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6 IN THE UNITED STATES DISTRICT COURT
7
8 FOR THE NORTHERN DISTRICT OF CALIFORNIA
9

10 CONCEPTUS, INC.,

No. C 09-02280 WHA

11 Plaintiff,

12 v.

13 HOLOGIC, INC.,

**ORDER DENYING MOTIONS
FOR JUDGMENT AS A MATTER
OF LAW AND MOTIONS FOR A
NEW TRIAL**

14 Defendant.
15 _____/

16 **INTRODUCTION**

17 In this patent infringement action, defendant moves for judgment as a matter of law, or in
18 the alternative for a new trial, on grounds of lack of enablement and non-infringement after a jury
19 found infringement and awarded \$18 million in damages. For the reasons set forth below, the
20 motions are **DENIED**.

21 **STATEMENT**

22 The history of this action has been explained in prior orders (Dkt. Nos. 131, 356). In
23 brief, defendant Hologic, Inc. owned and marketed the Adiana contraceptive system, which
24 involved minimally invasive transcervical placement of a contraceptive device into a woman's
25 fallopian tubes. Combined with the use of radiofrequency energy, the Adiana system produced
26 intrafallopian occlusion, which either prevented conception from occurring or blocked the
27 passage of a fertilized ovum to the uterus.
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1 A jury trial found that the Adiana system directly and indirectly infringed the '361 patent,
2 entitled "Contraceptive Transcervical Fallopian Tube Occlusion Devices And Methods," which
3 was assigned to plaintiff Conceptus, Inc. Claims 37 and 38 (not claim 36) of U.S. Patent 6634361
4 were asserted and had the following language:

5 36. An intrafallopian contraceptive method comprising: transcervically introducing a
6 pre-formed resilient structure into a target region of a fallopian tube; imposing an
7 anchoring force against a tubal wall of the fallopian tube by resiliently engaging in inner
8 surface of the tubal wall with the resilient structure; and permanently affixing the resilient
9 structure within the fallopian tube with a lumen-traversing region of the resilient structure
10 so that at least a portion of the fallopian tube is open.

11 37. A method as claimed in claim 36, wherein the affixing step comprises promoting
12 tissue ingrowth of the tubal wall surrounding the resilient structure.

13 38. A method as claimed in claim 37, wherein the tissue ingrowth occludes the fallopian
14 tube to inhibit contraception

15 (col. 23:38–53).

16 After a two-week trial, the jury found Hologic liable for direct and indirect infringement
17 and awarded Conceptus \$18,807,241 in damages. Hologic now moves for judgment as a matter
18 of law for lack of enablement and for no indirect infringement, and for a new trial (Dkt. Nos. 494,
19 495).

20 ANALYSIS

21 Judgment as a matter of law may be granted against a party if it "has been fully heard on
22 an issue and there is no legally sufficient evidentiary basis for a reasonable jury to find for that
23 party on that issue." Rule 50(a). "Judgment as a matter of law may be granted only where, so
24 viewed, the evidence permits only one reasonable conclusion, and that conclusion is contrary to
25 the jury's verdict." *Wallace v. City of San Diego*, 479 F.3d 616, 624 (9th Cir. 2007).

26 "A district court may order a new trial based on insufficient evidence only if it finds that
27 the jury's verdict is against the great weight of the evidence, or it is quite clear that the jury has
28 reached a seriously erroneous result." *Ace v. Aetna Life Ins. Co.*, 139 F.3d 1241, 1248 (9th Cir.
1998).

The final charge to the jury was and remains the complete statement of the law governing
the trial issues unless a timely and proper objection to the instructions was made and the Court
now agrees that the objection has merit. The post-trial motions under Rule 50 must be evaluated,

1 therefore, in light of that statement of the law and not in light of new citations, new legal theories
2 and/or legal variations. Rule 50 is not an occasion for yet another round of summary judgment
3 based on new slants on the case law. Of course, an appellate court might later find that an
4 objection to an instruction was preserved, well-taken and not harmless and so require a new trial.
5 But until then, this Court is satisfied that the jury instructions were proper and both sides are
6 bound by the jury instructions as the exclusive statement of the governing law for the instant
7 action.

