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 14 SAMSUNG TELECOMMUNICATIONS AMERICA, LLC

15 UNITED STATES DISTRICT COURT

16 NORTHERN DISTRICT OF CALIFORNIA, SAN JOSE DIVISION

17 APPLE INC., a California corporation,

18 Plaintiff,

19 vs.

20 SAMSUNG ELECTRONICS CO., LTD., a
 21 Korean business entity; SAMSUNG
 ELECTRONICS AMERICA, INC., a New
 22 York corporation; SAMSUNG
 TELECOMMUNICATIONS AMERICA,
 23 LLC, a Delaware limited liability company,

24 Defendants.

CASE NO. 11-cv-01846-LHK

**SAMSUNG'S OPPOSITION TO APPLE'S
 MOTION FOR SUMMARY JUDGMENT
 OF NON-INFRINGEMENT OF U.S.
 PATENT NO. 7,362,867 AND
 INVALIDITY OF U.S. PATENT NOS.
 7,456,893 AND 7,577,460**

Date: June 21, 2012
 Time: 1:30 p.m.
 Place: Courtroom 4, 5th Floor
 Judge: Hon. Lucy H. Koh

PUBLIC REDACTED VERSION

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1 **I. INTRODUCTION**

2 Apple's motion for summary judgment of non-infringement and invalidity ("Motion") rests
3 on extreme interpretations of three Samsung patents, interpretations that find no support in the
4 patents themselves or the law. Apple's Motion should be denied in its entirety.

5 First, Apple's request for summary judgment of non-infringement of the '867 patent should
6 be denied. It is based entirely on an erroneous construction for the term "scrambling code" that is
7 contradicted by the plain claim language as well as the other intrinsic evidence. Apple's
8 construction is also contradicted by the extrinsic evidence it relies on as well as testimony from
9 Samsung's technical expert. Under a proper construction of "scrambling code," there can be no
10 dispute that Apple infringes the '867 patent.

11 Next, Apple's request for summary judgment of invalidity of the '893 patent should be
12 denied. Contrary to Apple's assertions, the asserted claims of the '893 patent are not mixed
13 method-apparatus claims. Rather, the claims simply describe how the apparatus functions "upon"
14 an action by the user. Courts addressing the same functional language used in the '893 patent have
15 consistently found that such claims are not indefinite.

16 Finally, Apple's motion for summary judgment of invalidity of the '460 patent should also
17 be denied. The claim at issue includes five steps that correspond to three functions performed on a
18 camera phone. Two of these steps relate to a first function, another two relate to a second
19 function, and the last step relates to a third function. These functions and the corresponding steps
20 are clearly described and supported in the specification and the prosecution history. There is
21 nothing unclear – let alone "insolubly ambiguous" about this claim.

22 **II. APPLE'S MOTION FOR SUMMARY JUDGMENT OF NON-INFRINGEMENT**
23 **OF THE '867 PATENT SHOULD BE DENIED**

24 **1. The '867 Patent**

25 The '867 patent relates to an apparatus for generating scrambling codes in mobile
26 communications systems. Mobile communications systems include base stations that
27 communicate with mobile devices, such as cellular telephones. Scrambling codes are unique
28

1 sequences associated with each base station that allow the mobile devices to differentiate between
2 each base station in the system. ('867 patent, Selwyn Decl. Ex. 1, D.N. 925-6, col. 1:48-50.)

3 Samsung asserts independent claim 25.¹ This claim describes an apparatus for generating
4 scrambling codes. Claim 25 states:

5 An apparatus for generating scrambling codes in mobile communication system
6 having a scrambling code generator, comprising:

7 a first m-sequence generator to generate a first m-sequence;

8 a second m-sequence generator to generate a second m-sequence; and

9 at least one adder for generating a $((K-1)*M+K)$ th Gold code as a Kth primary
10 scrambling code by adding a $((K-1)*M+K)-1$ -times shifted first m-sequence and the
11 second m-sequence,

12 wherein K is a natural number and M is a total number of secondary scrambling
13 codes per one primary scrambling code.

14 According to the plain claim language, the "primary scrambling code" is simply a Gold
15 code generated by adding a first m-sequence and a second m-sequence.

16 2. Apple's Non-Infringement Argument Is Based On An Improper And
17 Unsupported Construction For "Scrambling Code"

18 [REDACTED]

19 [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 [REDACTED] Apple's non-

23 infringement argument is based on a construction of the term "scrambling code" that finds no
24 support in the intrinsic or extrinsic evidence. Under a proper construction of "scrambling code,"
25 there is no dispute that Apple's products infringe.

26 _____

27 ¹ Samsung also asserts dependent claim 26. Apple argues that it does not infringe this claim
28 for the same reasons it does not infringe claim 25.

