party that participates in the standard-development process to disclose on a timely, bona fide basis, all intellectual property rights they are aware of and believe may be essential to a proposed standard. See, e.g., ETSI IPR Policy, § 4.1; TIA IPR Policy, § 3.1.2; ATIS Operating Procedure, § 10.4.2 at 10.

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The relevant SSO IPR policies additionally require members who wish 79. to voluntarily contribute essential IPR to the standards to commit to license their asserted SEPs to firms implementing the standard on FRAND terms and conditions. See, e.g., ETSI IPR Policy, § 6.1; TIA IPR Policy, § 3.1.1; ATIS Operating Procedure, § 10.4.2 at 10, 11. These FRAND commitments are recognized as

ETSI IPR Policy, § 6.1bis; TIA IPR Policy, § 3.1.1; ATIS Operating Procedure, § 10.4.2 at 11.

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Moreover, it has been judicially determined that, as a matter of law, the 80. TIA and ATIS IPR policies require a SEP holder to license its alleged SEPs on FRAND terms and conditions to any implementer within a given supply chain that uses the standards, and not merely to the manufacturers of "end-products." There is no material difference between the TIA and ATIS IPR policies and those of ETSI and other SSOs that have adopted the same cellular standards. Accordingly, Defendants have a duty to license users of relevant cellular standards within the automotive supply chain, including component suppliers like Continental, regardless of their position within that supply chain.

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By voluntarily undertaking FRAND licensing commitments, SEP holders benefit from the broad implementation of their patented technologies as a

result of standardization, which significantly expands the pool of licensees who must practice any essential patents to all those who produce and sell standard-compliant products. In exchange, the SEP holders agree not to abuse the market power resulting from the patent's incorporation into the standard to the exclusion of other alternatives.

- 82. These FRAND commitments provide firms that implement the standard—such as Continental— the assurance that they will always have access to the essential technology and will not be denied access to the standardized technology or disadvantaged relative to others if they invest in implementing the standard or developing innovative products that may operate with the standard.
- 83. When SEPs are not available for FRAND licensing, the relevant SSOs have an obligation to reassess, and then revise or even abandon the portions of their standards that rely on such essential proprietary technologies. For example, under the ETSI IPR Policy, "[w]here prior to the publication of a STANDARD or a TECHNICAL SPECIFICATION, an IPR owner informs ETSI that it is not prepared to license an IPR" on FRAND terms pursuant to the policy, ETSI is required to select another "viable alternative technology" solution "which is not blocked by that IPR and satisfies ETSI's requirements." *Id.*, § 8.1.1. If no such viable solution exists, then work on the standard "shall cease[.]" The TIA IPR Policy similarly provides that in the absence of the required FRAND commitment, the standard is to be "referred back to the Formulating Group for further consideration[,]" TIA IPR Policy § 4 at 11-12, and may be withdrawn by TIA, *id.* § 3.1.3 at 9-10. Other relevant SSOs have policies similar to the policies at ETSI and TIA.
- 84. Thus, by making an affirmative and voluntary FRAND commitment, an SEP holder intentionally displaces the process within the SSOs whereby SSO members are duty-bound to re-evaluate their technical specifications when the unavailability of an essential technology under consideration is timely brought to their attention.

85. Accordingly, to the extent that SSO participants may not have had the opportunity to consider alternatives that were available for FRAND licensing, or to withdraw the portions of the standards where no such alternative was available, such failure was directly due to Defendant Licensors' affirmative FRAND licensing representations that induced the SSO participants to forego such opportunity.

III. Defendants' FRAND Commitments to SSOs

- 86. Upon information and belief, certain Defendants are directly obligated to license their SEPs on FRAND terms and conditions by virtue of the declarations they made with regard to their own patents. Moreover, upon information and belief, certain defendants are either successors-in-interest to or otherwise the authorized licensing agents for certain alleged SEPs that were originally declared to be essential to standards by other SEP holders who gave irrevocable FRAND licensing commitments and are obligated to license any SEPs they own or control on FRAND terms and conditions.
- 87. Defendant Nokia has participated in the cellular standard setting process through membership in various SSOs, including ETSI, TIA, and ATIS. On information and belief, Nokia has declared that certain of its patents or patent applications may be or may become essential to cellular standards under consideration by such SSOs, and committed to grant licenses to the disclosed patents on FRAND terms and conditions.
- 88. Nokia made these declarations to ensure that the cellular standards incorporated Nokia's technologies to the exclusion of alternatives, such that manufacturers of standard-compliant devices would require a license to Nokia's alleged SEPs. While making such declarations to the relevant SSOs, Nokia concealed its intent to, among other things, refuse to license certain users of the standards in a given supply chain, charge supra-competitive royalty rates, and demand discriminatory terms and conditions for a license to its alleged SEPs. The intent of this concealment was to deceive and induce the relevant SSOs to adopt

technologies Nokia declared to be essential to the standards.

- 89. Defendant Conversant has participated in the cellular standard setting process through its membership in at least ETSI. Conversant has declared that certain of its patents or patent applications may be or may become essential to cellular standards adopted by ETSI, and committed to grant licenses to the disclosed patents on FRAND terms and conditions.
- 90. Conversant made these declarations to ensure that the cellular standards incorporated Conversant's technologies to the exclusion of alternatives, such that manufacturers of standard-compliant devices would require a license to Conversant's alleged SEPs. While making such declarations to the relevant SSOs, Conversant concealed its intent to, among other things, refuse to license certain users of the standards in a given supply chain, charge supra-competitive royalty rates, and demand discriminatory terms and conditions for a license to its alleged SEPs. The intent of this concealment was to deceive and induce the relevant SSOs to adopt technologies Conversant declared to be essential to the standards.
- 91. Upon information and belief, Conversant is either an assignee or the licensing agent of certain original alleged SEP holders for certain cellular SEPs that are the subject of FRAND commitments, including, on information and belief, many patents declared by Nokia to be essential to various cellular standards and subject to irrevocable FRAND commitments. Conversant acknowledges that its portfolio includes many declared SEPs that it seeks to license on FRAND terms. (*See* http://www.conversantip.com/news-article/conversant-wireless-files-uk-patent-infringement-and-frand-case-against-huawei-and-zte/.)
- 92. Defendant PanOptis has participated in the cellular standard setting process through ETSI, TIA, and ATIS. Indeed, PanOptis has declared, to at least ETSI, that certain of its patents or patent applications may be or may become essential to cellular standards under consideration, with such declarations committing PanOptis to grant licenses to the disclosed patents on FRAND terms and

conditions.

- 93. PanOptis made these declarations to ensure that the cellular standards incorporated PanOptis's technologies to the exclusion of alternative technologies, and also so that manufacturers of standard-implementing devices would require a license to PanOptis's alleged SEPs. While making the above declarations to at least ETSI, PanOptis concealed its intent to, among other things, charge supracompetitive royalty rates and demand discriminatory terms and conditions for a license to its alleged SEPs. The intent of this concealment was to deceive at least ETSI members so that technologies PanOptis claims to have patented were included in the standards.
- 94. Upon information and belief, PanOptis is at a minimum an assignee or the licensing agent of original alleged SEP holders for certain cellular SEPs that are subject to FRAND commitments to various SSOs, including patents declared by at least LG, Ericsson, and Panasonic to be essential to various cellular standards and subject to irrevocable FRAND commitments. PanOptis recognizes its duty to license those SEPs on FRAND terms. (*See* http://www.panoptis.com/.)
- 95. Upon information and belief, defendant Optis UP is at a minimum an assignee or the licensing agent of original alleged SEP holders for certain cellular SEPs that are subject to FRAND commitments to various SSOs, including patents declared essential to various cellular standards and subject to irrevocable FRAND commitments made to at least ETSI by Ericsson. Indeed, Optis UP obtained its patent portfolio from Unwired Planet who was similarly subject to the irrevocable FRAND commitments made by Ericsson and other assignees. Such FRAND commitments were made by SEP holders, including Ericsson, without disclosing their intent to, among other things, charge supra-competitive royalty rates and demand discriminatory terms and conditions for a license to their alleged SEPs. SSO members relied on such unqualified FRAND commitments when they adopted such patented technologies into standards.

