

United States District Court  
For the Northern District of California

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UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF CALIFORNIA  
SAN JOSE DIVISION

APPLE, INC., a California corporation,	)	Case No.: 12-CV-00630-LHK
	)	
Plaintiff and Counterdefendant,	)	ORDER GRANTING IN PART AND
	)	DENYING IN PART SAMSUNG’S
v.	)	MOTION FOR JUDGMENT AS A
	)	MATTER OF LAW
SAMSUNG ELECTRONICS CO., LTD., a	)	
Korean corporation; SAMSUNG	)	
ELECTRONICS AMERICA, INC., a New York	)	
corporation; and SAMSUNG	)	
TELECOMMUNICATIONS AMERICA, LLC,	)	
a Delaware limited liability company,	)	
	)	
Defendants and Counterclaimants.	)	
	)	

On May 5, 2014, after a thirteen-day trial and approximately four days of deliberation, a jury in this patent case reached a verdict. ECF No. 1884. On May 23, 2014, Samsung filed a motion for judgment as a matter of law and motion to amend the judgment. ECF No. 1896-3 (“Mot.”). On June 6, 2014, Apple filed an opposition. ECF No. 1908-3 (“Opp’n”). On June 13, 2014, Samsung filed a reply. ECF No. 1917 (“Reply”). The Court held a hearing on July 10, 2014. Having considered the law, the record, and the parties’ argument, the Court GRANTS Samsung’s motion for judgment as a matter of law that Samsung did not willfully infringe the ’721 patent and DENIES Samsung’s motion in all other respects.

1       **I.       LEGAL STANDARD**

2               Federal Rule of Civil Procedure 50 permits a district court to grant judgment as a matter of  
3 law “when the evidence permits only one reasonable conclusion and the conclusion is contrary to  
4 that reached by the jury.” *Ostad v. Or. Health Scis. Univ.*, 327 F.3d 876, 881 (9th Cir. 2003). A  
5 party seeking judgment as a matter of law after a jury verdict must show that the verdict is not  
6 supported by “substantial evidence,” meaning “relevant evidence that a reasonable mind would  
7 accept as adequate to support a conclusion.” *Callicrate v. Wadsworth Mfg., Inc.*, 427 F.3d 1361,  
8 1366 (Fed. Cir. 2005) (citing *Gillette v. Delmore*, 979 F.2d 1342, 1346 (9th Cir. 1992)). The Court  
9 must “view the evidence in the light most favorable to the nonmoving party . . . and draw all  
10 reasonable inferences in that party’s favor.” *See E.E.O.C. v. Go Daddy Software, Inc.*, 581 F.3d  
11 951, 961 (9th Cir. 2009) (internal quotations and citations omitted).

12               A new trial is appropriate under Rule 59 “only if the jury verdict is contrary to the clear  
13 weight of the evidence.” *DSPT Int’l, Inc. v. Nahum*, 624 F.3d 1213, 1218 (9th Cir. 2010). A court  
14 should grant a new trial where necessary “to prevent a miscarriage of justice.” *Molski v. M.J.*  
15 *Cable, Inc.*, 481 F.3d 724, 729 (9th Cir. 2007).

16       **II.       ANALYSIS**

17               **A.       Non-infringement of Claim 9 of the ’647 Patent**

18               The ’647 patent is directed to a “system and method for performing an action on a structure  
19 in computer-generated data.” The ’647 patent generally covers a computer-based system and  
20 method for detecting structures, such as phone numbers, post-office addresses, or dates, and  
21 performing actions on the detected structures. *See* ’647 Patent Abstract, col.1 ll.8-16. Apple  
22 asserted claim 9 of the ’647 patent against Samsung. Claim 9 depends from claim 1 and recites:

- 23               1. A computer-based system for detecting structures in data and performing actions  
24               on detected structures, comprising:  
25               an input device for receiving data;  
26               an output device for presenting the data;  
27               a memory storing information including program routines including  
28               an analyzer server for detecting structures in the data, and for linking actions  
                  to the detected structures;  
                  a user interface enabling the selection of a detected structure and a linked  
                  action; and

1 an action processor for performing the selected action linked to the selected  
2 structure; and  
3 a processing unit coupled to the input device, the output device, and the memory for  
4 controlling the execution of the program routines.

5 9. The system recited in claim 1, wherein the user interface enables selection of an  
6 action by causing the output device to display a pop-up menu of the linked  
7 actions.

8 '647 Patent cls. 1, 9. The jury found that all nine accused Samsung products infringe, and awarded  
9 damages. *See* ECF No. 1884 at 9. Samsung now moves for judgment as a matter of law that claim  
10 9 is not infringed and is invalid in light of prior art. The Court addresses non-infringement and  
11 invalidity in turn.

12 As to non-infringement, Samsung contends that Apple presented its case under incorrect  
13 claim constructions that the Federal Circuit rejected shortly before the close of trial, in *Apple, Inc.*  
14 *v. Motorola, Inc.*, 757 F.3d 1286 (Fed. Cir. 2014) (“*Motorola*”), and that Apple failed to  
15 demonstrate infringement of at least three limitations of claim 9, as properly construed. The Court  
16 concludes that substantial evidence supports the jury’s finding of infringement, and accordingly  
17 DENIES Samsung’s motion.

18 “To prove infringement, the plaintiff bears the burden of proof to show the presence of  
19 every element or its equivalent in the accused device.” *Uniloc USA, Inc. v. Microsoft Corp.*, 632  
20 F.3d 1292, 1301 (Fed. Cir. 2011). “If any claim limitation is absent from the accused device, there  
21 is no literal infringement as a matter of law.” *Bayer AG v. Elan Pharm. Research Corp.*, 212 F.3d  
22 1241, 1247 (Fed. Cir. 2000).

### 23 1. Claim Construction

24 Samsung argues extensively that Apple presented an infringement case based on the wrong  
25 claim constructions. Samsung contends that Apple “shot for the moon” by relying on broad  
26 constructions of “analyzer server” and “linking actions,” and that the Federal Circuit’s opinion in  
27 *Motorola* rendered most of Apple’s case ineffective. *See* Mot. at 1-8.

28 Samsung’s arguments at this stage are misdirected to the extent they do not address the  
merits of Apple’s infringement case—namely, the evidence and claim language at issue. During  
trial, the Court specifically addressed the effect of the *Motorola* decision with input from the

1 parties, and allowed both Apple and Samsung to present supplemental expert testimony before  
2 submitting the case to the jury. Accordingly, the verdict must be evaluated against the evidence  
3 presented, not the parties' procedural disputes regarding *Motorola*.

4 On March 19, 2012, in the *Motorola* litigation, the Northern District of Illinois construed  
5 the terms "analyzer server" and "linking actions to the detected structures" in the '647 patent. *See*  
6 *Apple, Inc. v. Motorola, Inc.*, No. 11-CV-08540, slip op. at 8-11 (N.D. Ill. Mar. 19, 2012). On July  
7 20, 2012, the parties to the *Motorola* litigation appealed these constructions to the Federal Circuit.  
8 Meanwhile, in the instant case, this Court held a claim construction hearing on February 21, 2013  
9 and issued a claim construction order on April 10, 2013. *See* ECF No. 447. The parties requested  
10 and received construction of only one term in the '647 patent, "action processor." *See id.* at 64.

11 However, since claim construction proceedings concluded, both parties have attempted to  
12 seek untimely constructions of the '647 patent. In its summary judgment motion, Apple sought  
13 belated constructions for "analyzer server" and "linking actions," ECF No. 803-4 at 5 n.6, but the  
14 Court found that "Apple's attempt to argue for a new claim construction at this stage is doubly  
15 improper, both because it did not raise its arguments at the claim construction stage and because  
16 Apple is trying to sidestep the summary judgment page limitations by incorporating legal  
17 arguments in a separate declaration," ECF No. 1151 at 17. On March 27, 2014, only days before  
18 the start of trial, Samsung filed a request to supplement the jury books with the Northern District of  
19 Illinois's constructions of "analyzer server" and "linking actions" that were then awaiting review  
20 by the Federal Circuit in *Motorola*. ECF No. 1521. The Court denied Samsung's request. ECF No.  
21 1536. The case then proceeded to trial.

22 On April 25, 2014, which was the last scheduled day of evidence at trial, the Federal Circuit  
23 issued its decision in *Motorola*. The Federal Circuit affirmed the Northern District of Illinois's  
24 following constructions of "analyzer server" and "linking actions" from the '647 patent, and  
25 rejected Apple's arguments to alter those constructions:

26 "analyzer server": "a server routine separate from a client that receives data having  
27 structures from the client."

1 “linking actions to the detected structures”: “creating a specified connection  
2 between each detected structure and at least one computer subroutine that causes the  
CPU to perform a sequence of operations on that detected structure.”

3 *Motorola*, 757 F.3d at 1304-07. In response to this sudden development, the Court allowed the  
4 parties to address the effect of *Motorola* on the trial, after which the parties agreed to extend the  
5 trial and present additional testimony from their respective experts on ’647 patent infringement and  
6 validity. *See* Tr. at 2988:4-3003:20; ECF Nos. 1828, 1845. The Court also provided the *Motorola*  
7 constructions to the jury. *See id.* at 3014:16-24.

8 Before and during trial, the parties relied on expert opinions regarding infringement and  
9 validity of the ’647 patent from Dr. Todd Mowry (Apple) and Dr. Kevin Jeffay (Samsung). Apple  
10 now asserts that Samsung waived any challenges to Dr. Mowry’s testimony based on the *Motorola*  
11 constructions because Samsung did not raise these issues in its pre-verdict Rule 50(a) motion.  
12 Opp’n at 3. Apple’s objection is misplaced. Apple does not identify which specific non-  
13 infringement arguments Samsung allegedly waived. Samsung addressed the sufficiency of  
14 Dr. Mowry’s testimony during oral arguments for Rule 50(a) motions at the close of the evidence.  
15 *E.g.*, Tr. at 3114:20-3115:4 (referring to Dr. Mowry’s opinions).

16 Samsung claims that Apple’s infringement case and Dr. Mowry’s testimony before the  
17 issuance of *Motorola* relied on the claim constructions that the Federal Circuit rejected. However,  
18 the time for these arguments has passed, as the parties decided to permit additional evidence to  
19 address the *Motorola* constructions. Moreover, the Court notes that when trial resumed on April  
20 28, 2014, Samsung attempted to have Dr. Jeffay testify misleadingly that he had used the *Motorola*  
21 constructions “since the very first day I worked on this case.” *Id.* at 3055:2-6. In fact, in his expert  
22 reports, Dr. Jeffay did not offer opinions on which claim constructions were correct. *See, e.g.*, ECF  
23 No. 882-11 (Jeffay Rebuttal Report) ¶¶ 120-28; Tr. at 3060:14-3064:21. Dr. Jeffay also testified at  
24 deposition that he had not taken positions on the *Motorola* constructions. *E.g., id.* at 3067:8-14  
25 (quoting Jeffay deposition: “So sitting here today, based on all the information you’ve seen, do you  
26 have an opinion as to what the proper construction of analyzer server is as it appears in claim 1?  
27 Answer: No.”); *see also id.* at 3056:8-3077:25.

1 At this stage, the parties' prior attempts to argue claim construction are not germane.  
2 Rather, the relevant issue is whether a reasonable jury, properly instructed, could have determined  
3 from the evidence presented that Samsung's accused products infringe claim 9 of the '647 patent.  
4 Indeed, despite raising these issues, Samsung asserts in its Reply that "pretrial and recall procedure  
5 are irrelevant here" and "the only relevant consideration is the record." Reply at 3.

6 **2. "Linking Actions" and "Specified Connection"**

7 The Federal Circuit construed the claim phrase "linking actions to the detected structures"  
8 to mean "creating a *specified connection* between each detected structure and at least one computer  
9 subroutine that causes the CPU to perform a sequence of operations on that detected structure."  
10 *Motorola*, 757 F.3d at 1305-06 (emphasis added). Samsung argues that the claimed "analyzer  
11 server" must create the "specified connection," and that no accused device can possibly infringe  
12 because the user selects an action to be linked. *See Mot.* at 9-11. However, a reasonable jury could  
13 have found infringement of this limitation.

14 Samsung presented testimony from Google engineer Dianne Hackborn, who discussed  
15 "Intents" in the Android operating system, explaining that Intents "do communications between  
16 applications or interactions between applications." Tr. at 1580:1-6. Hackborn testified that when an  
17 application wants to have a user perform an action, such as composing an e-mail, it can make an  
18 Intent "and give it to Android and then Android will find an application that can actually do that."  
19 *Id.* at 1580:7-13. Dr. Jeffay then testified that "there is no specified connection" in Android  
20 because the Intent mechanism does not bind a specific application (such as a particular e-mail  
21 client) to a structure. *Id.* at 3087:3-3089:1 ("What's not linked is the code that's ultimately going  
22 to, for example, dial the phone.").

23 However, Dr. Mowry expressed contrary opinions that the jury could have credited.  
24 Dr. Mowry's infringement theory was that the Messenger (also referred to as "Messaging" by the  
25 parties) and Browser applications in Android include a method called `setIntent()` that calls another  
26 method called `startActivity()`, which corresponds to the "at least one computer subroutine" in claim  
27 9 as construed in *Motorola*. Dr. Mowry explained that the *Motorola* construction of "linking  
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1 actions” did not change his infringement opinion, based on his review of source code for the  
2 Messenger and Browser applications in the Gingerbread, Ice Cream Sandwich, and Jelly Bean  
3 versions of Android, which he presented to the jury. *Id.* at 3026:16-3028:22. As an example, for the  
4 Gingerbread Messenger application, Dr. Mowry testified that `setIntent()` “records an intent object  
5 for a particular choice in the pop-up menu that shows you choices of linked action,” and that once  
6 the user picks an option, it necessarily calls the `startActivity()` method and passes an Intent object.  
7 *Id.* at 3027:6-23.

8 Samsung claims that there is no “specified connection” in the accused devices because  
9 there is no pre-existing link between a detected structure (such as an e-mail address) and a  
10 computer subroutine that directly performs an action (such as the Gmail application). Samsung  
11 argues that `startActivity()` is not called until the user selects an action, so it cannot be a “specified”  
12 connection. Samsung also contends that claim 9 requires “a *linked* action,” which further confirms  
13 that there must be a pre-existing link between the structure and the subroutine. *See* Mot. at 10.  
14 However, Dr. Mowry addressed this issue when he explained to the jury that `startActivity()` is  
15 “necessarily” and automatically called when a structure is detected. *See* Tr. at 3027:14-17. Also, as  
16 Apple notes, under the *Motorola* construction, the analyzer server is for “*creating* a specified  
17 connection,” such that the claimed action need not always be “linked” to a structure prior to  
18 detection of that structure. Furthermore, Dr. Jeffay admitted that `startActivity()` is a “computer  
19 subroutine that’s actually linked into the detected structures,” but claimed that no specified  
20 connection exists because claim 9 requires that “you link the actual program that performs that  
21 function,” such as dialing a phone number. *Id.* at 3090:5-20. The *Motorola* construction of “linking  
22 actions,” however, requires only that the detected structure be linked to a “computer subroutine that  
23 *causes the CPU to perform*” that function. Thus, the jury could have determined that `startActivity()`  
24 satisfies this limitation because it is admittedly a linked subroutine that causes performance of an  
25 action. While “it is well settled that an expert’s unsupported conclusion on the ultimate issue of  
26 infringement is insufficient to raise a genuine issue of material fact,” *Arthur A. Collins, Inc. v. N.*

1 *Telecom Ltd.*, 216 F.3d 1042, 1046 (Fed. Cir. 2000), that is not the situation here. The jury could  
2 have evaluated the expert testimony and reasonably determined infringement of this limitation.