1 Although Apple does not expressly state its construction for "scrambling code" in its
2 Motion, Apple's construction requires that: (1) a "scrambling code" cannot be a sum of two m-
3 sequences, and (2) a "scrambling code" must be a complex code sequence like the "complex
4 scrambling code sequence $S_{d,n}$ " described in the 3GPP Standard.² (Mot. at 5-6.)

5 No support exists in the intrinsic evidence, however, for Apple's proposed construction.
6 Indeed, Apple ignores the plain claim language and the definitions in the specification that
7 contradict its proposed interpretation. The only evidence Apple offers in support of its
8 construction comes from a portion of the 3GPP standard.³ But rather than supporting Apple, this
9 extrinsic evidence is consistent with Samsung's construction and confirms that a "scrambling
10 code" is a Gold code generated by adding two m-sequences. Such conclusion is also supported by
11 the intrinsic evidence, as well as the testimony of Samsung's expert, Dr. Wesel, and the Intel
12 source code itself.

13 **3. Samsung's Construction For "Scrambling Code" Is Supported By**
14 **Intrinsic And Extrinsic Evidence**

15 One of ordinary skill in the art would understand that a "scrambling code" in the context of
16 the '867 patent is a code generated by adding a first m-sequence and a second m-sequence.
17 (Declaration of Richard D. Wesel, Ph.D. ("Wesel Decl.") at ¶ 38.) As explained below, this
18 construction is supported by the plain claim language, the specification, and extrinsic evidence.

19 (a) Intrinsic Evidence

20 Samsung's construction tracks the plain claim language. Claim 25 requires "at least one
21 adder for generating a $((K-1)*M+K)^{th}$ Gold code as a K^{th} primary scrambling code by adding a
22 $((K-1)*M+K)-1$ -times shifted first m-sequence and the second m-sequence." This language

24 ² A "complex scrambling sequence" is represented as " $Z_n(i)+jZ_n((i+131072) \text{ modulo}(2^{18}-1))$ "
25 in the standard where " $Z_n(i)$ " is a real component (also called the "I-channel" component) and
26 " $jZ_n((i+131072) \text{ modulo}(2^{18}-1))$ " is an imaginary component (also called the "Q-channel"
component). A binary scrambling code is comprised of 1s and 0s. (See Wesel Decl. at ¶¶ 42, 59).

27 ³ Apple's definition is also inconsistent with the construction it provided in its October 31,
28 2011 Local Rule 4-2 disclosures ("primary scrambling code" means "a scrambling code that is
used for channel separation"). (Wesel Decl. Ex. H at 14.)

1 explicitly states that a "scrambling code" is a Gold code generated by adding a first m-sequence
2 and a second m-sequence.⁴

3 The specification repeatedly refers to scrambling codes as codes resulting from adding a
4 first m-sequence and a second m-sequence. (See '867 patent, D.N. 925-6, col. 4:2-3 ("a gold
5 sequence is normally generated through binary adding to two distinct m-sequences,"); col. 4:62-64
6 ("adding the output of the first m-sequence generator and the output of the second m-sequence
7 generator to generate first primary scrambling code for generating primary scrambling code"); col.
8 5:13-14 ("a first summer for adding the first and second m-sequences to generate the primary
9 scrambling code"); col. 5:29-31("a first summer for adding the first and second m-sequences to
10 generate the primary scrambling code"); col. 8:17-20 ("The adder 740 adds the 0-th register values
11 (i.e., the last bits) of the first and second shift register memories 700 and 705 to generate a
12 scrambling code, which becomes the primary scrambling code."); col. 9:57-58 ("The output of the
13 adder 810 is a primary scrambling code."); col. 10:2-5 ("Then, the adder 810 adds the output bits
14 from the 0-th registers of the first and second shift register memories 800 and 805 to generate I-
15 channel primary scrambling code signals."); col. 11:43-46 ("The adder 1030 adds the 0-th register
16 values of the first and second shift register memories 1040 and 1045 to generate a scrambling
17 code, which becomes a primary scrambling code."); col. 11:49-52 ("Here, the output from the
18 adder 1030 is used as the primary scrambling code . . .").⁵

19 (b) Extrinsic Evidence

20 Apple relies entirely on extrinsic evidence – a portion of the 3GPP standard – to support its
21 contention that "scrambling code(s)" must be complex sequences. The relevant portion of the
22 standard is reproduced below:

23
24 ⁴ The specification states that the terms "scrambling code" and "gold code" are
25 interchangeable. ('867 patent, D.N. 925-6, col. 2:13-16 ("It should be noted that for the purpose of
26 illustration, the term 'scrambling code' is interchangeable with the term 'gold code' or 'gold
sequence' indicating the same code as the scrambling code."; col. 6:23-24 ("A gold code used
herein as a scrambling code is generated through binary adding of two distinct m-sequences."))