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- 96. Defendant Sharp has participated in the cellular standard setting process through membership in various SSOs, including ETSI. On information and belief, Sharp has declared that certain of its patents or patent applications may be or may become essential to cellular standards under consideration by such SSOs, and committed to grant licenses to the disclosed patents on FRAND terms and conditions.
- 97. Sharp made these declarations to ensure that the cellular standards incorporated Sharp's technologies to the exclusion of alternatives, such that manufacturers of standard-compliant devices would require a license to Sharp's alleged SEPs. While making such declarations to the relevant SSOs, Sharp concealed its intent to, among other things, refuse to license certain users of the standards in a given supply chain, charge supra-competitive royalty rates, and demand discriminatory terms and conditions for a license to its alleged SEPs. The intent of this concealment was to deceive and induce the relevant SSOs to adopt technologies Sharp declared to be essential to the standards.
- 98. Upon information and belief, Avanci members have all committed to license their alleged SEPs that are part of the Avanci licensing platform on FRAND terms pursuant to the IPR policies of various SSOs either directly, or indirectly through their predecessors-in-interest and/or principals. Such FRAND commitments were made without disclosing an intent to, among other things, refuse to license certain users, charge supra-competitive royalty rates and demand discriminatory terms and/or conditions for a license to any relevant SEPs. SSO members relied on such unqualified FRAND commitments when they adopted such patented technologies into standards.
- 99. As described above, all of the alleged SEPs for which Avanci acts as licensing agent are encumbered by FRAND obligations, thus similarly obligating Avanci to also license them on FRAND terms and conditions. Indeed, Avanci also has made public statements that it will, and is obligated to, license the patents which

have been committed to collective licensing by Avanci pursuant to the agency agreement with its members, on FRAND terms and conditions. For example, on its website, Avanci asks itself whether "Avanci licensing [is] on FRAND terms?", and answers that question by saying "Absolutely. Avanci shares a commitment with the IoT ecosystem to make the latest technology available in a way that is fair, reasonable and non-discriminatory (FRAND)." (See www.avanci.com/faq/.)

- 100. Avanci has also publicly acknowledged its obligation to offer licenses to any willing licensee, claiming, "We're serious about our responsibility to being fair and equitable. . . . Our transparent, open marketplace is *accessible to everyone*—ensuring those companies . . . using the technologies get a fair price, enabling them to continue developing the future of connected products." (*See* www.avanci.com/vision) (emphasis added).) Unfortunately, Avanci has not behaved consistent with this statement, because it will *not* license all companies who make standard-compliant products, its pricing methodology is *not* transparent, and the cost of an Avanci license is *not* at "a fair price."
- 101. Because SSOs and users of the standards alike reasonably relied on FRAND promises made by the original SEP holders in adopting and implementing the standards at issue, such FRAND commitments have been recognized as encumbrances that bind subsequent licensors and transferees of such patents. *See*, *e.g.*, ETSI IPR Policy, § 6.1bis. This interpretation of FRAND is consistent with the IPR policies of all relevant SSOs which are intended to ensure the availability of the standardized technologies to any standards implementer. Otherwise, SEP holders could subvert those policies by simply transferring those SEPs to other entities or delegating their licensing to others who did not make the original FRAND promises.
- 102. Accordingly, to the extent certain Defendants, including Avanci, PanOptis, and Conversant, are either the licensing agents for or successors-in-interest of relevant FRAND-encumbered SEPs, they have the same irrevocable FRAND licensing obligations as the original declarants, and either knew or should

have known of the original transferees' FRAND promises and the resulting reliance by the SSOs and users of the standards alike.

IV. The Automotive Industry Supply Chain

103. In the automotive industry, there is a well-established "division of labor" at least between the OEMs (*e.g.*, automobile manufacturers) and their Tier 1 suppliers (*e.g.*, Continental). Tier 1 suppliers like Continental are much more than manufacturing companies. Rather, they have the in-depth know-how and expertise to manufacture and constantly research and develop (and re-develop) a large number of complex automotive components that must be implemented in different vehicles manufactured by different OEMs. Automotive OEMs then assemble the various components obtained from their various Tier 1 suppliers and combine them into the final vehicle. In this sense, Tier 1 suppliers are one of the driving forces in the technological development of the automotive industry. For example, in the TCU context, Tier 1 suppliers must determine the sub-components necessary for cellular connectivity and have the expertise to design a product (the TCU) that not only fits into the OEM's vehicle, but also seamlessly integrates with the vehicle's existing user interface.

- 104. Tier 1 suppliers source components and subsystems, such as NADs, necessary for the products they manufacture from Tier 2 suppliers. In turn, Tier 2 suppliers source the components necessary for their products from Tier 3 suppliers (manufacturers of the baseband processor, in the case of the TCU). The manufacturers of the baseband processor chipsets provide their reference design to the Tier 2 suppliers in order to facilitate the making of a tested and functional modem for later use in the TCU.
- 105. Automotive OEMs are highly sophisticated purchasers with the ability to exercise significant buyer power. Automotive OEMs often initiate fierce bidding competitions in so-called "Request for Quotes" ("RFQs"). Often, the winning bid is the supplier with the ability to provide a product meeting the OEM's specifications

at the lowest price. Additionally, this significant buyer power allows OEMs to traditionally require their suppliers to deliver components "free of (third party) rights." Specifically, such requirements typically include assurances that the products supplied to the OEM do not violate patents or other intellectual property rights, as well as indemnification clauses obliging the Tier 1 supplier to indemnify the respective OEM for any royalties the OEM might pay for using and/or selling the product as part of a vehicle.

106. Accordingly, Continental has a strong interest in obtaining adequate

106. Accordingly, Continental has a strong interest in obtaining adequate licensing to patents that may cover cellular standards implemented by the products it supplies to automotive OEMs. However, Continental cannot do so because Defendants collectively have agreed to refuse to directly license Continental and its suppliers as part of a concerted scheme to charge elevated royalties to OEMs. Even though Defendants refuse to license Continental directly, Continental bears the cost of Defendants' supra-competitive and non-FRAND royalties as alleged herein. Accordingly, Continental is a direct victim of Defendants' anticompetitive scheme (and arguably the most direct victim) and is best positioned to bring this action to seek to enforce the antitrust laws and Defendants' FRAND licensing commitments.

V. The Formation of Avanci as a Collusive Vehicle to Raise the Price of Utilizing Cellular Standards for IoT Applications

107. Avanci is a purported "licensing platform" claiming to offer "one-stop" access to essential patented technology for wireless connected devices that are part of the Internet of Things, or "IoT." To do so, Avanci acts as a licensing agent for a large group of patent owners and traditional patent licensors. Presently, Avanci claims to act as a licensing agent for at least BlackBerry, BT Group, China Mobile, KPN, NTT Docomo, Ericsson, Fujitsu Ltd., Innovative Sonic, InterDigital, IP Bridge, NEC, Nippon Telegraph and Telephone Corporation ("NTT"), Panasonic, Qualcomm, Siemens, Sony, TNO, Vodafone, and ZTE (collectively, the "Non-Party Licensors"), as well as the Defendant Licensors.

- 108. Upon information and belief, Avanci was formed in or around September 2016, primarily by Ericsson and Qualcomm, two of the largest cellular SEP licensors in the handset (*e.g.*, smartphone) industry. Ericsson and Qualcomm have long exploited the handset industry through their lucrative licensing business model, whereby both refuse to license suppliers of baseband processors in order to preserve their ability to collect supra-FRAND royalties from downstream handset manufacturers.
- 109. In recent years, this practice has come under increasing scrutiny by regulators worldwide, as well as the courts. For example, in an enforcement action brought by the United States Federal Trade Commission against Qualcomm for, among other things, refusing to license baseband processor suppliers, the district court "conclude[d] that the TIA and ATIS IPR policies require Qualcomm to license its SEPs to modem chip suppliers." *Federal Trade Comm'n v. Qualcomm, Inc.*, Case No. 5:17-cv-00220-LHK, ECF 931 at 25 (N.D. Cal. Nov. 6, 2018). After extensive investigation, the Korea Fair Trade Commission ("KFTC") similarly ordered that Qualcomm "shall negotiate licensing terms with the modem chipset manufacturer that is willing to enter into licensing in good faith"
- 110. Ericsson, for its part, has also come under scrutiny for its excessive demands from handset manufacturers, with a court recently concluding that Ericsson's licensing offers to TCL, a handset manufacturer, were not FRAND, and setting FRAND rates that were far below Ericsson's demands. *See TCL Commc'n Tech. Holdings v. Telefonaktiebolaget LM Ericsson*, No: SACV 14-341 JVS(DFMx), 2018 WL 4488286 (C.D. Cal. Sep. 14, 2018).
- 111. The emergence of the IoT, with various connected products like cars and smart meters, presented large SEP holders with an opportunity to tap into a new and enormous growing market for the licensing of their asserted SEPs. At the same time, these SEP holders also wanted to preserve their ability to continue to extract supra-FRAND licensing revenues. Thus, they colluded to create Avanci, which

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would act as the "agent" for the licensing of their asserted cellular SEPs and those of 2 others who would join them in the scheme. The Avanci Members, including 3 Defendant Licensors, knew that, collectively through Avanci, they would have much greater bargaining power to extract elevated, supra-FRAND royalties than 5 each would have individually. The larger the number of alleged SEPs included in the "platform" (i.e., pool), the greater pressure they could collectively exert on 6 companies who need a license to practice the standards, and the higher royalties they 8 could demand by collectively boycotting certain implementers in the supply chain. 9 Thus, the agreement to collectively license their asserted SEPs on non-FRAND 10 terms was a mechanism by which Defendant Licensors and other Avanci Members could enhance and maintain the monopoly power they obtained through standardization by enhancing their collective ability to exploit that power. 13 112. Avanci was then authorized through a multilateral agreement with and among its members to offer a collective license to its members' SEPs only to manufacturers at the very end of a supply chain, like car OEMs. To give the scheme

the superficial appearance of reasonableness, Avanci would charge a "flat" royalty which varied with the type and price of the end-product implementing the cellular standards. Thus, the royalty for a car (a significantly more expensive end-product) would be set higher than the royalty for a smart meter (a less expense product), even though both products implement the particular standards by using a baseband processor. Further, Avanci would only target car OEMs even though there are several intermediate (and vastly less expensive) components between the baseband processor and the car which likewise implement the standards (namely, NADs and TCUs), and are more analogous to a handset than a car is. This scheme allowed Defendants and other Avanci Members to maintain and, indeed, further extend their end-product level licensing model in a way that is even further removed from the core components which practice the standards, but would ensure the most revenue possible for the licensors.

