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#### I.

#### **BACKGROUND**

Polara filed this patent-infringement suit against Campbell on January 2, 2013. Dkt. 1. Polara, a manufacturer of accessible pedestrian signal systems and pedestrian push buttons, alleged that Campbell was infringing on Polara's United States Patent No. 7,145,476 (the "'476 Patent"). Id. at 2. The '476 Patent, issued in December 2006, was for a "2-wire push button station control system for a traffic light controlled intersection." Id. at 3. Polara alleged that Campbell, a manufacturer of traffic-industry products, had developed an "Advisor Advanced Accessible Pedestrian Station," or "AAPS," that infringed the '476 Patent. Id.

Polara moved for summary judgment of infringement of Claims 1 through 4 of the '476 Patent. Dkt. 87. Claim 1 recites:

A control system by which vibro-tactile messages are provided to alert pedestrians when to cross a traffic light controlled intersection, said control system comprising:

at least one push button station located at the traffic light controlled intersection to be crossed by pedestrians, said push button station including a push button head that is depressed by the pedestrians and message generating means adapted to cause said push button head to vibrate to provide a tactile indication to a visually impaired pedestrian when to cross the intersection; and

a control unit that is responsive to the depression of the push button head of said push button station to transmit to the push button station both power and digital data signals over a single pair of wires by which to power and control the operation of said message generating means. 1 Tr
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Tr. Exh. 9 at 11.¹ Claim 2 recites the control system described in Claim 1 and further provides that "at least one push button station also includes a microcontroller to receive the power and digital data signals from said control unit, said microcontroller providing output signals to control the operation of said message generating means." Id. Claim 3, in turn, is dependent on Claim 2, and further requires that "said message generating means of said at least one push button station includes a vibration driver connected to said microcontroller to cause said push button head to vibrate and thereby provide said tactile indication to the visually impaired pedestrian that it is safe to cross the intersection." Id. Claim 4 recites the control system described in Claim 2, "wherein said message generating means of said at least one push button station includes a sound chip in which prerecorded messages are stored and from which an audible indication is provided to the visually impaired pedestrian whether" it is safe to cross the intersection. Id.

The judge originally assigned to this case—United States District Judge Cormac J. Carney—found that Campbell's AAPS infringed Claims 1 through 4 of the '476 Patent, and that Polara was thus entitled to partial summary judgment on the issue of infringement as to those claims. Dkt. 155. With trial remaining on damages, Polara's willfulness claim, and Campbell's invalidity and unenforceability defenses, the parties consented to this Court's jurisdiction. Dkt. 383; see 28 U.S.C. § 636(c).

A jury trial began on June 21, 2016. <u>See</u> Dkt. 413. After seven days of jury selection, testimony, and argument, the jury returned a special verdict on June 30, 2016. <u>See</u> Dkt. 440. The jury found that Campbell had not shown that Claims 1 through 4 of the '476 Patent were invalid. <u>Id.</u> at 2-3. The jury also

<sup>&</sup>lt;sup>1</sup> "Tr. Exh." refers to the parties' trial exhibits, which are identified in the Amended List of Exhibits and Witnesses. Dkt. 474.

found that Polara had not proved that it was entitled to lost profits, but it awarded damages of \$412,926 based on a 15 percent royalty rate and total sales of \$2,752,842. <u>Id.</u> at 4. The jury found that Campbell had willfully infringed the '476 Patent. <u>Id.</u> Finally, the jury made an advisory finding that Polara had not engaged in inequitable conduct before the Patent and Trademark Office ("PTO") that rendered the '476 Patent unenforceable. <u>Id.</u> at 5.

These motions followed.

II.

#### **DISCUSSION**

# A. Campbell's Motion for Judgment as a Matter of Law

Campbell moves for judgment as a matter of law, arguing that: (1) the '476 Patent is invalid because it was in public use for more than one year before a patent application was filed; (2) Claims 1 through 4 were obvious in light of the prior art; (3) the '476 Patent is invalid because it was described in publications more than one year before Polara filed the patent application; and (4) Campbell did not act willfully in infringing the '476 Patent. Dkt. 450 at 1-56, 66-82.

#### 1. Standard of Review

Federal Rule of Civil Procedure 50 permits a court to grant judgment as a matter of law "when the evidence permits only one reasonable conclusion and the conclusion is contrary to that reached by the jury." Ostad v. Or. Health Scis. Univ., 327 F.3d 876, 881 (9th Cir. 2003). If substantial evidence supports the jury's verdict, the court should deny a motion for judgment as a matter of law. Wallace v. City of San Diego, 479 F.3d 616, 624 (9th Cir. 2007) (as amended); Callicrate v. Wadsworth Mfg., Inc., 427 F.3d 1361, 1366 (Fed. Cir. 2005). "Substantial evidence is such relevant evidence as reasonable minds might accept as adequate to support a conclusion even if it is possible to draw

two inconsistent conclusions from the evidence." Maynard v. City of San Jose, 37 F.3d 1396, 1404 (9th Cir. 1994) (as amended). A court "must view the evidence in the light most favorable to the nonmoving party . . . and draw all reasonable inferences in that party's favor." E.E.O.C. v. Go Daddy Software, Inc., 581 F.3d 951, 961 (9th Cir. 2009) (citation omitted, alteration in original). Neither a "mere scintilla" of evidence nor pure speculation is sufficient to sustain a verdict for the prevailing party. See Lakeside-Scott v. Multnomah Cty., 556 F.3d 797, 802-03 (9th Cir. 2009). And because a post-verdict Rule 50(b) motion is "a renewed motion," it is "limited to the grounds asserted in the pre-deliberation Rule 50(a) motion." Go Daddy, 581 F.3d at 961.

#### 2. Waiver

As an initial matter, Polara argues that "[b]ecause Campbell never raised any arguments regarding patent invalidity in its pre-verdict Rule 50(a) motion, Campbell has waived those arguments." Dkt. 461 at 24. The Court disagrees.

## a. Background

After Campbell rested its case, Polara moved for judgment on Campbell's claim that the '476 Patent was invalid because of Polara's inequitable conduct. 6 Tr. 123-26.<sup>2</sup> Polara also moved for judgment on Campbell's "prior sale or offer for sale" (or "on-sale" bar), "experimental use," "prior use," and anticipation and obviousness defenses. <u>Id.</u> at 127. Before hearing argument from the parties on Polara's motions, the Court stated:

I think it's perfectly appropriate for me to, even just on the basis of hearing those potential arguments, to tell you that I am not going to -- you've made it at the appropriate time, so you've reserved the ability to argue it after a jury verdict.

<sup>&</sup>lt;sup>2</sup> Citations to "Tr." refer to the trial transcript and are preceded by the volume number and followed by the page number.

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<u>Id.</u> The Court also indicated that it would defer ruling on the experimental use, obviousness, and anticipation issues. <u>Id.</u> The Court did hear argument from Campbell regarding the on-sale bar issue. <u>See id.</u> at 130-33.

Campbell subsequently indicated that it wanted to "bring a motion pursuant to Rule 50 concerning the claim of willfulness." <u>Id.</u> at 135. After hearing argument from Polara, <u>id.</u> at 137-39, the Court "den[ied] the Rule 50 motion with respect to the willfulness argument," <u>id.</u> at 139. The Court also ruled:

I find that there's sufficient evidence of contested issues of fact on experimental use and on the obviousness and anticipation doctrines as related to the [prior art] devices to put those issue[s] to the jury. I deny Rule 50 motions as to those.

I am also going to deny the Rule 50 motion as to the inequitable conduct defense. I find that there are issues of fact both with respect to the defendant's conduct as well as the intent to deceive or mislead sufficient to take the issue to the jury. . . .

<u>Id.</u> at 139-40. The Court subsequently granted Polara's Rule 50 motion as to the on-sale bar because "no reasonable jury could conclude that the evidence has shown that the claimed invention was subject to a commercial offer for sale on or before that date." 7 Tr. 6. The Court also noted that Campbell was left with two statutory bar arguments: that over a year before the patent application was filed, the claimed invention was (1) described in a publication and (2) used openly and non-experimentally. <u>Id.</u>

#### b. Relevant Law

The same claims or issues on which judgment as a matter of law is sought under Rule 50(b) must have been raised in a pre-verdict motion for judgment under Rule 50(a). See Fed. R. Civ. P. 50(b), Adv. Comm. Notes (1991 Amend.); see also Go Daddy, 581 F.3d at 961 ("Because it is a renewed

motion, a proper post-verdict Rule 50(b) motion is limited to the grounds asserted in the pre-deliberation Rule 50(a) motion."). The Ninth Circuit has explained that this rule limitation serves two purposes. First, the rule "preserves the sufficiency of the evidence as a question of law, allowing the district court to review its initial denial of judgment as a matter of law instead of forcing it to 'engage in an impermissible reexamination of facts found by the jury." Freund v. Nycomed Amersham, 347 F.3d 752, 761 (9th Cir. 2003) (quoting Lifshitz v. Walter Drake & Sons, Inc., 806 F.2d 1426, 1428-29 (9th Cir. 1986)). Second, it ensures that the court and the parties are put on notice of "any alleged deficiencies in the evidence at a time when the opposing party still has an opportunity to correct them." Id.

## c. Analysis

"Although courts construe strictly the requirement that a motion be made after a case-in-chief, they are generally more liberal about what suffices as a motion for a directed verdict after the close of all the evidence." Reeves v. Teuscher, 881 F.2d 1495, 1498 (9th Cir. 1989). Thus, Rule 50(b) "may be satisfied by an ambiguous or inartfully made motion for a directed verdict or by an objection to an instruction for insufficient evidence to submit an issue to the jury." Id. In Reeves, for example, the Ninth Circuit found that the defendants properly preserved a Rule 50(b) motion where the trial court interrupted their argument and told them to renew their motion after the jury's verdict. Id.

Similarly here, the Court elected to "withhold argument" until after Polara had stated the bases for its Rule 50(a) motion, and deferred argument as to the experimental use and the obviousness and anticipation issues until after the jury's verdict. 6 Tr. 127. The Court did hear argument from both parties as to the on-sale bar, see id. at 128, 130-33, but informed Campbell that it did not "have to be heard now" regarding the inequitable-conduct issue and could

brief that issue post-verdict, see id. at 129-30. As such, the Court and the parties understood the bases for any Rule 50(a) motion regarding patent invalidity, and the Court did not hear oral argument from the parties on the issues that it found were properly submitted to the jury. The Court therefore finds that Campbell is not barred from challenging the jury's invalidity findings in a Rule 50(b) motion.

#### 3. Public Use

The jury found that Campbell failed to prove that the '476 Patent is invalid because it was in public use for more than one year before Polara filed the patent application. Campbell moves for judgment as a matter of law on this invalidity theory. Dkt. 450 at 30-46. Because substantial evidence shows that Polara's early use was experimental use necessary to ensure that its invention would work for its intended purpose, Campbell's motion is denied.

#### a. Background

Polara entered the accessible pedestrian signal ("APS") system market with an eight-wire system called the Navigator. 2 Tr. 22-27.<sup>3</sup> Because many intersections did not have the wiring necessary to support an eight-wire device, installation was difficult and labor-intensive. <u>Id.</u> at 26-27. Leslie Beckwith, a design engineer for Polara, testified that he and another Polara engineer, Randy Cruz, began discussing a two-wire version of the Navigator in late 2000 or early 2001. 3 Tr. 80-81. John McGaffey, Polara's president and owner, testified that it took Polara "about three years" to develop a two-wire APS system. 2 Tr. 32. They "did considerable testing in the lab," 3 Tr. 80, and in Polara's "parking lot in the back," 2 Tr. 35-36, to make sure the first prototype worked. Because the first device was "a little bit cobbled together," Polara then

<sup>&</sup>lt;sup>3</sup> Confusingly, the parties (and the marketplace) refers to these systems generally as "APS" systems while Campbell's infringing product is branded the "AAPS."

designed something "with a little more permanent construction" that could be installed on the street. 3 Tr. 80. McGaffey also testified that the device needed to be "tested on live intersections—and not just one intersection, it need[ed] to be tested on multiple because every intersection . . . has different equipment, different challenges and problems that it has to overcome." 2 Tr. 36.

In January 2002, McGaffey instructed Polara's office manager to send a letter to Mark Miller, the traffic engineer for the City of Fullerton, requesting permission to install a prototype system at the intersection of Gilbert Street and Commonwealth Avenue. <u>Id.</u> at 37-38; 3 Tr. 60-63; Tr. Exh. 193. The letter explained that the identified intersection was close to Polara's plant, which would allow for daily monitoring "during the test phase." Tr. Exh. 193. Polara also represented that it "would take full responsibility for installing, maintaining and deinstalling the equipment." <u>Id.</u>

After the prototype system was installed at the Gilbert and Commonwealth intersection, Polara noticed that "it wasn't functioning correctly," 2 Tr. 41, because the communication between the control unit and push-button station was "not reliable," 3 Tr. 81. Polara used an oscilloscope to measure the data signal and learned that "a lot of electrical noise" was affecting the signal; Polara uninstalled the system that same day. <u>Id.</u> at 82; <u>see</u> 2 Tr. 41-42. Beckwith and Cruz revised the device's transmitting and receiving circuitry to make it "much more resistant to external sources of interference." 3 Tr. 83-84. The process took "a few months" because they conducted "a variety of experiments in the lab" before they were satisfied that the device could "be used on the street." <u>Id.</u> at 84. Polara then installed the revised system at the same intersection. <u>Id.</u> at 84-85; 2 Tr. 42. Polara monitored the device on a daily basis—initially twice a day—to see if "it was performing as it was supposed to." 2 Tr. 42-43; <u>see also</u> 3 Tr. 85-86. At "some point," Polara became satisfied that the device was performing as it should. 2 Tr. 43.