8 **1. ENABLEMENT.**

9 To be enabling, as the jury was instructed, the specification of a patent must teach those
10 skilled in the art how to make and use the full scope of the claimed invention without undue
11 experimentation. The purpose of the enablement requirement is to make sure that a patent
12 specification and figures, as originally filed, disclosed how to practice the full invention in return
13 for the limited monopoly granted by the government to the inventor. The question of whether a
14 patent is enabling is judged as of the date the original application for the patent was first filed. It
15 is presumed that all relevant prior art was already known to those practicing in the field (Dkt. No.
16 475 [jury instructions] at ¶ 42).

17 In determining whether excessive experimentation would have been required, the
18 following factors may be considered: (1) the scope of the claimed invention; (2) the amount of
19 guidance presented in the patent; (3) the amount of experimentation necessary; (4) the time and
20 cost of any necessary experimentation; (5) how routine any necessary experimentation was in the
21 field; (6) whether the patent disclosed specific working examples of the claimed invention; (7) the
22 nature and predictability of experimentation and variations of the field; and (8) the level of
23 ordinary skill in the field (*id.* at ¶ 44). With respect to the first factor, the scope of the claimed
24 invention, a patentee who chooses broad claim language must make sure the broad claims are
25 fully enabled. The scope of the claims must be less than or equal to the scope of the enablement
26 to ensure that public knowledge is enriched by the patent specification to a degree at least
27 commensurate with the scope of the claims. Put differently, the narrower the claims, the easier it
28 is to sustain enablement (*id.* at ¶ 45).

1 By analogy, suppose that an inventor created a particular method for fuel efficiency and
2 described the method in such detail in the specification that a person of ordinary skill in the art
3 would be able to achieve fuel efficiency. Although the specification would meet the requirements
4 of enablement with respect to a claim directed to that particular method, it would not necessarily
5 support a broad claim to every possible type of method to achieve fuel efficiency no matter how
6 different in operation from the claimed invention. A single embodiment would support such a
7 generic claim only if the specification would enable a person skilled in the art to use the full
8 scope of the claimed invention at the time of application without undue experimentation (*id.* at ¶
9 46). The appendix includes the full jury instructions on enablement.

10 In its motion, Hologic proceeds as if issues of law were not determined for the jury in the
11 instructions. Hologic seeks to conduct a de novo and post hoc inquiry into the legal standard of
12 enablement. The jury instructions were proper and Hologic acquiesced to those instructions (*see*
13 Tr. 1324:19–1328:10).

14 **A. Use of Radiofrequency Energy Was Enabled.**

15 Hologic argues that the '361 patent specification did not give “guidance as to the
16 parameters that could be employed in order to use energy to permanently affix a device in the
17 fallopian tube” (Reply Br. 1). True, there were no examples of radiofrequency use and no
18 disclosure of parameter settings for use in the specification. Conceptus argues, however, that
19 testimony and evidence at trial sufficiently established that these omissions could have been filled
20 in by the knowledge of one skilled in the art without undue experimentation (*see* Tr.
21 1415:8–1439:10).¹ This order agrees.

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27 ¹In its opposition, Conceptus also argues that Hologic’s generic objection on
28 enablement was nonspecific and therefore Hologic waived its enablement objection on
radiofrequency energy. This order disagrees. The pre-verdict objection together with other
trial filings were specific enough to notify Conceptus that Hologic’s post-verdict Rule 50
motion would challenge whether the use of radiofrequency energy was enabled.

1 The specification described one embodiment of the invention as using an electrical current
2 to attach the device to the surrounding luminal wall (col. 3:52–62). For example, the
3 specification contained the following:

4 In some embodiments, electrosurgical attachment of an intraluminal device to a
5 surrounding luminal wall may provide effective anchoring even without loops and other
6 anchoring structures. Electrical current may also be used to decouple the intrafallopian
7 device from the delivery system, typically by electrolytically dissolving a solder bond.
8 Current may also actuate an anchor, such as by releasing a resilient radially expandable
9 tubular structure within the fallopian tube.