- among Avanci Members to not directly license upstream suppliers, such as suppliers of baseband processors, NADs, and TCUs within the automotive supply chain. Avanci has admitted to Continental that it lacks the authority, pursuant to its multilateral agreement with its members, to offer a license to Continental. As alleged herein, this concerted refusal to license was a necessary mechanism for achieving Avanci's collective supra-FRAND royalties which could not be sustained if charged directly to suppliers in the supply chain with much smaller prices and margins. Moreover, Defendants knew that a FRAND license to Tier 1, Tier 2, or Tier 3 suppliers would exhaust Avanci's ability to license car OEMs at much higher royalties.
- 114. In keeping with this collective agreement, Avanci notified Continental that it would only seek authorization from its members to license Continental if Continental agreed in advance to pay the same inflated rates Avanci demands from the car OEMs, knowing fully well that Continental could not agree to such an unreasonable demand. The result is that Defendants are able to collectively maintain cellular SEP licensing costs at higher levels than their FRAND obligations permit.
- 115. Patent pools may be efficient by reducing the transactional costs of negotiating separate licenses with individual licensors. However, any efficiency benefits quickly evaporate when a pool fails to incorporate structural protections to avoid illegal coordination among a large number of licensors in the pool. Such structural protections include, *at a minimum*, a pool's commitment to FRAND licensing of *any* willing licensee regardless of its level within the supply chain; the availability of FRAND licenses from individual licensors; and ensuring the validity and essentiality of all of the patents within the pool to minimize the risk of anticompetitive coordination, such as price fixing or tying of non-essential technologies. As alleged herein, Avanci falls far short of offering such

protections. Not only does Avanci expressly refuse to license willing suppliers within the chain based on its multilateral agreement with its members, but also some of its assertedly largest SEP holder members have publicly indicated they do not license their SEPs to any implementers other than the end-product manufacturers (here, purportedly car manufacturers). Moreover, Avanci fails to offer transparency as to what patents are included for licensing within the Avanci "marketplace," and the steps taken to ensure that each and every patent being licensed as purportedly "essential" is in fact valid and essential to a relevant standard.

- 116. On information and belief, and despite Avanci's claim to the contrary, not all patents offered by Avanci for collective licensing are essential to cellular standards. Many are non-essential patents that are not necessary to practice the standards and have alternatives in or outside of the "platform," thus resulting in price fixing and/or illegal tying of non-essential and competing technologies which are not necessary to practice the standards.
- 117. Indeed, other than the initial over-declarations of potential essentiality, which are unchecked by SSOs, there is no disclosure by Avanci or Defendant Licensors whatsoever identifying the precise patents, or even the number of those patents, that Avanci claims have been determined to be essential and thus offered for licensing by Avanci. Moreover, Avanci has made no disclosure of the actual process by which its supposed experts have made essentiality determinations, nor has it identified a process by which potential licensees can challenge the essentiality determinations of any supposed SEP.
- 118. Avanci's lack of transparency has thus made it impossible for Continental or other users of the standards to evaluate Avanci's claims as to the essentiality of the patents it purports to license. For example, there is no information as to the number of patents submitted by each licensor member, or the number or proportion of those submissions that were rejected as non-essential. Indeed, Avanci and its members have every incentive to artificially inflate the

number of the patents in the pool to justify their elevated and non-FRAND royalty demands.

VI. Defendants' and Their Co-Conspirators' Extensive and Ongoing Anticompetitive Conduct

119. Prior to adoption of a standard, there are generally multiple alternative technology solutions competing to perform any given functionality. During the standard setting process, SSO participants evaluate and then select the appropriate technology, among alternatives, to fulfill each individual function required to practice the relevant standard. This process includes considering the technical merits of any alternative, and also whether any alternative is based on proprietary technology and if such proprietary technology is available for licensing on FRAND terms and conditions. If an alternative is not available for FRAND licensing, the relevant SSOs are required to reassess their options or even withdraw the portion of the standard that relies on such proprietary technology.

120. Thus, before a standard is adopted, all of the potential alternative technologies capable of performing each particular function within a 2G, 3G, or 4G standard compete in a relevant product market. These product markets are collectively referred to for a particular standard as "technology markets." For example, with respect to much of the functionality within the 3G UMTS and LTE standards, alternative technologies prior to standardization (*e.g.*, tDocs or technical submissions) were regularly proposed to the SSOs by companies that are not members of Avanci. These technologies all competed in a relevant technology market for the stated functionality. Thus, ETSI could have adopted any of these alternatives (in whole or in part) as part of the 3G UMTS and 4G LTE standards. To the extent Defendant Licensors claim that their purported technology is essential to the stated functionality and thus adopted into the standard, ETSI relied on Defendant Licensor's FRAND licensing commitments in adopting their proprietary technology.

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- 121. Subsequent to standardization, however, other technological alternatives no longer compete with the standardized technology, which by definition was adopted over the alternatives. Thus, for as long as the standard remains in use, no viable substitutes exist post-standardization for the technology embodied in a relevant SEP. As a result, the incorporation of a patent into a standard makes the scope of the relevant technology market for each specific functionality of a standard congruent with that of the patent asserted to be essential to that particular functionality of the standard. Examples of technology markets and/or submarkets post-standardization include the specific patents and/or patent applications that each Defendant Licensor claims are essential to the 2G, 3G, or 4G cellular standards that were identified in their respective licensing declarations to ETSI, TIA, ATIS and/or other relevant SSOs. Thus, after standardization, each Defendant Licensor became the only commercially viable technology supplier in each of the relevant technology markets for which its patented technology became standardized. Accordingly, standards implementers, including Continental, could no longer substitute the adopted technologies with any other alternatives. As a result, each Defendant Licensor possesses monopoly power in a relevant technology market for its standardized patented technology, and a dominant share of that market, allowing it to extract supra-FRAND royalties and exclude companies in the downstream markets that utilize the standards.
- 122. The relevant SSOs require FRAND commitments from SEP holders precisely to impose a limit on such exercise of otherwise unchecked monopoly power that results from collective standard setting. When, as alleged herein, SEP holders intentionally renege on their voluntary FRAND bargain with the SSOs, they subvert the very safeguards that shield collective standard-setting activity from violating the antitrust laws.
- 123. Despite SSOs adopting IPR policies incorporating FRAND commitments, some SEP owners, including Defendant Licensors, have attempted to

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abuse their monopoly power arising from the standardization process to exclude certain implementers from practicing the standards and extract supra-competitive royalty rates after companies are locked into the standardized technology. Such exploitation of SEPs in an effort to extract unreasonable or discriminatory royalties is referred to as patent "hold-up." The cumulative royalty burden that would be required to satisfy all SEP holders' royalty demands is referred to as royalty stacking.

- 124. Hold-up harms competition and impedes broad implementation of standards, diminishing any benefits that flow from widespread adoption of the standard. The anticompetitive effects of hold-up are magnified when the total aggregate royalty stack would be unreasonable relative to prices and margins of the product that implements the standards. The total royalty stack must be reasonable when viewed in the aggregate. The demands of individual SEP owners must be assessed in light of the total number of SEPs included in the standard and their relative technical contributions. It has been recognized that patent hold-up is a widespread problem, given that royalty demands by many SEP holders significantly exceed adjudicated FRAND rates.
- 125. Legal precedent and economic analysis have made clear that FRAND principles are only effective when, at least, (a) royalties for essential technology are limited to the *ex ante* value of the alleged SEP(s) when the SEP still competed with other alternatives for inclusion in the standard; (b) such royalties exclude the additional value the technology gains solely from being broadly adopted into standards; and (c) licenses are offered to any user of the standards on nondiscriminatory terms such that an end-product manufacturer is not forced to pay a higher royalty for implementing a given SEP technology than could be justified relative to the royalty payable by a component manufacturer that implements the same SEP for the same functionality.
 - 126. By refusing to adhere to such basic FRAND principles in violation of