3 For completeness, the Court addresses two additional arguments from Apple that are  
4 misplaced. First, Apple contends that Samsung waived its argument regarding the “linked action”  
5 limitation by not raising it in its pre-verdict Rule 50(a) motion. *See* Opp’n at 8 n.2. Samsung does  
6 not respond to this waiver argument in its Reply. However, the Court finds no waiver because  
7 Samsung argued repeatedly that no “specified connection” exists in Android. *See* Tr. at 3115:12-  
8 3117:10. Second, Apple notes that the Northern District of Illinois previously concluded in  
9 *Motorola* that infringement of “linking actions” (and other limitations) was not amenable to  
10 summary judgment. These arguments are meritless. *Motorola* involved different products and  
11 parties. Moreover, Apple asked the Court to exclude references to *Motorola* from trial because “the  
12 *Motorola* order, and any reference to rulings, findings, or other developments in cases not  
13 involving both parties to this action should be excluded.” ECF No. 1281-3 at 4. Having argued that  
14 prior orders in *Motorola* were irrelevant, Apple cannot now rely on them.

15 Even setting aside Apple’s misplaced arguments, the Court determines for the reasons  
16 above that a reasonable jury could have found infringement of the “linking actions to the detected  
17 structures” limitation.

### 18 3. “Analyzer Server”

19 The claimed “analyzer server” means “a server routine separate from a client that receives  
20 data having structures from the client.” The parties focus their dispute on whether Android includes  
21 a server routine that is “separate from a client.”

22 Apple contended that the Messenger and Browser applications contain shared libraries that  
23 correspond to the “analyzer server” limitation. *See* Tr. at 3017:17-3019:21. These shared libraries  
24 include the Linkify, Cache Builder, and Content Detector classes. *Id.* Dr. Mowry stated that  
25 Messenger and Browser are “clients” that pass data to these shared libraries to detect structures. *Id.*  
26 at 3017:9-16. Samsung claims infringement is impossible under this theory because a shared  
27 library is not “separate” from the client application. Samsung points to Ms. Hackborn’s testimony,  
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1 where she stated that Linkify “is not a server” and “does not run on its own. It runs as part of the  
2 application that’s using it.” *Id.* at 1585:9-18. Dr. Jeffay relied in part on Ms. Hackborn’s testimony  
3 to opine that shared libraries are not separate from the clients because they “become[s] part of the  
4 application.” *Id.* at 3079:17-3080:7, 3084:20-22 (“Q. So if you pull the Linkify code out of  
5 Messenger, what happens? A. Well, Messenger certainly would not run.”).

6 The Court finds that substantial evidence supports the jury’s verdict for this limitation.  
7 Dr. Mowry presented Android source code to the jury and explained that the shared libraries  
8 receive data from the Messenger and Browser applications and detect structures in that data. *See id.*  
9 at 3017:23-3018:8, 3018:24-3019:13. Dr. Mowry also directly rebutted Dr. Jeffay’s opinions  
10 regarding shared libraries, explaining that the shared libraries are stored in “a particular part of  
11 memory,” are accessible to multiple applications, and are “definitely separate from the  
12 applications.” *Id.* at 3023:3-3024:19. Dr. Mowry also acknowledged Ms. Hackborn’s testimony but  
13 stated that it did not alter his opinions on shared libraries. *See id.* at 3025:12-25, 3052:1-14 (stating  
14 that a shared library is “not written as a standalone program, even though it is distinct and separate  
15 from the application”). Apple also had Dr. Mowry testify that the shared libraries receive data from  
16 the client applications. *See id.* at 3019:18-21, 3021:25-3022:3. The jury could have reasonably  
17 credited Dr. Mowry’s explanations.

18 Dr. Mowry also testified that “glue code” supports his view that the shared libraries are  
19 distinct from the client applications because the glue code “connects together different modules or  
20 different pieces of software.” *Id.* at 3020:22-3021:10. Samsung asserts that “glue code” is not a  
21 term of art. Mot. at 12. This objection is irrelevant. Regardless of whether “glue code” appears in  
22 textbooks, Dr. Mowry stated that the presence of such code indicates that this claim limitation is  
23 satisfied. The jury was entitled to assess the competing experts’ credibility on this point. *See*  
24 *Kinetic*, 688 F.3d at 1362.

#### 25 4. “Action Processor”

26 This Court construed “action processor” as “program routine(s) that perform the selected  
27 action on the detected structure.” ECF No. 447 at 64. *Motorola* did not affect this construction, and  
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1 the parties did not offer additional testimony on this limitation. Dr. Mowry identified the  
2 startActivity() and resolveActivity() methods in the Android source code as “action processors.”  
3 See Tr. at 873:8-20. He also testified that startActivity() “allows one program to launch another  
4 program and pass data to it,” such that it performs the selected action. *Id.* at 2794:8-2796:21.  
5 According to Samsung, startActivity() cannot be an “action processor” because it does not directly  
6 perform an action (such as dialing a phone number or initiating an e-mail). However, the Court’s  
7 construction of “action processor” is not limited in this way, and during claim construction, the  
8 parties disputed only whether an action processor must be “separate from a client.” See ECF No.  
9 447 at 14-20. Samsung fails to show that a reasonable jury could not determine that startActivity()  
10 performs selected actions by launching appropriate applications.

### 11 5. Jelly Bean Galaxy Nexus

12 For the Jelly Bean version of the Galaxy Nexus, Apple did not accuse the Messenger  
13 application, only Browser. Samsung contends that Browser lacks a “user interface enabling the  
14 selection of a *detected* structure” because Browser detects a structure (such as an e-mail address)  
15 only after a user selects it. The jury heard sufficient evidence to reject this argument. Dr. Mowry  
16 explained that the Jelly Bean Galaxy Nexus infringes because it allows users to perform a “long  
17 press”—a “press and hold” instead of a tap—that results in detection of a structure prior to  
18 selection of an action. Tr. at 866:3-870:8; *see also id.* at 869:10-17 (“The user eventually is holding  
19 down long enough that it becomes a selection through a press and hold.”). At the summary  
20 judgment stage, the Court noted that whether the “long press” infringes would be a question for the  
21 jury. See ECF No. 1151 at 20-21. The jury could have reasonably accepted Dr. Mowry’s  
22 explanation.

23 For the foregoing reasons, Samsung’s motion for judgment as a matter of law of non-  
24 infringement of the ’647 patent is DENIED.

1           **B.       Invalidity of Claim 9 of the '647 Patent**

2           Samsung moves for judgment as a matter of law that no reasonable jury could find claim 9  
3 of the '647 patent valid, arguing that Sidekick renders the claim obvious. Mot. at 14. The Court  
4 DENIES Samsung's motion.

5           Under 35 U.S.C. § 103, a patent is invalid as obvious "if the differences between the  
6 claimed invention and the prior art are such that the claimed invention as a whole would have been  
7 obvious before the effective filing date of the claimed invention to a person having ordinary skill in  
8 the art to which the claimed invention pertains." 35 U.S.C. § 103. "A party seeking to invalidate a  
9 patent on the basis of obviousness must demonstrate by clear and convincing evidence that a  
10 skilled artisan would have been motivated to combine the teachings of the prior art references to  
11 achieve the claimed invention, and that the skilled artisan would have had a reasonable expectation  
12 of success in doing so." *Kinetic*, 688 F.3d at 1360. "Obviousness is a question of law based on  
13 underlying findings of fact." *In re Kubin*, 561 F.3d 1351, 1355 (Fed. Cir. 2009). Though  
14 obviousness is ultimately a question of law for the Court to decide de novo, in evaluating a jury  
15 verdict of obviousness, the Court treats with deference the implied findings of fact made by the  
16 jury. *Kinetic*, 688 F.3d at 1356–57. The Court must discern the jury's implied factual findings by  
17 interpreting the evidence consistently with the verdict and drawing all reasonable inferences in the  
18 nonmoving party's favor. *DyStar Textilfarben GmbH & Co. Deutschland KG v. C.H. Patrick Co.*,  
19 464 F.3d 1356, 1361 (Fed. Cir. 2006). The Court "first presume[s] that the jury resolved the  
20 underlying factual disputes in favor of the verdict [ ] and leave[s] those presumed findings  
21 undisturbed if they are supported by substantial evidence." *Kinetic*, 688 F.3d at 1356-57 (citation  
22 omitted). The underlying factual inquiries are: (1) the scope and content of the prior art; (2) the  
23 differences between the prior art and the claims at issue; (3) the level of ordinary skill in the art;  
24 and (4) any relevant secondary considerations, such as commercial success, long felt but unsolved  
25 needs, copying, praise, and the failure of others. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398, 406  
26 (2007) (citing *Graham v. John Deere Co.*, 383 U.S. 1, 17-18 (1966)); *Crocs, Inc. v. Int'l Trade*  
27 *Comm'n*, 598 F.3d 1294, 1311 (Fed. Cir. 2010). The Court then examines the ultimate legal  
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1 conclusion of obviousness de novo to determine whether it is correct in light of the “presumed jury  
2 fact findings.” *Kinetic*, 688 F.3d at 1357. Here, the jury found claim 9 of the ’647 patent valid.  
3 Thus, below, the Court first examines whether substantial evidence supported the jury’s underlying  
4 factual conclusions that there was a significant gap between the prior art and the patent, and that  
5 there were secondary indicia of non-obviousness.

6 First, there was conflicting expert testimony on the question whether Sidekick rendered  
7 claim 9 obvious. Samsung’s expert, Dr. Jeffay, testified Sidekick rendered claim 9 obvious because  
8 it disclosed all the limitations of claim 9 except for two, and that those two limitations – linking  
9 actions to the detected structures by using a “specified connection,” and a “pop-up” menu – would  
10 have been obvious based on Sidekick. *See* ECF No. 1928 at 3092-94, 3098-99; ECF No. 1717 at  
11 1810, 1841. Yet Apple’s expert, Dr. Mowry, testified that Sidekick did not render the ’647 obvious  
12 because in addition to missing those two elements, *see* ECF No. 1928 at 3101, Sidekick did not  
13 detect “multiple structures” nor link to multiple actions. *See* ECF No. 1926 at 2802-03, 2810; ECF  
14 No. 1928 at 3101, 3104. Specifically, Dr. Mowry explained Sidekick could only detect one  
15 structure—phone numbers—and showed the jury Sidekick code and explained how the code used  
16 only one pattern to detect all phone numbers, including domestic and international. *See* ECF No.  
17 1926 at 2802-06, 2809. Dr. Mowry also testified that Sidekick could link only one action—dialing.  
18 *See* ECF No. 1926 at 2803, 2809; ECF No. 1928 at 3104. In response, Dr. Jeffay claimed Sidekick  
19 could detect multiple structures because it could detect multiple types of phone numbers (including  
20 domestic and international) by using different patterns, ECF No. 1717 at 1807-08, 1834-35.  
21 Dr. Jeffay also implicitly rejected Dr. Mowry’s testimony that claim 9 requires multiple actions,  
22 given that Dr. Jeffay did not testify that “multiple actions” was one of the limitations of the claim.  
23 *Id.* at 1807. Finally, Dr. Mowry testified Sidekick failed to satisfy claim 9’s requirement that the  
24 user interface enable “selecting a structure.” ECF No. 1624 at 923-24; ECF No. 1926 at 2802.  
25 Dr. Jeffay rebutted this point by stating a user “can pick any number that they want.” ECF No.  
26 1717 at 1838-39. Based on this conflicting expert testimony, the jury was free to “make credibility  
27 determinations and believe the witness it considers more trustworthy.” *Kinetic*, 688 F.3d at 1362  
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1 (citation omitted). The jury’s finding of validity indicates that the jury made an implied finding of  
2 fact crediting Dr. Mowry’s testimony that the gap between Sidekick and the ’647 was significant  
3 because Sidekick did not disclose various elements of claim 9. *Id.* at 1363 (“[W]hether the prior art  
4 discloses the limitations of a particular claim is a question of fact to be determined by the jury[.]”);  
5 *Lucent Techs., Inc. v. Gateway, Inc.*, 580 F.3d 1301, 1315 (Fed. Cir. 2009) (holding that jury was  
6 entitled to conclude, as a factual matter, that the prior art did not disclose this limitation). The  
7 Court must give that finding deference. *Kinetic*, 688 F.3d at 1356-57. Crediting Dr. Mowry’s  
8 testimony over that of Dr. Jeffay, the Court cannot say that the jury’s implied finding that these  
9 gaps were significant was not supported by substantial evidence in the record.

10 Further, the Court is unpersuaded by Samsung’s claim that Dr. Mowry’s testimony that  
11 claim 9 requires “multiple actions” fails as a matter of law under the Federal Circuit’s construction  
12 of “linking actions to the detected structures,” Mot. at 15, Reply at 9. The Federal Circuit held that  
13 claim 9 requires only that at least one action be linked to each detected structure. *Motorola*, 757  
14 F.3d at 1307 (“The plain language of the claims does not require multiple actions for each  
15 structure[.]”). Apple acknowledges as much. Opp’n at 4. However, nothing in the Federal Circuit’s  
16 order prohibited the jury from finding that the plain and ordinary meaning of claim 9 requires that  
17 there be multiple actions that are linked to multiple structures.

18 Second, the jury’s finding of non-obviousness means the jury implicitly rejected Samsung’s  
19 claim that there were no secondary indicia of non-obviousness. ECF No. 1717 at 1811-13  
20 (Dr. Jeffay testifying there were no secondary considerations suggesting pop-up would not be  
21 obvious and that there is no evidence Samsung copied claim 9). Again, the Court must defer to this  
22 implicit factual finding. *See Kinetic*, 688 F.3d at 1356-57. Apple cites substantial evidence to  
23 support the jury’s finding, including Google’s recognition of the need and usefulness of the  
24 invention. *See* ECF No. 1624 at 881-83 (describing PX 116, email between Google engineers  
25 discussing that for “text objects” such as email addresses and physical addresses, “one of our most  
26 powerful features is the interaction of text objects [and] other applications on the phone. For  
27 instance, users can select a phone number . . . and it will launch the dialer[.]”).

1 In light of these factual findings, the Court now considers whether, as a matter of law, it  
2 would have been obvious to a designer of ordinary skill in the art to bridge the gap the jury  
3 implicitly found. While Dr. Jeffay testified it would have been obvious to use a pop-up menu or to  
4 link actions using a “specified connection” based on Sidekick, Dr. Jeffay did not explain why it  
5 would have been obvious for an engineer of ordinary skill to combine additional actions with  
6 Sidekick’s dialing action such that there are *multiple* actions linked overall. Nor did he explain  
7 why, assuming Apple is correct that detecting only phone numbers does not satisfy the claim’s  
8 requirement to detect multiple structures, it would have been obvious to create an invention that  
9 detects multiple structures such as postal addresses, email addresses, and telephone numbers. ECF  
10 No. 1928 at 3103 (Dr. Mowry describing different kinds of structures). Because Samsung has  
11 failed to identify the necessary evidence, the Court cannot conclude there is clear and convincing  
12 evidence that it would have been obvious to bridge these gaps between Sidekick and claim 9.

13 In sum, in light of the gaps between Sidekick and claim 9, and lack of clear evidence by  
14 Samsung as to why such a gap would have been obvious to bridge, the Court finds that as a matter  
15 of law, Samsung has not produced clear and convincing evidence that the claimed invention was  
16 obvious in light of the prior art. Accordingly, the Court DENIES Samsung’s motion for judgment  
17 as a matter of law that claim 9 of the ’647 patent is invalid.

18 **C. Invalidation of Claim 8 of the ’721 Patent**

19 The jury found claim 8 of the U.S. Patent No. 8,046,721 (“the ’721 patent”) not invalid.  
20 Samsung moves for judgment as a matter of law that no reasonable jury could find claim 9 not  
21 invalid. Samsung moves on two grounds: (1) obviousness, and (2) indefiniteness. The Court  
22 addresses each in turn below, and DENIES Samsung’s motion.