10 * * *

11 Alternatively, an electrical current is applied to the device after it is positioned within the
12 fallopian tube, providing permanent sterilization. Electrical current might also effect
13 detachment of the device from the delivery system using a system similar to that described
14 in U.S. Pat. No. 5,624,449, the full disclosure of which is incorporated herein by
15 reference. In situ actuation of an anchor might be effected by releasing a resilient structure
16 to expand in situ with a similar mechanism, or by a current induced phase change of a
17 shape memory alloy (for example, causing a straight Nitinol® ribbon to curl within the
18 fallopian tube with a current)

19 * * *

20 The present invention further encompasses permanent sterilization by passing a current
21 through the corewire to the intrafallopian device prior to withdrawing the corewire.
22 Fallopian tube tissue in contact with the intrafallopian device is desiccated, and thus
23 attached to the present intrafallopian device. This action also causes permanent tubal
24 damage, leading to the formation of scar tissue which encapsulates the intrafallopian
25 device and causes permanent occlusion of the tubal lumen. Clearly, the corewire/primary
26 coil interradiofrequencyace must be conductive to allow the present non-surgical method
27 of permanent sterilization.

28 * * *

19 In some embodiments, corewire will be capable of transmitting heat, electrical current,
20 and/or some other energy which induces scarring, electrocautery, or the like, so as to
21 attach the contraceptive device within the fallopian tube. Alternatively, the transmitted
22 energy may decouple the device from the corewire, for example, by melting a coupler.

23 (col. 3:52–62, 8:62–9:6, 11:8–18, 12:58–64). The '361 patent also referenced the Vancaille
24 patent, which provided more details of how to apply energy to promote tissue ingrowth in
25 fallopian tubes: “bipolar coagulation current of approximately 5 watts for a duration between 5
26 and 15 seconds is sufficient to produce irreversible but shallow thermal damage of the tubal
27 mucosa” (TX 197 at 3:10–14).

28 Conceptus’s expert Dr. John Webster testified that one skilled in the art would have been
able to use radiofrequency energy as an embodiment of the invention based on the specification

1 without undue experimentation. Dr. Webster testified that in September 1997, “the word
2 ‘current’ immediately [came] to one skilled in the art that they should use radio frequency
3 current” (Tr. 1428:24–1429:13). In addition, Dr. Webster testified that references to
4 electrosurgery, electrocautery, dessicated, electric current, electrode in the specification would
5 have been understood by people skilled in the art to mean methods of using radiofrequency
6 energy to promote tissue ingrowth into the resilient structure (*see, e.g.*, Tr. 1430:5–23). Dr.
7 Webster also identified other patents and patent applications incorporated by reference in the ’361
8 patent that discussed radiofrequency energy use (Tr. 1430:24–1433:13).

9 Dr. Webster testified that one skilled in the art would have known how to find the right
10 level of radiofrequency energy to apply to the fallopian tubes based on the specification’s
11 description to use an “electrosurgical attachment to produce current to actuate an anchor and
12 damage the surround tissue to promote tissue ingrowth” (Tr. 1429:15–24). That is, although the
13 specification did not describe what power level, duration, or wave form should be used,
14 Dr. Webster testified that the experimentation necessary to use radiofrequency energy would not
15 be undue at the time of the patent application. He testified that one skilled in the art would have
16 known to use the “Goldilocks” approach to determine the parameters of radiofrequency energy
17 use (Tr. 1432:19–1433:7). Dr. Webster described the approach as follows: “I think in all ablation
18 work done by everyone, there’s a routine method that you follow. You start low, and you find
19 you haven’t heated it up enough. And then you go up high and you find you heated it too much,
20 that you’ve charred the tissue, or something you don’t want to do. And so you try a series of
21 levels in between those two limits until you find the optimal level for application”
22 (Tr. 1418:9–15). To support his testimony, Dr. Webster showed the jury a number of prior art
23 publications discussing radiofrequency use on tissue (Tr. 1420:6–1425:9).

24 There was also evidence at trial on how to set up the necessary testing. Dr. Webster
25 explained how one skilled in the art could have slightly modified ablation generators to generate
26 the correct radiofrequency energy to practice the claims (Tr. 1433:15–1434:22). He also
27 discussed resources available to guide one skilled in the art on how to do this
28 (Tr. 1434:23–1439:10; TX 212, 215, 216, 222, 224).