1 their express and voluntary FRAND commitments, Defendant Licensors have been 2 illegally maintaining the monopoly power they initially obtained when their 3 patented technologies became standardized as a direct result of their FRAND commitments. Defendant Licensors' illegal exploitation of their monopoly power in 4 5 their standardized proprietary technologies has raised SEP royalty costs to levels that are unsustainable for implementers like Continental and other TCU suppliers. 6 7 Despite Defendant Licensors' refusal to license them, TCU suppliers nonetheless 8 directly bear the burden of such supra-FRAND royalties in the form of indemnity 9 obligations and costs. Such costs often exceed the available margins on TCUs. As 10 a result of this supplier boycott, if left unchecked, Defendant Licensors could force 11 many TCU suppliers out of the market, or cause them to reduce investing in new 12 and better TCU functionalities to the detriment of competition and consumers. 13 127. In addition to the technology markets described above, there exists a market for the licensing of SEPs relevant to 2G, 3G, and 4G cellular standards. 15 Such a market is relevant to the conspiracy claims alleged herein and is a market 16 directly restrained by the conspiratorial conduct alleged herein. In a competitive 17 SEP licensing market, untarnished by illegal coordination among large SEP holders, the terms, including the price, on which one large SEP holder would offer to license 18 19 its cellular SEPs would competitively discipline the terms that could be offered by other SEP holders. Absent collusion, SEP holders would compete in setting the 20 21 licensing terms for a SEP license due to the fact that all of the SEPs at issue are 22 subject to common FRAND commitments. For example, if one large SEP licensor 23 were to offer to license its cellular SEPs exhaustively to component suppliers at a 24 FRAND rate, such a license would establish a precedent that would effectively limit

the ability of other SEP holders to discriminate against component suppliers. In

holders and so the royalty charged by one large SEP holder competitively

addition, those FRAND obligations impose a reasonable aggregate limit on all SEP

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encumbered SEPs relevant to particular cellular standards do not directly compete with each other does not affect this competitive dynamic related to the licensing of those SEPs.

128. Thus, there exists a great degree of incentive for illegal coordination in particular among large SEP holders to collusively set the terms of an SEP license in order to establish a floor for licensing terms, and minimize or eliminate competition in setting terms for SEP licenses. That is precisely what has happened here. Rather than competing to establish FRAND licensing terms, Defendants have colluded with other Avanci Members to restrain and eliminate such competition. Avanci Members include some of the largest purported SEP holders, including Qualcomm, Nokia, Ericsson, and InterDigital, among others, who together claim to own the bulk of the SEPs related to 2G, 3G, and/or 4G cellular standards. After Nokia joined Avanci as a member in late 2018, Avanci's Chief Executive Officer, Kasim Alfalahi, issued a statement claiming that the platform "now offers a licence [sic] covering a vast majority of the world's cellular standard essential patents," although he stopped short of disclosing the actual percentage of SEPs Avanci purports to license. While any of these SEP holders could have licensed its SEPs individually outside of the platform on competitive FRAND terms, including to component suppliers, they instead collusively agreed amongst themselves and with other Avanci Members, including Defendants, to collectively refuse to license component suppliers within the automotive supply chain and to otherwise fix the terms of an SEP license, including supra-competitive royalties on end-products that bear no relationship to the actual value of the alleged SEPs at issue.

129. An example of such a collusive agreement is expressly memorialized in a multilateral agreement among Avanci Members and Avanci. That multilateral agreement restrains each Avanci Member from offering a license in competition with an Avanci licensing program in any manner that would hinder Avanci's ability to collect its full stated supra-FRAND royalty at the end-user device level—here,

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the automobile. While Avanci indicates that each Avanci Member may offer an individual license to its SEPs outside of the "platform," the Avanci Members' 2 3 multilateral agreement nonetheless requires each Avanci Member to ensure that its individual licenses do not adversely affect Avanci's ability to collect its full stated price. The multilateral agreement thus expressly provides that the existence of an individual license by any Avanci Member would not affect the terms and conditions 6 for any Avanci licensing program, including any royalty terms offered by Avanci 8 for such a licensing program that would include the individually-licensed patents. 9 Because fully exhaustive individual licenses would subject Avanci to doubledipping and exhaustion claims with respect to an Avanci Member's separatelylicensed SEPs, it is practically impossible for members to offer individual licenses to suppliers that are fully exhaustive and yet avoid any effect on Avanci's ability to collect its full stated price from car OEMs. As a result, Avanci Members have no incentive to compete—and thus effectively do not compete—with each other or with Avanci in offering competitive SEP license terms, including fully exhaustive 16 licenses, to component suppliers. 17 130. Continental is informed and believes, and thereupon alleges, that in

addition to the collusive express multilateral agreement among Avanci and Avanci Members, alleged above, there exist other agreements and/or understandings—tacit or express—between and among Defendants and their co-conspirators to fix the terms and conditions of an SEP license, including agreements or understandings to individually boycott certain implementers, and/or offer terms with the same practical effect of a refusal to deal with such implementers. The purpose of such agreements is to raise and/or maintain SEP royalties and other SEP licensing terms at supra-competitive and non-FRAND levels, by collectively forcing potential licensees to obtain a joint license from Avanci instead. For example, while Avanci indicated that Continental could attempt to seek individual licenses from its members at the component level, Defendant Licensors have refused to directly

1 license Continental and its suppliers on FRAND terms as alleged herein, including 2 in Section VII, below. Through such collusive agreements or understandings, 3 Defendants and other Avanci Members have thus agreed to eliminate competition in offering FRAND terms and conditions for an SEP license, thus harming competition 4 5 in the market for the licensing of 2G, 3G, and 4G cellular SEPs, and raising royalty costs to implementers, including TCU manufacturers, and ultimately consumers 6 7 who must bear those higher costs either in higher prices, or reduced innovation and 8 functionality in TCUs and cars that incorporate them.

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131. Defendants' collusive conduct also threatens to unreasonably restrain competition, innovation and investment in the markets for the baseband processors that implement the 2G, 3G, 4G, and/or eCall functionalities and standards. As alleged herein, baseband processors are the components that most directly implement and substantially, if not fully, practice the cellular standards. Such components are essential inputs for purposes of manufacturing TCUs with cellular functionality. Baseband processor suppliers—sometimes referred to as Tier 3 suppliers—supply basebands to Tier 2 NAD suppliers for incorporation into NADs, which are then supplied to Tier 1 TCU suppliers, like Continental, as subsystems that are incorporated into their TCUs. Baseband processor suppliers include Qualcomm (a key Avanci Member), and to a lesser extent MediaTek, Intel, and Samsung System LSI. However, Qualcomm remains by far the largest supplier of baseband processors and has always held a significant lead—due to its historically dominant position—in baseband processors with new and premium functionalities. Qualcomm is also by far the largest supplier of CDMA-compliant baseband processors in the world, as well as multimode baseband processors which are capable of operating on all major cellular networks, including all 2G (e.g., CDMA, GSM), 3G (e.g., CDMA, UMTS, TDSCDMA, etc.), and 4G LTE networks. According to a leading industry analyst company, Strategy Analytics, as of Q1 2018, Qualcomm's revenue share of the overall baseband processor market was

roughly 52%, with its second largest competitor, MediaTek, having only a 13% share, followed by Samsung System LSI at 14%. The remaining competitors, including Intel, had a combined share of roughly 21%. Thus, Qualcomm has a significant lead over its competitors both in market share and technology.

- 132. Continental is informed and believes, and thereupon alleges, that in addition to the collusive agreements alleged above, there exist agreements or understandings—tacit or express—among Defendants and their unnamed coconspirators that they would collectively offer royalty discounts, rebates, marketing support and/or other incentives (collectively "inducements") to any car OEM whose products utilize Qualcomm baseband processors for cellular connectivity. Such inducements would not be available to OEMs who use a TCU or NAD that utilizes a baseband processor chipset from other chipset competitors. As a result, OEMs would have no incentive to purchase TCUs or NADs that would utilize a competing baseband processor chip because they would have to forego these inducements.
- reason, among others, that other Avanci Members have agreed to offer such inducements is that, in return for other considerations, Qualcomm previously obtained long term component-level licenses, still in effect, from many Avanci Members—including those who are major SEP holders—that grant exhaustive (*i.e.*, pass-through) rights for the use of its baseband processors, or cap royalties those SEP holders can collect from potential licensees. Because such rights, including exhaustive licenses, would not be available to any other baseband processor supplier, competing baseband processor suppliers would face the stigma that their chips are inferior because competing chips would be sold with no exhaustive pass-through rights, or other royalty capping rights. Such perceived deficiency of competing chips would thus dissuade potential customers from purchasing competing chipsets. Accordingly, these exclusionary agreements or understandings threaten to unreasonably restrain competition in the markets for baseband processors

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by reducing rival baseband processor suppliers' sales and margins, and thus hindering and reducing their ability to invest and innovate in better and new functionalities to compete.