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Polara next installed the same product at the intersection of Nutwood Avenue and State College Boulevard in Fullerton. <u>Id.</u> at 44; 3 Tr. 86-87. Polara selected this intersection because it was larger than the one at Gilbert and Commonwealth and "had a much higher pedestrian traffic flow, which meant the buttons would get pushed on a much higher volume." 2 Tr. 44; <u>see also</u> 3 Tr. 87. Right after installation, Polara observed a shortcoming in the way the digital-data signal was being communicated. 3 Tr. 87-88. Polara modified the circuitry inside the prototype to adjust the sensitivity of the receiving circuit. <u>Id.</u> at 88-89. Polara was able to make this modification without uninstalling the system, <u>id.</u> at 89, and McGaffey characterized it as a "minor adjustment," 2 Tr. 45. Polara's employees visited the intersection several times to test the system's performance, sometimes using an oscilloscope or other device. 3 Tr. 89-90. The prototype remained at Nutwood and State College from fall of 2002 to fall of 2003, and Polara "continued to monitor it and consider it a test intersection." 5 Tr. 181-82.

Polara also "felt that it was imperative" to test the device in a "wet environment" because "water can cause all kinds of problems with electronic equipment." 2 Tr. 46. The City of Burnaby, Canada, which "got a lot of rain" and snow, was "willing to test a system." <u>Id.</u> at 46-47. McGaffey testified that the weather was "a very, very significant factor" in choosing to test the device in Canada. <u>Id.</u> at 47. Likewise, Beckwith testified that testing in a wet and cold environment "was very important." 3 Tr. 91. The City of Burnaby arranged for Cobra Electric to install and monitor the test system. 2 Tr. 47. Because Polara did not have control over all of the equipment, it had both entities sign a confidentiality agreement. <u>Id.</u> at 47-49; Tr. Exh. 205.

After Polara became satisfied that the two-wire APS system was working "even in the harsher conditions of Canada," it decided to announce the release of the product at an industry conference in August 2003. 2 Tr. 49. Polara

began selling its two-wire Navigator in late September 2003. <u>Id.</u> at 49-51; <u>see</u> Tr. Exh. 203.

#### b. Relevant Law

Under 35 U.S.C. § 102(b), a patent is invalid if "the invention was . . . in public use or on sale in this country [] more than one year prior to the date of the application for patent in the United States." 35 U.S.C. § 102(b).<sup>4</sup> The public use bar applies if the invention is "ready for patenting" and in "public use." Invitrogen Corp. v. Biocrest Mfg., L.P., 424 F.3d 1374, 1379 (Fed. Cir. 2005). Evidence of experimental use, even if public, may mean that the bar does not apply. EZ Dock v. Schafer Sys., Inc., 276 F.3d 1347, 1351 (Fed. Cir. 2002); see also Pfaff v. Wells Electronics, Inc., 525 U.S. 55, 64 (1998) ("[A]n inventor who seeks to perfect his discovery may conduct extensive testing without losing his right to obtain a patent for his invention—even if such testing occurs in the public eye. The law has long recognized the distinction between inventions put to experimental use and products sold commercially.").

A use is experimental if it is designed to "(1) test claimed features of the invention or (2) to determine whether an invention will work well for its intended purpose." <u>Clock Spring, L.P. v. Wrapmaster, Inc.</u>, 560 F.3d 1317, 1327 (Fed. Cir. 2009). The Federal Circuit has outlined certain objective factors that may be instructive when determining experimental use, including: (1) the need for public testing; (2) the inventor's amount of control over the

<sup>&</sup>lt;sup>4</sup> Section 102(b) was amended by the Leahy-Smith America Invents Act ("AIA"), Pub. L. No. 112-29, § 3(b)(1), 125 Stat. 284, 285-86 (2011). Because the application for the '476 Patent was filed on August 5, 2004, the pre-AIA version of the statute applies in this case. See Merck & Cie v. Watson Labs., Inc., 822 F.3d 1347, 1348 n.1 (Fed. Cir. 2016) (citing In re Giannelli, 739 F.3d 1375, 1376 n.1 (Fed. Cir. 2014), cert. denied, No. 16-493, 2017 WL 69719 (U.S. Jan. 9, 2017)).

experiment; (3) the nature of the invention; (4) the length of the test period; (5) whether payment was made; (6) whether there was a secrecy obligation; (7) whether records of the experiment were kept; (8) who conducted the experiment; (9) the degree of commercial exploitation during testing; (10) whether the invention reasonably required evaluation under actual conditions of use; (11) whether testing was systematically performed; (12) whether the inventor continually monitored the invention during testing; and (13) the nature of contacts made with potential customers. <u>Id.</u> at 1327.

#### c. Analysis

Polara filed its initial application on August 5, 2004. 3 Tr. 12. The Court therefore looks at public use of the '476 Patent before August 5, 2003. According to Campbell, the two-wire device embodying the '476 Patent was in public use as of early 2002, when it was installed at the intersection of Gilbert and Commonwealth. Campbell reasons that by that time, the invention had been reduced to practice because a prototype had operated successfully in Polara's parking lot. See Dkt. 450 at 32-34; Dkt. 481 at 5-9.

Campbell does not deserve judgment as a matter of law on the public-use bar. At Campbell's request, see 6 Tr. 7, the jury was instructed on the 13 factors identified by the Federal Circuit in Clock Spring, see 7 Tr. 70. Polara produced substantial evidence to support a jury finding in its favor on these factors.

The jury heard testimony on the nature of the invention and the need for public testing and evaluation under actual conditions of use. Even though the prototype worked in Polara's parking lot, Polara needed to test the device on live intersections because it was "a life safety device," and "the last thing" Polara wanted was "to put a device on an intersection that's not been thoroughly vetted and potentially have a blind person get the wrong message and walk out in front of the cars and get hit." 2 Tr. 36. The jury also heard that

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an APS system must be capable of enduring different weather conditions, volumes of pedestrian traffic, and electrical-noise interference. See 2 Tr. 43-45; 3 Tr. 91. Polara introduced testimony that most intersections have underground wiring. See 2 Tr. 28-30, 207. The '476 Patent specification expressly contemplates use at actual "traffic light controlled intersection[s]" and the use of "existing pairs of underground wires over which power and data signals are transmitted." Tr. Exh. 9 at 1, 7. The summary states that the "pairs of wires . . . are, in the preferred embodiment, the existing underground wires that were previously installed for the purpose of connecting the . . . push buttons to a traffic light control cabinet." Id. at 7.

Polara presented evidence on other <u>Clock Spring</u> factors. Fullerton did not pay for the installations at its intersections; indeed, Polara removed the device at the end of the test period. <u>See</u> 2 Tr. 39; 5 Tr. 181-82; <u>see also</u> Tr. Exh. 193. Polara retained control over the device; Fullerton merely opened the traffic cabinet so that Polara could install it. 2 Tr. 49. Polara engaged in little if any commercial exploitation of its new two-wire device during the testing period, instead waiting until the completion of testing in Canada to unveil the device at an August 2003 trade show. 2 Tr. 49, 95.<sup>5</sup>

Campbell points out that Polara produced no records reflecting its testing, did not have confidentiality agreements with Fullerton employees, and made no modifications to the device after the early stages of testing at the first Fullerton intersection. While this evidence may have been inconsistent with experimental use, it was the jury's job to weigh the factors and make a determination. Polara presented substantial evidence of experimental use, and the Court cannot second-guess the jury's determination under Rule 50.

<sup>&</sup>lt;sup>5</sup> Because the public-use bar is expressly limited by statute to use in this country, the Canada testing itself was not relevant to the jury's determination.

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Campbell also contends that Polara's testing was for commercial development, not experimental use, pointing to Polara's testing of how the device operated through underground wires, under harsh weather conditions, in large or busy intersections, within range of other electrical devices, and in areas where other conduits are run. Dkt. 481 at 13. The Court disagrees.

Polara's testing the durability of the digital-data signal related to the invention's claimed features. "Experimentation evidence includes 'tests needed to convince [the inventor] that the invention is capable of performing its intended purpose in its intended environment." EZ Dock, 276 F.3d at 1352 (alteration in original) (quoting Gould Inc. v. United States, 579 F.2d 571, 583 (Ct. Cl. 1978)); see also Manville Sales Corp. v. Paramount Sys., Inc., 917 F.2d 544, 551 (Fed. Cir. 1990) ("When durability in an outdoor environment is inherent to the purpose of an invention, then further testing to determine the invention's ability to serve that purpose will not subject the invention to a [public use] bar."). In EZ Dock, for example, two inventors designed a floating dock made of polyethylene and installed one for a customer in a location that experienced "heavier boat traffic and more turbulent water flow." 276 F.3d at 1349. One of the inventors testified that the purpose of the sale was to see how the dock would hold up under more turbulent water conditions. Id. at 1353. The Federal Circuit held that a reasonable jury could find that the sale of the dock was for experimental rather than commercial development because "floating docks, by their nature, must endure all kinds of water conditions, including choppy water created by weather and boating." Id. Here, the evidence supported the jury's finding that an APS system must work in a variety of conditions, such as inclement weather, various pedestrian volumes, and environments with different levels of electrical noise.

In sum, substantial evidence supports the jury's rejection of Campbell's public-use defense because Polara showed that installing the device in

Fullerton was an experimental use. Campbell's motion for judgment as a matter of law on public use is therefore denied.

#### 4. Obviousness

The jury found that Campbell failed to prove that Claims 1 through 4 were either anticipated or obvious. Campbell now renews its motion for judgment as a matter of law that Claims 1 through 4 were obvious in light of the prior art, including United States Patent No. 4,851,836 ("Wilkinson"). Dkt. 450 at 54-60. Because the jury relied on substantial evidence to reach its conclusion on the factual issues underlying obviousness, and because the jury's ultimate conclusion was correct as a matter of law, the Court denies Campbell's motion.

#### a. Relevant Law

A patent is obvious and therefore invalid "if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains." 35 U.S.C. § 103.

Obviousness is a question of law based on underlying factual findings. Kinetic Concepts, Inc. v. Smith & Nephew, Inc., 688 F.3d 1342, 1356-57 (Fed. Cir. 2012). The Court must presume that the jury resolved the underlying factual disputes in Polara's favor and leave those presumed findings undisturbed if they are supported by substantial evidence. Id. The Court then examines the jury's ultimate legal conclusion de novo to see whether it is correct in light of the jury's presumed factual findings. Id. at 1357.

The underlying factual findings are: (1) the scope and content of the prior art; (2) the differences between the claims and the prior art; (3) the level of ordinary skill in the art; and (4) any relevant secondary considerations, such as commercial success, long felt but unsolved needs, and failure of others. <u>KSR</u>

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convincing evidence that the patent is obvious. Id.

Neither party requested that the jury answer any special interrogatories. The obviousness portion of the verdict form asked whether Campbell had proven, by clear and convincing evidence, that any of Claims 1 through 4 were invalid due to obviousness. See Dkt. 440 at 2. As to each claim, the jury answered no. Id.

Int'l Co. v. Teleflex Inc., 550 U.S. 398, 406 (2007). The Court must consider

all four of these factors before reaching a conclusion. Kinetic, 688 F.3d at

1360. At all times, the burden is on Campbell to establish by clear and

At trial, the dispositive issue regarding invalidity was whether an alternating power signal like the signal disclosed in Wilkinson was a digital-data signal. Like the '476 Patent, Wilkinson disclosed a two-wire device. Tr. Exh. 106 at 4 ("[O]nly two wires are needed to power and control the system."). Wilkinson used an alternating power signal in which the power-supply unit provided a half-wave voltage signal during the DON'T WALK mode and a full-wave voltage signal during the WALK mode. Id. Testimony established that two other pedestrian crosswalk devices, the Campbell Enlightened and Tassimco devices, operated similarly. 6 Tr. 36-41. Campbell's expert Dr. Christopher Jones testified that the full-wave/half-wave signal identified in Wilkinson and these other devices was a digital-data signal. Id.

Polara introduced evidence showing that Wilkinson, Campbell Enlightened, and Tassimco did not send digital data. Beckwith, the inventor of the '476 Patent, testified that these devices did not transmit digital data over power like the Polara Navigator two-wire device. 3 Tr. 93-96. McGaffey testified that these devices could turn a light on or off only by manipulating voltage. 3 Tr. 20-21. They could not accomplish the other functions enabled by the '476 Patent. <u>Id.</u> at 23-25; <u>see 2 Tr. 64-68</u>.

1 extension, the Campbell Enlightened and Tassimco devices. Dr. Harris 2 3 testified that the Campbell Enlightened sends only power and no data. 6 Tr. 81-82 ("The Enlightened doesn't send digital data signals by any normal 4 conventional understanding of digital data signals."). He noted that the 5 Enlightened device did not have a microcontroller to interpret a digital-data 6 signal. Id. at 82-83. He similarly observed that the Tassimco device and the 7 device described in Wilkinson transmitted only power. Id. at 87-88 ("Q. So in 8 all three—the Wilkinson, Enlightened, and Tassimco—all that's being sent is 9

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power? A. Yes.").