1 Dr. Webster testified that it would take approximately four months to perform the
2 necessary testing to use radiofrequency energy to promote tissue ingrowth in fallopian tubes, and
3 that this amount of time and experimentation was not undue (Tr. 1438:4–21, 1473:13–1474:15).
4 True, this admission possibly bespeaks more than undue experimentation, but given the
5 presumption of validity, the clear and convincing standard, and the other trial evidence, it cannot
6 be said as a matter of law that the jury got it wrong, given the deference we must accord jury
7 verdicts. *See AK Steel Corp. v. Sollac and Ugine*, 344 F.3d 1234, 1238–39 (Fed. Cir. 2003). The
8 jury’s decision was supported by substantial evidence. However, this could be one where the
9 Federal Circuit has a different view.

10 To sum up, the specification, supplemented with evidence about one skilled in the art,
11 provided a sufficient basis to conclude that the following *Wands* factors weighed in favor of
12 enablement: quantity of experimentation, amount of direction or guidance presented, the nature
13 of the invention, the state of the prior art, the relative skill of those in the art, and the
14 predictability of the art. The evidence was sufficient to support the jury’s finding of enablement.
15 Hologic has not met its burden of showing by clear and convincing evidence that the patent
16 claims were not enabled and a jury could not have reasonably found enablement.

17 Hologic asserts that the jury’s finding was contrary to *Automotive Technologies Intern.,*
18 *Inc. v. BMW of North America, Inc.*, 501 F.3d 1274 (Fed. Cir. 2007). Even taking Hologic’s new
19 legal arguments into account, this order finds them unpersuasive and *Automotive Technologies*
20 consistent with this holding. In *Automotive Technologies*, the technology at issue involved side-
21 door crash-sensing devices. The patentee argued for, and district court agreed, that the patent
22 claimed not only mechanical switch assemblies, but also electronic switch assemblies to serve as
23 a sensing device. Subsequently, the district court found that an electronic switch assembly was
24 not enabled. The Federal Circuit reviewed de novo and affirmed.

25 In *Automotive Technologies*, the specification stated that an electronic sensor assembly
26 could be used to sense side impacts. The specification contained a figure of an electronic sensor
27 with the accompanying text:

28 [The figure] is a conceptional view of an electronic sensor assembly built according to the
teachings of this invention. This sensor contains a sensing mass which moves relative to

1 housing in response to the acceleration of housing which accompanies a side impact crash.
2 The motion of the sensing mass can be sensed by a variety of technologies using, for
3 example, optics, resistance change, capacitance change or magnetic reluctance change.
Output from the sensing circuitry can be further processed to achieve a variety of sensor
response characteristics as desired by the sensor designer.

4 The Federal Circuit held that the figure and text only provided an overview of an electronic
5 sensor without providing any details of how the electronic sensor operated. *Automotive*
6 *Technologies*, 501 F.3d at 1282–83. Noticeably absent was any discussion of the circuitry
7 involved in the electronic side-impact sensor that could provide more detail on how the sensor
8 operated. *Id.* at 1283.

9 The patentee contended that electronic sensors, albeit for sensing *frontal* impacts, were
10 widely known at the time of filing and therefore there was no need for the specification to
11 describe them in detail. *Id.* at 1281. Its expert testified that one skilled in the art would have
12 known how to adapt then-existing technology to create an electronic side-impact sensor. The
13 patentee argued that this testimony created a genuine issue of material fact. The court, however,
14 found that the expert’s testimony failed to discuss what types of tests would have been needed to
15 adapt existing electronic sensors for side-impact sensing, and the testimony did not provide any
16 detail on how to adapt the existing technology. *Id.* at 1285–86.