23 **1. Obviousness**

24 Claim 8 of the ’721 is dependent on claim 7. The claims recite as follows:

- 25 7. A portable electronic device, comprising:  
26 a touch-sensitive display;  
27 memory;  
28 one or more processors; and  
one or more modules stored in the memory and configured for execution by

1 the one or more processors, the one or more modules including  
instructions:

- 2 to detect a contact with the touch-sensitive display at a first  
predefined location corresponding to an unlock image;  
3 to continuously move the unlock image on the touch-sensitive  
display in accordance with movement of the detected contact  
4 while continuous contact with the touch-sensitive display is  
maintained, wherein the unlock image is a graphical, interactive  
5 user-interface object with which a user interacts in order to  
unlock the device; and  
6 to unlock the hand-held electronic device if the unlock image is  
7 moved from the first predefined location on the touch screen to a  
predefined unlock region on the touch-sensitive display.  
8

9 8. The device of claim 7, further comprising instructions to display visual cues to  
communicate a direction of movement of the unlock image required to unlock the device.

10 '721 Patent cls. 7, 8.

11 Samsung argues claim 8 is obvious as a matter of law because the Neonode N1 QuickStart  
12 Guide and a video and paper by Plaisant together disclosed all the limitations in claim 8. Mot. at  
13 16-17. Samsung cites Dr. Greenberg's testimony that the Neonode Guide discloses a portable  
14 electronic phone with a touch-sensitive display with a left-to-right unlocking gesture, and that the  
15 only claim element missing from the Neonode is a moving *image* accompanying the sweep gesture.  
16 ECF No. 1717 at 1967-69; 1975; *see also* DX 342.013 (Neonode Guide describing how to "right  
17 sweep to unlock" the phone). Dr. Greenberg also testified about the Plaisant paper, titled  
18 "Touchscreen Toggle Design," which describes "touchscreens called toggles that switch state from  
19 one state to another, things like on or off, and that could include things like lock to unlock." ECF  
20 No. 1717 at 1969-70. He testified Plaisant described toggles that operate "by sliding actions,"  
21 called "sliders." *Id.* at 1971. Dr. Greenberg concluded that Plaisant filled the missing claim element  
22 in the Neonode because Plaisant disclosed a sliding *image* that could be moved from one  
23 predefined location to another to change the state of the device. *Id.* at 1970-72; 1975. Thus,  
24 Dr. Greenberg testified that the combination disclosed "all of the claim limitations." *Id.* at 1975-76.  
25 Dr. Greenberg further concluded that the person of ordinary skill in the art would be "highly  
26 interested in both of them" and would "think it natural to combine these two" because "they both  
27 deal with touch base systems, they both deal with user interfaces. They both talk about changing  
28

1 state . . . they both specifically describe how a sliding action is used to prevent accidental  
2 activation.” *Id.* at 1974. He reasoned that a person would think to implement sliders on a  
3 touchscreen phone because that “is just a very routine thing to think about in terms of interaction  
4 design.” *Id.* at 1974-75. Dr. Greenberg’s testimony that the claim was invalid for obviousness  
5 notwithstanding, the Court does not agree that Samsung presented clear and convincing evidence  
6 of obviousness.

7 First, there was conflicting expert testimony on the question of whether the combination  
8 disclosed all the claim elements. Apple’s expert, Dr. Cockburn, testified that although the Neonode  
9 describes unlocking a mobile phone using a “right sweep” gesture, it fails to disclose several key  
10 claim elements relating to an “unlock image” and its movement, including that there was “no  
11 predefined location corresponding to an unlock image,” “no continuous movement of an unlock  
12 image,” “no unlocking the device if the image is moved from one location to another,” and “no  
13 visual cues communicating the direction of movement” since “there’s no image to move.” ECF No.  
14 1926 at 2864-65. He also testified that Plaisant, which describes a touchscreen user interface for  
15 turning on and off home appliance systems, fails to supply these missing claim elements because  
16 Plaisant does not disclose using an unlock image to unlock a portable electronic device. *Id.* at  
17 2865-67; DX 344 (Plaisant paper noting that the research was conducted in collaboration with a  
18 group whose focus is on “providing state-of-the-art systems that are easy for the homeowner to  
19 use.”). Where, as here, the parties offered “conflicting expert testimony, the jury was free to ‘make  
20 credibility determinations’ [.]” *Kinetic*, 688 F.3d at 1362 (citation omitted). In light of the jury’s  
21 validity finding, the Court “must infer that the jury found [Dr. Cockburn] to be credible and  
22 persuasive” when testifying that the prior art, even when combined, did not disclose all claim  
23 elements. *Id.*

24 Second, Dr. Cockburn testified, contrary to Dr. Greenberg, that a person of ordinary skill in  
25 the art would not have been motivated to combine the Neonode and Plaisant in such a way as to  
26 invent claim 8. ECF No. 1926 at 2866. He provided two reasons. First, Plaisant described “toggle  
27 designs” intended to be used with a “touch screen [that] would be mounted into a wall or into  
28



1 cabinetry” for controlling “office or home appliances, like air conditioning units or heaters.” *Id.* at  
2 2865. A reasonable jury could infer from this testimony that an ordinary artisan would not have  
3 been motivated to combine elements from a wall-mounted touchscreen for home appliances and a  
4 smartphone, particularly in view of the “pocket dialing” problem specific to mobile devices that  
5 Apple’s invention sought to address. *See* ECF No. 1623 at 636.

6 Additionally, Dr. Cockburn explained that Plaisant “teach[es] away from the use of  
7 sliding,” because it “tells you not to use the sliding [toggle] mechanism.” ECF No. 1926 at 2865-  
8 66. What a piece of prior art teaches and motivation to combine prior art are both questions of fact.  
9 *Cheese Sys. Inc. v. Tetra Pak Cheese & Powder Sys. Inc.*, 725 F.3d 1341, 1352 (Fed. Cir. 2013).  
10 “A reference may be said to teach away when a person of ordinary skill, upon reading the  
11 reference, would be discouraged from following the path set out in the reference, or would be led  
12 in a direction divergent from the path that was taken by the applicant.” *In re Kahn*, 441 F.3d 977,  
13 990 (Fed. Cir. 2006) (citation omitted). Here, Dr. Cockburn explained that Plaisant teaches that  
14 sliders were “not preferred” among the toggle mechanisms, and “tells us that toggles that are  
15 pushed seem to be preferred over toggles that slide; and the sliding is more complex than simply  
16 touching; and also that sliders are harder to implement.” ECF No. 1926 at 2866. Dr. Greenberg  
17 disputed this point, and testified that Plaisant “teaches that the sliding toggles worked” and noted  
18 how Plaisant states that the fact that “user[s] use [sliders] correctly is encouraging.” ECF No. 1717  
19 at 1972-73.

20 The Court notes that there is language in Plaisant to arguably support either expert’s  
21 interpretation concerning whether Plaisant “teaches” away from the use of sliders. This is because  
22 Plaisant evaluates the pros and cons of various types of “toggles” used to change the state of a  
23 device and concludes generally that “the evaluation of the toggles showed some important  
24 differences in personal preferences.” DX 344.002. More specifically, on the one hand, Plaisant  
25 states that “toggles that are pushed seemed to be preferred over the toggles that slide,” “sliding is a  
26 more complex task than simply touching,” and “sliders are more difficult to implement than  
27 buttons[.]” DX 344.002. On the other hand, Plaisant seems to encourage the use of sliders by  
28

1 noting that users “used sliding motions successfully to manipulate the sliding toggles,” by noting  
2 that the fact that “user[s] use [sliders] correctly is encouraging,” and by noting that “another  
3 advantage of the sliding movement is that it is less likely to be done inadvertently therefore making  
4 the toggle very secure[.] This advantage can be pushed further and controls can be designed to be  
5 very secure by requiring more complex gestures[.]” DX 344.002.

6 As noted above, what a piece of prior art teaches is a question of fact for the jury. The  
7 Court concludes that in light of Dr. Cockburn’s testimony and the language in Plaisant suggesting  
8 Plaisant taught away from sliders, the jury’s implied finding of fact that there would have been no  
9 motivation to combine the Neonode and Plaisant was supported by substantial evidence in the  
10 record. *See Teleflex, Inc., v. Ficosa N. Am. Corp.*, 299 F.3d 1313, 1334 (Fed. Cir. 2002) (holding  
11 that expert testimony of a “lack of motivation to combine . . . constitutes substantial evidence of  
12 nonobviousness”); *Grp. One, Ltd. v. Hallmark Cards, Inc.*, 407 F.3d 1297, 1304 (Fed. Cir. 2005)  
13 (reversing judgment as a matter of law of obviousness in view of conflicting expert testimony on  
14 motivation to combine); *Harris Corp. v. Fed. Express Corp.*, 502 Fed. Appx. 957, 968 (Fed. Cir.  
15 2013) (unpublished) (affirming denial of motion for judgment as a matter of law of obviousness  
16 where there was conflicting evidence regarding whether prior art taught away from the invention  
17 because the prior art “also included certain facts that might have discouraged an artisan from using  
18 [the] spread spectrum.”).

19 Finally, the jury’s validity finding means the jury implicitly rejected Samsung’s claim that  
20 there were no secondary indicia of non-obviousness. This finding is supported by substantial  
21 evidence including industry praise specifically for Apple’s slide to unlock invention. *See* PX 118  
22 (January 2007 MacWorld video featuring Steve Jobs’ live demonstration of slide to unlock on the  
23 iPhone to an audience that began cheering). Apple also introduced various Samsung internal  
24 documents noting how Apple’s slide to unlock feature is precise, easy to use, and intuitive. *See* PX  
25 119 at 11 (presentation prepared by Samsung’s European design team in June 2009 calling Apple’s  
26 slide to unlock invention a “[c]reative way[] of solving UI complexity.”); PX 121 at 100 (Samsung  
27 software verification group document noting that unlike Samsung’s “victory” phone, iPhone’s  
28

1 “unlocking standard is precise as it is handled through sliding, and it allows prevention of any  
2 wrong motion,” and recommending a “direction of improvement” to make it the “same as iPhone,  
3 clarify the unlocking standard by sliding”); PX 157 at 19-20 (Samsung document recommending to  
4 improve Samsung phone by making it like the iPhone which is “easy to unlock, [given that] lock  
5 screen always shows guide text or arrow like the iPhone” and to make the lock icon’s movement  
6 “be smooth and continuous” like the iPhone); PX 219 at 14 (Samsung document noting that the  
7 iPhone “intuitively indicate[s] the direction and length to move when unlocking on the lock  
8 screen”); ECF No. 1623 at 638-50 (Dr. Cockburn testimony that these various Samsung documents  
9 recognized the advantages of claim 8); *Power-One, Inc. v. Artesyn Techs, Inc.*, 599 F.3d 1343,  
10 1352 (Fed. Cir. 2010) (noting that praise in the industry, and specifically praise from a competitor  
11 tends to indicate that the invention was not obvious).

12 Furthermore, Apple introduced evidence of a long-felt need for its invention. *See* ECF No.  
13 1623 at 636-37 (Dr. Cockburn’s testimony that phone designers had been trying to solve the  
14 problem of accidental activation and the “pocket dial problem” before the iPhone existed, but had  
15 only come up with “frustrat[ing]” solutions); ECF No. 1926 at 2869 (explaining that there had not  
16 been a good mechanism for unlocking “for a long time.”); ECF No. 1623 at 599, 603, 611 (Greg  
17 Christie, Apple’s Human Interface Vice President, testifying about concerns over pocket-dial  
18 problem). In light of this evidence, the Court must defer to the jury’s implicit factual finding that  
19 there were secondary indicia of non-obviousness. *See Kinetic*, 688 F.3d at 1356-57.

20 In light of the jury’s factual findings, the Court concludes it would be error to “fail[] to  
21 defer to the jury’s factual findings and grant[] JMOL on obviousness.” *Id.* at 1371. Because there is  
22 no clear and convincing evidence that it would have been obvious to bridge the gaps between the  
23 prior art and claim 8, the Court DENIES Samsung’s motion for judgment as a matter of law that  
24 claim 8 of the ’721 is invalid as obvious.

## 25 2. Indefiniteness

26 Samsung argues that the ’721 patent is indefinite as a matter of law because the claim term  
27 “unlock” is indefinite. Mot. at 19. To be valid, claims must “particularly point[] out and distinctly  
28

1 claim[] the subject matter which the applicant regards as the invention.” 35 U.S.C. § 112. The  
2 purpose of this definiteness requirement is to “ensure that the claims delineate the scope of the  
3 invention using language that adequately notifies the public of the patentee’s right to exclude.”  
4 *Datamize, LLC v. Plumtree Software, Inc.*, 417 F.3d 1342, 1347 (Fed. Cir. 2005) (abrogated on  
5 other grounds by *Nautilus, Inc. v. Biosig Instruments, Inc.*, 134 S. Ct. 2120, 2124 (2014)). “[A]  
6 patent is invalid for indefiniteness if its claims, read in light of the specification delineating the  
7 patent, and the prosecution history, fail to inform, with reasonable certainty, those skilled in the art  
8 about the scope of the invention.” *Nautilus, Inc. v. Biosig Instruments, Inc.*, 134 S. Ct. 2120, 2124  
9 (2014). The Supreme Court has noted that “some modicum of uncertainty” must be tolerated, given  
10 the inherent limitations of language and because “absolute precision is unattainable.” *Id.* at 2128-  
11 29. The Court DENIES Samsung’s motion.

12 While Samsung contends that the term “unlock” is indefinite because there is insufficient  
13 clarity as to what it means for a device to be “locked” versus “unlocked,” the specification provides  
14 a definition that establishes when a device is “locked” and when it is “unlocked:”

15 In the user-interface lock state (hereinafter the “lock state”), the device is powered  
16 on and operational but ignores most, if not all, user input. That is, the device takes  
17 no action in response to user input and/or the device is prevented from performing a  
18 predefined set of operations in response to the user input. . . .

18 In the user-interface unlock state (hereinafter the “unlock state”), the device is in its  
19 normal operating state, detecting and responding to user input corresponding to  
20 interaction with the user interface. . . . An unlocked device detects and responds to  
21 user input for navigating between user interfaces, entry of data and activation or  
22 deactivation of functions.

21 ’721 Patent col.7 l.64-col.8 l.45. The specification, therefore, provides guidance as to what it  
22 means when the device is “locked.” According to the specification, when the device is locked it is  
23 “powered on and operational but ignores most, if not all, user input.” *Id.* While Samsung claims it  
24 is unclear what the phrase “most, if not all” means, the specification further describes what “most,  
25 if not all, user input” means. According to the specification, “the locked device responds to user  
26 input corresponding to attempts to transition the device to the user-interface unlock state or  
27 powering the device off, but does not respond to user input corresponding to attempts to navigate

1 between user interfaces.” *Id.* at 8:13-17. The specification later confirms that distinction between  
2 “unlocked” state and a “locked” state when stating that an “unlocked device” “detects and responds  
3 to user input for navigating between user interfaces[.]” *Id.* at 8:39-40. Accordingly, in light of these  
4 explanations, the Court finds that the claim provides sufficient clarity as to the term “unlock,” and  
5 that the term does not meet the standard of indefiniteness such that claim 8 as a whole “fail[s] to  
6 inform, with reasonable certainty, those skilled in the art about the scope of the invention.”  
7 *Nautilus*, 134 S. Ct. at 2124.