On cross-examination, Dr. Harris maintained that "send[ing] digital signals and power together over two wires was not obvious at that time." Id. at 118. He continued to distinguish Wilkinson, noting that Wilkinson did not disclose encoding a digital signal on top of the power supply. <u>Id.</u> ("Wilkinson" sent power or not. It didn't send digital data."). Dr. Harris also rejected Dr. Jones's contention that Wilkinson's manipulation of the power signal constituted data. Id. ("Nobody would call that digital data. That's power.").

Polara's expert Dr. Ian Harris distinguished Wilkinson and, by

#### C. Analysis

The jury's finding of nonobviousness indicates that it credited Polara's contention that the differences between the prior art asserted by Campbell and the '476 Patent were significant, and that the prior art did not disclose various elements of Claims 1 through 4. In light of the jury's validity finding, the Court must infer that the jury found Dr. Harris to be credible and persuasive when testifying that Wilkinson's power signal was not digital data. "[W]hether the prior art discloses the limitations of a particular claim is a question of fact to be determined by the jury." Kinetic, 688 F.3d at 1363. Polara presented ample evidence that Wilkinson and the other prior art did not disclose the digitaldata-over-power limitation of Claims 1 through 4. The Court must defer to the

jury's factual finding. Id. at 1356-57.

Campbell argues that a person of ordinary skill in the art would have combined Wilkinson's use of two wires with the use of digital data over power and thus that Claims 1 through 4 are an obvious combination of familiar elements. But Campbell offered no evidence at trial to support this argument. Nor did it define "a person of ordinary skill in the art." It did not ask its expert, Dr. Jones, whether such a person would have been motivated to combine Wilkinson with digital data over power to achieve the advancement offered by the Navigator two-wire device. "[P]ossibility and ease do not automatically translate to motivation." Golden Bridge Tech., Inc. v. Apple, Inc., No. 12-04882, 2015 WL 2064525, at \*9 (N.D. Cal. May 1, 2015). And it offered no evidence to rebut or contradict Dr. Harris's testimony that "[t]o encode the digital signal on top of the power was a complicated thing." 6 Tr. 118.

The Court understands that the idea of transmitting digital data over a power line was not new at the time of the '476 Patent. But "a patent composed of several elements is not proved obvious merely by demonstrating that each of its elements was, independently, known in the prior art." KSR, 550 U.S. at 418. "[I]nventions in most, if not all, instances rely upon building blocks long since uncovered, and claimed discoveries almost of necessity will be combinations of what, in some sense, is already known." Id. at 418-19. Put differently, "[a]n invention may be a combination of old elements disclosed in multiple prior art references." Plantronics, Inc. v. Aliph, Inc., 724 F.3d 1343, 1354 (Fed. Cir. 2015) (citing Cross Med. Prods, Inc. v. Medtronic Sofamor Danek, Inc., 424 F.3d 1293, 1321 (Fed. Cir. 2005)). Because the prior-art references did not disclose using digital data over power to transmit digital data from the control unit to the various message generating means, the '476 Patent did more than just combine known elements.

Finally, the jury was instructed to consider secondary considerations

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indicating nonobviousness, including whether the products covered by the invention were commercially successful due to the claimed invention's merits, whether a long-felt but unsolved need was resolved by the claimed invention, and whether others copied the claimed invention. 7 Tr. 74-75.

Substantial evidence supports the jury's finding in Polara's favor on these issues. Polara introduced evidence that its two-wire Navigator device resolved a long-felt but unsolved need for a two-wire device with the features of its eight-wire Navigator system such as a locate tone, audible messages, and a vibrating button. 2 Tr. 22-27. Many of Polara's potential customers resisted installing an eight-wire device because their existing intersections had only two wires, meaning that wiring had to be added at considerable expense. <u>Id.</u> at 26-29. Polara worked for almost three years to develop a device that would use the two existing wires and not require additional wiring. <u>Id.</u> at 28, 32.

Polara also introduced evidence showing that its two-wire Navigator device enjoyed substantial commercial success because the claimed invention, i.e., the use of digital data over power, enabled them to offer the functionality of an eight-wire system with only two wires. Polara's customers were "very happy to see" the two-wire device and "preferred it over the eight-wire." <u>Id.</u> at 52. Finally, Polara introduced evidence suggesting that Campbell introduced its infringing two-wire accessible pedestrian system to compete with Polara's Navigator two-wire device. <u>Id.</u> at 70-71; 3 Tr. 28-29, 118, 120-22.

This motion is not a vehicle for the Court to second-guess the jury's assessment of the evidence. The jury's finding of nonobviousness was supported by substantial evidence and the jury did not misapply the relevant law to the facts. Therefore, Campbell has not carried its burden of overcoming the presumption of validity, and its motion for judgment as a matter of law on obviousness must be denied.

#### 5. Prior Publication

The jury found that Campbell failed to prove that the '476 Patent is invalid because it was described in three publications more than one year before the patent application was filed. Campbell asks the Court to overturn the jury's verdict. Dkt. 450 at 54-57. The Court declines to do so because the evidence showed that the three publications did not disclose each and every element of the '476 Patent.

#### a. Background

At trial, Campbell introduced a March 2003 survey conducted by the United States Access Board. 5 Tr. 150-51; Tr. Exh. 331. The survey included Polara's original eight-wire Navigator and stated that the

[m]anufacturer is developing a model that operates with only two wires to the pushbutton and is programmable after installation by a traffic engineer using a handheld PDA type device. The new model will have the capability to alternate signal sounds, to countdown pedestrian clearance interval and present a signal at the far end of the crosswalk only. It is expected to be available by fall 2003.

Tr. Exh. 331 at CAMP024409-10; see 5 Tr. 150-52. An April 2003 report includes an identical entry. 2 Tr. 196-98; Tr. Exh. 311 at 1, 29-31. McGaffey testified that he had provided this entry's information and had been talking to authors of various industry publications about Polara's development of a two-wire APS system. See 2 Tr. 197-99.

Campbell also introduced a May 2003 report containing an entry on the eight-wire Navigator. <u>Id.</u> at 200-03; Tr. Exh. 312 at 1, 233-34. The "comments" section stated:

Manufacturer is developing a model that operates with only two wires from the intersection traffic control cabinet to the pushbutton

and is programmable after installation by an engineer using a handheld PDA type device. The new model will have the capability to synchronize sounds, alternate sounds, mute all sounds except the activated crosswalks, to verbally countdown pedestrian clearance interval or present a signal at the far end of the crosswalk only.

Tr. Exh. 312 at 234.

#### b. Relevant Law

A patent is invalidated as anticipated if "the invention was patented or described in a printed publication" more than one year before the patent application was filed. 35 U.S.C. § 102(b). To be anticipatory, the prior art reference must "explicitly or inherently" disclose each and every element of the claimed invention. In re Gleave, 560 F.3d 1331, 1334 (Fed. Cir. 2009). An anticipatory prior art reference must also enable "one of skill in the art to practice an embodiment of the claimed invention without undue experimentation." Am. Calcar, Inc. v. Am. Honda Motor Co., 651 F.3d 1318, 1341 (Fed. Cir. 2011); see also In re Donohue, 766 F.2d 531, 533 (Fed. Cir. 1985) ("Such possession is effected if one of ordinary skill in the art could have combined the publication's description of the invention with his own knowledge to make the claimed invention."). Finally, the party asserting invalidity must prove anticipation by clear and convincing evidence. Orion IP, LLC v. Hyundai Motor Am., 605 F.3d 967, 975 (Fed. Cir. 2010).

# c. Analysis

The March and April 2003 publications stated that Polara "is developing a model that operates with only two wires to the pushbutton and is programmable after installation by a traffic engineer using a handheld PDA type device." Tr. Exh. 331 at CAMP024409-10; Tr. Exh. 311 at 31. Similarly, the May 2003 publication stated that Polara "is developing a model that

operates with only two wires from the intersection traffic control cabinet to the pushbutton and is programmable after installation by an engineer using a handheld PDA type device." Tr. Exh. 312 at 234. These publications also contained pictures and diagrams of, and specifications and installation instructions for, Polara's original eight-wire Navigator. <u>Id.</u> at 233-34; Tr. Exh. 311 at 29-31; Tr. Exh. 331 at CAMP024408-10.

Campbell argues that the original Navigator and the invention claimed in the '476 Patent are virtually identical with the only "alleged innovation" being "communication between a control unit and pushbutton over a single pair of wires." See Dkt. 450 at 54. According to Campbell, the information on the Navigator coupled with the statements about the two-wire model in development discloses every element of Claims 1 through 4. See id. at 54-57. Campbell does not dispute that the three publications at issue do not disclose transmitting both power and digital-data signals over two wires. Instead, Campbell argues that this limitation is inherent in each publication, because "communication of digital signals over a single pair of wires was 'obvious' to one skilled in the art." Id. at 57.

This argument fails. As previously discussed, Polara presented substantial evidence that using digital data over power to transmit digital data from the control unit to the push buttons was nonobvious. As such, substantial evidence supports a finding that the March, April, and May 2003 publications did not disclose all the limitations of Claims 1 through 4. See RCA Corp. v. Applied Digital Data Sys., Inc., 730 F.2d 1440, 1446 (Fed. Cir. 1984) (holding that dependent claim "cannot be anticipated" where the independent claim "is not anticipated").

The jury's obviousness verdict also supports a finding that the publications were not enabling. Campbell offered little evidence that would demonstrate how each of the three industry publications enabled one of

ordinary skill in the art to practice the claimed invention. Campbell questioned McGaffey about whether "people with ordinary skill in the art" reading the May 2003 entry on the Navigator would understand that the two-wire device would have a push button station, control system, and control unit. See 3 Tr. 30, 33-34. However, other than the examples of "Mr. Beckwith or these traffic engineers, somebody who knew what these devices were about, somebody who would actually read those documents," id. at 33-34, Campbell did not seek to define what constitutes a person of ordinary skill in the art. Nor did Campbell discuss the March, April, and May 2003 publications with Dr. Jones or Dr. Harris.

"Typically, testimony concerning anticipation must be testimony from one skilled in the art and must identify each claim element, state the witnesses' interpretation of the claim element, and explain in detail how each claim element is disclosed in the prior art reference." Koito Mfg. Co. v. Turn-Key-Tech, LLC, 381 F.3d 1142, 1151-52 (Fed. Cir. 2004) (quoting Schumer v. Lab. Computer Sys., Inc., 308 F.3d 1304, 1315 (Fed. Cir. 2002)). Dr. Jones's general testimony regarding other prior art was far from substantial evidence of how the 2003 publications disclosed each claim. See Schumer, 308 F.3d at 1316 (finding that declaration setting forth purported programmer of software driver's "understanding of the operation and steps performed by the [] driver" and description of "what he considered to be known to one of ordinary skill prior to [patentee's] invention" was not clear and convincing evidence that driver disclosed "each and every limitation" of claim). The jury therefore had substantial evidence from which to conclude that Campbell had not met its burden of showing, by clear and convincing evidence, that the 2003 publications anticipated the '476 Patent. Accordingly, the motion for judgment as a matter of law as to prior publication is denied.

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#### 6. Willfulness

A week before trial began, the Supreme Court decided <u>Halo Electronics</u>, <u>Inc. v. Pulse Electronics</u>, <u>Inc.</u>, --- U.S. ---, 136 S. Ct. 1923 (2016), and changed the framework for awarding enhanced damages. Before <u>Halo</u>, a patentee seeking enhanced damages first needed to show by clear and convincing evidence that the infringer acted despite an objectively high likelihood that its actions infringed a valid patent. <u>Id.</u> at 1930 (citing <u>In re Seagate Technology</u>, <u>LLC</u>, 497 F.3d 1360, 1371 (2007) (en banc)). This objective prong tended not to be met where an accused infringer had a reasonable defense to infringement. <u>See Bard Peripheral Vascular</u>, <u>Inc. v. W.L. Gore & Associates</u>, <u>Inc.</u>, 682 F.3d 1003, 1005-06 (Fed. Cir. 2012). Second, the patentee had to show that the risk of infringement was either known or so obvious that it should have been known to the accused infringer. <u>Seagate</u>, 497 F.3d at 1371.

<u>Halo</u> criticized the objective recklessness requirement, reasoning that it "excludes from discretionary punishment many of the most culpable offenders," and faulted the requirement for "making dispositive the ability of the infringer to muster a reasonable (even though unsuccessful) defense at the infringement trial." 136 S. Ct. at 1932, 1932-33. <u>Halo</u> explained that an infringer's subjective bad faith alone could support an enhanced damages award. <u>Id.</u> at 1933. Moreover, <u>Halo</u> made clear that it is the infringer's state of mind at the time of the challenged conduct that matters, without regard to any later reasonable defense at trial. <u>Id.</u>

In this case, the jury was instructed that it must find by a preponderance of the evidence that Campbell's infringement of the '476 Patent was egregious measured against Campbell's knowledge at the time of the infringement. 7 Tr. 93. The jury was also told that "egregious conduct" could be described as "willful, wanton, malicious, bad faith, deliberate, consciously wrongful, flagrant, or characteristic of a pirate." <u>Id.</u> The jury was then instructed that it

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must consider the totality of the circumstances when determining whether Campbell acted egregiously, including whether Campbell intentionally copied Polara's technology covered by the '476 Patent, whether Campbell made a good-faith effort to avoid infringing the patent, whether Campbell reasonably believed it had a defense to infringement at the time it engaged in the infringing conduct, or whether Campbell relied on a legal opinion that was well supported and believable. Id. at 94-95.