17 *Automotive Technologies* is distinguishable. Here, Conceptus’s expert, Dr. Webster, *did*
18 discuss what type of testing would be needed for radiofrequency energy use and how to adapt
19 then-existing ablation generators for that purpose; the Federal Circuit in *Automotive Technologies*
20 found patentee’s expert’s testimony lacking on this point. In *Automotive Technologies*, the
21 specification cautioned that the figure depicting the use of an electronic sensor was a
22 “conceptional view.” There is no similar description for using a current in the ’361 patent. In
23 *Automotive Technologies*, the Federal Circuit based its holding, in part, on the finding that “the
24 novel aspect of this invention [was] using a velocity-type sensor for side impact sensing” and that
25 “given that the novel aspect of the invention [was] side impact sensors, it [was] insufficient to
26 merely state that known technologies can be used to create an electronic sensor.” *Id.* at 1283. In
27 the instant action, the novel aspect of the ’361 patent was the intrafallopian device *and* methods
28 for affixation. The use of radiofrequency energy as a mechanism of injury was only a portion of

1 the invention, not the entire novel aspect. Therefore, it was appropriate for the jury to supplement
2 the specification on how to use radiofrequency energy with the knowledge of one skilled in
3 the art.

4 **B. The Finding of Enablement Was Not a Seriously Erroneous Result or**
5 **Against the Great Weight of the Evidence.**

6 As discussed, Conceptus presented sufficient evidence for the jury to reasonably find that
7 the claims were enabled. For the same reasons, the result was not seriously erroneous. Nor was it
8 against the great weight of evidence.

9 Hologic argues that the *Wands* factors weigh against enablement because: *first*, the claims
10 were broad because Conceptus prevailed on three phrases during claim construction (Br. 5–6);
11 *second*, the mechanism of affixation was the novel aspect of the invention (Br. 6–7); *third*, the
12 application of energy to tissue had inherent risks (Br. 7); *fourth*, there was no disclosure of power
13 level, duration, and wave form in the specification (Br. 8–9); *fifth*, Conceptus did not conduct
14 experiments using radiofrequency energy (Br. 9); *sixth*, Conceptus did not demonstrate that the
15 Vancaillie patent was in common knowledge (Br. 13); *seventh*, Dr. Vancaillie and Hologic had
16 taken years to develop the Aadiana system (*ibid.*); and *eighth*, Dr. Webster’s description of how to
17 test radiofrequency energy use required undue experimentation because the project would have
18 taken four months under the best estimate, eight months if there were normal problems, and ten
19 years under the worst case scenario (Tr. 1460:6–1464:14).

20 The evidence against enablement did not greatly outweigh the jury’s finding: *First*, the
21 fact that Conceptus prevailed at claim construction did not necessarily mean that the patent claims
22 were broader than the specification. *Second*, as discussed above, the novel aspect of the patent
23 was the entire system of intrafallopian occlusion, including the device and the mechanism for
24 stimulating tissue ingrowth; radiofrequency energy only dealt with the mechanism of affixation.
25 *Third*, Conceptus did not have to demonstrate that the Vancaillie patent prior art was in the
26 common knowledge of one skilled in the art (Dkt. No. 475 at ¶ 42). *Fourth*, the inherent risks of
27 energy ablation and lack of parameter settings in the specification did not necessarily mean that it
28 would take undue experimentation to use radiofrequency energy. Dr. Webster testified that
testing was necessary to calculate the proper parameters and concluded that this testing did not

1 constitute undue experimentation. Dr. Webster also said that testing could be finished in four
2 months, and perhaps finished in eight months if “normal troubles” arise (Tr. 1460:6–1464:14); the
3 jury could have reasonably relied on that testimony. The *Wands* factors did not greatly weigh in
4 favor of non-enablement. To sum up, the jury’s finding of enablement was not against the great
5 weight of the evidence.

6 **2. INDIRECT INFRINGEMENT.**

7 The jury found that Hologic either contributed to or induced infringement (Dkt. No. 478).
8 Thus, the jury’s verdict must stand if substantial evidence supported either finding. *See McCord*
9 *v. Maguire*, 873 F.2d 1271, 1273–74 (9th Cir. 1989).

10 The jury was instructed that induced infringement requires three elements: (1) that
11 Hologic intentionally took action that actually induced direct infringement by doctors; (2) that
12 Hologic knew of the ’361 patent; and (3) that Hologic knew its action would cause direct
13 infringement by the doctor (Dkt. No. 475 at ¶ 26). Contributory infringement, it was instructed,
14 requires the following four elements: (1) that the asserted claims were directly infringed by
15 doctors performing the Adiana procedure; (2) that Hologic supplied an important component of
16 the infringing part of the procedure; (3) that the component had no substantial non-infringing use;
17 and (4) that Hologic supplied the component with knowledge of the ’361 patent and knowledge
18 that the component was especially made or adapted for use in an infringing manner (*id.* at ¶ 27).