27 ⁵ See also col. 5:2-3; col. 6:64-7:8; col. 7:13-17; col. 7:24-28 col. 9:62-65; col. 10:34-39; col.
10:40-43; col. 10:44-48; col. 11:5-7; and col. 11:17-19.

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The n :th Gold code sequence z_n , $n=0,1,2,\dots,2^{18}-2$, is then defined as:

- $z_n(i) = x((i+n) \text{ modulo } (2^{18} - 1)) + y(i) \text{ modulo } 2$, $i=0,\dots,2^{18}-2$.

These binary sequences are converted to real valued sequences Z_n by the following transformation:

$$Z_n(i) = \begin{cases} +1 & \text{if } z_n(i) = 0 \\ -1 & \text{if } z_n(i) = 1 \end{cases} \text{ for } i = 0,1,\dots,2^{18} - 2.$$

Finally, the n :th complex scrambling code sequence $S_{dl,n}$ is defined as:

- $S_{dl,n}(i) = Z_n(i) + j Z_n((i+131072) \text{ modulo } (2^{18}-1))$, $i=0,1,\dots,38399$.

Note that the pattern from phase 0 up to the phase of 38399 is repeated.

(Mot. at 5.)

This section of the 3GPP standard describes the generation of scrambling codes. (Wesel Decl. at ¶ 59.) In the first equation, two m-sequences are added together to generate a binary Gold code sequence, z_n . (*Id.*) This Gold code sequence is a scrambling code in binary form. (*Id.*) This binary scrambling code is then converted into a real scrambling code sequence in the second equation. (*Id.*) Finally, in the third equation, the real scrambling code sequence is converted into a complex scrambling code sequence, $S_{dl,n}$. (*Id.*)

Apple claims that the Gold code sequence generated by the first equation (z_n) is not a scrambling code simply because it is referred to as a "Gold code sequence" whereas the sequence generated by the third equation, $S_{dl,n}$, is referred to as a "complex scrambling code sequence." However, Gold codes *are* scrambling codes as confirmed by the '867 patent and Dr. Wesel. (Wesel Decl. at ¶ 38; '867 patent, D.N. 925-6, col. 2:13-16.) Furthermore, the reference to a "complex" scrambling code in the third equation indicates that the prior sequences are also scrambling codes (in "binary" and "real" form). Thus, the 3GPP standard supports Samsung's construction, not Apple's.

[REDACTED]

1 Apple selectively cites testimony from Dr. Wesel to suggest that scrambling codes must be
2 complex because they are used for spreading and only complex scrambling codes can be used for
3 spreading. (Mot. at 6 (quoting Deposition of Dr. Wesel, Selwyn Decl. Ex. 5 at 164:15-17) (Q. So
4 the scrambling codes you say infringe the '867 patent, what are they used for? A: Spreading.")).
5 Apple argues that this response demonstrates the scrambling codes in claims 25 and 26 cannot be
6 binary sequences. (Mot. at 6). However, when asked whether he thought that a binary scrambling
7 code is used for spreading, Dr. Wesel testified "Sure it is. It's used for spreading because it's used
8 to make the ultimate spreading code." (Selwyn Decl. Ex. 5 (Wesel Dep.) at 165:22-23). The '867
9 patent also states that "each unique scrambling code used for spreading (scrambling) downlink
10 channel signals of each base stations is referred to as 'primary scrambling code.'" ('867 patent,
11 D.N. 925-6, col. 1:52-54). Thus, Dr. Wesel and the patent both recognize that a scrambling code
12 that is generated by adding two m-sequences may ultimately be used for spreading downlink
13 channel signals. This does not mean, however, that the two m-sequences when added are not a
14 scrambling code as Apple contends. To the contrary, the overwhelming intrinsic evidence and the
15 extrinsic evidence show that a scrambling code is a code generated by adding two m-sequences.

16 4. Under A Proper Construction Of "Scrambling Code," There Is No
17 Dispute That Apple's Products Infringe

18 Apple's iPhones and iPads infringe claims 25 and 26.⁶ [REDACTED]

19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]

24 _____
25 ⁶ The accused products include: the iPhone 3G, iPhone 3GS, iPhone 4, iPad 3G (At&T) and
iPad 2 3G (AT&T).

26 ⁷ Apple's Motion overlooks the Intel source code entirely, choosing instead to focus on the
27 standard itself, which provides no insight on how the generation of scrambling codes is
28 *implemented* within the accused devices. Wesel Decl. at ¶¶ 66, 78.) For this reason alone,
Apple's Motion must fail.