Campbell's motion for judgment as a matter of law raises two primary arguments with respect to the jury's willfulness finding. First, Campbell argues that the jury's verdict was tainted by the Court's instructions and counsel's remarks about Judge Carney's infringement ruling. Dkt. 450 at 66-68. Second, Campbell argues that the evidence does not support the jury's finding of willfulness. <u>Id.</u> at 68-80. Neither argument is persuasive.

a. The Court's Instructions and Polara's Arguments
In its initial instructions, the Court told the jury about Judge Carney's infringement finding but warned the jurors that Judge Carney's infringement determination should have "absolutely no impact" on its deliberations:

In proceedings before trial it was determined that certain pedestrian crosswalk signal systems products made and distributed by Campbell and known as the Campbell AAPS products infringed the '476 patent. It was not determined, however, whether the '476 patent is valid or whether it is enforceable or whether any infringement by Campbell was willful or what damages, if any, Polara is entitled to.

All of these will be questions for you to decide, and the determination that the Campbell AAPS products infringed the '476 patent should have absolutely no impact on how you decide the questions that you are asked to decide; nor does my

determination on any question presented to me mean that I have any opinion on any of the questions that are for you to decide.

1 Tr. 10-11. The Court reiterated these instructions during final instructions:

In proceedings before trial it was determined that certain pedestrian crosswalk signal systems products made and distributed by Campbell infringed claims 1, 2, 3, and 4 of the '476 patent. It was not determined, however, whether the '476 patent is valid or whether it is enforceable or whether any infringement by Campbell was willful or what damages, if any, Polara is entitled to. All of these questions are questions for you to decide, and the prior determination must not have any impact on how you decide the questions you are asked to decide.

7 Tr. 52-53. Later in its final instructions, the Court clarified that Campbell's infringement could be considered as part of its discussion on damages and willfulness. <u>Id.</u> at 57-58.

This clarification was discussed shortly before the final instructions were given. Polara's counsel argued that the instructions were unclear about whether the jury could consider, as part of its willfulness determination, Campbell's continued sales of its AAPS device after Judge Carney's infringement ruling. <u>Id.</u> at 18-20. The Court agreed, then discussed with counsel how to modify the language to address Polara's concern yet make clear that the jury could not consider the infringement ruling for purposes of its other determinations. <u>Id.</u> at 20. At the conclusion of this colloquy, Campbell did not object to the Court's proposed language. <u>Id.</u><sup>6</sup>

THE COURT: All right. I'm inclined to agree [with Polara]. I'm going to stop the sentence: All of

<sup>&</sup>lt;sup>6</sup> The full discussion follows:

Judge Carney's finding that Campbell infringed the '476 Patent was submitted to the jury as a stipulated fact. 3 Tr. 12. The Court told the jury that "the Court has determined that Campbell's accused product, the AAPS, directly infringes claims 1 through 4 of U.S. patent number 7,145,476. That's the Beckwith '476 patent." <u>Id.</u> Later, Polara's counsel asked Philip Tate,

these questions are for you to decide, period.

MR. TATE: Your Honor, for the record, if I may.

THE COURT: Yes, you may.

MR. TATE: It's certainly a proper instruction with regard to the [inequitable conduct defense], and it is an improper [sic] instruction with regard to validity. So—

THE COURT: You want me to give—you want me to phrase it that way: The determination that Campbell's products infringed the '476 patent should have no impact on how you decide the questions of invalidity and unenforceability?

MR. TATE: Yes.

THE COURT: I can do that.

MR. DILGER: I think it then would need to read: But may be considered as part of your decision on willfulness.

THE COURT: And damages, I think.

MR. DILGER: And damages, yes.

THE COURT: Mr. Tate, any comment on that?

MR. TATE: No, Your Honor.

7 Tr. 20.

Campbell's owner and president, about Judge Carney's infringement ruling:

- Q. Now, you did get at least one other opinion on your device, however; didn't you?
  - A. I personally do not recall getting an additional opinion.
  - Q. You got one in this litigation.
  - A. Yes.
- Q. A federal judge in this building said that your device infringes.

<u>Id.</u> at 166. The Court sustained Campbell's objection to this question and refused Polara's request for a sidebar. <u>Id.</u> at 167. Polara then asked Tate whether he "continue[d] to sell [Campbell's AAPS] device to this day." <u>Id.</u> Tate answered, "I do." <u>Id.</u>

Later, in closing argument, Polara told the jury it should consider Campbell's conduct after Judge Carney's infringement ruling as evidence of Campbell's willfulness:

[W]e know exactly how Campbell responds when they do in fact know that they have an infringing device. How do we know that? Because they did get another opinion. They got an opinion from a federal judge in this building two years ago.

What did he tell them? He told them: Campbell, your product infringes the '476 patent. That's what he said. What did Campbell do? What did they do? They did what they had been doing for the previous four years. They continued to make and they continued to sell the infringing product.

If that's not recklessness, what is? At that point they didn't even—it wasn't even a mystery. They were told it infringes, and they said: We don't care. We're barrelling forward. And that's what they've done.

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Ladies and gentlemen, that is willfulness, about as good as it gets. So we have infringement of a valid patent, and that infringement is willful.

7 Tr. 124.

Campbell's argument that the Court's instructions tainted the jury is misplaced. Campbell chose to continue sales of its two-wire device after Judge Carney's ruling. This was among the "totality of the circumstances" that was appropriately considered by the jury to assess the egregiousness of Campbell's conduct. See Avocent Huntsville Corp. v. ClearCube Tech., Inc., No. 03-02875, 2006 WL 2109503, at \*27 (N.D. Ala. July 28, 2006) (finding that defendant's continued sale of accused products after court granted plaintiff's motion for partial summary judgment on infringement "may fall under the rubric of the 'totality of the circumstances' test, tending to show [defendant's] infringement was (and continues to be) willful"); see also Applied Med.

Resources Corp. v. U.S. Surgical Corp., 353 F. Supp. 2d 1075, 1079 (C.D. Cal. 2004) (finding that jury drew a reasonable inference of willful behavior from infringer's continued sale of infringing device after summary judgment ruling of infringement).

Campbell also points to its invalidity and unenforceability defenses, arguing that those defenses gave it "reasonable grounds" to continue selling a two-wire device. Dkt. 450 at 67. But the Court's instructions enabled Campbell to continue to argue these defenses to the jury, both before and after Judge Carney's infringement ruling. See 7 Tr. 94 (instructing jury that it should consider "whether Campbell reasonably believed that it had a substantial defense to infringement and reasonably believed that the defense would be successful if litigated" when determining whether Campbell acted egregiously). The jury simply rejected these defenses.

Nor is the Court persuaded that Polara's questioning of Tate and

argument about Campbell's continued sales after Judge Carney's infringement ruling was "improper and prejudicial." As the excerpt above reflects, the Court sustained an objection to Polara's questioning about Campbell's continued sale of an infringing product and allowed Polara to elicit only that Campbell's sales of an infringing product continued after Judge Carney's summary judgment ruling. And Polara's closing argument was just that—argument based on facts the jury heard during trial, facts that included Judge Carney's infringement ruling and Campbell's decision to continue selling its product after that ruling.

Moreover, nothing prevented Campbell from vigorously and steadfastly maintaining that it reasonably believed that it had a defense to Polara's charges of infringement. As Polara points out, Campbell did just that, arguing that Tate believed that Campbell's products did not infringe and that the '476 Patent was invalid. See 7 Tr. 166-67.

Campbell also argues that the special verdict form should have required the jury to consider its willfulness throughout the period of alleged infringement. Dkt. 450 at 67. Campbell's revised special verdict form contained an interrogatory that would have asked the jury to specify the time period during which Campbell's infringement was egregious. See Dkt. 414 at 9. On the morning of final argument and jury instructions, the Court provided counsel with a draft special verdict form for their review and comment. 7 Tr. 5 ("I will hand out for you a draft special verdict form. You may take a quick look at it. If you have any concerns about it, I want to hear those."). A short while later, each side raised their respective concerns about the Court's verdict form. Id. at 38-43. Campbell did not raise any concerns about the omission of its proposed interrogatory about the time period. By failing to raise its concerns and explain to the Court why omitting an interrogatory about the specific time period would lead to legal error, Campbell has waived its objection. See United States v. Parsons Corp., 1 F.3d 944, 945 (9th Cir. 1993) (holding that

counsel waived objection to verdict form because although it was clear that counsel preferred a different form, counsel "did not tell the court that it would be committing an error of law or an abuse of discretion if it did not adopt [counsel's] approach").<sup>7</sup>

Moreover, any contention that evidence of Campbell's willfulness was limited to after Campbell received Judge Carney's infringement ruling is misplaced. As detailed below, the jury heard evidence that Campbell's egregious conduct began much earlier, when it decided to go ahead with a two-wire AAPS despite knowledge of the '476 Patent. It is simply not the case that evidence of Campbell's willfulness was limited to its decision to continue sales of its infringing product after Judge Carney's ruling. As a result, any error in omitting Campbell's proposed interrogatory was harmless.

## b. The Jury's Finding of Willfulness

As an initial matter, the parties dispute whether the jury's finding is dispositive of the issue of willfulness. Campbell argues that the jury's finding is only advisory. Dkt. 450 at 68 ("[T]he Jury's tainted rendering is advisory only and, of course, the Court now reviews the evidence."). Polara argues that the jury's willfulness finding is not advisory but may only be overturned if the evidence, construed in the light most favorable to Polara, permits only a conclusion contrary to the jury's verdict. Dkt. 461 at 8.

<sup>&</sup>lt;sup>7</sup> Ninth Circuit law applies to this issue. See Bose Corp. v. JBL, Inc., 274 F.3d 1354, 1360 (Fed. Cir. 2001) ("We apply regional circuit law to procedural questions that are not themselves substantive patent law issues so long as they do not: (1) pertain to patent law; (2) bear an essential relationship to matters committed to our exclusive control by statute; or (3) clearly implicate the jurisprudential responsibilities of this court in a field within its exclusive jurisdiction." (citations omitted)); see also Lazare Kaplan Int'l, Inc. v. Photoscribe Techs., Inc., 628 F.3d 1359, 1372 (Fed. Cir. 2010) (applying Second Circuit law to determine whether a litigant objected to jury instruction in manner set forth in Fed. R. Civ. P. 51).

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Polara is correct. After Halo, the Federal Circuit has reiterated that "the factual components of the willfulness question should be resolved by the jury." WBIP, LLC v. Kohler Co., 829 F.3d 1317, 1341 (Fed. Cir. 2016); see Greatbatch Ltd. v. AVX Corp., No. 13-723, 2016 WL 7217625, at \*2 (D. Del. Dec. 13, 2016). The jury's finding that Campbell was subjectively willful establishes the predicate of willful misconduct; thus the inquiry moves to the stage at which the district court exercises its discretion. See Innovention Toys, LLC v. MGA Entm't, Inc., --- F. App'x ---, 2016 WL 4151240, at \*2 (Fed. Cir. Aug. 5, 2016); see also Dominion Res. Inc. v. Alstom Grid, Inc., No. 15-224, 2016 WL 5674713, at \*19 (E.D. Pa. Oct. 3, 2016).

Considering the totality of the circumstances, the jury had substantial evidence on which to conclude that Campbell's conduct was willful by a preponderance of the evidence. Tate testified that Campbell developed its AAPS in response to Polara's two-wire system. 3 Tr. 121. He acknowledged that Campbell did not have the technology to compete with Polara's two-wire Navigator when it was introduced. Id. at 123. He also stated that Campbell "needed" a product that would compete with Polara's two-wire Navigator. Id. at 121. The jury could have relied on those statements to conclude that Campbell intentionally copied Polara's two-wire device.

Tate also provided evidence from which the jury could have concluded that Campbell was aware of a significant risk that Campbell's AAPS would infringe the '476 Patent. Tate testified that he discussed the '476 Patent with Dr. Richard Wall of the University of Idaho and that they considered using a three-wire device because it would be "cleaner." Id. at 142-43. In an email exchange, Dr. Wall told Tate that there were similarities between Campbell's proposed AAPS and the '476 Patent. Id. at 140-41; Tr. Exh. 10. Dr. Wall shared with Tate the advice of Mike Jones, a University of Idaho patent lawyer; Tate also testified that he spoke directly with Jones. 3 Tr. 144, 151.

 Tate admitted that Jones did not give Campbell's proposed AAPS a "clean bill of health" in May 2008. <u>Id.</u> at 146. To the contrary, Jones identified "potential problems" and "uncertainty." <u>Id.</u> at 146-47; <u>see</u> Tr. Exh. 316 at 2.

Tate also received an opinion from Bob Shaver, an intellectual property attorney. 3 Tr. 131. Shaver shared with Tate an analysis of prior art prepared by Joe Lindsey, who apparently worked with Shaver. <u>Id.</u> at 155-56; Tr. Exh. 317. Tate admitted that this was the only written communication he received from any lawyer about the '476 Patent. 3 Tr. 155-56. Lindsey's analysis began with the following preamble:

All but one claim in the ['476] patent limit to the 2-wire configuration as previously discussed. Claim 11 does not have this limitation.

Not including claim 11, as long as the system does not contain 2-wire outputs ports interfacing with the push button stations, any system you make is not covered by this patent.

Tr. Exh. 317 at 1. Lindsey proceeded to discuss Claim 11 at some length and ultimately asked Tate for more information about the prior art as it existed in 2004 before concluding, "[w]e will need to establish this to provide a viable argument to the validity of claim 11 of this patent." <u>Id.</u> at 2.

One fair reading of Lindsey's analysis—the one urged by Polara—is that he assumed that Campbell did not intend to adopt a two-wire device. See 3 Tr. 157; 7 Tr. 121-22. The Court must assume that the jury adopted this view of Lindsey's analysis; if it did so, then Lindsey's analysis offers little support for an argument that Campbell acted in good faith or had a reasonable belief that Polara's '476 Patent would be invalidated.