8 The trial record supports the Court’s conclusion that Samsung has failed to prove  
9 indefiniteness by clear and convincing evidence. While the Court acknowledges that discerning  
10 whether a given device is in a “locked” or “unlocked” state might be difficult in certain  
11 circumstances for the general public, the Supreme Court has noted that “one must bear in mind []  
12 that patents are ‘not addressed to lawyers, or even to the public generally,’ but rather to those  
13 skilled in the relevant art.” *Id.* at 2128; *see also Carnegie Steel Co. v. Cambria Iron Co.*, 185 U.S.  
14 403, 437 (1902) (stating that “any description which is sufficient to apprise [those skilled in] the art  
15 of the definite feature of the invention, and to serve as a warning to others of what the patent claims  
16 as a monopoly, is sufficiently definite to sustain the patent”). Here, Dr. Cockburn, a person of at  
17 least ordinary skill in the art, testified that he had “no difficulty at all in understanding the  
18 difference between a locked state and an unlocked state” when he read claim 8. ECF No. 1623 at  
19 634. He further testified that the “the plain and ordinary meaning” of the term is clear. *Id.* at 633.  
20 Perhaps more convincingly, even Samsung’s own expert, Dr. Greenberg, was able to explain when  
21 a “device will unlock” when explaining the ’721 patent and prior art to the jury. *See* ECF No. 1717  
22 at 1968.

23 Accordingly, the Court finds that one of ordinary skill in the art could reasonably ascertain  
24 the scope of claim 8. The Court accordingly DENIES Samsung’s motion for judgment as a matter  
25 of law that claim 8 of the ’721 is invalid as indefinite.<sup>1</sup>

26 **D. Non-infringement of the ’721 Patent**

27 <sup>1</sup> The Court notes that this Court’s preliminary injunction order previously concluded that the term  
28 “unlock” is not indefinite. ECF No. 221 at 52.

1 The jury found that the Admire, Galaxy Nexus, and Stratosphere infringe claim 8 of the  
2 '721 patent. ECF No. 1884 at 5. Samsung moves for judgment as a matter of law that no  
3 reasonable jury could find that these devices infringe the '721. Mot. at 19. The Court DENIES  
4 Samsung's motion.

5 First, Samsung argues that no reasonable jury could find that the Galaxy Nexus infringes.  
6 Samsung cites how claim 8 requires detecting "a contact with the touch-sensitive display at a first  
7 predefined location corresponding to an unlock image" and continuously moving "the unlock  
8 image on the touch sensitive display in accordance with movement of the detected contact." '721  
9 Patent cols.19-20. Samsung argues that "[t]he plain language thus requires that the image with  
10 which the user makes contact be the *same image* that then moves with user contact." Mot. at 19  
11 (emphasis added). Accordingly, Samsung argues that because "the image with which the user  
12 makes contact on the Galaxy Nexus devices – a padlock in a circle – *disappears* upon user contact  
13 and is replaced by another, different image," this limitation of the claim is not met. *Id.* (emphasis in  
14 original) (citing testimony from Dr. Greenberg that the Galaxy Nexus does not infringe because the  
15 image "has to be the same . . . it can't be different," ECF No. 1717 at 1980-81).<sup>2</sup> Samsung  
16 emphasizes that Apple's own expert, Dr. Cockburn, admitted at trial that the image changes upon  
17 user contact. Mot. at 20 (citing ECF No. 1623 at 740-42). Samsung is correct that Dr. Cockburn  
18 testified that when the user contacts the unlock image in the Ice Cream Sandwich version of the  
19 Galaxy Nexus, "the image will animate, it'll change its representation slightly" and that in the  
20 Jellybean version, "the image changes slightly" to a "circle that's a spotlight onto [a series of]  
21 dots." ECF No. 1623 at 676-78, 742; *see also* ECF No. 1926 at 2861.

22 However, the Court disagrees that no reasonable jury could find that the Galaxy Nexus  
23 infringes claim 8. Because the Court did not construe the term "unlock image," the jury had to  
24 apply its plain and ordinary meaning, and was not obligated to accept Samsung's contention that an  
25 "unlock image" must consist of the same, single image. The jury's implicit rejection of Samsung's  
26

27 <sup>2</sup> Dr. Greenberg testified that in the Ice Cream Sandwich version of the Galaxy Nexus, the new  
28 image is a larger circle. ECF No. 1717 at 1981. In the Jelly Bean Version, the new image is a series  
of dots. *Id.*

1 argument is supported by substantial evidence. Dr. Cockburn testified that he did not agree with  
2 Dr. Greenberg’s view that the accused phones do not infringe simply because the unlock image  
3 changes. *See* ECF No. 1623 at 678-79, 742 (interpreting claim 8 to allow multiple images, given  
4 that the specification teaches that “the visual representation of the unlock image can change” and  
5 explicitly states the unlock image “may be animated”); *see also* ECF No. 1926 at 2861. The jury  
6 was free to weigh the experts’ testimony and determine for itself whether the Galaxy Nexus  
7 contains an “unlock image” under the plain meaning of that term. Indeed, the reasonableness of the  
8 jury’s implicit finding that Dr. Cockburn’s interpretation of the claim was correct is demonstrated  
9 by how this Court rejected precisely the same argument Samsung raises now in this Court’s  
10 preliminary injunction order in this case. Then, as now, Samsung argued that “the term ‘unlock  
11 image’ must refer to the same single ‘unlock image’” because the claims first refer to “an unlock  
12 image” and later refer to “the unlock image.” *Compare* ECF No. 221 at 44, *with* Mot. at 19. The  
13 Court rejected Samsung’s proffered construction, concluding that “Apple’s argument that ‘unlock  
14 image’ may refer to more than one image is also supported by the specification[,] [which] . . .  
15 demonstrate[s] ‘an unlock gesture corresponding to *one of a plurality of unlock images*, according  
16 to some embodiments of the invention.’” ECF No. 221 at 45 (internal quotation marks and citations  
17 omitted).

18 Nor is the Court convinced by Samsung’s more specific argument that the Jelly Bean  
19 version of the Galaxy Nexus cannot infringe because Apple did not present any evidence that the  
20 second unlock image—which Dr. Greenberg testified is a “series of dots,” ECF No. 1717 at 1980-  
21 81—“moves” and thus the limitation that the unlock image continuously move in accordance with  
22 the detected contact is not met. Mot. at 21; *see* ECF No. 1717 at 1981 (Dr. Greenberg’s testimony  
23 that “the dots don’t actually move at all. The only thing that happens is that individual dots get  
24 brighter or dimmer.”). The jury could have reasonably credited Dr. Cockburn’s testimony that the  
25 second image was rather a “circle that’s a spotlight onto [a series of] dots.” ECF No. 1623 at 742;  
26 *see also id.* at 677. Dr. Cockburn testified that the “continuously move” element is met because the  
27 “spotlight effect on the dots” moves in accordance with the user’s contact. ECF No. 1623 at 677;  
28

1 ECF No. 1926 at 2861. In support, Dr. Cockburn showed the jury PDX 46, a demonstrative of the  
2 Galaxy Nexus which indeed shows a circle that is a spotlight effect on a series of dots moving in  
3 accordance with the user’s contact. *See* ECF No. 1623 at 677. The demonstrative shows that,  
4 contrary to Dr. Greenberg’s opinion, the dots and the spotlight on them move in accordance with  
5 the user’s contact. The jury could have confirmed Dr. Cockburn’s testimony and the movements  
6 shown in PDX 46 by actually testing the slide to unlock feature in the Galaxy Nexus phones in  
7 evidence. *See* JX 29 A-I.

8 Further, while Samsung contends Dr. Cockburn did not offer any evidence in support of his  
9 contention that the unlock image in the Galaxy Nexus is a “graphical interactive user interface  
10 object” that may change form, Mot. at 20, Dr. Cockburn did demonstrate how the unlock image  
11 changes appearance by showing the jury demonstratives of representative Galaxy Nexus devices.  
12 *See* ECF No. 1623 at 676-77 (showing PDX 44, PDX 46). The jury was free to confirm  
13 Dr. Cockburn’s conclusions and demonstratives by testing the Galaxy Nexus phones in evidence.  
14 *See* JX 29A-I.

15 Finally, the Court rejects Samsung’s argument that judgment of non-infringement should be  
16 granted as to the Admire, Galaxy Nexus, and Stratosphere because Apple offered no evidence of  
17 any “instructions” required by claim 8. Mot. at 21 (citing ’721 Patent cols.19-20). To the contrary,  
18 the jury heard Dr. Cockburn’s expert testimony that because the accused phones are computing  
19 devices, they necessarily had “software, processors, [and] memory.” ECF No. 1623 at 659; *see also*  
20 *id.* at 630 (“[S]oftware components are just a form of instructions); *id.* at 626 (“Source code is the  
21 set of instructions that are on a computing device that enable it to become operative in some way.  
22 So the instructions to determine the behavior of the device, and that’s software.”).

23 In sum, because there is substantial evidence to support the jury’s findings of infringement,  
24 the Court DENIES Samsung’s motion for judgment as a matter of law that the Admire, Galaxy  
25 Nexus, and Stratosphere do not infringe claim 8.

26 **E. Willful Infringement of Claim 8 of the ’721 Patent**



1 Samsung moves for judgment as a matter of law that Samsung did not willfully infringe  
2 claim 8 of the '721 patent. Mot. at 21. To establish willfulness, “a patentee must show by clear and  
3 convincing evidence that the infringer acted despite an objectively high likelihood that its actions  
4 constituted infringement of a valid patent. The state of mind of the accused infringer is not relevant  
5 to this objective inquiry. If this threshold objective standard is satisfied, the patentee must also  
6 demonstrate that this objectively-defined risk . . . was either known or so obvious that it should  
7 have been known to the accused infringer.” *In re Seagate Tech., LLC*, 497 F.3d 1360, 1371 (Fed.  
8 Cir. 2007) (internal citation omitted). Thus, the willfulness inquiry is a two-prong analysis,  
9 requiring an objective inquiry and a subjective inquiry. The objective inquiry is a question for the  
10 Court, and the subjective inquiry is a question for the jury. *Bard Peripheral Vascular, Inc. v. W.L.*  
11 *Gore & Assocs., Inc.*, 682 F.3d 1003, 1007 (Fed. Cir. 2012). The objective inquiry requires a  
12 showing of “objective recklessness” by the infringer. *In re Seagate Tech.*, 497 F.3d at 1371; *Bard*,  
13 682 F.3d at 1006 (“*Seagate* also requires a threshold determination of objective recklessness.”).

14 Here, the jury found that, as a subjective matter, Samsung willfully infringed the '721  
15 patent. ECF No. 1884 at 7. Because both prongs must be established for the Court to make an  
16 ultimate finding of willfulness, failure on the objective prong defeats a claim of willfulness.  
17 Because the Court finds no objective willfulness for the reasons set forth below, the Court need not  
18 consider whether the jury’s finding of subjective willfulness was supported by substantial  
19 evidence. *See Apple, Inc. v. Samsung Elecs. Co., Ltd.*, 920 F. Supp. 2d 1079, 1108 (N.D. Cal. 2013)  
20 (declining to examine whether the jury’s finding on subjective willfulness was supported by  
21 substantial evidence because the objective willfulness prong was not satisfied). The Court  
22 GRANTS Samsung’s motion.

23 As noted above, to establish objective willfulness, Apple must prove by clear and  
24 convincing evidence that there was an “objectively high likelihood that [Samsung’s] actions  
25 constituted infringement of a valid patent.” *Bard*, 682 F.3d at 1005 (citing *Seagate*, 497 F.3d at  
26 1371). If Samsung had an objectively reasonable defense to infringement, its infringement cannot  
27 be said to be objectively willful, and objective willfulness fails as a matter of law. *See Spine*

1 *Solutions, Inc. v. Medtronic Sofamor Danek USA, Inc.*, 620 F.3d 1305, 1319 (Fed. Cir. 2010) (“The  
2 ‘objective’ prong of *Seagate* tends not to be met where an accused infringer relies on a reasonable  
3 defense to a charge of infringement.”); *Bard*, 682 F.3d at 1006 (objective willfulness determination  
4 “entails an objective assessment of potential defenses based on the risk presented by the patent.  
5 Those defenses may include questions of infringement but also can be expected in almost every  
6 case to entail questions of validity[.]”). Samsung’s defense is not reasonable if it is “objectively  
7 baseless.” *Id.* at 1007-08. An “objectively baseless” defense is one which “no reasonable litigant  
8 could realistically expect [to] succe[ed] on the merits.” *Id.* at 1007 (citation omitted).

9         The Court finds that Samsung’s defense to infringement of claim 8 was not objectively  
10 baseless. As a preliminary matter, as noted above, Dr. Cockburn and Dr. Greenberg had differing  
11 opinions concerning whether Plaisant “teaches” away from the use of sliders and thus whether the  
12 person of ordinary skill in the art would have a motivation to combine Plaisant and the Neonode.  
13 This is not surprising in light of the fact that there is language in Plaisant to support either expert’s  
14 interpretation. This is because Plaisant evaluates the pros and cons of various types of “toggles”  
15 used to change the state of a device and concludes generally that “the evaluation of the toggles  
16 showed some important differences in personal preferences.” DX 344.002. On the one hand,  
17 Plaisant states that “toggles that are pushed seemed to be preferred over the toggles that slide,”  
18 “sliding is a more complex task than simply touching,” and “sliders are more difficult to implement  
19 than buttons[.]” DX 344.002. On the other hand, Plaisant seems to encourage the use of sliders by  
20 noting that users “used sliding motions successfully to manipulate the sliding toggles,” by noting  
21 that the fact that “user[s] use [sliders] correctly is encouraging,” and by noting that “another  
22 advantage of the sliding movement is that it is less likely to be done inadvertently therefore making  
23 the toggle very secure[.] This advantage can be pushed further and controls can be designed to be  
24 very secure by requiring more complex gestures[.]” DX 344.002.

25         While Dr. Cockburn testified that there was no motivation to combine the two references,  
26 Dr. Greenberg testified to the contrary, noting how Plaisant “teaches that the sliding toggles  
27 worked” and how Plaisant states that the fact that “user[s] use [sliders] correctly is encouraging.”  
28

1 ECF No. 1717 at 1972-73. Based on Dr. Greenberg’s testimony and the language in Plaisant  
2 suggesting Plaisant encouraged use of sliders, the Court cannot find that Samsung’s reliance on an  
3 invalidity defense was objectively baseless. Further, a motivation to combine may “come from the  
4 nature of a problem to be solved, leading inventors to look to references relating to possible  
5 solutions to that problem.” *Ruiz v. Found. Anchoring Sys., Inc.*, 357 F.3d 1270, 1276-77 (Fed. Cir.  
6 2004) (citation omitted) (“[B]ecause the prior art references address the narrow problem of  
7 underpinning existing building foundations, a person seeking to solve that exact same problem  
8 would consult the references and apply their teachings together.”). Here, in light of Dr.  
9 Greenberg’s opinion and the language in the prior art references, the reasonable litigant could have  
10 believed that the two references provided a motivation to combine by describing a similar solution  
11 – the use of sliding motions – to solve the problem of inadvertent activation in touchscreen devices.  
12 *See* DX 344.002 (Plaisant suggesting sliding toggles are preferable for preventing inadvertent  
13 activation in touchscreen devices: “[A]nother advantage of the sliding movement is that it is less  
14 likely to be done inadvertently therefore making the toggle very secure[.]”); DX 342.013 (Neonode  
15 citing a similar inadvertent activation problem in mobile phones and advocating a similar sliding  
16 solution by stating, “[T]o make sure no unintentional calls are made[,] . . . [s]weep right to unlock  
17 your unit”).