1 [REDACTED] Thus, under a proper construction for "scrambling code," there is no
2 dispute that Apple's products infringe.

3 That Apple infringes should come as no surprise. The inventors of the '867 patent
4 developed a novel scrambling code generator technology in 1999 that was incorporated into and
5 declared essential to the 3GPP standard. (Declaration of Sam Stake ("Stake Decl."), Ex. 1
6 (Samsung IPR Declaration), at APLNDC-WH-A000009391.) In 2007, long after Samsung's
7 inventors developed this technology, Apple first entered the smartphone market and incorporated
8 the 3GPP standard into its iPhone and iPad. In doing so, Apple integrated Samsung's patented
9 scrambling code technology into its products.

10 [REDACTED]
11 [REDACTED]
12 [REDACTED] As a result, Apple should
13 not now be heard to assert that it does not infringe the '867 patent after it has (1) admitted that this
14 patent is essential to the 3GPP standards and (2) that its products comply with that standard.

15 **III. APPLE'S MOTION FOR SUMMARY JUDGMENT OF INVALIDITY OF THE '893**
16 **PATENT SHOULD BE DENIED**

17 **1. The '893 Patent**

18 The '893 patent is directed to a technique for "bookmarking" an image in a digital photo
19 album. (Declaration of Woodward Yang, Ph.D. ("Yang Decl.") at ¶ 14.) The claimed invention
20 accomplishes this goal by returning a user to the same bookmarked image in a digital image photo
21 album even after capturing new images. (*Id.*) The invention of the '893 patent marks a departure
22 from the default mode on digital cameras practiced in the art, which always returned a user to the
23 last image captured upon returning to a digital photo album. (*Id.*) This default mode resulted in
24 users losing their place in a digital image photo album, forcing the user to tediously flip back to
25 their place in a digital image photo album. (*Id.*)

26 Claim 10 of the '893 patent is an independent claim directed to a "digital image processing
27 apparatus." ('893 patent, Selwyn Decl. Ex. 2, D.N. 925-7, col. 10:20.) The claim language
28 relevant to Apple's Motion is reproduced below:

1 wherein **upon a user performing a mode-switching operation** defined by
2 switching from the stored-image display mode to the photographing mode and
3 back to the stored-image display mode the controller causes the display screen
4 to first display a single image file that was most recently displayed before the
5 mode-switching operation, the single image file being different from a most-
6 recently stored image file, and the single image file being first displayed
7 irrespective of a duration that the camera was used in the photographing mode
8 during the mode-switching operation.

9 (*Id.* at col. 10:37-47) (emphasis added.)

10 Claim 12 of the '893 patent is a dependent claim that includes all of the limitations of claim
11 10 and, in addition, requires the apparatus to set the "index value" of the last image displayed in
12 memory. (*Id.* at col. 10:52-56)

13 2. Claims 10 And 12 Of The '893 Patent Are Not Indefinite

14 Apple argues that claims 10 and 12 are indefinite because both claim an apparatus and a
15 method for using the apparatus. (Mot. at 13-16.) In support of its argument, Apple relies heavily
16 on the Federal Circuit's decision in *IPXL Holdings, L.L.C. v. Amazon.com, Inc.*, 430 F.3d 1377
17 (Fed. Cir. 2005). In *IPXL*, the Federal Circuit held a claim invalid for claiming both a system and
18 a method for using that system. *Id.* at 1384. The claim language at issue in *IPXL* stated:

19 The *system of claim 2* [including an input means] wherein the predicted transaction
20 information comprises both a transaction type and transaction parameters
21 associated with that transaction type, and **the user uses the input means** to either
22 change the predicted transaction information or accept the displayed transaction
23 type and transaction parameters.

24 *Id.* (emphasis added). The Federal Circuit found that this claim recited a system and a method for
25 using the system because it required that "the user uses the input means." *See id.*

26 Apple's reliance here on *IPXL* is entirely misplaced. In *IPXL*, the claim language required
27 user action (*i.e.*, "the user uses the input means"). Here, the claim language simply describes **how**
28 **the apparatus** may respond to user action (*i.e.*, "upon a user performing a mode-switching
operation"). It does not require user action.⁸ "It is well-established that for a limitation to

⁸ Computer systems and applications are typically interactive systems that perform functions in response to user action. The invention of the '893 Patent is no different. There is nothing improper with drafting an apparatus claim in functional terms, *i.e.*, describing how the apparatus is to function in response to user action. *See Microprocessor Enhancement Corp. v. Tex.*
(footnote continued)