Polara argues that the opinions Campbell received were incompetent because they neither considered the AAPS nor contained a detailed analysis of validity or infringement. Dkt. 461 at 11. To the contrary, according to Polara,

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the evidence suggests that Campbell was repeatedly warned that it should avoid its two-wire design. Id. The Court agrees.

The jury could have also concluded that there was sparse evidence showing that Campbell took any remedial action. It appears from the testimony and exhibits that Campbell rejected Dr. Wall's suggestion to design around the '476 Patent by using a three-wire design for reasons never articulated at trial. The jury could have easily concluded that Campbell's decision emanated from the fact that its customers, like Polara's, wanted a product that could be installed using intersections' existing two-wire infrastructure. Likewise, as noted above, the jury heard that Campbell continued to sell an infringing product even after Judge Carney's infringement ruling.

In sum, substantial evidence adequately supports the jury's finding that Campbell acted willfully when it decided to go ahead with its two-wire device despite knowledge of the '476 Patent. Taken together, the evidence of its knowledge of the '476 Patent, the evidence indicating that its lawyers had concerns about the '476 Patent, the inadequacy of evidence demonstrating that Campbell reasonably believed the '476 Patent was invalid, and Campbell's failure to take remedial measures supported the jury's conclusion that the totality of the circumstances demonstrated egregious conduct. Campbell's motion for judgment as a matter of law on this finding is denied.

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# B. <u>Campbell's Inequitable Conduct Defense</u><sup>8</sup>

Campbell's inequitable conduct defense is based on Polara's alleged failure to disclose material prior art references to the PTO—namely, Wilkinson, the Campbell Enlightened device, and the Tassimco device. Dkt. 450 at 57-66.9 Specifically, Campbell argues that those references would have shown the PTO that transmitting power and data signals over a single pair of wires was obvious. <u>Id.</u> at 61-64. Polara counters that the Tassimco and Enlightened devices were "indistinguishable" from Wilkinson, which was directly considered by the patent examiner. Dkt 461 at 52-54. Polara also contends that the jury's rejection of Campbell's invalidity defenses "undermines significantly Campbell's arguments regarding materiality." <u>Id.</u> at 54. Finally, Polara asserts that Campbell has failed to present clear and convincing evidence of intent to deceive the PTO. <u>Id.</u> at 56-57.

<sup>&</sup>lt;sup>8</sup> Campbell argues in its motion for judgment as a matter of law that Polara's inequitable conduct makes the '476 Patent unenforceable. <u>See</u> Dkt. 450 at 57-66. Because the jury's finding of no inequitable conduct was advisory, <u>see</u> 6 Tr. 134, the Court construes Campbell's argument as a request for entry of judgment on inequitable conduct.

<sup>&</sup>lt;sup>9</sup> The Court rejects Campbell's attempt to broaden its inequitable conduct defense to include an allegation that Polara failed to disclose its alleged public use of the claimed invention to the patent examiner. As Polara correctly points out, such an allegation is not part of Campbell's inequitable conduct defense. See Dkt. 199 at 8-14. In any event, as discussed in Section II.A.3, the jury found that Polara's installation of the prototype system in Fullerton was not a public use as contemplated by 35 U.S.C. § 102(b), and the Court, having considered the record, agrees with the jury's finding. See Trading Techs. Int'l, Inc. v. eSpeed, Inc., 595 F.3d 1340, 1362 (Fed. Cir. 2010) (affirming district court's finding that patentee was not required to disclose inventor's confidential testing of custom software embodying claimed invention because reasonable examiner "would not have regarded such experimental use as material").

#### 1. Legal Standard

Federal Rule of Civil Procedure 52(a) requires district courts to make findings of fact in any action "tried on the facts without a jury or with an advisory jury." Fed. R. Civ. P. 52(a)(1). The court must also "find the facts specially and state its conclusions of law separately." Id. The district court's findings must "be explicit enough to give the appellate court a clear understanding of the basis of the trial court's decision, and to enable it to determine the ground on which the trial court reached its decision." Zivkovic v. S. California Edison Co., 302 F.3d 1080, 1090 (9th Cir. 2002) (quoting Alpha Distrib. Co. of California v. Jack Daniel Distillery, 454 F.2d 442, 453 (9th Cir. 1972)). However, the court "is not required to base its findings on each and every fact presented at trial." Simeonoff v. Hiner, 249 F.3d 883, 891 (9th Cir. 2001). Finally, the court must resolve conflicting testimony on relevant issues. Zivkovic, 302 F.3d at 1090.

## 2. Findings of Fact

The Court, having heard live testimony and duly considered the evidence presented at trial, the parties' briefing and the contentions and arguments of counsel, makes the following findings of fact.<sup>10</sup>

## a. Background on Prior Art

On February 29, 2000, Polara's Arizona distributor, Phoenix Highway, faxed Polara a specification sheet for Campbell's Enlightened device and asked if Polara made a similar product. 2 Tr. 155-59, 172-73; Tr. Exh. 184-A. McGaffey kept the document in a file in his desk, which contained brochures and other information from trade shows about competitor's products. 2 Tr. 68-69, 153-54; Tr. Exh. 184. The specification sheet states that the wiring

<sup>&</sup>lt;sup>10</sup> Any finding of fact that constitutes a conclusion of law is hereby adopted as a conclusion of law, and any conclusion of law that constitutes a finding of fact is hereby adopted as a finding of fact.

schematic for the Enlightened device "is to be used in conjunction with the Tassimco PIU 500 unit." Tr. Exh. 184-A at 2; 2 Tr. 159.

McGaffey testified that he first learned of the Tassimco PIU500 when Tassimco approached Polara about making its Bulldog button compatible with the PIU500. 2 Tr. 159, 177-78. McGaffey could not recall whether this occurred before or after he received the fax from Phoenix Highway. <u>Id.</u> at 159-60.

On March 7, 2000, McGaffey called Tassimco's Conrad Di Pietro to ask to look at Tassimco's interface module for illuminated push buttons. 2 Tr. 174-76. On March 8, 2000, Di Pietro sent McGaffey a fax attaching a product description and schematic of the light kit for the push button. Id.; Tr. Exh. 186. McGaffey gave this information to his engineers. 2 Tr. 177. McGaffey testified that Van Cruz "had already been thinking about or started to sketch out the Navigator [two]-wire device" in early 2000—before McGaffey contacted Di Pietro about the PIU500. Id. at 194.

In 2002, Polara received U.S. Patent No. 6,340,936 (the "'936 Patent") for its eight-wire Navigator. <u>Id.</u> at 144-46; Tr. Exh. 105. Wilkinson appears on the face of the '936 Patent. 2 Tr. 146-147; Tr. Exh. 105 at 1. McGaffey testified that it was "certainly possible" that he reviewed Wilkinson around the time the '936 Patent was issued. 2 Tr. 147. He testified that it was his regular practice to provide copies of the cited references to the inventors and ask them to review the references but he could not remember if he had done so. <u>Id.</u> at 149-50. Beckwith testified that he "probably" reviewed Wilkinson after the '936 Patent was issued. 3 Tr. 100-01.

#### b. Patent Prosecution – Amendments

Moreland Fischer was Polara's attorney who prosecuted the application that resulted in the issuance of the '476 Patent. See 2 Tr. 54-55; Tr. Exh. 109 at 32-33. McGaffey testified that he and Beckwith first met with Fischer in early

2003. 2 Tr. 203-04. McGaffey estimated that he met with Fischer around 3 or 4 times. <u>Id.</u> Fischer reported directly to McGaffey for "all important decisions" regarding the patent application. 2 Tr. 204. Fischer testified that he has "an ongoing duty from the time the application is filed, throughout the end of the prosecution, to cite any relevant prior art that comes to [his] attention to the Patent Office for its consideration." 4 Tr. 37. He also testified that it is his standard practice to tell clients to tell him "everything [they] know that's relevant to the claimed invention." Id. at 38.

Fischer testified that the patent statutes and rules do not require inventors to complete a patent search. 4 Tr. 91. McGaffey testified that, based on Fischer's advice, he believed it was reasonable to forgo spending the \$5,000 it would cost for a patent search. 2 Tr. 205.

The application for the '476 Patent was filed on August 5, 2004. 3 Tr. 12; Tr. Exh. 109. Fischer testified that he did not file an information disclosure statement to notify the PTO of prior art while prosecuting the '476 Patent. 4 Tr. 36-37.

On May 30, 2006, the patent examiner rejected Claims 1, 2, 4, and 5. Tr. Exh. 112 at 1. Among other things, the examiner found that, in light of United States Patent No. 5,241,307 ("Bidault") and No. 3,886,496 ("Spilo"), "[i]t would have been obvious to one of ordinary skill in the art, at the time the invention was made to disclose digital data signals control operation of a message generating means so that a single device . . . processes large amounts of data quickly and efficiently . . . as opposed to an analog controller." Tr. Exh. 112 at 2-3. The patent examiner also identified Wilkinson as "prior art made of record and not relied upon [that] is considered pertinent to applicant's disclosure." <u>Id.</u> at 5.

On August 14, 2006, Fischer sent some remarks and an amendment to the USPTO. 4 Tr. 43-46, 53-56; Tr. Exh. 113. Fischer amended Claim 1, as

#### follows:

A control system by which accessible signal vibro-tactile messages are provided to pedestrians regarding the status of vehicular traffic at alert pedestrians when to cross a traffic light controlled intersection, said control system comprising:

at least one push button station located at the traffic light controlled intersection to be crossed by pedestrians, said push button station including a push button head that is depressed by the pedestrians and message generating means by which to provide at least one accessible message to advise adapted to cause said push button head to vibrate to provide a tactile indication to a visually impaired pedestrian when vehicular traffic through the intersection has been halted; and to cross the intersection; and

a control unit that is responsive to the depression of the push button head of said push button station to transmit to the push button station both power and digital data signals over a single line pair of wires by which to power and control the operation of said message generating means.

4 Tr. 57-58; Tr. Exh. 113 at 4. Fischer testified that he added "detail to narrow the scope" of Claim 1 "in an effort to call out the inventive concept which was different than the prior art that the Patent Office had cited against the claim." 4 Tr. 100-01. Fischer also added a new independent claim, Claim 21, which "restate[s] the invention in different terms." <u>Id.</u> at 60-61.<sup>11</sup>

A control system by which messages are provided to alert pedestrians when to cross a traffic light controlled intersection,

<sup>&</sup>lt;sup>11</sup> Claim 21 recites:

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The '476 Patent was issued on December 5, 2006. 3 Tr. 12; Tr. Exh. 9. Polara owns the '476 Patent by assignment executed in July 2004. 3 Tr. 12; Tr. Exh. 145-B.

### c. The Parties' Understanding of the Prior Art

McGaffey testified that he understood that two-wire devices existed before Polara's two-wire Navigator. 3 Tr. 23. He also understood Campbell's Enlightened device to be a "simple button that would turn a light on through the manipulation of voltage" like an elevator button. Id. at 20-21. It was not his understanding that the two-wire Navigator was the first product to accomplish one function with two wires. Id. at 23-24. McGaffey testified that he was not trying to hide from the patent examiner that Campbell and Tassimco had products that accomplished one function with two wires. Id. at. 24. Rather, he believed Polara's device was different because it "utiliz[ed] digital data over power to accomplish the functions, the four established functions, plus the many more that would be capable through that kind of

said control system comprising:

at least one push button station located at the traffic light controlled intersection to be crossed by pedestrians, said push button station including a push button head that is depressed by the pedestrians and a message generator by which to provide at least one message to advise the pedestrians when to cross the intersection; and

a control unit responsive to the depression of the push button head of said push button station to transmit to the push button station power and digital data signals over a single pair of wires by which to power and control the operation of said message generator, one of said pair of wires carrying both of said power and digital data signals and the second of said pair of wires connected to ground.

Tr. Exh. 113 at 10.

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technology." <u>Id.</u> at 23. When McGaffey was asked for his understanding of what he believed was different about Polara's two-wire APS device at the time the patent application was filed, he responded, "That it was able to accomplish through digital data over power what none of the other devices out there at the time could do." <u>Id.</u> at 25.

Beckwith testified that the central control unit and push button station in Polara's two-wire APS system both include microprocessors that communicate with each other over two wires using digital-data signals. 3 Tr. 93-94. He testified that he was not aware of any product that operated in that fashion at the time the application for the '476 Patent was filed and prosecuted. <u>Id.</u> at 94. Beckwith also testified that the Tassimco and Enlightened devices do not operate using digital-data-over-power signals between two microprocessors. <u>Id.</u> at 95. Beckwith testified that Wilkinson did not transmit digital data, "[n]ot in the normal meaning of the word digital." <u>Id.</u> at 101-03.

At trial, Campbell's expert, Dr. Jones, testified that Claim 1 of the '476 Patent was anticipated by Wilkinson. 6 Tr. 46. Dr. Jones also testified that Claim 21 of the '476 Patent was anticipated by Wilkinson, the Campbell Enlightened device, and the Tassimco device. Id. at 46-47.