18           Apple argues Samsung had no reasonable invalidity defense because this Court previously  
19 concluded at the preliminary injunction phase that Apple was likely to withstand Samsung’s  
20 obviousness challenge to the validity of the ’721 patent. Opp’n at 22-23 (citing ECF No. 221 at  
21 51). However, the Court finds that its prior conclusion at the preliminary injunction stage does not  
22 render Samsung’s reliance on its invalidity defense objectively baseless. At the preliminary  
23 injunction stage, Samsung failed to show that the Neonode qualified as a prior art reference, and  
24 accordingly the Court disregarded the Neonode in its invalidity analysis. ECF No. 221 at 50.  
25 Further, the Court noted that Samsung’s prior expert failed to identify any reason to combine  
26 Plaisant with “a handheld device.” *Id.* at 50-51. Here, in contrast, there is no dispute that the  
27 Neonode is a prior art reference, and Samsung’s expert Dr. Greenberg has provided a reason to  
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1 combine Plaisant and the Neonode. *See* ECF No. 1717 at 1974. Thus, the Court finds that its prior  
2 conclusion at the preliminary injunction stage does not render Samsung’s reliance on its invalidity  
3 defense based on the Neonode and Plaisant objectively baseless.

4 Further, while Apple argues that the U.S. Patent and Trademark Office (“PTO”) considered  
5 the Neonode and Plaisant yet still issued claim 8, Opp’n at 22, the PTO’s determinations are not  
6 dispositive because the Federal Circuit has found no objective willfulness even where a  
7 defendant’s invalidity defense was based on a prior art reference that was before the PTO and the  
8 PTO found the prior art reference did not invalidate the claim. *See, e.g., Spine Solutions*, 620 F.3d  
9 at 1319-20 (reversing district court’s denial of defendant’s motion for judgment as a matter of law  
10 of no willfulness because defendant had an objectively reasonable invalidity defense based on two  
11 prior art references, irrespective of the fact that the PTO had the two prior art references before it  
12 when issuing the patent); *Univ. of Pittsburgh of Commonwealth Sys. of Higher Educ. v. Varian*  
13 *Med. Sys., Inc.*, 561 Fed. Appx. 934, 943-45 (Fed. Cir. 2014) (unpublished) (reversing district  
14 court’s finding that defendant’s invalidity defense was objectively unreasonable, despite  
15 acknowledging that the PTO had found that the prior art the defendant relied upon did not  
16 invalidate the asserted claims when reexamining the patent).

17 In sum, Samsung’s infringement of the ’721 patent was not objectively willful because  
18 Samsung’s invalidity defense was not objectively baseless. Accordingly, Apple has not met its  
19 burden to show clear and convincing evidence that Samsung acted despite an objectively high  
20 likelihood that its actions would infringe a valid patent. Samsung’s motion for judgment as a matter  
21 of law that its infringement of the ’721 patent was not willful is GRANTED.

22 **F. Invalidity of the ’172 Patent**

23 Samsung moves for judgment as a matter of law that no reasonable jury could find claim 18  
24 of the ’172 patent not invalid. Mot. at 25-26. Claim 18 of the ’172 patent covers a particular form  
25 of text correction, in which a “current character string” is displayed in a first and second area of a  
26 touch screen display. JX 13. The user can replace a mistyped word (*i.e.*, the “current character  
27 string”) by selecting a delimiter or selecting a replacement word in the second area. *Id.* The user  
28

1 can also keep the “current character string” by selecting it in the second area. *Id.* The jury found  
2 claim 18 of the ’172 patent not invalid. Samsung claims that a combination of two prior art  
3 references, U.S. Patent No. 7,880,730 (“Robinson”) and International Publication No. WO  
4 2005/008899 A1 (“Xrgomics”), render claim 18 obvious. Below, the Court first examines whether  
5 substantial evidence supported the jury’s underlying factual conclusions that there was a significant  
6 gap between the prior art and the patent and that there were secondary indicia of non-obviousness.  
7 The Court DENIES Samsung’s motion.

8 First, the Court notes that there was conflicting expert testimony on the question of  
9 obviousness. Samsung’s expert, Dr. Wigdor, testified that Robinson disclosed every limitation of  
10 claim 18 except for one—that the “current character string [appear] in the first area.” ECF No. 1717  
11 at 2015-17; 2023-24. Wigdor testified that Xrgomics disclosed that limitation by including the  
12 current character string in the first area, and that the person of ordinary skill in the art would  
13 combine Robinson and Xrgomics to fill the missing element in Robinson. *Id.* at 2018-19; 2023-24.

14 However, Apple’s expert, Dr. Cockburn, testified that Robinson missed several limitations  
15 of claim 18 in addition to the “current character string in the first area” limitation. ECF No. 1927 at  
16 2903-05. For instance, Robinson missed the limitation that “the current character string in the first  
17 area is replaced with the suggested replacement string when the user presses a delimiter.” *Id.* at  
18 2905. Dr. Cockburn further testified that Xrgomics, though it discloses the “current character string  
19 in the first area” limitation, *id.* at 2905, similarly does not disclose the limitation that “the current  
20 character string in the first area is replaced with the suggested replacement string when the user  
21 presses a delimiter” because Xrgomics offers alternative words that *complete* the current character  
22 string in the first area rather than *correct* that current character string. *Id.* at 2904-05 (testifying that  
23 Xrgomics is a “word completion” patent, not a “spelling correction” patent and that “there’s no  
24 correction” going on in Xrgomics because Xrgomics just adds letters to the end of the current  
25 character string – *i.e.*, it offers alternative words that complete that word). Finally, contrary to what  
26 Dr. Wigdor testified, Dr. Cockburn opined that the combination of Robinson and Xrgomics did not  
27 disclose the elements of claim 18 and did not render claim 18 obvious because Xrgomics did not  
28

1 “fill th[e] gaps” in Robinson. *Id.* Based on this conflicting expert testimony, the jury was free to  
2 “make credibility determinations and believe the witness it considers more trustworthy.” *Kinetic*,  
3 688 F.3d at 1362 (citation omitted). The jury’s finding of validity indicates that the jury made an  
4 implied finding of fact affirming Dr. Cockburn’s testimony that Robinson and Xrgomics did not  
5 disclose all the elements of claim 18 and rejecting Dr. Wigdor’s opinion of obviousness. *Id.* at  
6 1363 (“[W]hether the prior art discloses the limitations of a particular claim is a question of fact to  
7 be determined by the jury.”). In other words, the jury implicitly rejected Samsung’s argument that  
8 it would be obvious to combine two things—the “current character string in the first area” feature in  
9 Xrgomics and Robinson’s feature of having a suggested replacement string in the second area—in  
10 order to come up with claim 18’s limitation that “the current character string in the first area is  
11 replaced with the suggested replacement string when the user presses a delimiter.” Mot. at 27. The  
12 Court must give that finding deference. *Kinetic*, 688 F.3d at 1356-57. Crediting Dr. Cockburn’s  
13 testimony over Dr. Wigdor’s, the Court cannot say that the jury’s implied finding that the gap  
14 between the prior art and claim 18 was significant was not supported by substantial evidence.

15 Second, the jury’s finding of non-obviousness means the jury implicitly rejected Samsung’s  
16 claim, and Dr. Wigdor’s testimony, that there were no secondary indicia of non-obviousness. ECF  
17 No. 1717 at 2024; Mot. at 28. The Court must defer to this implicit factual finding. *See Kinetic*,  
18 688 F.3d at 1356-57. Apple cites substantial evidence to support the jury’s finding, including  
19 Dr. Cockburn’s testimony that there was industry praise for claim 18 as illustrated in Samsung’s  
20 internal documents and comments from carriers “that they want . . . the claim 18 mechanism.” ECF  
21 No. 1927 at 2906; ECF No. 1623 at 698-700 (discussing PX 168, a Samsung internal document  
22 reflecting T-Mobile’s request that Samsung modify its autocorrect technology to adopt the  
23 functionality of claim 18).<sup>3</sup>

24 <sup>3</sup> Samsung has directed the Court to the PTO’s recent non-final rejection of claim 18 in an *ex parte*  
25 reexamination. *See* ECF No. 1951. However, this preliminary decision does not affect the outcome  
26 here. The Federal Circuit has noted that initial rejections by the PTO are generally entitled to  
27 minimal weight. *Hoechst Celanese Corp. v. BP Chems. Ltd.*, 78 F.3d 1575, 1584 (Fed. Cir. 1996)  
28 (noting that non-final office actions are so commonplace that they “hardly justif[y] a good faith  
belief in the invalidity of the claims” for willfulness purposes) (citation omitted); *see also id.* at  
1584 (stating that a grant of a request for reexamination “does not establish a likelihood of patent  
invalidity”); *Q.G. Prods. v. Shorty, Inc.*, 992 F.2d 1211, 1213 (Fed. Cir. 1993) (noting that initial

1 In light of the jury’s factual findings, this Court cannot conclude that there is clear and  
2 convincing evidence that it would have been obvious, as a matter of law, to bridge the gaps  
3 between the prior art and claim 18. Accordingly, the Court DENIES Samsung’s motion for  
4 judgment as a matter of law that claim 18 of the ’172 patent is invalid.

5 **G. Invalidation of Claim 25 of the ’959 Patent**

6 The jury determined that asserted claim 25 of Apple’s ’959 patent was not invalid. *See* ECF  
7 No. 1884 at 7. Claim 25 depends from claim 24 and recites:

8 24. A computer readable medium for locating information from a plurality of  
9 locations containing program instructions to:  
10 receive an information identifier;  
11 provide said information identifier to a plurality of heuristics to locate information  
12 in the plurality of locations which include the Internet and local storage  
13 media;  
14 determine at least one candidate item of information based upon the plurality of  
15 heuristics; and  
16 display a representation of said candidate item of information.

17 25. The computer readable medium of claim 24, wherein the information identifier  
18 is applied separately to each heuristic.

19 ’959 Patent cls. 24, 25. Samsung moves for judgment as a matter of law that claim 25 is invalid,  
20 based on three grounds: (1) anticipation, (2) obviousness, and (3) indefiniteness. The Court  
21 addresses each basis in turn and DENIES Samsung’s motion.

22 **1. Anticipation**

23 First, Samsung contends that the WAIS reference anticipates claim 25. A patent claim is  
24 invalid for anticipation under 35 U.S.C. § 102 “if each and every limitation is found either  
25 expressly or inherently in a single prior art reference.” *Bristol-Myers Squibb Co. v. Ben Venue*  
26 *Labs., Inc.*, 246 F.3d 1368, 1374 (Fed. Cir. 2001). Whether a patent is anticipated is a question of  
27

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28 patent “rejections often occur as a part of the normal application process”); *Minemyer v. B-Roc*  
*Reps., Inc.*, 2012 WL 346621, at \*4 (N.D. Ill. Feb. 2, 2012) (“The cases are virtually uniform in  
holding that office actions at the PTO are not relevant on the question of patent invalidity or willful  
infringement. . . . The cases recognize that interim acceptances, rejections and adjustments are the  
norm at the PTO.”). Accordingly, the Court does not find that the PTO’s non-final office action is a  
sufficient basis for overturning the jury verdict.

1 fact. *Green Edge Enters., LLC v. Rubber Mulch Etc., LLC*, 620 F.3d 1287, 1297 (Fed. Cir. 2010).  
2 Anticipation must be shown by clear and convincing evidence. *Id.* at 1292.<sup>4</sup>

3 At trial, Samsung relied on software called freeWAIS-sf 2.0 (DX 301, the “WAIS”  
4 reference) as alleged prior art, and presented testimony from three witnesses supposedly showing  
5 that the software qualified as prior art and disclosed all limitations of claim 25. “WAIS” is an  
6 acronym for “Wide Area Information Server.” Tr. at 1845:18-21. Samsung first called Brewster  
7 Kahle, founder of the Internet Archive, to testify that he conceived of the WAIS project as a system  
8 that could “basically search your own hard drive, your own personal computer of e-mail and  
9 memos or, or presentations and the like.” *Id.* at 1845:3-5, 1846:4-16, 1853:21-25. Next, Samsung  
10 called Ulrich Pfeifer to explain that he developed the freeWAIS-sf software in the mid-1990s, and  
11 that WAIS was “a program to search documents and your local computer or by the web.” *Id.* at  
12 1863:4-16; *see also id.* at 1863:18-23, 1865:17-21 (stating that freeWAIS-sf was available online).  
13 Finally, Samsung relied on Dr. Martin Rinard for expert opinions that the WAIS reference  
14 disclosed various limitations of claim 25, including the use of a “heuristic ranking algorithm.” *Id.*  
15 at 1915:21-1916:16.

16 Despite Samsung’s presentation, the jury had multiple bases from which to conclude that  
17 Samsung failed to demonstrate with clear and convincing evidence that claim 25 was invalid.  
18 Dr. Rinard expressly relied on “the software distribution that contains the source code for WAIS.”  
19 Tr. at 1914:6-9; *see also id.* at 2915:11-15. Through its expert Dr. Alex Snoeren, Apple introduced  
20 testimony that freeWAIS-sf did not contain “program instructions” as required by claim 25 because  
21 it contained only source code, not an executable program. Dr. Snoeren told the jury that “the way  
22 source code works is that’s for humans to read and write. Computers don’t actually execute source  
23 code. So in order to get program instructions, you have to compile that code. So the source code  
24 itself wouldn’t actually even meet the preamble of the claim.” *Id.* at 2824:7-21. Samsung states  
25 incorrectly that Dr. Snoeren contradicted himself by relying on source code for his infringement  
26 opinions. Dr. Snoeren analyzed source code in the accused products, *see id.* at 950:12-21, but also

27 \_\_\_\_\_  
28 <sup>4</sup> The Court previously denied Apple’s motion for summary judgment of no invalidity of claim 25.  
*See* ECF No. 1151 at 27-29.



1 explained that the accused devices had flash memory containing “program instructions,” *id.* at  
2 949:12-18, and there was no dispute that the accused Samsung devices had compiled code.  
3 Moreover, the parties did not request claim construction of “program instructions.” In *Versata*  
4 *Software, Inc. v. SAP America, Inc.*, the Federal Circuit addressed a similar situation, where the  
5 parties did not request construction of “computer instructions,” and held that “[w]hether ‘computer  
6 instructions’ can include source code thus becomes a pure factual issue.” 717 F.3d 1255, 1262  
7 (Fed. Cir. 2013). While the *Versata* jury concluded that the disputed source code did constitute  
8 “computer instructions,” the jury here was free to reach the opposite conclusion from the  
9 conflicting expert testimony.

10 Dr. Snoeren also opined that freeWAIS-sf did not teach the limitation of “plurality of  
11 heuristics to locate information in the plurality of locations.” Regarding “plurality of heuristics,”  
12 Dr. Snoeren critiqued Dr. Rinard’s demonstration because it repeated the same heuristic on  
13 multiple computers, “so what we have here is two copies of the same heuristic,” such that “[w]e  
14 don’t have a plurality of heuristics.” Tr. at 2823:7-2824:6. Regarding “plurality of locations,”  
15 Dr. Snoeren also testified that the WAIS source code did not show searching on the Internet, only  
16 on “a local server and a server on another machine.” *Id.* at 2825:7-19. On these points, the jury  
17 could reasonably have credited Apple’s expert evidence over Samsung’s.

18 Additionally, Apple called into question whether WAIS qualified as prior art. Samsung  
19 relied on the WAIS reference being known or used in the United States prior to the ’959 patent’s  
20 priority date. *See* 35 U.S.C. § 102(a) (2006). Dr. Rinard admitted that he did not know of any  
21 actual computers in the United States that ran freeWAIS-sf before the ’959 patent’s priority date of  
22 January 5, 2000. *See* Tr. at 1953:8-25. On cross-examination, Mr. Pfeifer (the developer of  
23 freeWAIS-sf) also equivocated as to whether freeWAIS-sf was available from servers in the United  
24 States, or only in four countries abroad, before the ’959 patent’s priority date. *See id.* at 1870:9-21  
25 (“I would not want to rule out that I put one copy of, or fetched one copy from the United States.”).  
26 Mr. Pfeifer was also unable to confirm the configuration of any freeWAIS-sf systems that allegedly  
27  
28

1 existed prior to January 5, 2000. *See id.* at 1871:3-1872:14. Accordingly, the jury could have  
2 reasonably determined that Samsung failed to show that WAIS qualified as prior art.