19 At the charging conference, Hologic objected to a phrase in the draft jury instructions:
20 “Regarding the knowledge component, Conceptus need not prove that Hologic specifically
21 intended to infringe the asserted claims” (Tr. 1123:6–1143:12). Hologic cited *Global-Tech*
22 *Appliances, Inc., v. SEB S.A.*, 131 S.Ct. 2060, 2068-71 (2011), for the legal argument that indirect
23 infringement required specific intent of infringement. The judge suggested to take out that phrase
24 in both inducement and contributory infringement instructions. Hologic agreed (Tr. 1129:9–10,
25 1142:18). The finalized jury instructions did not contain that phrase (Dkt. No. 475 at ¶ 26, 27).
26 Hologic, therefore, acquiesced in the final instructions on indirect infringement.

27 In its motion, Hologic again proceeds as if issues of law were not determined by the
28 instructions. Hologic again raises *Global-Tech Appliances* to argue that specific intent is required

1 for indirect infringement. This order is unpersuaded by Hologic's argument and stands by the
2 knowledge requirement as set forth in the jury instructions, which Hologic acquiesced in at trial.
3 Even taking Hologic's new legal arguments into account, the finding of indirect infringement was
4 substantiated and not against the great weight of the evidence.

5 **A. Sufficient Facts to Support Finding of Indirect Infringement.**

6 Hologic admits there was sufficient evidence to show that it knew of the '361 patent when
7 it began selling the Aadiana system, knew the manner in which the Aadiana system operated, and
8 knew the Aadiana system was accused of infringement by Conceptus (Reply Br. 11). Hologic,
9 however, argues that this knowledge is insufficient because indirect infringement requires that the
10 accused infringer specifically intended to infringe (*see* Reply Br. 2). Hologic is implicitly
11 arguing that to show indirect infringement, there must be direct evidence that the accused
12 infringer conducted an infringement analysis, knew that there was infringement based on that
13 analysis, and continued its infringing acts (*see* Br. 17–18). Hologic is mistaken; circumstantial
14 evidence of intent will suffice. *Ricoh Co., Ltd. v. Quanta Computer Inc.*, 550 F.3d 1325, 1342
15 (Fed. Cir. 2008) (“Specific intent may be inferred from circumstantial evidence where a
16 defendant has both knowledge of the patent and specific intent to cause the acts constituting
17 infringement.”).

18 At trial, Hologic admitted that it received notice of the patent-in-suit before this action
19 was filed (Tr. 1011:6–9). Hologic admitted that it specifically considered whether the Aadiana
20 system practiced the claims of the '361 patent before launching their products
21 (Tr. 1032:11–1033:14). And Hologic admitted that it sold the Aadiana system before receiving its
22 patent attorney's opinion letter that the '361 patent was likely invalid (Tr. 1034:1–12). This
23 evidence was certainly enough to satisfy the elements of indirect infringement as laid out in the
24 jury instructions. And this was sufficient circumstantial evidence of specific intent under
25 Hologic's interpretation of the law.

26 **B. Finding of Indirect Infringement Was Not Against the Great Weight of**
27 **the Evidence.**

28 In its motion, Hologic argues that because its executives and patent counsel believed the
'361 patent was invalid and not infringed, there was insufficient evidence to show intent or

1 knowledge of infringement (Br. 20–21; Tr. 942:15–943:4, 1033:7–14, 1090:19–25,
2 1095:13–1096:3). Stated another way, Hologic argues that its good faith belief of non-
3 infringement precluded a finding of indirect infringement (Br. 23). Also related to establishing
4 good faith belief, Hologic argues that this Court “must consider” now the preliminary injunction
5 ruling that was excluded at trial (*see* Br. 24–25).