#### 3. Conclusions of Law

"Inequitable conduct is an equitable defense to patent infringement that, if proved, bars enforcement of a patent." Therasense, Inc. v. Becton, Dickinson & Co., 649 F.3d 1276, 1285 (Fed. Cir. 2011). "It is only applied where the patentee has unfairly obtained an unwarranted patent through misconduct." Ohio Willow Wood Co. v. Alps S., LLC, 735 F.3d 1333, 1344 (Fed. Cir. 2013). To prove inequitable conduct, the defendant "must show by clear and convincing evidence that the patent applicant (1) misrepresented or omitted information material to patentability, and (2) did so with specific intent to mislead or deceive the PTO." Id. (quoting In re Rosuvastatin Calcium Patent

Litig., 703 F.3d 511, 519 (Fed. Cir. 2012)).

In <u>Therasense</u>, the Federal Circuit established a heightened standard for proving inequitable conduct at the merits stage. In cases involving nondisclosure of information, "the accused infringer must prove by clear and convincing evidence that the applicant knew of the reference, knew that it was material, and made a deliberate decision to withhold it." <u>Therasense</u>, 649 F.3d at 1290. Thus, the defendant must show "but-for materiality" and that the intent to deceive is "the single most reasonable inference able to be drawn from the evidence." <u>Id.</u> at 1290-91. Prior art is but-for material if the PTO would not have allowed a claim had it been aware of the undisclosed reference. <u>Id.</u> at 1291. Because the court must look to the standard used by the PTO to allow claims during examination, "the court should apply the preponderance of the evidence standard and give claims their broadest reasonable construction." <u>Id.</u> at 1291-92.<sup>12</sup>

*Materiality.* As a matter of law, a patentee does not commit inequitable conduct by withholding a reference if the patent examiner in fact considered the reference. Scripps Clinic & Research Found. v. Genentech, Inc., 927 F.2d 1565, 1582 (Fed. Cir. 1991), overruled on other grounds by Abbott Labs. v. Sandoz, Inc., 566 F.3d 1282 (Fed. Cir. 2009). In other words, if the examiner actually considers a reference it is irrelevant whether the patentee disclosed the

conduct. See Am. Calcar, Inc. v. Am. Honda Motor Co., 768 F.3d 1185, 1189

<sup>&</sup>lt;sup>12</sup> District courts and the PTO use different evidentiary standards and rules for claim construction. Therefore, "even if a district court does not invalidate a claim based on a deliberately withheld reference, the reference may be material if it would have blocked patent issuance under the PTO's different evidentiary standards." <u>Therasense</u>, 649 F.3d at 1292. As such, the jury's verdict finding that Claims 1 through 4 of the '476 Patent were not obvious does not weigh on the determination of materiality for inequitable

<sup>(</sup>Fed. Cir. 2014).

reference or the examiner discovered the reference on her own. <u>Id.</u>; <u>see also</u> 37 C.F.R. § 1.56(a) ("The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office . . . ."). Here, it is evident from the face of the '476 Patent that Wilkinson was before the patent examiner during prosecution of the patent. <u>See</u> Exh. 9 at 1. In fact, Judge Carney long ago determined that Wilkinson could not form the basis of an inequitable conduct defense. <u>See</u> Dkt. 34 at 5. When dismissing Campbell's original equitable conduct defense, Judge Carney held that "[a]ny allegation that Polara withheld [Wilkinson] from the PTO therefore cannot be the basis for an inequitable conduct defense." <u>Id.</u> (citing <u>Scripps Clinic</u>, 927 F.2d at 1582; 37 C.F.R. § 1.56(a)).

Additionally, a reference is not but-for material if it is cumulative of or less relevant than information already before the PTO. Larson Mfg. Co. of S. Dakota v. Aluminart Prod. Ltd., 559 F.3d 1317, 1327 (Fed. Cir. 2009). A reference is cumulative if it "teaches no more than what a reasonable examiner would consider to be taught by the prior art already before the PTO." Regents of the Univ. of California v. Eli Lilly & Co., 119 F.3d 1559, 1574-75 (Fed. Cir. 1997); see also Molins PLC v. Textron, Inc., 48 F.3d 1172, 1185 (Fed. Cir. 1995) (because withheld reference was "no more pertinent to" patent application "than was claim 26 of the Lemelson '770 patent, which was already of record," court's finding that withheld reference was material "was clearly erroneous").

Here, by Campbell's own admission, Wilkinson is a better and more relevant reference than the Tassimco or Enlightened devices. Campbell has not identified any evidence presented at trial showing that either of those devices discloses a particularly important limitation not elsewhere disclosed or "a more complete combination of relevant features." Indeed, Campbell's expert, Dr.

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Jones, testified that Wilkinson and the Tassimco and Enlightened devices anticipated Claim 21, but only Wilkinson anticipated Claim 1. See 6 Tr. 46-47; see also Dkt. 450 at 61 ("As Wilkinson demonstrated, such systems could, of course, control . . . not just sounds and a pilot light but a vibrating pushbutton – an APS feature, as well."). Thus, even if the patent examiner had possessed the Tassimco and Enlightened devices and gave the '476 Patent claims the broadest reasonable construction, it is unlikely that the examiner would have rejected the claims based on these references.

Intent to deceive. To prove intent based on nondisclosure to the PTO, the accused infringer must show by clear and convincing evidence that "the applicant made a deliberate decision to withhold a known material reference." Therasense, 649 F.3d at 1290 (quoting Molins, 48 F.3d at 1181). It is not enough to show that a misrepresentation or omission amounted to negligence or gross negligence under a "should have known" standard. Id. If there is no direct evidence of deceptive intent, "a district court may infer intent from indirect and circumstantial evidence." Id. "However, to meet the clear and convincing evidence standard, the specific intent to deceive must be 'the single most reasonable inference able to be drawn from the evidence." Id. (quoting Star Sci., Inc. v. R.J. Reynolds Tobacco Co., 537 F.3d 1357, 1366 (Fed. Cir. 2008)). Accordingly, "when there are multiple reasonable inferences that may be drawn, intent to deceive cannot be found." Id. at 1290-91 (Fed. Cir. 2011) (citing Scanner Techs. Corp. v. ICOS Vision Sys. Corp. N.V., 528 F.3d 1365, 1376 (Fed. Cir. 2008)).

Here, the only evidence of deceptive intent Campbell identifies is the fact of nondisclosure, which does not satisfy the intent to deceive element of inequitable conduct. See M. Eagles Tool Warehouse, Inc. v. Fisher Tooling Co., 439 F.3d 1335, 1341 (Fed. Cir. 2006). Moreover, Polara presented evidence that McGaffey and Beckwith did not have the requisite intent because

they did not consider Wilkinson, the Tassimco PIU500, and Campbell Enlightened device to be material. See Therasense, 649 F.3d at 1290 (explaining that "accused infringer must prove by clear and convincing evidence that the applicant knew . . . that [the reference] was material"). McGaffey testified that he was not trying to hide from the patent examiner that Campbell and Tassimco had products that accomplished one function with two wires. 3 Tr. 24. Rather, he believed Polara's device was different because it "utiliz[ed] digital data over power to accomplish the functions, the four established functions, plus the many more that would be capable through that kind of technology." Id. at 23. When asked what he believed was different about Polara's two-wire APS system at the time the patent application was filed, McGaffey responded "[t]hat it was able to accomplish through digital data over power what none of the other devices out there at the time could do." <u>Id.</u> at 25. Similarly, Beckwith testified that at the time the patent application was filed and prosecuted, he was not aware of any other product that operated using digital-data-over-power signals over two wires. Id. at 94-95. Beckwith also testified that Wilkinson did not transmit digital data "in the normal meaning of the word digital." <u>Id.</u> at 101-03. Based on the jury's verdict on obviousness and advisory verdict on inequitable conduct, the jury apparently found McGaffey's and Beckwith's testimony credible. The Court agrees with the jury's credibility finding. The Court also finds that McGaffey's decision not to do a patent search—which presumably would have uncovered Wilkinson—was reasonable based on Fischer's advice. Under the circumstances, intent to deceive is not the most reasonable inference to be drawn from the evidentiary record. See Therasense, 649 F.3d at 1290.

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Based on the record, the Court is not persuaded that it should disturb the jury's advisory verdict that Campbell has not presented clear and convincing evidence that the '476 Patent is unenforceable due to inequitable conduct.

## C. Polara's Motion for a Permanent Injunction

Polara moves for a permanent injunction against Campbell's continued sales of infringing products. Dkt. 453.

### 1. Legal Standard

There is no presumption in favor of an injunction in patent infringement cases. <u>eBay Inc. v. MercExchange, L.L.C.</u>, 547 U.S. 388, 391 (2006). Instead, a plaintiff must show that the traditional equitable factors support a permanent injunction: (1) the plaintiff has suffered irreparable harm; (2) "remedies available at law are inadequate to compensate for that injury"; (3) "considering the balance of hardships between the plaintiff and defendant, a remedy in equity is warranted"; and (4) "the public interest would not be 'disserved' by a permanent injunction." <u>i4i Ltd. P'ship v. Microsoft Corp.</u>, 598 F.3d 831, 861 (Fed. Cir. 2010) (citing <u>eBay</u>, 547 U.S. at 391); <u>see also Sealant Systems Int'1, Inc. v. TEK Global S.R.L.</u>, No. 11-774, 2014 WL 1008183, at \*5 (N.D. Cal. Mar. 7, 2014).

### 2. Polara's Entitlement to an Injunction

### a. Irreparable Harm

To establish irreparable harm, a patentee must show a causal nexus between the alleged harm and the infringement. "This just means that there must be proof that the infringement causes the harm." Apple Inc. v. Samsung Elecs. Co., 809 F.3d 633, 639 (Fed. Cir. 2015), cert. denied, 136 S. Ct. 2522 (2016). Polara argues that evidence that the infringing two-wire design drives demand for the accused AAPS product establishes this causal nexus. Dkt. 453-1 at 6-7. The Court agrees. As noted above, the evidence showed that Campbell developed its two-wire AAPS to compete with Polara's two-wire Navigator. The evidence at trial also showed that developing a two-wire APS system offered marked advantages, because many existing intersections had only two wires. As Polara points out, a 2014 user's manual for Campbell's

AAPS "touts the infringing features as an advantage of the product." Dkt. 453-1 at 7 (citing Dkt. 453-11 at 6-8). A causal nexus has been established.

Moreover, the evidence showed that Polara and Campbell are direct competitors in the marketplace of APS system suppliers. 2 Tr. 71-72. It also appears that Polara and Campbell are the only two companies who supply two-wire APS systems. See 2 Tr. 71-75. This evidence strongly favors an injunction. See Douglas Dynamics, LLC v. Buyers Prod. Co., 717 F.3d 1336, 1345 (Fed. Cir. 2013) ("Where two companies are in competition against one another, the patentee suffers the harm—often irreparable—of being forced to compete against products that incorporate and infringe its own patented inventions.").

Additionally, the evidence showed that Polara is not willing to license the '476 Patent. See 2 Tr. 83-88. Polara's unwillingness weighs in favor of finding irreparable injury. See Presidio Components, Inc. v. Am. Tech. Ceramics Corp., 702 F.3d 1351, 1363 (Fed. Cir. 2012) ("The district court correctly found [patentee's] unwillingness to license favored finding irreparable injury.").

Campbell argues that Polara has not shown any lost sales due to its infringement. See Dkt. 463 at 12. But the evidence showed that Polara and Campbell are the only two suppliers of two-wire APS systems in the marketplace. See 2 Tr. 70-72. Polara also presented evidence that Campbell had sold two-wire devices to former Polara customers in Nevada and California. See id. at 74-77. This testimony, together with the undisputed evidence that Polara and Campbell were direct competitors, established that Polara has suffered irreparable harm from lost business opportunities due to Campbell's infringement.

Campbell also argues that Polara's failure to seek preliminary injunctive relief demonstrates that it is not being irreparably harmed. Dkt. 463 at 13-14.

But a period of delay is only one circumstance that a district court may consider when evaluating irreparable harm. See Hybritech Inc. v. Abbott Labs., 849 F.2d 1446, 1457 (Fed. Cir. 1988); see also Apple, Inc. v. Samsung Elecs. Co., 678 F.3d 1314, 1325 (Fed. Cir. 2012). And "a showing of delay does not preclude, as a matter of law, a determination of irreparable harm." Hybritech, 849 F.2d at 1457.

In sum, considering the substantial evidence of direct competition in the same market and the causal nexus between the infringement and the harm, the Court finds that Polara has shown that it has suffered irreparable injury.

### b. Adequacy of Legal Remedies

Where there is no reason to believe that infringement or irreparable harm arising therefrom will cease absent an injunction, money damages are inadequate. See Robert Bosch LLC v. Pylon Mfg. Corp., 659 F.3d 1142, 1155 (Fed. Cir. 2011). Here, there is no reason to believe that Campbell will discontinue offering an infringing two-wire device absent an injunction. An award of money damages for Campbell's past infringement does not mean that money damages are an adequate remedy for future infringement. See Kanga Care LLC v. GoGreen Enters. LLC, No. 13-2770, 2014 WL 5889815, at \*3 (D. Colo. Nov. 12, 2014) (holding that "any sales" of infringing product "cause[s] damage to plaintiff's interests that cannot be adequately remedied by a monetary award"); Honeywell Int'l, Inc. v. Universal Avionics Sys. Corp., 397 F. Supp. 2d 537, 546 (D. Del. 2005) (noting that "while a monetary award is often an adequate remedy for past infringement, it does not follow that money relief is a sufficient remedy against future infringement"). Because money damages are inadequate, this factor weighs in favor of issuing an injunction.