134. The geographic scope of the relevant technology markets, the market for the licensing of 2G, 3G, and 4G cellular SEPs, and the baseband processor markets alleged herein is worldwide. The 2G, 3G, and 4G standards at issue have been adopted globally and are subject to common FRAND obligations governing all SEPs incorporated into those standards, irrespective of the region or country in which a particular patent incorporated into a standard may have been issued. In addition, SEP licenses are typically granted on a worldwide basis in light of the global scope of the standards at issue. For example, Avanci does not grant licenses by region or country, but instead purports to license "all the essential patents owned by the licensors who have joined our marketplace" which assertedly "covers the entire essential 2G, 3G and 4G patent portfolio these innovators own today as well as any such patents they develop or acquire during the term of your license." Finally, there are no material geographic barriers to competition for baseband processor sales.

135. Defendants' anticompetitive conduct in the markets alleged above have injured, and/or threaten to injure TCU suppliers, including Continental. Continental and other TCU suppliers directly face the burden of Defendants' excessive royalty demands from car OEMs in the form of indemnity obligations that are disproportionate to the prices and margins of TCUs. Such indemnity obligations often exceed the available margins on TCUs, putting Continental and other TCU suppliers at risk of having to exit the market, or reducing investment and innovation in new and better functionalities to the detriment of competition and consumers. Indeed, the TCU market as a whole faces the risk of general stagnation in investment and innovation if TCU suppliers must bear the brunt of Defendants' excessive and non-FRAND royalty demands. These collusive agreements also

unreasonably lead to the exclusion of other baseband processor suppliers and ultimately to a key Avanci Member's further and continued dominance in the markets for baseband processors. Faced essentially with a monopoly (sole-source) supplier of baseband processors, Continental and other TCU suppliers would be subjected to higher costs as such Avanci Member would have little incentive to offer competitive prices.

VII. Continental's Attempts to Obtain a License from Defendants

- 136. Continental's own attempts to obtain licenses to the alleged SEPs owned or controlled by Defendants confirms the above-described anticompetitive and unlawful agreements.
- 137. Upon information and belief, Defendants first began targeting certain Continental customers (automobile OEMs) in early 2017, asserting that their connected cars practice the cellular standards purportedly covered by Defendants' alleged SEPs, and offering a license to the alleged SEPs. The rates offered to Continental's customers are non-FRAND and in violation of Defendants' obligations to the various SSOs.
- Defendants when informed by its customers. Understanding that the automobiles sold by its customers connect to the various cellular networks through the TCUs provided by Continental (the actual practice of the cellular standards occurs at the level of the baseband processor), Continental knew it would be in a better position than its customers to negotiate a license to the alleged cellular SEPs. Indeed, patents declared as essential to cellular standards are often highly technical. Understanding such patents in a way that promotes productive licensing negotiations requires knowledge beyond the scope required by car OEMs, who often simply assemble cars with the components or subsystems that include cellular functionality. While baseband processor and/or NAD suppliers are best situated to engage in such negotiations, Continental has a better understanding of the cellular technology

standards implemented by its products than do its car OEM customers.

failed and refused to offer a direct license on FRAND terms.

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139. Continental contacted each of the Defendants individually in an attempt to negotiate a FRAND license to the alleged SEPs asserted against its customers. However, all of Continental's attempts have failed, in that the Defendants have

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140. Continental first contacted defendant Avanci on or about early 2018, seeking a license to the alleged SEPs for which it acts as licensing agent. However, at every turn, Avanci refused Continental's simple requests customary to any

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FRAND licensing negotiation. For example, from the outset, Continental requested

claim charts detailing how the alleged SEPs practice the relevant standards and/or

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how Continental's products practice the alleged SEPs. Avanci continually rebuffed

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these requests, stating that it does not engage in technical discussions regarding the patents it is authorized to license. Rather, Avanci directed Continental to contact the

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owners of the alleged SEPs (i.e., the Avanci Members) if Continental wished to

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engage in technical negotiations. However, as described in further detail below, Continental's attempt to open lines of communication with the Avanci Members

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was also fruitless.

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Avanci's terms for a license to the alleged SEPs under its control. Avanci refused to

141. In addition to requesting claim charts, Continental also requested

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authorized to license the alleged SEPs under its control to the automotive OEMs, *not*

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to Tier 1 suppliers such as Continental. Further, Avanci would only seek

provide terms for a license to Continental. According to Avanci, it is only

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authorization from the Avanci Members to enter into a license with Continental (a

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prerequisite to providing Continental terms of a license) if, prior to doing so,

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Continental agreed to be bound by the royalty rates posted on Avanci's website.

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Continental cannot be forced to agree to the clearly non-FRAND royalty rates published by Avanci as a prerequisite to negotiations of other terms. Instead,

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Continental has continually informed Avanci that it is a willing licensee, and willing

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27 28 to engage in good faith negotiations for a license to the alleged SEPs under Avanci's control on FRAND terms. However, Avanci has refused to come off of its unreasonable demands in violation of its FRAND obligations.

- 142. Continental also contacted defendant Nokia about an individual license to its portfolio of alleged cellular SEPs. At various times, Continental and its affiliates have sought a direct license from Nokia, without regard to the ultimate end use of the product (e.g., whether it will be sold directly to an OEM in the automotive industry), or the identity of any end user. However, Nokia has failed and refused to provide Continental with a direct license, whereby Continental itself would be fully licensed to Nokia's SEPs. In addition, the royalty rates demanded by Nokia are not FRAND, and are grossly disproportionate to the value of Nokia's purported essential technologies to the actual components—i.e., baseband processors—that directly implement the cellular standards.
- 143. On or about January 11, 2019, Continental also contacted defendant Conversant about obtaining an individual license to its portfolio of alleged cellular SEPs. When Conversant responded, it stated that it was "offering a FRAND license to its SEP portfolio to manufacturers of vehicles with cellular functionality," and only expressed a willingness to "make the same offer" to Continental that Conversant had made to one of Continental's OEM customers, at the same rate offered to that OEM customer. Conversant did not offer Continental a license for all standard-compliant devices sold by Continental, despite Continental's follow-up request for just such a license. In the meantime, Conversant continues to assert its patents against Continental's OEM customers, all while demanding non-FRAND rates from them.
- 144. Continental also contacted defendant PanOptis about an individual license to its portfolio of alleged cellular SEPs. However, much like the other Defendants, PanOptis has refused to provide an offer for such a license to Continental.

145. On or about June 3, 2019, Continental became aware that defendant Sharp filed a lawsuit against one of Continental's automotive OEM customers in Germany alleging patent infringement in connection with standardized cellular devices provided by Continental. On information and belief, prior to filing its complaint defendant Sharp never contacted Continental's OEM customer or Continental regarding a direct license to Sharp's alleged SEPs. Rather, Sharp threatened Continental's OEM customer that the only way to resolve the lawsuit is to take a license from Avanci. Continental regards Sharp's conduct as a refusal to directly license Continental, as well as a refusal to individually license its alleged SEPs separate from Avanci. In a letter sent to Sharp shortly before the filing of this First Amended Complaint, Continental indicated that it is willing to negotiate a direct license to any applicable SEPs and asked Sharp to send Continental an offer for a license on FRAND terms.

146. Additionally, upon information and belief, Non-Party Licensor Ericsson has indicated that it has a policy of licensing its alleged cellular SEPs only at the end-user device level—here, the automotive OEM. For example, Christina Petersson, Ericsson's Chief IP Officer, recently publicly testified in a government trial that Ericsson licenses only to companies that make "a fully compliant product that can be used by the user." (FTC v. Qualcomm Trial testimony, Jan. 25, 2019, 21:20-22:6.) In the FTC case, the relevant companies that Ericsson offers to license were handset manufacturers, such as Samsung or Huawei. Here, such companies would be the car OEMs, such as BMW. Particularly, for Ericsson's cellular SEP portfolio, it "would be licensing to the company putting its name on the fully compliant equipment and selling that on the market," which Ms. Petersson identified as the OEMs. (FTC v. Qualcomm Trial testimony, Jan. 25, 2019, 25:5-14.)

147. Qualcomm, another Avanci Member, also has publicly indicated that it does not license component suppliers, such as suppliers of baseband processors that directly implement the cellular standards at issue even though Qualcomm requires a

cross-license from its licensees covering the manufacture, sale and use of its own baseband processors and components.