6 The jury’s finding of indirect infringement was not against the great weight of the
7 evidence. The jury could have disbelieved Hologic’s pure-heart, empty-head explanation. The
8 jury could have found that the opinions of patent counsel were unreliable or biased. For example,
9 the first opinion letter by attorney David Crocket did not include an analysis of the patent file
10 history and failed to undertake an anticipatory analysis of the claims asserted at trial (TX 744 at
11 107862; Tr. 1012:18–1013:16). The second opinion letter by attorney David Burse was given to
12 defendant *after* sale of the Adriana device began (Tr. 1033:19–1034:21). Mr. Burse knew that his
13 client had spent significant resources to research and develop the Adiana system and would have
14 been disappointed if the system was infringing (Tr. 1091:11–1092:21). The jury may have found
15 Mr. Burse’s opinion biased. The jury also learned that Mr. Burse lacked important facts
16 regarding hysterosalpingogram testing with the Adiana system, which would have suggested that
17 the Adiana system operated in an infringing manner (Tr. 1102:16–1103:5). Finally, the jury
18 could have concluded that Hologic’s reliance on the opinions of counsel was not reasonable. The
19 jury’s finding of indirect infringement was not against the great weight of the evidence.

20 **3. DIRECT INFRINGEMENT.**

21 **A. Hologic Preserved Its *Daubert* Objections.**

22 Hologic argues that the finding of direct infringement was against the great weight of the
23 evidence because the jury should not have accepted the unreliable testimony of Conceptus’s
24 infringement expert, Dr. Mark Glasser (Br. 1). In response, Conceptus argues that Hologic failed
25 to preserve any objections to Dr. Glasser’s testimony (Opp. 3).

26 “[W]here the substance of an objection has been thoroughly explored and the trial court’s
27 ruling [on a motion in limine] was explicit and definitive, the issue is preserved for appeal.” *U.S.*
28 *v. Pablo Varela-Rivera*, 279 F.3d 1174, 1177 (9th Cir. 2002).

1 Hologic's pretrial motion in limine number one sought to exclude Dr. Glasser's testimony
2 as unreliable. The motion was denied on the record and in a written order (Dkt. No. 433; Dkt.
3 No. 429 at 12:19-13:2). Hologic sufficiently preserved its objections to Dr. Glasser's testimony.

4 **B. Finding of Direct Infringement Was Not Seriously Erroneous or**
5 **Against the Great Weight of the Evidence.**

6 Hologic argues that the finding of direct infringement was against the great weight of the
7 evidence because the jury improperly relied on Dr. Glasser's unreliable testimony (Br. 1).
8 Specifically, Hologic argues that Dr. Glasser's testimony that the accused device performed the
9 step of "permanently affixing the resilient structure . . . so that at least a portion of the
10 fallopian tube is open" was unreliable under *Daubert (ibid.)*. Hologic advanced a similar
11 argument in its motion for summary judgment and motion in limine to exclude Dr. Glasser's
12 testimony (*see* Dkt. No. 356 at 12; Dkt. No. 385). The order denying summary judgment held
13 that when permanent affixation occurred was a question of medical fact on which reasonable
14 jurors could disagree (Dkt. No. 356 at 12).

15 Hologic argues that Dr. Glasser's testimony was not reliable because his opinion on
16 "permanent affixation" did not clearly define the standard to apply for the limitation, was not
17 supported by peer-reviewed articles, and was not based on testing (Br. 9-13). This order
18 disagrees. Hologic would have required Dr. Glass do the impossible and unnecessary. The task
19 was impossible because there were no scientific journals devoted to the study of permanent
20 affixation, and science had not come up with a method for determining permanent affixation. The
21 task was unnecessary because Dr. Glasser did not need to pinpoint the precise moment of
22 permanent affixation to help the jury on the issue of direct infringement. To find direct
23 infringement, the jury only needed to rely on evidence showing that the Adiana device was
24 permanently affixed *before* complete occlusion of the fallopian tube occurred.

25 Dr. Glasser's testimony was reliable and helpful to the jury. Dr. Glasser defined
26 "permanent affixation" as when the Adiana matrix was held within the tube lumen by tissue
27 ingrowth (Tr. 517:9-12). Dr. Glasser explained that the onset of tissue ingrowth, which
28 permanently affixed the device, began in approximately one week, was variable by patient, and
could not be determined with precision (*see, e.g.,* Tr. 597:24-599:15; 613:8-614:19; 616:2-12;

1 633:6–634:7). Dr. Glasser based his estimate, in part, on his personal experience using the
2 Adiana system and ultrasound visibility of tissue ingrowth (Tr. 618:14–19; 636:9–637:7).
3 Hologic’s own stipulation to the FDA supported this estimate (*see, e.g.*, Tr. 662:22–663:2).