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Absent an injunction, Polara faces substantial hardship because it must compete with its own patented invention. See Robert Bosch, 659 F.3d at 1156 (holding that requiring patentee "to compete against its own patented invention," places "substantial hardship" on patentee and therefore "favors entry of an injunction"). In response, Campbell argues that it will lose its "toehold" in the marketplace if an injunction is issued, giving Polara the opportunity to "force [it] out of the marketplace entirely." Dkt. 463 at 20. But the fact that Campbell might lose market share or suffer other harm if it cannot sell an infringing product is not a basis for denying Polara injunctive relief. Any hardship faced by Campbell is the result of its own actions and its decision to enter the relevant market with an infringing device. See Coloplast A/S v. Generic Med. Devices, Inc., No. 10-227, 2012 WL 3262756, at \*2 (W.D. Wash. Aug. 9, 2012) (finding that balance of hardships favored entry of injunction where defendant's hardship was "result of its calculated business risk to enter the relevant market with its devices"); see also Windsurfing Int'l, Inc. v. AMF, Inc., 782 F.2d 995, 1003 n. 12 (Fed. Cir. 1986) ("One who elects to build a business on a product found to infringe cannot be heard to complain if an injunction against continuing infringement destroys the business so elected."). Moreover, Campbell itself asserts that it is developing "next generation" products that are not infringing. Dkt. 463 at 20. Any noninfringing products will not be affected by the Court's injunction, diminishing the force of this argument.

#### d. Public Interest

Finally, the public interest also weighs in favor of granting a permanent injunction. The public has a strong interest in maintaining the integrity of the patent system by enforcing a patent owner's right to exclude. See Broadcom Corp. v. Qualcomm Inc., 543 F.3d 683, 704 (Fed. Cir. 2008) (acknowledging

district court's conclusion that "it is generally in the public interest to uphold patent rights"); Smith & Nephew, Inc. v. Synthes, 466 F. Supp. 2d 978, 985 (W.D. Tenn. 2006) ("As a general matter, the public maintains an interest in protecting the rights of patent holders, and injunctions serve that interest."). Without an injunction, there is every reason to believe that Campbell will continue violating Polara's right to exclude, undermining the policies that underlie the patent laws.

### 3. Scope of the Injunction

Having determined that entry of a permanent injunction is supported by the four <u>eBay</u> factors, the Court turns to the appropriate scope of the injunction. The Court possesses "inherent discretion to fashion equitable relief." Robert Bosch, 659 F.3d at 1149.

Polara seeks entry of the following injunction:

IT IS FURTHER ORDERED that Campbell and its subsidiaries and affiliated companies (collectively "the Campbell [E]ntities"), as well as the Campbell [Entities'] successors, assigns, officers, directors, distributors, agents, servants, employees, representatives and attorneys, and those persons in active concert or participation with them who receive notice of the order are hereby immediately and permanently restrained and enjoined, pursuant to 35 U.S.C. § 283 and Fed. R. Civ. P. 65(d), from making, using, offering for sale or selling in the United States, or importing into the United States, or causing to be made, used, offered for sale, or sold in the United States, or imported into the United States, any [Campbell Advisor Advanced Pedestrian Station ("Infringing Product")] or any products not more than colorably different therefrom.

IT IS FURTHER ORDERED that [the Campbell Entities]

as well as the Campbell [Entities'] successors, assigns, officers, directors, distributors, agents, servants, employees, representatives and attorneys, and those persons in active concert or participation with them who receive notice of the order are hereby immediately and permanently restrained and enjoined, pursuant to 35 U.S.C. § 283 and Fed. R. Civ. P. 65(d), from maintaining, servicing, repairing or otherwise providing technical support for any Infringing Product sold prior to January 3, 2013.

IT IS FURTHER ORDERED that within 14 days of issuance of this order, the Campbell Entities shall provide written notice of this judgment and order, and the injunction ordered herein, to: their officers, directors, distributors, customers, agents, servants, representatives, attorneys, employees, subsidiaries and affiliates, and those persons in active concert or participation with them, as well as any entity to which Campbell has previously directly or indirectly sold or offered for sale an Infringing Product. The Campbell entities shall take whatever means are necessary or appropriate to ensure that this order is properly complied with.

IT IS FURTHER ORDERED that within 14 days of issuance of this order, the Campbell Entities shall provide written notice of this judgment and order, and the injunction ordered herein, to each purchaser, user, or customer to which Campbell has previously directly or indirectly sold or offered for sale an Infringing Product first sold prior to January 3, 2013, stating:

Each Campbell Advisor Advanced Pedestrian Station provided by Campbell prior to January 3, 2013 is affected by a Permanent Injunction entered by the United States District Court for the Central District of California in [Case] No. SA CV 13-00007-DFM. A copy of this

Permanent Injunction is included with this notice. The Campbell Advisor Advanced Pedestrian Station has been found to infringe U.S. Patent No[]. 7,145,476, which is assigned to Polara Engineering, Inc. Accordingly, certain acts associated with the Campbell Advisor Advanced Pedestrian Station are prohibited.

As result of this Permanent Injunction, Campbell and its distributors, successors, assigns, officers, directors, agents, servants, employees, representatives and attorneys, and those persons in active concert or participation with them have been enjoined from maintaining, servicing, repairing or otherwise providing technical support for any Campbell Advisor Advanced Pedestrian Station sold prior to January 3, 2013, including the Campbell Advisor Advanced Pedestrian Stations provided to you having the following part numbers:

### [to be inserted by Campbell].

IT IS FURTHER ORDERED that within 28 days of issuance of this order, the Campbell Entities shall file with the Court a list identifying each entity to which, as set forth above, the Campbell Entities provided written notice of this judgment and order, and the injunction ordered herein.

See Dkt. 453-12 at 1-3.

Polara's proposed injunction is overbroad. As an initial matter, Polara does not justify the relief it seeks with respect to Campbell's past sales. It has been awarded damages on those sales in the form of a reasonable royalty. This award acts as an implied license on such sales. See King Instrument Corp. v. Otari Corp., 814 F.2d 1560, 1564 (Fed. Cir. 1987); see also Itron, Inc. v. Benghiat, No. 99-501, 2003 WL 22037710, at \*14 (D. Minn. Aug. 29, 2003) ("By paying the damages that it owes in full, [infringer] will receive an implied license on its past infringing sales."). The Court accordingly will not order that

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Campbell be barred from "maintaining, servicing, repairing or otherwise providing technical support" for any of its infringing products.

The Court will, however, order Campbell to send notice to its customers of the injunction issued by the Court. This notice requirement is necessary to protect Polara's rights in the '476 Patent. See Braintree Labs., Inc. v. Nephro-Tech, Inc., 81 F. Supp. 2d 1122, 1137 (D. Kan. 2000).

The remaining issue is the language barring Campbell's sale of devices that infringe Claims 1 through 4 of the '476 Patent. Polara defines "Infringing Product" as Campbell's AAPS. The Court agrees that Campbell's AAPS should be subject to injunctive relief to the extent that the device infringes Claims 1 through 4 of the '476 Patent. And there is the problem with Polara's language. A version of Campbell's AAPS that does not rely on Polara's data-over-power feature to operate over two wires would not infringe the '476 Patent. The injunction's definition of Infringing Product must reflect that. The Court will accordingly order Polara to submit revised proposed injunction language that limits its definition of Infringing Product consistent with the Court's views herein. Within seven (7) days of Polara's submission, Campbell shall file any objections thereto.

Related to the Court's concern, Polara has also asked for authority to inspect a working exemplar of Campbell's new "wireless" AAPS, what Campbell calls its "WiAAPS." See Dkt. 489. Campbell objects to Polara's request. See Dkt. 490. Polara's request for inspection is denied. Once an appropriate injunction is in place, Polara may, to the extent it believes that Campbell's WiAAPS violates the injunction, seek to have Campbell held in contempt.

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# D. <u>Polara's Motion for a Judgment of Willfulness and an Award of</u> Enhanced Damages

Polara seeks enhanced damages in the form of trebling the jury's damages award to punish Campbell's willful conduct. Dkt. 455.

Courts have the discretion to award "damages up to three times the amount found or assessed." 35 U.S.C. § 284. Such enhanced damages are not required by a finding of egregious misconduct. <u>Halo</u>, 136 S. Ct. at 1933. Courts should "continue to take into account the particular circumstances of each case," reserving enhanced damages for "egregious cases typified by willful misconduct." <u>Id.</u> at 1933-34.

Read Corp. v. Portec, Inc., 970 F.2d 816, 826-27 (Fed. Cir. 1992), identified nine factors relevant to the egregious conduct inquiry: (1) whether the infringer deliberately copied the ideas or design of another; (2) whether the infringer, when he knew of the other's patent protection, investigated the scope of the patent and formed a good-faith belief that it was invalid or that it was not infringed; (3) the infringer's behavior as a party to the litigation; (4) the infringer's size and financial condition; (5) closeness of the case; (6) duration of the infringer's misconduct; (7) remedial action by the infringer; (8) the infringer's motivation for harm; and (9) whether the infringer attempted to conceal its misconduct. After Halo, courts have continued to look to these factors. See, e.g., Power Integrations, Inc. v. Fairchild Semiconductor Int'l, Inc., No. 09-5235, 2017 WL 130236, at \*4 (N.D. Cal. Jan. 13, 2017) (calling the Read factors "useful guideposts"); Sociedad Espanola de Electromedicina y Calidad, S.A. v. Blue Ridge X-Ray Co, Inc., No. 10-159, 2016 WL 7473422, at \*7 (W.D. N.C. Dec. 28, 2016) (calling the Read factors "helpful" but "not dispositive").

The Court analyzes the <u>Read</u> factors as follows:

Deliberate copying. Polara argues that Campbell deliberated copied its '476

Patent when it made its AAPS a two-wire device. As noted above, the evidence showed that Campbell was aware of Polara's two-wire Navigator and intended to develop a product with similar capabilities. See, e.g., 3 Tr. 121-22 ("[W]e needed to develop a product to compete with the two-wire system."). The evidence showed Campbell eschewed the suggestion that it implement a three-wire solution. Although the evidence of deliberate copying may only be circumstantial, it is nonetheless compelling. This factor favors an award of enhanced damages.

Good faith belief of invalidity or noninfringement. Polara argues that Campbell ignored warnings about the '476 Patent and implemented a two-wire design without a competent opinion that its design would not infringe or that the '476 Patent was invalid. The evidence supports Polara's argument. Jones, the University of Idaho lawyer, identified "problems" with the '476 Patent and did not give Campbell's proposed AAPS a "clean bill of health." <u>Id.</u> at 146-47; <u>see</u> Tr. Exh. 316 at 2. The Court agrees with the jury's implicit finding that Lindsey's analysis offered little support for an argument that Campbell believed the '476 Patent was invalid; Lindsey's analysis (Tr. Exh. 317) was limited to Claim 11. As a result, the record does not support Tate's testimony that he believed that Campbell's device did not infringe and that the '476 Patent was invalid. This factor also favors an award of enhanced damages.

Campbell's litigation behavior. Polara argues that Campbell's behavior during this litigation supports an award of enhanced damages. The Court disagrees. "Typically, 'litigation misconduct' refers to bringing vexatious or unjustified suits, discovery abuses, failure to obey orders of the court, or acts that unnecessarily prolong litigation." i4i Ltd. P'ship, 598 F.3d at 859. Both sides assail their opponent's litigation tactics. But the record reveals little behavior by either side that cannot be fairly characterized as zealous and aggressive advocacy. Campbell's invalidity and unenforceability defenses

required a trial, indicating that neither position was vexatious or unjustified. While counsel represented their clients vigorously at trial, both parties acted professionally throughout the proceedings in front of this Court, and neither party points to any findings by Judge Carney or Judge Rosenbluth of flagrant or sanctionable behavior. Accordingly, the Court finds that this factor weighs against awarding enhanced damages.

Campbell's size and financial condition. Polara argues that Campbell's size and financial condition support an award of enhanced damages. The Court heard little evidence at trial on this topic. Polara and Campbell are both relatively small companies, each employing fewer than 100 employees. 1 Tr. 44; 2 Tr. 12. But the damages awarded by the jury are not colossal, and there is no evidence that trebling those damages would threaten to destroy Campbell's financial condition. As a result, the Court finds that this factor is neutral.

Closeness of the case. Polara argues that "[n]othing about this case was 'close.'" Dkt. 460-1 at 15. This is an overstatement. In particular, the affirmative defense of invalidity due to obviousness was a close call; although Polara did not bear the burden of proof, it did not marshal overwhelming evidence to refute Campbell's arguments that its two-wire system was obvious. But Campbell's other invalidity theories were weaker, and the fact that those issues required a resolution at trial does not indicate that they were particularly close. See PPC Broadband, Inc. v. Corning Optical Comme'ns RF, LLC, No. 11-761, 2016 WL 6537977, at \*7 (N.D.N.Y. Nov. 3, 2016). In sum, the Court finds that this factor is also neutral.

Duration of the infringer's misconduct. Polara argues that the duration of Campbell's infringement weighs in favor of enhancement. The Court agrees.

<sup>&</sup>lt;sup>13</sup> Before the parties consented to this Court, U.S. Magistrate Judge Jean Rosenbluth handled the pretrial discovery disputes in this matter, of which there were several.

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Campbell's infringement began more than six years ago. Courts have concluded that similarly lengthy periods of infringement weigh in favor of enhancement. See, e.g., I-Flow Corp. v. Apex Med. Tech., Inc., No. 07-1200, 2010 WL 114005, at \*3 (S.D. Cal. Jan. 6, 2010) (finding six years of misconduct was "substantial," favoring enhancement).