- 148. Meanwhile, as Continental remains unable to obtain a FRAND license from Defendants, Avanci and the Avanci Members' (including Defendants) continue to put pressure on Continental's customers (the automotive OEMs) to accept a license to the alleged cellular SEPs on non-FRAND terms, often impliedly or explicitly threatening litigation and the possibility of an injunction.
- 149. Based on the above, Continental is informed and believes, and thereupon alleges, that Avanci and Avanci Members have collusively agreed only to directly license their alleged SEPs at the automotive OEM level (effectively agreeing to a boycott of all other implementers in the supply chain) in direct contravention of their commitments to make licenses available to *all* users of the standards. This collusive agreement is designed to subvert the FRAND promises each Avanci Member made to obtain its market power in the relevant market for its standardized technology to the exclusion of alternatives, which ultimately drives up the cost of licensing 2G, 3G, and 4G cellular SEPs to companies like Continental which implement the standards. Defendants know they could not collect the same level of royalties from Tier 1 suppliers like Continental, Tier 2 suppliers, or baseband processor suppliers because the demanded rates are disproportionately high as compared to product prices and profit margins of suppliers at these levels.
- 150. Given this dynamic and the above-stated facts, individual licenses are not practically available to Continental, and any further licensing requests would be futile, in part because individual licensing of Continental and other suppliers would result in the exhaustion of Avanci and the Avanci Members' patent rights against automobile OEMs, which would up-end Defendants' collusive licensing model. Defendants' licensing tactics demonstrate that Defendants are collaborating in an anticompetitive fashion in an attempt to extract non-FRAND royalty rates. In light of Defendants' continued unfair, discriminatory, and unreasonable conduct,

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Continental has no choice but to bring this action in order to confirm its right to a license, and seek a judicial determination of the FRAND terms and conditions for such a license.

FIRST CAUSE OF ACTION

Breach of Contract

- 151. Continental re-alleges and incorporates by reference the allegations set forth in the foregoing paragraphs.
- 152. Defendants entered into, or are bound by, contractual commitments they made to the relevant SSOs, such as ETSI, TIA, and/or ATIS, and their respective members, participants, and implementers relating to the 2G, 3G, and 4G standards. To comply with the IPR Policies of the relevant SSOs, Defendants either made or are encumbered by a binding commitment to those SSOs, their members, and third-party implementers to grant irrevocable licenses to any such user of cellular standards purportedly covered by Defendants' alleged SEPs on FRAND terms and conditions.
- 153. The declarations made pursuant to such IPR Policies created an express and/or implied contract with those SSOs and their members, including an agreement that Defendants would license those patents on FRAND terms and conditions. The IPR Policies of ETSI, TIA, and ATIS, among other relevant SSOs, do not limit the right to obtain a license on FRAND terms and conditions to their members; third parties that are not members also have the right to be granted licenses under those patents on FRAND terms and conditions. Each and every party with products that implement the 2G, 3G, and 4G standards promulgated by such SSOs is an intended third-party beneficiary of Defendants' contractual commitments, including Continental, its suppliers, and its customers.
- 154. Despite Continental's good faith efforts to negotiate a license to Defendants alleged SEPs, Defendants are refusing to license Continental, opting

instead to pursue licenses solely with automotive OEMs.

- 155. Therefore, Defendants have breached their obligations to relevant SSOs such as ETSI, TIA, and/or ATIS by refusing to license to all users of cellular standards allegedly covered by Defendants' declared patents, namely Continental.
- 156. Moreover, Defendants have also failed and refused to offer a license to their alleged SEPs on FRAND terms and conditions. This constitutes an additional breach of Defendants' FRAND obligations, of which Continental is an intended third-party beneficiary.
- 157. As a result of Defendants' contractual breaches, Continental has been injured in its business or property and is threatened by imminent loss of profits, loss of customers and potential customers, the imposition of non-FRAND terms and conditions (including via Continental's contractual indemnity obligations to its OEM customers, should Defendants succeed in procuring a non-FRAND license from those OEM customers), and loss of goodwill and product image.
- 158. Continental has suffered and will continue to suffer irreparable injury by reason of the acts, practices, and conduct of Defendants alleged above until and unless the Court enjoins such acts, practices, and conduct. Namely, Continental requests (1) that this Court order Defendants to offer a license on FRAND terms and conditions to Continental, and (2) an adjudication of the FRAND terms and conditions for such a license.

SECOND CAUSE OF ACTION

Promissory Estoppel

- 159. Continental re-alleges and incorporates by reference the allegations set forth in the foregoing paragraphs.
- 160. Defendants made a clear and definite promise to potential users of the 2G, 3G, and 4G standards through their commitments to relevant SSOs, including ETSI, TIA, and/or ATIS, and also their public statements, that they had granted, or

would grant, licenses to any essential patents on FRAND terms and conditions.

- 161. The intended purpose of Defendants' promises was to induce reliance upon these promises so that companies like Continental would invest substantial resources to design, develop, and produce products compatible with the relevant standards. Defendants knew or should have reasonably expected to know that they would induce reliance on these promises by companies such as Continental.
- 162. Continental developed and marketed its products and services in reliance on Defendants' promises, including making its products and services compliant with cellular standards adopted by the relevant SSOs, including the 2G, 3G, and 4G standards, in various Continental product offerings.
- 163. Defendants are estopped from reneging on these promises under the doctrine of promissory estoppel.
- 164. Continental has been harmed as a result of its reasonable reliance on Defendants' promises and is threatened by the imminent loss of profits, loss of customers and potential customers, imposition of non-FRAND terms and conditions, and loss of goodwill and product image.
- 165. Continental has suffered and will continue to suffer irreparable injury by reason of the acts and conduct of Defendants alleged above until and unless the court enjoins such acts, practices, and conduct.
- 166. Moreover, Defendants' breach of their FRAND obligations further constitutes waiver and/or estoppel of Defendants' rights to enforce any declared essential patents against any entity allegedly practicing the standard.

THIRD CAUSE OF ACTION

Declaratory Judgment

- 167. Continental re-alleges and incorporates by reference the allegations set forth in the foregoing paragraphs.
 - 168. Defendants are contractually obligated to license their 2G, 3G, and 4G

| 1 | alleged SEPs on FRAND terms and conditions. As a result of the acts described in | | | |
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| 2 | the foregoing paragraphs, there exists a definite and concrete, real and substantial, | | | |
| 3 | justiciable controversy between Continental and Defendants regarding (1) whether | | | |
| 4 | Continental and other suppliers in the automotive supply chain are entitled to a | | | |
| 5 | direct license to Defendants' 2G, 3G, and 4G SEPs on FRAND terms and condition | | | |
| 6 | consistent with Defendants' irrevocable commitments in their obligations, | | | |
| 7 | membership, and or declarations with relevant SSOs, including ETSI, TIA, and/or | | | |
| 8 | ATIS, and (2) what constitutes FRAND terms and conditions for a license to | | | |
| 9 | Defendants' 2G, 3G, and 4G SEPs. This dispute is of sufficient immediacy and | | | |
| 10 | reality to warrant the issuance of a declaratory judgment. | | | |
| 11 | 169. Continental is entitled to a declaratory judgment with respect to (1) | | | |
| 12 | Continental and other suppliers' entitlement to a direct license to Defendants' 2G, | | | |
| 13 | 3G, and 4G SEPs on FRAND terms and conditions; (2) a determination that | | | |
| 14 | Defendants have not offered Continental a direct license to their alleged 2G, 3G, an | | | |
| 15 | 4G SEPs on FRAND terms and conditions; (3) a determination of what constitutes | | | |
| 16 | FRAND terms and conditions for a license to Defendants' 2G, 3G, and 4G SEPs, | | | |
| 17 | with those terms and conditions being imposed on the parties; and (4) a | | | |
| 18 | determination that the FRAND terms and conditions must be consistent with well- | | | |
| 19 | established apportionment principles under federal patent law (i.e., the smallest | | | |
| 20 | salable patent practicing unit rule). | | | |
| 21 | FOURTH CAUSE OF ACTION | | | |
| 22 | Violation of Section 1 of the Sherman Act, 15 U.S.C. § 1 – Concerted Action | | | |
| 23 | Unreasonably Restraining Trade | | | |
| 24 | (Against All Defendants) | | | |
| 25 | 170. Continental re-alleges and incorporates by reference the allegations set | | | |
| 26 | forth in the foregoing paragraphs, as though fully set forth herein. | | | |
| 27 | 171 Continental is informed and believes, and on that basis alleges, that | | | |

there exists a contract, combination, or conspiracy between or among Defendants

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and their co-conspirators. As alleged herein, such contract, combination or conspiracy includes, among other anticompetitive agreements or mutual understandings, agreements or understandings to (a) collectively boycott intermediate suppliers of components and subsystems within the automotive chain—including suppliers of TCUs such as Continental, NADs, and the baseband processors that directly implement the standards at issue—by refusing to directly license them, let alone on FRAND terms and conditions, as all Defendants are required to do; (b) fix and otherwise collectively set a minimum floor for basic SEP licensing terms; (c) steer potential licensees to Avanci by refusing to offer individual fully exhaustive direct FRAND licenses to suppliers in the automotive supply chain in order to preserve Avanci's ability to extract supra-competitive prices at the OEM level; (d) combine (i.e., pool) their patents for collective licensing on non-FRAND terms by Avanci as a mechanism to enhance and maintain their ability to exploit the market power each Defendant Licensor gained from standardization by exerting additional bargaining power as a collective; (e) illegally tie the licensing of their alleged SEPs to potential licensees taking licenses to their collective non-essential and thus unwanted technologies, and packing the purported collective license with non-SEPs in order to inflate the number of patents for collective licensing to justify their non-FRAND royalties; (f) bundle alleged SEPs and non-SEPs for a joint license resulting in the collective price fixing of non-essential and competing technologies; and (g) fix the minimum price of licensing their alleged SEPs through Avanci by collectively refusing to discount Avanci's stated royalty for the value of any individual or existing licenses, thus further raising the cost of implementing the standards through double dipping in violation of exhaustion rules.