4 Dr. Glasser testified and presented evidence that complete occlusion occurred months
5 after ingrowth maintains the matrix position in the tubal lumen (*see, e.g.*, TX 9 at 104858; TX 25
6 at 67832; Tr. 1185:20–1191:2). Hologic’s own instructions for using the Adiana system
7 suggested that complete occlusion occurred over time as tissue ingrowth progressed (Tr.
8 661:13–662:15; Tr. 1183:18–1184:16; TX 9 at 104858). The hysterosalpingogram and
9 ultrasound results from the Adiana clinical trials showed that there were no reported expulsions of
10 the Adiana matrix despite the fact that women had open fallopian tubes for months after the
11 procedure and while tissue ingrowth was proceeding (Tr. 516:3–24; 640:20–641:17; 642:2–24).

12 In addition to Dr. Glasser’s opinion, Hologic’s own presentation to the FDA explaining
13 the mechanism of Adiana showed that permanent affixation occurred before complete occlusion:
14 “we observed a normal biomaterial response, which leads to fibrous integration of the Adiana
15 implant in the tube, *which, in turn, results* in tubal occlusion we are confident that the
16 Adiana device results in permanent integration of the device within the tissue, *leading to* tubal
17 occlusion” (Tx 56 at 4797–800) (emphasis added). In turn, the FDA itself noted a difference in
18 the timing of matrix fixation and total occlusion: “[O]n [ultrasound], 598/604 subjects had
19 devices visualized bilaterally. From the HSG results, however, we know that 551/604 had
20 confirmed occlusion. Therefore, [ultrasound] should not be the sole basis for assessing the
21 likelihood of tubal occlusion for the purposes of relying on the Adiana System for contraception”
22 (TX 25 at 67831; *see also* Tr. 1185:20–1188:22).

23 To sum up, there was more than enough evidence to show that Adiana met the claim
24 limitation because permanent affixation occurred before complete occlusion.

25 At trial, Hologic’s position was that permanent affixation of the Adiana matrix only
26 occurred when tissue ingrowth was complete and the risk of expulsions and migrations were
27 eliminated, which only happened upon complete occlusion of the fallopian tube (Br. 2). The
28 Court, however, did not construe the term “permanent affixation” to require complete tissue

1 ingrowth and zero risk of expulsion and migration. The jury could have, and likely did, reject
2 Hologic's definition of permanent affixation.

3 The jury could have discounted Hologic's evidence at trial. Hologic presented to the jury
4 its "epithelial race mechanism" explanation for why permanent affixation occurred only at the
5 time of complete occlusion. The "epithelial race mechanism" theory explained that the delivery
6 of radiofrequency energy removed the epithelium, an aggressive tissue, whose growth would act
7 to keep the fallopian tube open (Tr. 875:25–878:1). New tissue grew into the pores of the matrix
8 and all the way around it and eventually the epithelium growth would meet the ends of the healed
9 tissue and form cul-de-sacs. Hologic explained that it was only when those cul-de-sacs formed
10 that one could be certain that the risk of migrations or expulsions was eliminated and thus that
11 permanent affixation had occurred (*see* Tr. 875:25–878:1, 883:13–24, 935:20–936:2, 1174:1–20).
12 The jury could have discounted this explanation of permanent affixation because the opinions
13 were proffered by Mr. Harrington, who was not a physician and not a disclosed expert, but had a
14 direct and substantial financial stake in the outcome of the case (Tr. 1016:13–1018:8).

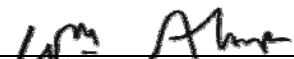
15 The jury's finding of direct infringement was not seriously erroneous or against the great
16 weight of the evidence.

17 CONCLUSION

18 For the reasons stated above, motions for judgment as a matter of law and new trial are
19 **DENIED.**

20
21
22 **IT IS SO ORDERED.**

23
24 Dated: January 9, 2012.

25 
26 WILLIAM ALSUP
27 UNITED STATES DISTRICT JUDGE
28