1 introduce a method step, the limitation must require action, or 'actual use' of something instead of
2 merely requiring or setting forth a particular capability." *Eolas Techs., Inc. v. Adobe Sys., Inc.*,
3 810 F. Supp. 2d 795, 812 (E.D. Tex. 2011) (citing *Microprocessor Enhancement*, 520 F.3d at
4 1374-75). Because the language in claim 10 of the '893 patent does not require user action, it is
5 not indefinite.⁹

6 Further, courts have repeatedly found the *IPXL* holding to be "very limited" and
7 inapplicable where, as here, the claim language at issue does not require user action. *See SynQor,*
8 *Inc. v. Artesyn Techs., Inc.*, No. 2:07-CV-497-TJW-CE, 2010 U.S. Dist. LEXIS 74808, at *96
9 (E.D. Tex. July 26, 2010) ("The Court agrees with numerous other courts in that the holding in the
10 *IPXL* case is very limited."). As a result, in the vast majority of cases, district courts have refused
11 to find claims indefinite under *IPXL*. *See, e.g., CBS-Sys. Int'l Inc. v. SAP Am., Inc.*, No. 10-2156,
12 2012 U.S. Dist. LEXIS 45847, at *40 (E.D. Pa. Mar. 30, 2012) ("[T]he claims ... clearly recite
13 only apparatus elements modified by functional terms describing their capabilities"); *WAGO*
14 *Verwaltungsgesellschaft GmbH v. Rockwell Automation*, No. 1:11-CV-00756, 2012 U.S. Dist.
15 LEXIS 30703, at *19 (*N.D. Ohio Mar. 7, 2012) ("[T]he '241 Patent's use of 'configuring the
16 device' reflects functional language ... not a method of using the device"); *Leader Techs., Inc. v.*
17 *Facebook, Inc.*, 770 F. Supp. 2d 686, 710 (D. Del. 2011) ("[T]he Court concludes that *IPXL* does
18 not apply to invalidate the claims as indefinite"); *Freedom Wireless, Inc. v. Alltel Corp.*, No.
19 2:06cv504 (TJW-CE), 2008 U.S. Dist. LEXIS 82785, at *40-41 (E.D. Tex. Oct. 17, 2008) ("The
20 undersigned construes this claim to be an apparatus claim that describes the apparatus by reference

21 _____
22 *Instruments Inc.*, 520 F.3d 1367, 1375 (Fed. Cir. 2008). As a consequence, simply because an
23 apparatus claim refers to user action does not make it indefinite *ipso facto*, as Apple seems to
24 imply.

25 ⁹ Apple also relies on *In re Katz Interactive Call Processing Patent Litigation*, 639 F.3d 1303
26 (Fed. Cir. 2011). *Katz* is distinguishable for the same reasons *IPXL* does not apply. In *Katz*, the
27 Federal Circuit upheld a district court's finding that a system with an "interface means for
28 providing automated voice messages ... to certain of said individual callers, wherein said certain
of said individual callers digitally enter data" was indefinite. *Id.* at 1318. The Court drew a
parallel between the claim language in *IPXL* ("wherein ... the user uses") and the claim language
in *Katz* ("wherein ... callers digitally enter data") and found both were "directed to user actions,
not system capabilities." *Id.*

1 to its functional capabilities ... [a]s such, it does not run afoul of *IPXL Holdings* and is not
2 indefinite"); *Ricoh Co. v. Katun Corp.*, 486 F. Supp. 2d 395, 403 (D.N.J. 2007) ("Unlike the claim
3 in *IPXL*, this language does not describe active use ... it describes the claimed apparatus in
4 functional terms"); *Sienna, LLC v. CVS Corp.*, No. 06 Civ. 3364 (DLC), 2007 U.S. Dist. LEXIS 2,
5 at *22 (S.D.N.Y. Jan. 3, 2007) ("The clause at issue is not a separate method step, but rather is
6 descriptive of the apparatus itself").

7 Specific to the claim language at issue here, "[c]ourts consistently find that claims
8 containing both a physical description of an apparatus and a description of the apparatus' function,
9 e.g., 'communicates,' 'populates,' 'configured to,' and *upon activation*' are not impermissible
10 apparatus-method claims." See *Vistan Corp. v. Fadei USA, Inc.*, No. C 10-4862 JCS, 2012 U.S.
11 Dist. LEXIS 59348, at *25 (N.D. Cal. Apr. 27, 2012) (internal citations omitted) (emphasis
12 added); see, e.g., *Yodlee, Inc. v. Cashedge, Inc.*, No. C 05-01550 SI, 2006 U.S. Dist. LEXIS
13 86699, at *6-19 (N.D. Cal. Nov. 29, 2006) ("upon activation"); *Collaboration Props. v. Tandberg*
14 *ASA*, No. C 05-01940 MHP, 2006 U.S. Dist. LEXIS 42465, at *19-20 (N.D. Cal. June 22, 2006)
15 ("configured to"); *Collegenet, Inc. v. XAP Corp.*, 442 F. Supp. 2d 1036, 1062-63 (D. Or. 2006)
16 ("populating"); *Toshiba Corp. v. Juniper Networks, Inc.*, No. 03-1035-SLR, 2006 U.S. Dist.
17 LEXIS 44348, at *13-14 (D. Del. June 28, 2006) ("communicates"). This is because "these claims
18 simply use active language to describe the capability of the apparatuses; they do not claim the
19 activity itself." *Vistan*, 2012 U.S. Dist. LEXIS 59348, at *25 (internal citations omitted). The
20 reasoning employed by these courts is equally applicable here.