3 **2. Obviousness**

4 Second, Samsung contends that claim 25 would have been obvious as a matter of law,  
5 based on a combination of “Smith” (JX 55, U.S. Patent No. 7,653,614) and “Shoham” (JX 56, U.S.  
6 Patent No. 5,855,015). As noted above, obviousness is a question of law, but requires the court to  
7 “presume that the jury resolved the underlying factual disputes in favor of the verdict [] and leave  
8 those presumed findings undisturbed if they are supported by substantial evidence.” *Kinetic*, 688  
9 F.3d at 1356-57 (citation and quotation omitted). At trial, Dr. Rinard opined that Smith is “another  
10 example of universal search” employing heuristics, Tr. at 1930:2-10, that Shoham used  
11 “conventional heuristic search,” *id.* at 1931:19-23, and that those skilled in the art would have been  
12 motivated to combine the two, *id.* at 1931:24-1932:5. Dr. Rinard also briefly touched on secondary  
13 considerations of non-obviousness, claiming that there was no commercial success or copying. *See*  
14 *id.* at 1932:16-1933:9.

15 However, Dr. Rinard’s obviousness analysis was cursory, without substantive analysis of  
16 the disclosures of Smith or Shoham, or a limitation-by-limitation analysis of claim 25. *See*  
17 *generally id.* at 1929:9-1933:9. Dr. Snoeren provided greater testimony about the contents of Smith  
18 and Shoham, opining that there would have been no reason to combine Smith (“a patent for a fancy  
19 set top box or table box”) with Shoham (“a very theoretical mathematical patent”), and that such a  
20 combination would not have disclosed all elements of claim 25. *Id.* at 2827:4-25. In light of this  
21 conflicting testimony, the jury was entitled to assess the experts’ credibility on these issues. *See*  
22 *Kinetic*, 688 F.3d at 1362. Thus, the jury could have determined that Smith and Shoham failed to  
23 teach the elements of claim 25, and that there would have been no reason to combine those  
24 references. Based on those implied findings, the Court cannot conclude as a matter of law that  
25 claim 25 would have been obvious.

26 Samsung asserts that Dr. Snoeren’s failure to give a “point-by-point response” to  
27 Dr. Rinard or address secondary considerations renders Dr. Snoeren’s opinions “flawed as a matter  
28

1 of law” such that they “cannot be considered in evaluating obviousness.” Mot. at 32. These  
2 arguments distort the ultimate burden of proof on obviousness. *See Novo Nordisk A/S v. Caraco*  
3 *Pharm. Labs., Ltd.*, 719 F.3d 1346, 1353 (Fed. Cir. 2013) (noting that “the burden of persuasion  
4 remains with the challenger during litigation” for obviousness).

### 5 3. Indefiniteness

6 As noted above, the Supreme Court decided *Nautilus* on June 2, 2014 (after Samsung filed  
7 its current motion) and held that indefiniteness turns on whether claims define the invention “with  
8 reasonable certainty.” 134 S. Ct. at 2124. Samsung now argues that the term “heuristic” in the ’959  
9 patent is indefinite as a matter of law under this new standard.

10 During summary judgment proceedings, the Court denied Samsung’s motion for judgment  
11 that the term “heuristic” in the ’959 patent was indefinite under the now-overruled “insolubly  
12 ambiguous” standard, but noted: “Samsung remains free to raise the issue of indefiniteness again  
13 should the term ‘heuristic’ become central to Apple’s attempts to distinguish the ’959 Patent from  
14 any prior art Samsung asserts at trial.” ECF No. 1151 at 33 n.11. The parties now dispute whether  
15 Apple in fact tried to distinguish the prior art at trial on the basis of “heuristic.” Samsung contends  
16 that Apple relied exclusively on this term to rebut invalidity, while Apple argues that it relied only  
17 on “*plurality* of heuristics,” not the definition of “heuristic” itself. Without deciding this issue, and  
18 for purposes of this motion, the Court addresses Samsung’s indefiniteness arguments under the  
19 intervening *Nautilus* decision. The Court determines that Samsung has not shown by clear and  
20 convincing evidence that “heuristic” is indefinite.

21 The Court previously addressed the meaning of “heuristic.” In resolving Apple’s motion for  
22 a preliminary injunction, the Court construed the similar term “heuristic algorithm” in U.S. Patent  
23 No. 8,086,604 (which is related to the ’959 patent and shares a common specification), based on  
24 that patent’s specification, prosecution history, and extrinsic evidence from the parties. *See* ECF  
25 No. 221 at 15-19. On appeal, when addressing the preliminary injunction in this case, the Federal  
26 Circuit reversed other aspects of this Court’s claim construction, but did not disturb the  
27 construction of “heuristic algorithm.” *See Apple, Inc. v. Samsung Elecs. Co., Ltd.*, 695 F.3d 1370,  
28

1 1378-80 (Fed. Cir. 2012). Although indefiniteness was not an issue in the appeal and the Federal  
2 Circuit’s analysis preceded *Nautilus*, the Federal Circuit’s analysis may be some indication that  
3 “heuristic” is not indefinite and has a reasonably certain meaning.

4 Later, at the summary judgment stage, the Court further addressed the meaning of  
5 “heuristic.” Without objection from the parties, the Court construed “heuristic” in the ’959 patent  
6 consistently with its prior construction of “heuristic algorithm,” to mean: “some ‘rule of thumb’  
7 that does not consist solely of constraint satisfaction parameters.” ECF No. 1151 at 31. As noted  
8 above, the Court rejected Samsung’s indefiniteness arguments in Samsung’s summary judgment  
9 motion. The Court distinguished “heuristic” from other terms held to be indefinite—such as  
10 “fragile gel” in *Halliburton Energy Services, Inc. v. M-I LLC*, 514 F.3d 1244 (Fed. Cir. 2008)—  
11 because “neither the term ‘heuristic’ nor the Court’s construction of it involves a word of degree,  
12 pure functional language, or other danger sign that typically triggers indefiniteness concerns.” ECF  
13 No. 1151 at 32.

14 Furthermore, both Dr. Rinard and Dr. Snoeren applied the term “heuristic” under this  
15 Court’s construction to the accused Samsung devices and the asserted prior art without difficulty.  
16 *See* Tr. at 1915:21-1916:16 (Rinard discussing how WAIS “implement[s] a rule of thumb”), 954:1-  
17 17 (Snoeren identifying accused “code that actually explains how the rule of thumb works”). Other  
18 than conclusory allegations that the term is “ill-defined,” Samsung provides no clear and  
19 convincing evidence for holding that “heuristic” is indefinite. *See* Reply at 17-18; *cf. Bluestone*  
20 *Innovations LLC v. Nichia Corp.*, No. 12-CV-00059-SI, 2014 U.S. Dist. LEXIS 87182, at \*36  
21 (N.D. Cal. June 24, 2014) (“Defendants have failed to provide the Court with any evidence  
22 showing that someone skilled in the relevant art would be unable to ascertain the scope of claim 9  
23 with reasonable certainty.”). Accordingly, the Court DENIES Samsung’s indefiniteness challenge  
24 to the ’959 patent.

#### 25 **H. Invalidity of Claim 20 of the ’414 Patent**

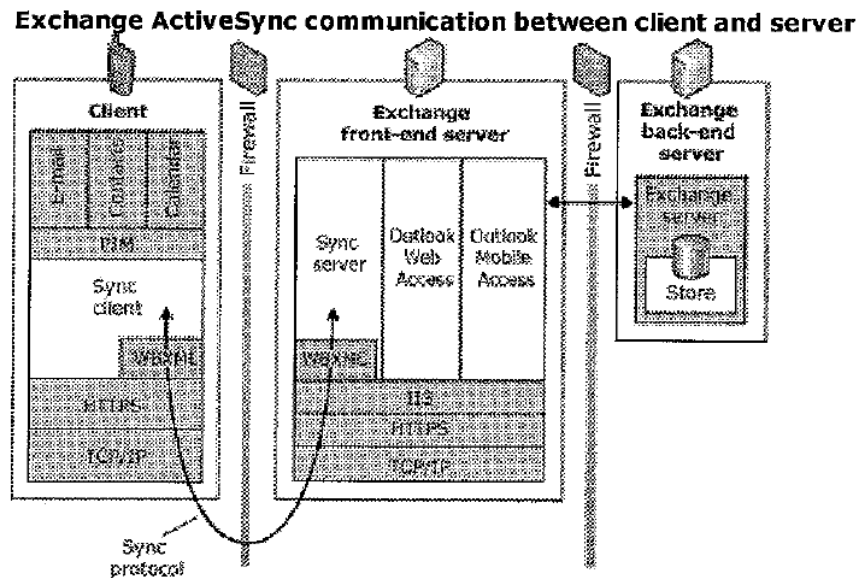
26 The jury also determined that asserted claim 20 of Apple’s ’414 patent was not invalid. *See*  
27 ECF No. 1884 at 7. Claim 20 depends from claim 11 and recites:

1 11. A computer readable storage medium containing executable program  
 2 instructions which when executed cause a data processing system to perform  
 3 a method comprising:  
 4 executing at least one user-level non-synchronization processing thread, wherein the  
 5 at least one user-level non-synchronization processing thread is provided by  
 6 a user application which provides a user interface to allow a user to access  
 7 and edit structured data in a first store associated with a first database; and  
 8 executing at least one synchronization processing thread concurrently with the  
 9 executing of the at least one user-level non-synchronization processing  
 10 thread, wherein the at least one synchronization processing thread is  
 11 provided by a synchronization software component which is configured to  
 12 synchronize the structured data from the first database with the structured  
 13 data from a second database.

14 20. The storage medium as in claim 11 wherein the synchronization software  
 15 component is configured to synchronize structured data of a first data class  
 16 and other synchronization software components are configured to  
 17 synchronize structured data of other corresponding data classes.

18 '414 Patent cls. 11, 20. Samsung now seeks judgment as a matter of law that claim 20 is invalid for  
 19 anticipation. The Court determines that substantial evidence supports the verdict, and DENIES  
 20 Samsung's motion.

21 Samsung asserts that Windows Mobile 5.0, "a system from Microsoft that runs on wireless  
 22 devices" (Tr. at 2184:16-21), disclosed all elements of claim 20. To explain how Windows Mobile  
 23 5.0 operated, Samsung's expert for the '414 patent, Dr. Jeffrey Chase, relied on the following  
 24 diagram from an exhibit entitled "Exchange ActiveSync and Exchange 2003":



1 DX 317 at 2; *see also* SDX 3648; SDX 3653. Dr. Chase testified that Windows Mobile 5.0 had  
2 “components called Providers for e-mail, contacts, and calendar” that “provide the synchronization  
3 processes threads I spoke about.” Tr. at 2193:9-20. The parties raise several disputes regarding the  
4 limitation of “wherein the *at least one* synchronization processing thread *is provided by* a  
5 synchronization software component.”

6 **1. “provided by”**

7 First, Samsung argues that Apple distorted the plain meaning of “provided by” when it  
8 argued that a synchronization software component must “create” a thread. This argument is not  
9 persuasive. Samsung relies on testimony from one of the ’414 patent’s named inventors, Gordon  
10 Freeman, who said that a thread “would be provided by” a component if the component “would  
11 have executing code and that executing code must execute in a thread.” Tr. at 2854:9-19. However,  
12 the Federal Circuit has held that “inventor testimony as to the inventor’s subjective intent is  
13 irrelevant to the issue of claim construction.” *Howmedica Osteonics Corp. v. Wright Med. Tech.,*  
14 *Inc.*, 540 F.3d 1337, 1347 (Fed. Cir. 2008). Samsung did not request claim construction of  
15 “provided by” and agrees that the jury was entitled to rely on the plain and ordinary meaning of the  
16 term. *See* Reply at 19.

17 The jury heard testimony from Dr. Snoeren that a software component does not “provide” a  
18 thread unless it creates one: “Q. Are you saying that providing a thread is the same thing as  
19 creating a thread, sir? Yes or no? A. Yes, sir. I’ve said that, and I’ll say it again.” Tr. at 2855:7-9.  
20 Moreover, Samsung made this argument when seeking summary judgment of invalidity, and the  
21 Court rejected it, concluding that “Samsung has not established that a reasonable jury would  
22 necessarily find that a synchronization software component that ‘execute[s] on’ or ‘provid[es] the  
23 instructions’ for a thread discloses the claim limitation that the component ‘provide[]’ the thread  
24 itself.” ECF No. 1151 at 24-25. Thus, Samsung’s post-trial attempt to dispute the meaning of  
25 “provided by” is misplaced. *See Hewlett-Packard Co. v. Mustek Sys., Inc.*, 340 F.3d 1314, 1320-21  
26 (Fed. Cir. 2003) (“[I]t is too late at the JMOL stage to argue for or adopt a new and more detailed  
27  
28

1 interpretation of the claim language and test the jury verdict by that new and more detailed  
2 interpretation.”).

3           Moreover, in opposing Apple’s motion for judgment as a matter of law of infringement of  
4 the ’414 patent, Samsung takes a contrary position about revisiting claim construction, in  
5 connection with the limitation of “configured to synchronize structured data.” In opposing Apple’s  
6 motion, Samsung argues that the jury was entitled to determine that “configured to synchronize”  
7 requires that the software component perform the synchronization directly, not “cause” another  
8 component to do so indirectly. *See* ECF No. 1906 at 6-7. Yet in Samsung’s motion, Samsung  
9 contends that the jury was *not* entitled to determine that “provided by” requires direct causation.  
10 *See* Mot. at 37. Samsung’s conflicting positions underscore the Federal Circuit’s prohibition  
11 against arguing for a new claim construction at the post-trial stage. It is too late for Samsung to  
12 propose a new construction of “provided by.”

13                           **2. “at least one synchronization processing thread”**

14           Second, Samsung argues that even under Apple’s view of “provided by,” Windows Mobile  
15 5.0 clearly disclosed at least one synchronization processing thread created by a synchronization  
16 software component. In addition to the “E-mail,” “Contacts,” and “Calendar” Providers shown in  
17 DX 317, Samsung claims that Windows Mobile 5.0 also included an “IMAP Mail” component. *Id.*  
18 at 36. Samsung asserts that this IMAP Mail component satisfies the requirements of claim 20  
19 because this component was configured to synchronize structured data and created a  
20 synchronization processing thread. Under Samsung’s theory, even if the E-mail, Contacts, and  
21 Calendar components did not create threads, the IMAP Mail component did so, and claim 20  
22 requires only one such thread. *See id.*

23           Apple contests Samsung’s theory about the IMAP Mail component. Apple claims that this  
24 is “an entirely new invalidity argument that was not presented to the jury.” Opp’n at 35. Apple is  
25 incorrect. During trial, Dr. Chase testified that in addition to the three Provider components (E-  
26 mail, Contacts, and Calendar), “there’s a fourth component here . . . there is in particular a  
27 component called IMAP Mail component that can synchronize data with IMAP Mail servers.” Tr.

1 at 2193:21-2194:16, 2196:10-13; *see also* SDX 3650 (Samsung demonstrative identifying the  
2 “IMAP Mail Component”). Under questioning by Apple’s counsel, Dr. Chase further testified that  
3 “The IMAP Mail component does create a thread, yes. It’s a synchronization processing thread.”  
4 *Id.* at 2254:10-13. Thus, Apple cannot credibly claim surprise at this argument.