172. Continental is informed and believes, and on that basis alleges, that the contract, combination, or conspiracy between or among Defendants and their co-conspirators, as alleged herein, has and will unreasonably restrain and/or eliminate trade in violation of Section 1 of the Sherman Act in multiple markets as alleged in

Section VI by, among other things, (a) excluding alternative technologies that otherwise would have been included in the relevant technology markets had Defendants, their co-conspirators, and predecessors-in-interest been transparent about not honoring their relevant FRAND commitments; (b) raising the costs of implementing standardized technologies and prices to consumers; (c) reducing or eliminating investments by the suppliers in the automotive supply chain, including by TCU suppliers, who directly bear the cost of Defendants' supra-FRAND royalties in the form of disproportionable indemnity costs, which would leave little to negative margins for investment in new and better TCU functionalities; (d) reducing or eliminating competition in the baseband processor markets within the automotive supply chain by dissuading OEMs from purchasing TCUs and NADs that use baseband processors that compete with those supplied by a key Avanci Member; and (e) eliminating or reducing competition in the licensing of non-essential and competing technologies included in the "platform" for collective licensing.

173. Continental is informed and believes, and on that basis alleges, that Defendants are engaged in interstate commerce in the United States, and the activities alleged herein involve products in the flow of interstate commerce and will substantially impact interstate commerce as the alleged licensing activities are directed to car OEMs throughout the United States and directly affect the products sold throughout the United States, the cellular standards are implemented throughout the United States, and SSOs such as ATIS and TIA adopt such standards for implementation throughout the United States with IPR Policies governing FRAND licensing of SEPs they adopt into standards for the entire United States.

174. Continental is informed and believes, and on that basis alleges, that the unreasonable restraints and elimination of trade, as alleged herein, have resulted in substantial harm to competition in both the upstream technology markets and the downstream markets that implement and practice the standards, as alleged in Section

VI.

- 175. Continental is informed and believes, and on that basis alleges, that Defendants and their co-conspirators have used the cover of Avanci as a patent pool or "licensing platform" to collusively engage in all of the anticompetitive conduct alleged herein, including in Section VI, that unreasonably restrains trade in violation of Section 1 of the Sherman Act.
- 176. Continental is informed and believes, and on that basis alleges, that there is no procompetitive justification for the anticompetitive agreements and conduct alleged herein, including Defendants' refusal to offer Continental a direct FRAND license in breach of their affirmative and voluntary commitments to do so. To the extent Defendants assert that any procompetitive justifications exist, such purported justifications are outweighed by the anticompetitive effects in markets alleged in Section VI.
- 177. As a result of the collusive conduct alleged herein, including the collective refusal to directly license Continental and its NAD and baseband processor suppliers, Continental has suffered and will continue to suffer injury to its business and property and will suffer substantial and irreparable harm if such conduct remains unredressed. In particular, because Continental cannot obtain the necessary FRAND licenses to the alleged SEPs, its ability to secure customers is threatened because its customers typically demand that Continental indemnify them or discount its prices to account for Defendants' exorbitant royalties. Such indemnity costs exceed Continental's margins on its products that implement the standards primarily through the use of a baseband processor. Continental, as with other TCU suppliers, is also faced with the prospect of a sole supplier of baseband processors for its TCUs as a result of Defendants' and their co-conspirators' agreements to offer royalty rebates, discounts or other incentives for the use of a key Avanci Member's chipsets, which would effectively eliminate Continental's ability to switch to competing chips to reduce costs.

178. Continental thus seeks an order declaring as unlawful the collusive agreements, alleged herein, and to enjoin and otherwise remedy such conduct, including ordering Defendants to offer a FRAND license to Continental and other suppliers in the automotive supply chain, and setting the terms of a FRAND license, including a FRAND rate, for their asserted SEPs being collectively licensed by Avanci.

FIFTH CAUSE OF ACTION

Violation of Section 2 of the Sherman Act, 15 U.S.C. § 2 – Unlawful Monopolization

(Against Defendant Licensors)

- 179. Continental re-alleges and incorporates by reference the allegations set forth in the foregoing paragraphs, as though fully set forth herein.
- 180. Continental is informed and believes, and on that basis alleges, that the relevant technology markets, as defined in Section VI above, are valid antitrust markets.
- 181. Continental is informed and believes, and on that basis alleges, that Defendant Licensors have willfully acquired and maintained monopoly power in the relevant technology markets, as described in Section VI above.
- 182. Continental is informed and believes, and on that basis alleges, that Defendant Licensors intentionally and falsely represented to the relevant SSOs, such as ETSI, ATIS and/or TIA that if elements of their proprietary technology were included in the cellular standards adopted into standards, they would license such patents to any applicant desiring a license to utilize the standards to produce standard-complaint products on FRAND terms and conditions. To the extent, Defendant Licensors are successors-in-interest to an original SEP holder that made such FRAND promises, they obtained their rights subject to such commitments and either knew or should have known of the nature of the FRAND commitments that encumbered the disclosed asserted SEPs.

183. Continental is informed and believes, and on that basis alleges, that the relevant SSOs relied on such FRAND licensing promises in adopting the asserted SEPs into standards, and that, absent such affirmative promises, the SSOs otherwise would not have agreed to adopt a cellular standard that would have given Defendant Licensors the power to effectively block companies from practicing the standards. Indeed, the anticompetitive effects of Defendant Licensors' breaches of their FRAND promises are the same whether Defendant Licensors intentionally deceived the SSOs at the time they made FRAND promises, or later opportunistically breached their FRAND promises once their technologies became locked into the standards. Either way, Defendant Licensors' technologies became locked into the standards because their FRAND licensing representations directly caused SSO participants to, at a minimum, forego the process by which they were required to evaluate and select alternatives to any essential technology known to be unavailable for FRAND licensing, or to abandon those portions of the standards for which no such alternative was available.

- 184. After their technologies were locked into the standards, giving Defendant Licensors monopoly power in their standardized technologies, Defendant Licensors have refused to negotiate in good faith to license their asserted SEPs on FRAND terms, including by refusing to directly license Continental and its suppliers within the automotive supply chain, so that they could extract higher royalties from car OEMs.
- 185. Continental is informed and believes, and on that basis alleges, that there is no procompetitive justification for Defendant Licensors' exclusionary conduct as alleged herein, including their refusal to offer Continental a FRAND license in breach of their affirmative and voluntary commitments to do so. Even if any procompetitive justification is asserted to exist, it is far outweighed by the anticompetitive effects asserted herein, especially in light of Defendant Licensors' voluntary FRAND licensing commitments.

186. As a result of Defendant Licensors' anticompetitive breaches of their FRAND obligations, including their refusal to directly license Continental and its NAD and baseband processor suppliers, Continental has suffered and will continue to suffer injury to its business and property and will suffer substantial and irreparable harm if the anticompetitive conduct alleged herein remains unredressed.

187. Continental thus seeks an order declaring Defendant Licensors' exclusionary conduct to be unlawful, and to enjoin and otherwise remedy such conduct, including ordering Defendant Licensors to offer a FRAND license to Continental and other suppliers in the automotive supply chain, and setting the terms and conditions of a FRAND license, including a FRAND rate, for their asserted SEPs.

SIXTH CAUSE OF ACTION

Violation of Section 2 of the Sherman Act, 15 U.S.C. § 2 – Conspiracy to Monopolize

- 188. Continental re-alleges and incorporates by reference the allegations set forth in the foregoing paragraphs, as though fully set forth herein.
- 189. Continental is informed and believes, and on that basis alleges, that the relevant markets, as defined in Section VI above, are valid antitrust markets.
- 190. Continental is informed and believes, and on that basis alleges, that Defendant Licensors and their unnamed co-conspirators each willfully acquired and then maintained monopoly power in the relevant technology markets as a result of the standardization of their proprietary technologies, as described in Section VI above.
- 191. Although each Defendant Licensor and unnamed co-conspirator obtained monopoly power in its own standardized technology, each licensor's ability to license those SEPs nonetheless was subject to competitive discipline by licensing terms offered by other large SEP holders, as described in Section VI,

above. Upon information and belief, to avoid competition in setting the basic terms and conditions of a FRAND license, including the levels of the supply chain to be licensed, Defendants and their co-conspirators colluded to set up Avanci as a front through which they would jointly license their alleged SEPs on a single set of common non-FRAND terms only to car OEMs, thus establishing a floor for cellular SEP licensing of the automotive industry.