21 In *Yodlee*, for example, Judge Illston denied summary judgment, finding that the claims at
22 issue used active language to describe the capability of an apparatus but did not claim the activity
23 itself. *Yodlee*, 2006 U.S. Dist. LEXIS 86699, at *6-19. As here, the claim language at issue in
24 *Yodlee* involved the word "upon":

25 A computer-readable storage device storing instructions that upon execution cause
26 a processor to automatically access personal information associated with an end
27 user, wherein the personal information is stored on a personal information provider
28 by performing the steps comprising of: . . .

1 (b) *upon activation* of the presented link, downloading an application to the client
2 computer, wherein the downloaded application upon execution on the client
3 computer performs the steps of . . .

4 *Id.* at *11-13 (emphasis added). The defendant argued that the claim language "upon activation of
5 the presented link" did not make clear whether infringement "occurs when the computer-readable
6 storage device is manufactured or sold, *or* whether infringement occurs when a user activates such
7 a system's presented link, *or both.*" *Id.* at *13 (emphasis in original). Judge Illston rejected that
8 argument, finding that infringement occurs if a device presents such a link, and activating such
9 link would initiate the process described under paragraph (b). *Id.* ("[W]hether a user actually
10 activates the link presented by the infringing device is of absolutely no import.").

11 Apple advances the same flawed argument here. Apple alleges that it is unclear whether
12 claims 10 and 12 are infringed "when one creates an apparatus that allows the user to switch from
13 the stored-image display mode to the photographing mode and back to the stored-image display
14 mode, or whether infringement occurs when the user actually switches from the stored-image
15 display mode to the photographing mode and back to the stored-image display mode." (Mot. at
16 15.) But Apple's argument fails for precisely the same reason the defendant's argument failed in
17 *Yodlee*. In both cases, infringement occurs if an apparatus is built that is *capable* of performing
18 the recited functions "upon activation of the presented link" or "upon performing a mode
19 switching operation." Whether the functions are *actually* executed upon action by a user is of
20 absolutely no import. *Yodlee*, 2006 U.S. Dist. LEXIS 86699, at *13.¹⁰

21
22 ¹⁰ Relying on *IPXL* and *Katz*, Apple misleadingly suggests that the use of "wherein" signifies
23 a method step. (Mot. at 14.) Apple's argument is devoid of support for that proposition. The
24 portion of *Katz* that Apple relies on reflects the Federal Circuit's rejection of plaintiff's argument
25 that the term "wherein," *ipso facto*, indicates functional capability. *See Katz*, 639 F.3d at 1318.
26 That finding does not, as Apple appears to argue, make the converse true (*i.e.*, "wherein," *ipso*
27 *facto*, indicates a method step). Samsung is aware of no authority holding that the term "wherein"
28 always signifies either functional language or a method step. Instead, the critical inquiry under
IPXL is whether the claim "recites both a system and a method for using that system." *IPXL*, 430
F.3d at 1384. Indeed, many courts have found apparatus claims that included the term "wherein"
to be definite. *See, e.g., Yodlee*, 2006 U.S. Dist. LEXIS 86699, at *18-19; *Freedom Wireless*,
2008 U.S. Dist. LEXIS 82785, at *40-41; *Toshiba*, 2006 U.S. Dist. LEXIS 44348, at *12-14.

1 Judge Illston provided a simple but useful analogy to determine if a claim is a mixed-
2 method claim:

3 [A] claim which physically describes a pair of scissors designed to cut paper, then
4 states, '*upon opening and closing the sharp edges of the scissors on a piece of*
5 *paper*, the paper is cut.' The language describes the capability of the scissors; it is
6 functional language. Infringement occurs upon the manufacturing and sale of
scissors that are capable of cutting paper. The *IPXL* rule would apply only if the
patent claimed the physical description of the scissors, then stated within the same
claim: "and the method of using said scissors to cut a piece of paper."

7 *Id.* at *14 (emphasis added).