5         Alternatively, Apple argues that a reasonable jury could have concluded that this evidence  
6 was not clear and convincing proof of anticipation. The Court agrees. While Dr. Chase referred to  
7 the IMAP Mail component, his analysis was cursory. Of his testimony that Samsung cites in its  
8 motion, only the portions above mention “IMAP.” When asked to identify three synchronization  
9 software components (which claim 20 requires), Dr. Chase pointed only to “three different classes,  
10 E-mail, Contacts and Calendar,” not the IMAP Mail component. *Id.* at 2195:9-14. Even if Dr.  
11 Chase had presented the IMAP Mail component in greater detail, “a jury may properly refuse to  
12 credit even uncontradicted testimony.” *Guy v. City of San Diego*, 608 F.3d 582, 588 (9th Cir.  
13 2010). Although Dr. Snoeren did not discuss the IMAP Mail component specifically, he opined to  
14 the jury that he found no software components in Windows Mobile 5.0 that provide a  
15 synchronization processing thread: “Q. So is there anywhere in Windows Mobile a software  
16 component that is specific to a data class, such as E-mail, Contacts, or Calendar, and also provides  
17 a thread to synchronize that data class? A. No, Ma’am, there’s not.” *Id.* at 2849:2-17. The  
18 excerpted diagram from DX 317 also lacks any reference to IMAP. While this is a close question,  
19 the Court must “view the evidence in the light most favorable to the nonmoving party . . . and draw  
20 all reasonable inferences in that party’s favor,” *Go Daddy*, 581 F.3d at 961, and Samsung bears the  
21 ultimate burden of proving invalidity by clear and convincing evidence.

22         Here, Apple presented sufficient evidence for a reasonable jury to conclude that Windows  
23 Mobile 5.0 did not disclose “at least one synchronization processing thread is provided by a  
24 synchronization software component” because the relevant software components “execute on pre-  
25 existing threads provided by *other* components, and do not provide a thread themselves.” Opp’n at  
26 33.<sup>5</sup> Under cross-examination, Dr. Chase admitted that none of the “E-mail,” “Contacts,” and

27 \_\_\_\_\_  
28 <sup>5</sup> The parties have previously stated that a “thread” is “a series of steps that a computer process  
needs to complete.” ECF No. 1151 at 24 n.8.



1 “Calendar” Providers that he identified in DX 317 “creates” a synchronization thread. *See id.* at  
2 2254:4-21. Moreover, Apple’s expert Dr. Alex Snoeren disagreed with Dr. Chase’s infringement  
3 opinion, based on independent review of the Windows Mobile 5.0 source code, and testified that no  
4 software components in Windows Mobile 5.0 “provide a thread.” *Id.* at 2848:10-2849:17. Samsung  
5 did not call Dr. Chase to rebut Dr. Snoeren’s validity opinions. Accordingly, the Court finds that a  
6 reasonable jury could have found non-infringement on this basis.

7 Apple offers another alternative basis for confirming the verdict: that claim 20 requires  
8 three synchronization software components, and that *all three* must “provide” a synchronization  
9 processing thread. This argument is meritless because it contradicts the plain language of claim 20.  
10 Independent claim 11 (from which claim 20 depends) recites “at least one synchronization  
11 processing thread” that is “provided by a synchronization software component.” Apple posits that  
12 claim 11 “defines the characteristics of a synchronization software component.” Opp’n at 36. This  
13 argument distorts the claim language. Claim 11 states that “a” component must provide “at least  
14 one” thread, but does not say that any and all components must provide threads. Claim 20 further  
15 requires at least two additional “software components,” but does not say that those additional  
16 components must also provide threads. Therefore, this argument has no basis in the claim  
17 language.

18 For the foregoing reasons, the Court concludes that the jury’s verdict of no invalidity was  
19 reasonable, and DENIES Samsung’s motion.

#### 20 **I. SEC’s Liability for Indirect Infringement**

21 The Defendants in this case are three Samsung entities: the Samsung Korean parent  
22 company, Samsung Electronics Corporation (“SEC”), and two United States subsidiaries, Samsung  
23 Telecommunications America (“STA”) and Samsung Electronics America (“SEA”). ECF No. 1714  
24 at 1047 (undisputed fact read to the jury that STA and SEA are subsidiaries of SEC). The jury  
25 found SEC liable for direct infringement, inducing infringement, and contributory infringement  
26 with respect to certain Samsung products and Apple patents.<sup>6</sup> Samsung moves for judgment as a

27 <sup>6</sup> This includes the following Samsung products for the ’647 patent: Admire, Galaxy Nexus,  
28 Galaxy Note, Galaxy Note II, Galaxy S II, Galaxy S II Epic 4G Touch, Galaxy S II Skyrocket,

1 matter of law that SEC is not liable for indirect infringement for these products and patents, either  
2 in the form of inducing infringement under 35 U.S.C. § 271(b) or contributory infringement under  
3 35 U.S.C. § 271(c).<sup>7</sup> The Court DENIES Samsung’s motion.<sup>8</sup>

4 Patent law provides that “whoever actively induces infringement of a patent shall be liable  
5 as an infringer.” 35 U.S.C. § 271(b). A claim for actively inducing infringement requires scienter  
6 and mens rea. *Global-Tech Appliances, Inc. v. SEB S.A.*, 131 S. Ct. 2060, 2068 (2011). Thus, to  
7 prevail on an inducement claim, a patentee must show “first that there has been direct  
8 infringement, and second that the alleged infringer knowingly induced infringement and possessed  
9 specific intent to encourage another’s infringement.” *Kyocera Wireless Corp. v. Int’l Trade*  
10 *Comm’n*, 545 F.3d 1340, 1353–54 (Fed. Cir. 2008) (internal quotation marks and citation omitted);  
11 *accord DSU Med. Corp. v. JMS Co. Ltd.*, 471 F.3d 1293, 1306 (Fed. Cir. 2006) (en banc). “[M]ere  
12 knowledge of possible infringement by others does not amount to inducement; [rather,] specific  
13 intent and action to induce infringement must be proven.” *DSU*, 471 F.3d at 1305 (citation  
14 omitted). Specific intent requires a “showing that the alleged infringer’s actions induced infringing  
15 acts and that he knew or should have known his actions would induce actual infringements.” *Id.* at  
16 1304 (citation omitted). “While proof of intent is necessary, direct evidence is not required; rather,  
17 circumstantial evidence may suffice.” *Water Techs. Corp. v. Calco, Ltd.*, 850 F.2d 660, 668 (Fed.  
18 Cir. 1988). “The requisite intent to induce infringement may be inferred from all of the  
19 circumstances.” *Id.* at 669. There is no requirement that direct evidence be introduced, nor is a  
20 jury’s preference for circumstantial evidence over direct evidence unreasonable *per se.*” *Liquid*  
21

22 Galaxy S III, Stratosphere. ECF No. 1884 at 2, 6 (Amended Verdict Form). This also includes the  
23 following products for the ’721 patent: Admire, Galaxy Nexus, Stratosphere. *Id.* at 5, 6.

24 <sup>7</sup> Apple accused SEC of inducing only STA, not SEA, to infringe the ’647 and ’721. ECF No. 1884  
25 at 2, 5.

26 <sup>8</sup> Samsung also argues that there can be no finding of indirect infringement given that there is no  
27 liability for direct infringement by STA. Mot. at 38 (citing *Dynacore Holdings Corp. v. U.S.*  
28 *Philips Corp.*, 363 F.3d 1263, 1272 (Fed. Cir. 2004), for the proposition that there can be a valid  
finding of inducement and contributory infringement only if there is a predicate offense of direct  
infringement). Because the Court rejects Samsung’s motions for judgment as a matter of law of  
non-infringement of the ’721 and the ’647, the Court rejects Samsung’s argument that there is no  
liability for direct infringement and thus only considers here Samsung’s other argument that “even  
if there were direct infringement, there is no evidence to support the claims for indirect  
infringement.” *Id.*

1 *Dynamics Corp. v. Vaughan Co.*, 449 F.3d 1209, 1219 (Fed. Cir. 2006). Moreover, “[t]he drawing  
2 of inferences, particularly in respect of an intent-implicating question . . . is peculiarly within the  
3 province of the fact finder that observed the witnesses.” *Rolls–Royce Ltd. v. GTE Valeron Corp.*,  
4 800 F.2d 1101, 1110 (Fed. Cir. 1986). A patentee bears the burden of proving inducement by a  
5 preponderance of the evidence. *See Fujitsu Ltd. v. Belkin Int’l, Inc.*, No. 10-CV-03972-LHK, 2012  
6 U.S. Dist. LEXIS 142102, at \*120 (N.D. Cal. Sept. 28, 2012).

7 Here, there is sufficient evidence to support the jury’s verdict that SEC induced STA to  
8 infringe. As a preliminary matter, the requirement that the alleged infringer “knew or should have  
9 known his actions would induce actual infringement necessarily includes the requirement that he or  
10 she knew of the patent.” *DSU*, 471 F.3d at 1304; *Global–Tech Appliances*, 131 S. Ct. at 2068;  
11 *Mentor H/S, Inc. v. Med. Device Alliance, Inc.*, 244 F.3d 1365, 1379 (Fed. Cir. 2001). Apple  
12 presented evidence that SEC knew about the ’647 patent and Apple’s allegation of infringement  
13 since August 2010 when Apple made a presentation to Samsung that Samsung was infringing the  
14 ’647, and knew about all Apple’s other patents since February 8, 2012 when Apple filed its  
15 complaint. ECF No. 1714 at 1043 (undisputed facts read to the jury); PX 132 at 15 (August 2010  
16 Presentation to Samsung); PX 3003 at 33 (deposition of Jun Won Lee, Director of Licensing for  
17 SEC) (describing how Apple told Samsung that Samsung was infringing Apple’s patents). *See*  
18 *EON Corp. IP Holdings, LLC v. Sensus USA, Inc.*, No. C–12–1011 EMC, 2012 WL 4514138, at \*1  
19 (N.D. Cal. Oct. 1, 2012) (complaint suffices to establish knowledge element of induced  
20 infringement).

21 Further, other facts presented at trial provided sufficient circumstantial evidence for a  
22 reasonable jury to conclude that SEC intended to encourage STA’s infringement. The jury learned  
23 STA sold more than 37 million accused units in the United States, and that STA bought these units  
24 from SEC, its parent company. ECF No. 1714 at 1208-09 (Vellturo) (SEC shipped devices to STA  
25 for sale in the United States); ECF No. 1715 at 1285-86 (Vellturo) (SEC manufactured, designed,  
26 and shipped accused units to the United States for resale to carriers and customers by STA); PX  
27 3001 (Justin Denison, Chief Strategy Officer at STA) (noting SEC is parent of STA). The jury also  
28

1 learned that some design teams at STA in the United States worked with and “under [the]  
2 direction” of SEC’s research and development team in South Korea in order to help design,  
3 develop, test, and commercialize Samsung telecommunication devices which STA sold in the  
4 United States. *See* PX 3004 at 87-88 (Tim Sheppard, Vice President of Finance and Operations at  
5 STA); *see also* ECF No. 1716 at 1607 (testimony of Dale Sohn, CEO of STA, stating SEC made  
6 the final decision to include the operating platform in its phones). SEC also exercised a high degree  
7 of control over STA by directly setting the wholesale price at which STA was to sell phones to  
8 carriers in the United States. PX 3004 at 188. Drawing all reasonable inferences in Apple’s favor, a  
9 reasonable jury could find that SEC induced STA’s infringement, given that SEC controlled the  
10 design and manufacture of the smartphones which STA sold, and controlled the price at which  
11 STA sold the devices to carriers in the United States. *See Water Techs.*, 850 F.2d at 668-69  
12 (upholding district court’s finding of specific intent to induce based on defendant’s knowledge of  
13 the patent and because defendant helped direct infringer make the infringing product and exercised  
14 control over manufacture of the product); *Ricoh Co., Ltd. v. Quanta Computer, Inc.*, 550 F.3d  
15 1325, 1343 (Fed. Cir. 2008) (reversing district court’s summary judgment finding of no  
16 inducement because defendant’s role as the designer and manufacturer of the infringing products  
17 “may evidence an intent sufficiently specific to support a finding of inducement.”).

18 Samsung’s arguments to the contrary fail. Samsung argues there is no evidence that SEC  
19 had the specific intent required for inducement. Mot. at 38; Reply at 21. Samsung argues that even  
20 assuming SEC had knowledge of the ’647 patent, Dr. Jeffay’s testimony established SEC’s belief  
21 that it did not infringe the ’647 and that the ’647 is not valid, and thus Samsung did not know that  
22 the acts it was inducing constituted infringement. *Id.* The Court is not persuaded because this issue  
23 is not one in which the evidence permits “only one reasonable conclusion,” as required for this  
24 Court to grant Samsung judgment as a matter of law under Rule 50. *See Conceptus, Inc. v. Hologic,*  
25 *Inc., Inc.*, No. C 09–02280 WHA, 2012 WL 44237, at \*8-9 (N.D. Cal. Jan. 9, 2012) (finding  
26 sufficient evidence to support jury’s finding of indirect infringement and rejecting argument that  
27 because there was evidence that defendant believed plaintiff’s patent was invalid and not infringed,  
28

1 there was insufficient evidence to show intent for indirect infringement); *Water Techs.*, 850 F.2d at  
2 668-69 (finding defendant liable for inducement, despite an asserted “subjective belief that he had  
3 a non-infringing [product]”). Ultimately, because “[i]ntent is a factual determination particularly  
4 within the province of the trier of fact,” this Court sees no reason to disturb the jury’s finding that  
5 SEC had intent to induce infringement. *Fuji Photo Film Co. Ltd. v. Jazz Photo Corp.*, 394 F.3d  
6 1368, 1378 (Fed. Cir. 2005) (declining to disturb jury’s verdict because intent to induce  
7 infringement “is a factual determination.”).

8 For the reasons above, sufficient evidence supports the jury’s finding that SEC is liable for  
9 inducement. Accordingly, the Court need not reach the question of whether the jury’s finding of  
10 contributory infringement for these same products and patents was also supported by substantial  
11 evidence because an additional finding on an alternative theory of indirect infringement will not  
12 change the outcome. *See Apple*, 920 F. Supp. 2d at 1111 (declining to reach whether jury’s finding  
13 of induced infringement was supported by substantial evidence in light of Court’s conclusion that  
14 jury’s finding of direct infringement by SEC was supported by substantial evidence). Accordingly,  
15 the Court DENIES Samsung’s motion for judgment as a matter of law that SEC is not liable for  
16 indirect infringement.

17 **J. Double Recovery**

18 Samsung claims the jury’s verdict “creates impermissible double recovery” with respect to  
19 the Galaxy S II, Galaxy S II Epic 4G Touch, and Galaxy S II Skyrocket (the “Galaxy S II  
20 Products”). Mot. at 39. Samsung notes how in the first case between the parties, Case No. 11-CV-  
21 01846, there was a final judgment awarding damages for design patent infringement by the Galaxy S  
22 II Products, and that the award for these products represented Samsung’s profits, pursuant to 35  
23 U.S.C. § 289. *Id.* (citing ECF No. 2271 at 9-10, post-trial order recognizing that jury awarded  
24 Apple 40 % of Apple’s calculation of Samsung’s profits). Samsung notes how in this case, the jury  
25 awarded damages for infringement of utility patents by the Galaxy S II Products. ECF No. 1884  
26 (Amended Verdict Form). Accordingly, Samsung claims the Court should deduct the full amount  
27  
28

1 of the Galaxy S II awards in this case as impermissible double recovery at this time. Mot. at 39.  
2 The Court DENIES Samsung's request.