Campbell's remedial actions. Polara argues that Campbell's failure to take any remedial action, most notably its failure to discontinue sales of the infringing product after Polara filed suit and Judge Carney granted partial summary judgment, weighs in favor of enhancement. The Court agrees. Courts have concluded that continuing to sell the infringing products after notice of infringement and during the course of litigation supports enhancement. See Novozymes A/S v. Genencor Int'1, Inc., 474 F. Supp. 2d 592, 611 (D. Del. 2007) ("That Defendants failed to take remedial action and continued to infringe until after the liability trial also supports an enhanced award."). The record shows that Campbell took no remedial action. This factor weighs in favor of enhancement.

Campbell's motivation for harm. Polara argues that Campbell, as its direct competitor, was motivated to take market share from Polara. It is undisputed that Polara and Campbell are direct competitors in a relatively small market for APS systems; "infringement by a direct competitor in such a market mitigates in favor of enhanced damages." TruePosition Inc. v. Andrew Corp., 611 F. Supp. 2d 400, 412 (D. Del. 2009). Moreover, the evidence supports the conclusion that Campbell preferred taking the risk of infringement over designing a non-infringing device, and that Campbell did so to divert business from Polara. See Funai Elec. Co., Ltd. v. Daewoo Elecs. Corp., 593 F. Supp. 2d 1088, 1116-17 (N.D. Cal. 2009) (agreeing that "where, as here, the infringer engages in infringing conduct to gain an edge over the patentee in a competitive market, this factor favors an award of enhanced damages."). This

factor weighs in favor of enhancement.

Whether Campbell attempted to conceal its misconduct. Polara does not argue that Campbell attempted to conceal its misconduct. This factor weighs against enhancement.

Taking into account the jury's verdict, the <u>Read</u> factors, and, most importantly, the rationale underlying enhanced damages, the Court is persuaded that enhanced damages are appropriate. Five of the nine <u>Read</u> factors—deliberate copying, no good faith belief in non-infringement or invalidity, duration of infringement, the absence of remedial actions, and motivation for harm—weigh in favor of enhancement. Two factors are neutral, and two factors weigh against enhancement.

Although Campbell's misconduct warrants an enhancement, the Court recognizes that there is a spectrum of improper conduct. See Cleancut, LLC v. Rug Doctor, Inc., No. 08-836, 2013 WL 441209, at \*4 (D. Utah Feb. 5, 2013). Trebling damages is reserved for the cases at the most egregious end of the spectrum. See PPC Broadband, 2016 WL 6537977 at \*9. Here, the Court exercises its discretion and finds that increasing the damages award by two-and-a-half times is a sufficiently punitive sanction for Campbell's misconduct. See Halo, 136 S. Ct. at 1932; see Dominion Res. Inc., 2016 WL 5674713 at \*20-24 (awarding double damages because of the jury's willfulness finding and two Read factors weighed in infringer's favor); Metso Minerals, Inc. v. Powerscreen Int'l Distrib. Ltd., 833 F. Supp. 2d 333, 341 (E.D.N.Y. 2011) (concluding that full enhancement of treble damages was not warranted because of mitigating factors, especially the lack of litigation misconduct).

### E. Polara's Motion to Award Attorney's Fees

Polara moves for an order awarding attorney's fees under 35 U.S.C. § 285, which provides that reasonable attorney's fees may be awarded to the prevailing party in "exceptional cases." Dkt. 454.

In Octane Fitness, LLC v. Icon Health & Fitness, Inc., --- U.S. ---, 134 S. Ct. 1749 (2014), the Supreme Court held that an "exceptional" case is "one that stands out from others with respect to the substantive strength of a party's litigating position (concerning both the governing law and the facts of the case) or the unreasonable manner in which the case was litigated." Id. at 1756. The courts must look at the totality of the circumstances to decide if a case is "exceptional." Id. In making this determination, courts may consider the "frivolousness, motivation, objective unreasonableness (both in the factual and legal components of the case) and the need in particular circumstances to advance considerations of compensation and deterrence." Id. at 1756 n.6. Courts may also award fees in a case presenting "either subjective bad faith or exceptionally meritless claims." Id. at 1757.

Here, although Campbell's infringement and invalidity defenses were unsuccessful, its litigating positions were not objectively unreasonable. See SFA Sys., LLC v. Newegg Inc., 793 F.3d 1344, 1347-48 (Fed. Cir. 2015) (clarifying that what matters is the substantive strength of a party's litigating position rather than the eventual success of that position); see also Gaymar Indus., Inc. v. Cincinnati Sub-Zero Prods., Inc., 790 F.3d 1369, 1373 (Fed. Cir. 2015) (noting that "fees are not awarded solely because one party's position did not prevail"). Campbell's anticipation, obviousness, and unenforceability defenses all proceeded to trial; although ultimately the jury and the Court found those defenses unpersuasive, there was evidence in the record to support them. The substantive strength of Campbell's litigating position does not "stand out" from other cases to merit a finding that this case is "exceptional" under § 285.

Nor was the case litigated in an unreasonable manner. Both parties spend much of their briefs assailing the other side's litigation conduct. The Court finds that none of the parties' allegations demonstrates substantial

litigation misconduct. As the Court noted above, both counsel litigated this case vigorously on behalf of their respective clients.

In sum, this case is not exceptional. While Campbell's decisions outside the litigation warrant enhanced damages, its litigation conduct does not "stand out" from other hard-fought cases as unreasonable. Polara's motion for an award of attorney's fees is denied.

### F. Polara's Motion for an Accounting

Polara requests supplemental damages for the "entire scope" of Campbell's infringement. Dkt. 452. Polara also requests prejudgment and postjudgment interest. <u>Id.</u> Campbell does not resist Polara's request for supplemental damages, but contends that any accounting should run from February 1, 2016. Dkt. 462 at 4. Campbell argues that no prejudgment interest is warranted. <u>Id.</u> at 1-4.

### 1. Supplemental Damages and Accounting

The Court begins with Polara's request for supplemental damages. Upon a finding of infringement, the patentee is entitled to "damages adequate to compensate for the infringement, but in no event less than a reasonable royalty for the use made of the invention by the infringer." 35 U.S.C. § 284. Patentees are entitled to supplemental damage awards for any infringement prior to the entry of a permanent injunction that was not considered by the jury. See Finjan, Inc. v. Secure Computing Corp., 626 F.3d 1197, 1212-13 (Fed. Cir. 2010). "Courts routinely grant motions for a further accounting where the jury did not consider certain periods of infringing activity post-verdict." Metso Minerals, 833 F. Supp. 2d at 347. This reasoning has been applied to situations like this one in which an infringer provides sales data that does not cover all sales made before trial. See Hynix Semiconductor Inc. v. Rambus Inc., 609 F. Supp. 2d 951, 960-61 (N.D. Cal. 2009) (awarding supplemental damages for infringement occurring between verdict and entry of judgment, which could

Comms., Inc., No. 10-248, 2011 WL 4899922, at \*4 (E.D. Va. Oct. 14, 2011) (holding that supplemental "damages may take into account pre-verdict infringing sales that were not covered by the jury verdict due to deficiencies in the discovery production"). In calculating supplemental damages to correct this deficiency, the Court may apply the reasonable royalty rate found by the jury. See Hynix, 609 F. Supp. 2d at 964-65 (applying jury's royalty determination to all infringement); Mondis Tech. Ltd. v. Chimei Innolux Corp., 822 F. Supp. 2d 639, 643 (E.D. Tex. 2011) ("The Court holds that the proper rate for the supplemental damages is the same rates the jury answered were applicable, which are 0.5% for monitors and 0.75% for televisions.").

Here, the jury decided that 15% of total sales was a reasonable royalty. Dkt. 440 at 4. The jury also found that the total infringing sales were \$2,752,842. <u>Id.</u> This figure is the amount, as stipulated by the parties, that Polara's damages expert, David Hanson, would have testified to as total infringing sales since January 2, 2013. <u>See</u> 7 Tr. 36; Tr. Exh. 350. <sup>14</sup> Hanson did testify that his sales numbers "go through January of 2016." 5 Tr. 18, 32. His report shows that he included sales figures through January 29, 2016. <u>See</u> Tr. Exh. 345 at 55. A later stipulation was only necessary because Hanson had not provided a damages figure dating from January 2, 2013—not because he was changing his "end" date. <u>See</u> 5 Tr. 54-55; 7 Tr. 35-36. Polara is entitled to supplemental damages of 15% of Campbell's total sales of the AAPS from January 30, 2016 through the date of this Order.

### 2. Prejudgment Interest

Damages for infringement should be awarded "together with interest and costs as fixed by the court." 35 U.S.C. § 284. Prejudgment interest should

<sup>&</sup>lt;sup>14</sup> The transcript and exhibit mistakenly list the figure as \$12,752,842.

ordinarily be awarded to a victorious patentee. See Gen. Motors Corp. v. Devex Corp., 461 U.S. 648, 655-56 (1983). Prejudgment interest is meant to be compensatory, not punitive. Oiness v. Walgreens Co., 88 F.3d 1025, 1033 (Fed. Cir. 1996). The purpose of prejudgment interest is to put the patent owner "in as good a position as he would have been in had the infringer entered into a reasonable royalty agreement." Gen. Motors, 461 U.S. at 655. The rate of prejudgment interest is "left largely to the discretion of the district court." Bio-Rad Labs., Inc. v. Nicolet Instrument Corp., 807 F.2d 964, 969 (Fed. Cir. 1986). Prejudgment interest may not be awarded on enhanced damages. See Metso Minerals, 833 F. Supp. 2d at 342 ("[P]re-judgment interest can only be applied to the primary or actual damage portion and not to the punitive or enhanced portion of a damage award.").

Campbell argues that the Court should award no prejudgment interest.

See Dkt. 462 at 1-2. Campbell claims that because the two experts disagreed on a reasonable royalty rate, Polara's royalties are "indefinite" and "not subject to liquidation," meaning that prejudgment interest should not be assessed. Id.

This argument flies in the face of the aforementioned authorities. As noted above, the jury concluded that 15% was a reasonable royalty rate. Prejudgment interest should ordinarily be awarded absent some justification for withholding such an award. DDR Holdings, LLC v. Hotels.com, L.P., 773 F.3d 1245, 1263 (Fed. Cir. 2014). Campbell offers no such justification.

The parties propose different rates and compounding methods for calculating prejudgment interest. Polara argues that the Court should apply California's breach-of-contract law for a rate of 10% per annum. Dkt. 452-1 at 5-6. Campbell argues that the appropriate rate is the prime rate, calculated at a simple rate. Dkt. 462 at 2-4.

The Court agrees with Campbell that the prime rate is appropriate. As the "rate charged by banks to its most credit-worthy customers," the prime rate

is frequently found to be the appropriate rate for calculation of prejudgment 1 2 3 4 5 6 7 8 9

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interest in a patent case. Atmel Corp. v. Silicon Storage Tech., Inc., 202 F. Supp. 2d 1096, 1101 (N.D. Cal. 2002); see also IMX, Inc. v. Lendingtree, L.L.C., 469 F. Supp. 2d 203, 227 (D. Del. 2007) (holding that prime rate provides best compensation to corporate patentee because it "represents the cost of borrowing money, which is 'a better measure of the harm suffered as a result of the loss of the use of money over time'" (citation omitted)). And, because a patentee's damages include the foregone use of money, annual compounding is warranted. See Fresenius Med. Care Holdings, Inc. v. Baxter Int'1, Inc., No. 03-1431, 2008 WL 928535, at \*2 (N.D. Cal. Apr. 4, 2008).

#### **3. Postjudgment Interest**

Under 28 U.S.C. § 1961, Polara requests postjudgment interest calculated at the statutory rate on the total money award, including damages, enhanced damages, and prejudgment interest. Campbell does not oppose Polara's request.

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### CONCLUSION

For the foregoing reasons,

- Campbell's motion for judgment as a matter of law is DENIED. 1.
- 2. Judgment shall be entered denying Campbell's inequitable conduct defense.
- 3. Polara's motion for a permanent injunction is GRANTED. Polara is ORDERED to submit a proposed injunction consistent with this Order. Campbell will file any objections to Polara's proposed injunction within seven (7) days of Polara's submission. Polara's request for inspection is DENIED.
- Polara's motion for an accounting and supplemental damages for previously unaccounted-for infringing sales is GRANTED. Campbell shall provide Polara a full accounting of all infringing sales from the period

beginning January 30, 2016, through the date of this Order within seven (7) days of the date of this Order.

- 5. Polara's motion for pre- and postjudgment interest is GRANTED. With respect to prejudgment interest, it shall be calculated at the prime rate, compounded annually. Prejudgment interest shall not be awarded on any enhanced damages. Polara is ORDERED to submit calculations for supplemental damages and prejudgment interest consistent with this Order, and a form of judgment reflecting the same, within fourteen (14) days of receiving Campbell's updated sales figures as ordered in the preceding paragraph. Campbell may submit its objections, if any, to Polara's form of judgment, within seven (7) days after the judgment is submitted. Polara may reply within seven (7) days thereafter.
- 6. Polara's motion to enhance the damages award is GRANTED, but only to the extent that any damages award shall be increased by two-and-a-half times.
- 7. Polara's motion for attorney's fees pursuant to 35 U.S.C. § 285 is DENIED.
- 8. In light of the aforementioned rulings, Polara's request for a status conference (Dkt. 493) is DENIED. The Court will schedule any further hearing it deems necessary on any remaining issues related to the scope of the injunction and the calculation of damages and interest.

IT IS SO ORDERED.

Dated: February 27, 2017

DOUGLAS F. McCORMICK United States Magistrate Judge