8 This example is particularly relevant because "upon" is used as a precursor to the claimed
9 action, just as it is in claim 10 of the '893 patent. Thus, just like *Yodlee*, the claims of the '893
10 patent simply describe "the capability of the [controller]" when a user performs a mode-switching
11 operation. The claims do not require "the method of using said [controller]." In other words,
12 claims 10 and 12 do not require a mode-switching operation (*i.e.*, flipping a switch); they require
13 only a device that performs certain functions if and when a switch is flipped. As a result, claims
14 10 and 12 are not indefinite, and Apple's Motion fails as a matter of law.¹¹

15 **IV. APPLE'S MOTION FOR SUMMARY JUDGMENT OF INVALIDITY OF THE '460**
16 **PATENT SHOULD BE DENIED**

17 **1. The '460 Patent**

18 Claim 1 of the '460 patent claims three core functions on a camera phone. (Yang Decl. at ¶
19 25.) For ease of reference, the five steps of claim 1 are marked [a] through [e] below:

20 1. A data transmitting method for a portable composite
21 communication terminal which functions as both a portable phone
and a camera, comprising the steps of:

22 ¹¹ Apple's Motion also fails because it fails to cite sufficient intrinsic or extrinsic evidence to
23 meet the clear and convincing evidentiary standard. Apple "bases its indefiniteness challenge
24 entirely on attorney argument" and "d[oes] not adduce any evidence to substantiate its claim of
25 indefiniteness." *See Mallinckrodt, Inc. v. Masimo Corp.*, 147 Fed. Appx. 158, 179 (Fed. Cir.
26 2005) (claims found to be definite because defendants failed to show that a person of skill in the
27 art would not understand the scope of the claims). Moreover, Apple fails to "qualify or distinguish
28 in any way" the actions of the USPTO and the experts in this case who have not "encounter[ed]
difficulty in ascertaining" the scope of the claims at issue. *See id.* at 179-80; *see also* Yang Decl.
at ¶ 23. Because claims 10 and 12 of the '893 patent are readily understood by those skilled in the
art, they are not indefinite.

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[a] entering a *first E-mail transmission sub-mode* upon user request for E-mail transmission while operating in a portable phone mode, the first e-mail transmission sub-mode performing a portable phone function;

[b] entering a *second E-mail transmission sub-mode* upon user request for E-mail transmission while operating in a display sub-mode, the second e-mail transmission sub-mode displaying an image most recently captured in a camera mode;

[c] *sequentially displaying other images* stored in a memory through the use of scroll keys;

[d] transmitting the address of the other party and a message received through *a user interface* in the *first E-mail transmission sub-mode*;

[e] and transmitting the address of the other party and the message received through *the user interface* and the image displayed on the display as an E-mail in the *second E-mail transmission sub-mode*.

(460 patent, Selwyn Decl. Ex. 3, D.N. 925-8 (emphasis added).)

The first function is set forth in steps [a] and [d]. These steps claim sending text-only emails:

[a] entering a *first E-mail transmission sub-mode* upon user request for E-mail transmission while operating in a portable phone mode, the first e-mail transmission sub-mode performing a portable phone function;

[d] transmitting the address of the other party and a message received through *a user interface* in the *first E-mail transmission sub-mode*;

The second function is set forth in steps [b] and [e]. These steps claim sending emails displaying both an image and a message:

[b] entering a *second E-mail transmission sub-mode* upon user request for E-mail transmission while operating in a display sub-mode, the second e-mail transmission sub-mode displaying an image most recently captured in a camera mode;

[e] and transmitting the address of the other party and the message received through *the user interface* and the image displayed on the display as an E-mail in the *second E-mail transmission sub-mode*.

The third function is set for the in step [c]. This step claims sequentially displaying stored images on the device.

[c] *sequentially displaying other images* stored in a memory through the use of scroll keys;

1 An intuitive "user interface," referenced in steps [d] and [e], ties together these three
2 functions. (Yang Decl. at ¶ 26.) This user interface offers two distinct "E-mail transmission sub-
3 modes." (*Id.*) The "first E-mail transmission sub-mode" allows a user to send text-only emails.
4 (*Id.*) In contrast, the "second E-mail transmission sub-mode" allows a user to send e-mails
5 displaying an image. (*Id.*)