3 As a preliminary matter, the Court notes that it denied Samsung's motion in limine before  
4 trial which effectively raised this same issue by asking the Court to exclude evidence of damages  
5 on sales for which Apple had already obtained an award of Samsung's profits in the first case. *See*  
6 ECF No. 1283-3 at 24-27 (motion); ECF No. 1398 at 3 (case management order). The Court  
7 allowed evidence of other forms of damages for the Galaxy S II Products in this second trial on the  
8 basis that if the judgment in the first case is vacated by the Federal Circuit, Apple would likely  
9 wish to seek recovery in the form of lost profits or reasonable royalty damages for those sales in  
10 this second case. ECF No. 1411 at 24 (pretrial conference transcript). Given this possibility, to  
11 prevent the necessity of holding a damages retrial in the instant case, the Court issued a verdict  
12 form in the instant case which separated out the damages for the Galaxy S II Products in the  
13 relevant time periods for which damages in both cases might overlap. *Id.*

14 The Court declines Samsung's request to deduct the full amount of the Galaxy S II awards  
15 in this case at this time. As this Court recognized at the hearing concerning Samsung's motion in  
16 limine, *see* ECF No. 1411 at 23-24, it is well settled law that a patentee that receives profits under  
17 35 U.S.C. § 289 is not entitled to a further recovery for utility patent infringement from the same  
18 sale. *Catalina Lighting, Inc. v. Lamps Plus, Inc.*, 295 F.3d 1277, 1291 (Fed. Cir. 2002); 35 U.S.C.  
19 § 289 (a patentee "shall not twice recover the profit made from the infringement."). It is thus clear,  
20 as Apple concedes, that Apple may only recover one form of damages for each infringing sale,  
21 regardless of how many patents the Galaxy S II Products infringe. ECF No. 1334-3 at 20 (Apple's  
22 opposition to Samsung's motion in limine). Accordingly, this Court has already assured Samsung  
23 that the Court will not allow Apple to attain a double recovery for each infringing sale of these  
24 products. *See* ECF No. 1411 at 24. The only remaining question is when this Court will take action  
25 by formally eliminating any duplicative damages: before entering final judgment in this case before  
26 this case is appealed, as Samsung requests, or *after* appeals of both cases are resolved. The Court  
27 already answered that question by holding at the pretrial conference that after the appeals of both  
28

1 cases are resolved – and assuming “both survive appeal” – the Court will “consult with the parties  
2 [] to determine only one recovery for each sale.” *Id.*

3 Samsung’s arguments to the contrary are unavailing. Samsung claims that because the  
4 jury’s verdict in the instant case “creates” and “includes” a double recovery, the Court must deduct  
5 the full amount of the Galaxy S II awards from the verdict now *before* entering final judgment in  
6 this case and before this case goes up on appeal. Mot. at 39-41. The Court is not persuaded. For  
7 one thing, the verdict in the instant case does not in and of itself “create” or “include” a double  
8 recovery; it is only when Apple *receives* two awards for each infringing sale that an impermissible  
9 double recovery occurs. The cases Samsung cites are not to the contrary. *See, e.g., Catalina*, 295  
10 F.3d at 1291 (recognizing that “once [the patentee] *receives* profits under § 289 for each sale, [the  
11 patentee] is not entitled to further recovery from the same sale[.]”) (emphasis added). Samsung has  
12 not yet paid Apple anything for Samsung’s sales of Galaxy S II Products.

13 Second, Samsung does not cite any case suggesting that in this context, where there are two  
14 different cases with two separate judgments, damages must be deducted before the second case is  
15 appealed. While it is clear that Apple may not actually *receive* two awards for the same infringing  
16 sale of a product, Samsung cites no case holding that a patentee cannot have, pending on appeal,  
17 two separate judgments—in two different cases—which grant the patentee two possible forms of  
18 damages for the same infringing sale. This is the situation that will occur here, as the parties have  
19 already appealed the judgment in the first case,<sup>9</sup> and the parties have suggested they will appeal the  
20 instant case. Samsung’s citation to *Arlington Industries, Inc. v. Bridgeport Fittings, Inc.*, No. 3:01-  
21 CV-0485, 2010 WL 815466, at \*4 (M.D. Penn. Mar. 3, 2010), *aff’d per curiam*, 477 Fed. Appx.  
22 740 (Fed. Cir. 2012) (unpublished), is unavailing. Mot. at 41. There, where a jury had awarded  
23 both the full amount of the patentee’s request for lost profits and a reasonable royalty for the same  
24 sales, the district court rejected the patentee’s request to enter judgment as determined by the jury  
25 and delay deduction of double recovery from the judgment until after appeal. *Id.* The court reduced

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27 <sup>9</sup> Samsung’s opening brief to the Federal Circuit included an appeal of the infringer’s profits award  
28 with respect to the Galaxy S II Products. Brief of the Petitioner-Appellant, *Apple, Inc. v. Samsung  
Elects., Ltd.*, No. 14-1335 (Fed. Cir. May 23, 2014), Docket No. 33.

1 the total award before entering judgment. *Id.* The Federal Circuit summarily affirmed the opinion  
2 without reasoning. *See* 477 Fed. Appx. 740. Critically, however, *Arlington* involved a double  
3 damages award in *the same case*, and did not hold or suggest that when there are two cases with  
4 two separate judgments, damages must be deducted before the second case is appealed.<sup>10</sup> Given  
5 that there is no clear statement of law on this issue, the Court finds no reason to deviate from its  
6 previous decision to address the issue of double recovery after appeal of both cases are resolved.  
7 This decision is most efficient. Notably, if this Court strikes the damages awarded in the instant  
8 case as impermissible double recovery now, and then the judgment of design patent infringement  
9 in the *first* case gets vacated on appeal, this Court will have to reinstate the damages award in this  
10 case on remand after the appeal of this case to ensure Apple actually receives damages for each  
11 infringing sale, assuming the judgment of infringement in this case withstands appellate review.<sup>11</sup>

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12 <sup>10</sup> The same goes for Samsung's other cited cases. *See, e.g., Aero Prods. Int'l, Inc. v. Intex*  
13 *Recreation Corp.*, 466 F.3d 1000 (Fed. Cir. 2006) (reversing as impermissible double recovery  
14 district court's denial of defendant's post-trial motion and court's judgment entering a jury award  
15 of damages *in same case* for both patent and trademark infringement); *Catalina*, 295 F.3d at 1291-  
16 92 (reversing judgment in one case involving double award of infringer's profits and reasonable  
17 royalties).

18 <sup>11</sup> The Court denies Apple's request that this Court calculate a supplemental damages award and  
19 prejudgment interest in Case No. 11-CV-01846 at this time. Despite the fact that the Court  
20 previously ruled that it would wait until the appeals in the first case are resolved before calculating  
21 supplemental damages and prejudgment interest in that case, *see* ECF No. 2271 at 6, 8 (March  
22 2013 post-trial order); ECF No. 2947 at 3 (damages retrial post-trial order declining Apple's  
23 request to reconsider Court's decision), Apple in its opposition to Samsung's motion for judgment  
24 as a matter of law in Case No. 12-CV-00630 renews its request for a supplemental damages award  
25 and pre-judgment interest in Case No. 11-CV-01846. Opp'n at 40-41. Apple's request is  
26 procedurally improper, as it is made in connection with briefing in the *second* case between the  
27 parties, not the *first* case. Second, the Court rejects Apple's request on the merits. Apple now  
28 claims that the Court deferred the award in part to obtain appellate guidance on how supplemental  
damages should be calculated, but that in light of the fact that Samsung has not challenged this  
Court's rulings on supplemental damages in its opening appellate brief, the Federal Circuit will not  
"be providing any further guidance on supplemental damages." Opp'n at 40. However, this Court  
previously explained that obtaining the Federal Circuit's guidance "*both as to the merits* as well as  
to how to calculate supplemental damages, before proceeding with an accounting, is the most  
efficient and acceptable way to proceed." ECF No. 2947 at 3 (emphasis added). The Court  
continues to conclude that it is more efficient to wait for the Federal Circuit's guidance on the  
merits issue of whether Samsung's products infringe Apple's patents before calculating  
supplemental damages and prejudgment interest in that case. *See* ECF No. 2947 at 3 (citing *Intron,*  
*Inc. v. Benghiat*, No. Civ.99-501 (JRT/FLN), 2003 WL 22037710, at \*16 (D. Minn. Aug. 29,  
2003)).



1           Accordingly, consistent with this Court’s ruling at the pretrial conference, the Court will, if  
2 necessary, “consult with the parties [] to determine only one recovery for each sale” after the  
3 appeals of both cases are resolved. ECF No. 1411 at 24. The Court will allow for appropriate  
4 briefing on the double recovery issue at that time. The Court DENIES Samsung’s motion to deduct  
5 any double recovery from the verdict at this time.

6           **K.       Infringement of Claim 15 of the ’239 Patent**

7           Samsung’s ’239 patent is directed to a “remote video transmission system.” Against Apple,  
8 Samsung asserted claim 15, which recites:

9           15. An apparatus for transmission of data, comprising:  
10           a computer including a video capture module to capture and compress video in real  
11           time;  
12           means for transmission of said captured video over a cellular frequency.

13           ’239 Patent cl. 15. The jury found that none of the three accused Apple products (iPhone 4, iPhone  
14 4S, and iPhone 5) infringe. *See* ECF No. 1884 at 11. Samsung seeks judgment as a matter of law of  
15 infringement. The Court finds that substantial evidence supports the jury’s verdict and DENIES  
16 Samsung’s motion.

17           As an initial matter, Samsung claims that “[n]o reasonable jury” could find non-  
18 infringement because “substantial evidence was presented to conclude claim 15 was infringed.”  
19 Mot. at 44. Samsung invokes the wrong legal standard: even if substantial evidence could support a  
20 contrary verdict, Samsung must show a *lack* of substantial evidence that favors the existing verdict,  
21 such that “only one reasonable conclusion” is possible. *Ostad*, 327 F.3d at 881. Here, substantial  
22 evidence supports the non-infringement determination.

23           Samsung focuses on three limitations in claim 15, arguing that Apple’s expert, Dr. James  
24 Storer, made improper arguments for each limitation. First, Samsung argues that Dr. Storer  
25 incorrectly testified that the claimed “video capture module” is restricted to a “video card,” must  
26 receive analog signals, and must be plugged into another component. However, Samsung  
27 mischaracterizes the trial testimony. In explaining his non-infringement opinion, Dr. Storer stated  
28 that he reviewed a bill of materials for an accused iPhone 5 (Tr. at 2738:24-2739:8), a live  
disassembly of an iPhone 5 (*id.* at 2741:8-25), and the testimony of Apple engineer Roberto Garcia

1 (*id.* at 2738:13-23) to determine that the accused devices do not capture video. Contrary to  
2 Samsung’s position, Dr. Storer expressly acknowledged that “[c]laim 15 only requires a video  
3 capture module,” not a video card, and opined that no such module exists in the accused phones.  
4 *Id.* at 2742:6-15. Dr. Storer did testify that no component of the accused phones receives “analog  
5 video,” and “[t]here’s not a cable being plugged in coming from a remote source.” *Id.* at 2743:10-  
6 17. This was not improper argument of claim construction. Samsung did not request claim  
7 construction of “video capture module”—even though the Court provided last-minute construction  
8 of other terms in claim 15 at Samsung’s request. Thus, the jury was entitled to evaluate the plain  
9 and ordinary meaning of the term based on the evidence at trial. *See* ECF No. 1301 at 5. Dr. Storer  
10 testified that he personally worked with video capture modules in the 1990s, and that the iPhones  
11 lacked such hardware. *See id.* at 2727:2-15. Furthermore, Samsung did not object to this testimony.  
12 *See Price v. Kramer*, 200 F.3d 1237, 1252 (9th Cir. 2000) (noting that failure to object to testimony  
13 waives argument on appeal).

14 Next, Samsung claims Apple offered improper arguments about “means for transmission of  
15 said captured video over a cellular frequency.” The Court construed this term to mean: “one or  
16 more modems connected to one or more cellular telephones, and software performing a software  
17 sequence of initializing one or more communications ports on said apparatus, obtaining a cellular  
18 connection, obtaining said captured video, and transmitting said captured video.” ECF No. 1532 at  
19 14. Samsung claims that Dr. Storer gave improper opinions that a “port” required a specific kind of  
20 hardware, and that “connected to” requires a cable. Again, Samsung mischaracterizes the  
21 testimony. Dr. Storer told the jury that the “electrical connections between chips” that Samsung’s  
22 expert identified in the accused iPhones were not “ports” as understood at the ’239 patent’s priority  
23 date. Tr. at 2751:14-2752:9. While Dr. Storer referred to a lack of “cables” connecting the iPhones  
24 to any modems (*id.* at 2745:6-14), he also opined that the phones’ baseband processor—which  
25 Samsung’s expert identified as the claimed “modem”—could not be “connected to one or more  
26 cellular telephones” because the baseband processor was itself part of the phone (*id.* at 2745:15-  
27

1 2746:18). Thus, Apple presented reasoned expert opinions based on the Court’s claim construction  
2 that the jury could have credited.

3 Finally, Samsung contends that Apple improperly tried to limit “video” to “something other  
4 than streaming video and video frames.” Mot. at 45. At trial, Samsung argued that Apple’s  
5 FaceTime application transmits video. In response, Dr. Storer testified that “[t]here is no video at  
6 all on FaceTime” because “an individual frame is created and then it’s immediately transmitted,”  
7 and disagreed with Samsung’s expert because “[a] single frame is not video.” Tr. at 2754:1-25; *see*  
8 *also id.* at 2713:10-2714:3 (Garcia testimony regarding absence of video in FaceTime). Samsung  
9 did not object to this testimony and now identifies no reason why these opinions contradict the  
10 plain and ordinary meaning of “video.” Dr. Storer agreed on cross-examination that his expert  
11 report used the phrase, “the FaceTime application prepares to transmit video” (*id.* at 2781:10-17),  
12 but this does not amount to an admission that FaceTime employs “video” as claimed, particularly  
13 because Mr. Garcia distinguished between “video” and “a video frame” (*id.* at 2713:20-23).

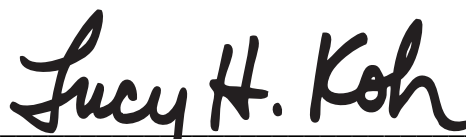
14 Additionally, Samsung argues that Dr. Storer compared the accused products to commercial  
15 embodiments of the ’239 patent, instead of the claim language. Samsung’s argument is misplaced.  
16 As detailed above, Apple presented specific evidence about its accused products and why they do  
17 not infringe. Samsung points to *Amgen Inc. v. Hoechst Marion Roussel, Inc.*, where the Federal  
18 Circuit reversed summary judgment of non-infringement because the district court relied solely on  
19 commercial embodiments, and thus “eschewed the cardinal principle that the accused device must  
20 be compared to the claims rather than to a preferred or commercial embodiment.” 314 F.3d 1313,  
21 1347 (Fed. Cir. 2003). However, that is not the situation here. The jury heard substantial evidence  
22 in addition to Dr. Storer’s discussion of the inventors’ actual products, and also received  
23 instructions to “not compare the Samsung and Apple commercial products to each other.” ECF No.  
24 1847 at 32; *see Motorola, Inc. v. Interdigital Tech. Corp.*, 121 F.3d 1461, 1470 (Fed. Cir. 1997)  
25 (denying new trial where patentee made only a “a few passing references” to commercial products  
26 and “the jury instructions properly cautioned the jury not to compare commercial embodiments to  
27 determine infringement”).



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**IT IS SO ORDERED.**

Dated: September 9, 2014



LUCY H. KOH  
United States District Judge