- 192. Continental is informed and believes, and on that basis alleges, that Defendants entered into a multilateral agreement between and among themselves and with their co-conspirators, or otherwise reached mutual understandings to use Avanci as a tool to exert additional pressure and bargaining power in licensing negotiations with users of the standards, particularly due to unavailability of individual FRAND licenses as agreed by and among themselves. Accordingly, the multilateral agreement between/among Defendants and their co-conspirators, to pool or otherwise combine and collectively license their patents through Avanci on non-FRAND terms was a mechanism to maintain and further enhance their ability to exploit the monopoly power that each co-conspirator SEP holder initially obtained from standardization of its proprietary technologies as a result of its FRAND representations, as alleged herein.
- 193. Continental is informed and believes, and on that basis alleges, that Defendants and their co-conspirators thus agreed for Avanci to carry out their collusive scheme by, among other things, offering a joint license at supra-FRAND royalties only to car OEMs, which are overvalued in comparison to the technical contributions of the patents being licensed.
- 194. Continental is informed and believes, and on that basis alleges, that Defendants' and their co-conspirators' exclusionary conduct harms competition in multiple levels of the automotive supply chain, including by threatening the suppliers' ability to continue to invest in innovative products to the detriment of consumers.

- 195. As a result of the conspiratorial and anticompetitive breaches of FRAND obligations and other anticompetitive agreements alleged herein, including in Section VI above, Continental has suffered and will continue to suffer injury to its business and property and will suffer substantial and irreparable harm if such conduct remains unredressed.
- 196. Continental is informed and believes, and on that basis alleges, that there is no procompetitive justification for the exclusionary conduct as alleged herein, including Defendants' refusal to offer Continental a FRAND license in breach of their affirmative and voluntary commitments to do so. Even if any procompetitive justification is asserted to exist, it is far outweighed by the anticompetitive effects asserted herein, especially in light of Defendants' and their co-conspirators' voluntary FRAND licensing commitments.
- 197. Continental thus seeks an order declaring the exclusionary and collusive agreements alleged herein to be unlawful, and to enjoin and otherwise remedy such illegal conduct, including ordering Defendants to offer a FRAND license to Continental and other suppliers in the automotive supply chain, and setting the terms of a FRAND license, including a FRAND rate, for their asserted SEPs.

SEVENTH CAUSE OF ACTION

Violation of California Unfair Competition Law – Cal. Bus. & Prof. Code Section 17200 et seq.

- 198. Continental re-alleges and incorporates by reference the allegations set forth in the foregoing paragraphs, as though fully set forth herein.
- 199. By the acts alleged herein, Defendants have engaged in unfair competition within the meaning of the California Business and Professions Code Section 17200 et seq. (the "UCL"), in that the conduct alleged herein, and each of them, constitute unlawful, unfair or fraudulent business acts or practices as

proscribed by the UCL.

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200. The anticompetitive business acts or practices that are alleged herein and above violate, *inter alia*, Sections 1 and 2 of the Sherman Act, Section 5 of the Federal Trade Commission Act and common law, and as such also constitute unlawful conduct within the meaning of the UCL. Such unlawful conduct includes, among others, (a) unilateral as well as concerted refusals to license Continental and other component suppliers within the automotive supply chain in an effort to extract excessive, non-FRAND royalties from car OEMs through Avanci at supracompetitive levels in violation of Defendants' express and voluntary FRAND commitments; (b) agreements to fix and otherwise set a floor for cellular SEP license terms—including supra-FRAND royalties and other discriminatory terms through Avanci in an effort to eliminate competition in establishing basic FRAND terms and conditions for SEP licensing; (c) Defendant Licensors' breaches of their express and voluntary FRAND contracts with SSO's as alleged herein; (d) Avanci's knowing aiding and abetting of Defendant Licensors' breaches of their FRAND contracts with SSOs; and (e) Defendant Licensors' illegal agreements and understandings with Avanci and other co-conspirators to combine their asserted SEPs for non-FRAND joint licensing by Avanci in an effort to further enhance and maintain the monopoly power each Defendant Licensor obtained from standardization of its proprietary technology.

201. Defendants' business acts or practices complained of herein are unfair within the meaning of the UCL. Such acts (and each of them as alleged herein) at a minimum threaten an incipient violation of an antitrust law, or violate the policy or spirit of one of those laws such that their effects are comparable to or the same as a violation of the law, or otherwise significantly threaten or harm competition.

Defendants' complained-of conduct is immoral, unethical, oppressive, unscrupulous or substantially injurious to TCU, NAD and baseband processors manufacturers, including Continental, and to consumers who ultimately bear higher costs resulting

from Defendants' anticompetitive and unfair business acts or practices alleged herein.

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202. Defendant Licensors' alleged acts or practices are also deceptive within the meaning of the UCL. When Defendant Licensors made their express FRAND commitments to SSOs, they omitted disclosing that they may, in their own discretion, withhold licenses from certain implementers, including TCU, NAD and baseband processor suppliers whose products utilize the standards in order to extract supra-FRAND royalties from more downstream implementers, like car OEMs. Standards participants and implementers alike had no reason to believe that Defendant Licensors would withhold licenses to their FRAND-encumbered SEPs so as to disadvantage certain implementers within a given supply chain when they agreed to adopt Defendant Licensors' proprietary technologies into standards. Such omissions were material to the standardization of their technologies by the relevant SSOs because the omissions, at a minimum, displaced the process within the SSOs that required those SSOs to revise or abandon portions of their standards that relied on proprietary technology known to be unavailable for FRAND licensing. Accordingly, each SSO adopted Defendant Licensors' asserted SEPs into standards in reliance upon their express and unqualified FRAND commitments, reasonably believing that such essential technology would be available for FRAND licensing to any implementer who seeks to utilize the standards. Avanci, as Defendant Licensors' agent for the licensing of their SEPs, knew of these omissions and later aided and abetted the breaches of FRAND commitments alleged herein. Indeed, Avanci's Chief Executive Officer, Kasim Alfalahi, was previously a licensing executive at Ericsson, one of Avanci's initial members.

1 alleged above.

204. Pursuant to Section 17203 of the California Business and Professions Code, Continental seeks (1) an injunction prohibiting Defendants from engaging in the above-alleged unlawful, unfair, and fraudulent business acts or practices; (2) an order setting the terms of a FRAND license for Defendants' asserted SEPs, including a FRAND rate; and (3) all other equitable remedies as the Court may deem appropriate.

PRAYER

WHEREFORE, Continental prays for judgment as follows:

- A. Adjudge and decree that Defendants are liable for breach of their contractual commitments to the relevant SSOs, including ETSI, TIA, and/or ATIS, by refusing to license their alleged 2G, 3G, and/or 4G SEPs to Continental;
- B. Adjudge and decree that Defendants are liable for breach of their contractual commitments to the relevant SSOs, including ETSI, TIA, and/or ATIS, by failing to offer FRAND terms and conditions for a license to their alleged 2G, 3G, and/or 4G SEPs to Continental;
 - C. Adjudge and decree that Defendants are liable for promissory estoppel;
- D. Adjudge and decree that Continental and other suppliers in the automotive supply chain are entitled to a license from Defendants for any and all patents Defendants deem "essential" and/or which Defendant Licensors have declared as "essential" to the 2G, 3G, and 4G standards under FRAND terms and conditions pursuant to Defendants' obligations to the relevant SSOs, including ETSI, TIA, and/or ATIS;
- E. Adjudge, decree, and set the FRAND terms and conditions that Continental is entitled to under Defendants' obligations to the relevant SSOs, including ETSI, TIA, and/or ATIS, for a license to Defendants' 2G, 3G, and 4G SEPs;
 - F. Adjudge and decree that a license on FRAND terms and conditions in

accordance with Defendants' obligations to the relevant SSOs, including ETSI, TIA, and/or ATIS, must be consistent with apportionment principles under federal patent law, *i.e.*, the smallest salable patent practicing unit rule;

- G. Adjudge and decree that Defendants have not offered a license to their alleged 2G, 3G, and 4G SEPs to Continental on FRAND terms and conditions;
- H. Enjoin defendants from demanding excessive royalties from Continental and its customers that are not consistent with Defendants' FRAND obligations to the relevant SSOs, including ETSI, TIA, and/or ATIS;
- I. Enjoin Defendants from enforcing their alleged 2G, 3G, and/or 4G SEPs against Continental and its customers via patent infringement lawsuits or other proceedings in other jurisdictions, while Continental remains a willing licensee and seeks an adjudication of the FRAND terms and conditions from this Court;
- J. Adjudge and decree that Defendants have violated Section 1 of the Sherman Act and enjoin Defendants from further violations of that statute;
- K. Adjudge and decree that Defendants have violated Section 2 of the Sherman Act and enjoin Defendants from further violations of that statute;
- L. Adjudge and decree that Defendants have violated the California Business and Professions Code Section 17200 et seq., and enjoin Defendants from further violations of the statute;
- M. Enter judgment awarding Continental its expenses, costs, and attorneys' fees under applicable laws;
- N. Award Continental pre-judgment and post-judgment interest to the full extent allowed under the law, as well as its costs; and
 - O. For such other and further relief as the Court deems just and proper.

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| 1 | Dated: July 23, 2019 | | | | |
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FIRST AMENDED COMPLAINT