6 **2. Claim 1 Of The '460 Patent Is Not Indefinite**

7 In its Motion, Apple claims three alternate interpretations of claim 1, and argues that the
8 "plain language" of claim 1 provides insufficient guidance on which interpretation is correct.
9 (Mot. at 16.) Apple's various and strained interpretations of claim 1 in the abstract, without any
10 reference to the specification or prosecution history are improper. *S3 Inc. v. NVIDIA Corp.*, 259
11 F.3d 1364, 1369 (Fed. Cir. 2001) ("A claim is not 'indefinite' simply because it is hard to
12 understand when viewed without benefit of the specification.") In point of fact, only Apple's first
13 interpretation, "sending two separate email messages from two separate email transmission sub-
14 modes," is consistent with the specification and prosecution history of the '460 patent. (Yang
15 Decl. at ¶ 34.) Although the steps are not necessarily performed in sequential order, it is black
16 letter law that a method claim may be infringed through non-sequential performance of steps.
17 *Baldwin Graphic Sys., Inc. v. Siebert, Inc.*, 512 F.3d 1338, 1345 (Fed. Cir. 2008); *Interactive Gift*
18 *Express, Inc. v. Compuserve Inc.*, 256 F.3d 1323, 1342 (Fed. Cir. 2001) ("Unless the steps of a
19 method actually recite an order, the steps are not ordinarily construed to require one."); *Altiris, Inc.*
20 *v. Symantec Corp.*, 318 F.3d 1363, 1369-71 (Fed. Cir. 2003) (reversing district court's finding that
21 steps of method claim must be performed in a certain order). Apple's second and third
22 interpretations are concocted and, unlike its first interpretation, find no support whatsoever in the
23 specification or prosecution history.

24 (a) **The Specification Describes The Three Functions Of Claim 1**

25 Apple contends that the specification does not describe two distinct e-mail transmission
26 sub-modes. (Mot. at 16-17.) This is not correct. The specification describes in detail the three
27 functions claimed in claim 1. The specification discloses that two distinct e-mail functionalities
28 are available when a user requests e-mail transmission in "portable phone mode" or in "play sub-

1 mode." ('460 patent, D.N. 925-8, col. 11:65-67; col. 12:38-41; figs. 6, 8; Yang Decl. at ¶27.) In
2 particular, the specification discloses that the user can send a text-only email when she requests e-
3 mail transmission while in the "portable phone mode." ('460 patent, col. 12:38-41 ("However, if
4 only the E-mail transmission sub-mode is selected in the portable phone mode, this implies that no
5 image data enclosed in the E-mail exists."); Yang Decl. at ¶ 27.) In contrast, while reviewing
6 images (in "play sub-mode"), the user can send an e-mail enclosing an image. ('460 patent, col.
7 11:9-11 ("By selecting the E-mail transmission sub-mode in the play sub-mode, the user can
8 transmit an E-mail with a still image enclosed therein."); Yang Decl. at ¶ 27.) The user's request
9 for e-mail transmission in the play sub-mode "implies that image data to be enclosed in the E-mail
10 exists." ('460 patent, col. 12:33-35; Yang Decl. at ¶ 27.) Figure 9 of the patent, understood in
11 light of the specification, illustrates that image enclosure results from requesting e-mail
12 transmission in play sub-mode. ('460 patent, fig. 9 at labels 914-918; col. 12:30-51; Yang Decl. at
13 ¶ 27.)

14 The specification further discloses the third claimed function of claim 1: sequentially
15 displaying photos stored on the device. The specification states: "Upon user pressing the volume
16 up/down key 312 in a play sub-mode of the camera mode, an image previous or next to a current
17 image is displayed." ('460 patent, col. 5:9-12; Yang Decl. at ¶ 27.)

18 Moreover, Apple's expert on the '460 patent, Dr. Srivastava, testified that he understood
19 claim 1 to be directed to the performance of three core functions:

20 Q: Can we agree that at the very least this claim requires the three core functions
21 that Dr. Yang opined on? . . .

22 A: I do find the claim overall confusing as to what method it is citing. Whether
23 there are two E-mail sub-modes or not, the claim language does use the first E-
24 mail and the second E-mail sub-mode. As I alluded to in my report, the
25 specification is at variance with that. **But in terms of does [claim 1] talk about
26 sending an E-mail text alone, an E-mail with text and image and sequentially
27 scrolling through the images, yes, the claim does talk about these three
28 things.**

(Stake Decl. Ex. 2 (Srivastava Dep.) at 76:4-24) (emphasis added).

Similarly, in his invalidity report, Dr. Srivastava characterized claim 1 as being directed to
a "method for transmitting E-mails from a portable device combining both phone and camera

1 functions, where an E-mail may include a user entered message and optionally an image selected
2 by the user." (Stake Decl. Ex. 3 (Srivastava Rpt.) at ¶ 47.) Dr. Srivastava's contentions that two
3 prior art references anticipate claim 1 by practicing the three core functions described above
4 further confirm that the claim is not "insolubly ambiguous." (*See, e.g., id.* at ¶ 66 (opining that
5 one alleged anticipatory reference "allowed the user to make voice phone calls; capture, store and
6 transmit images to another device; and select one of the various previously filmed and stored
7 images by sequentially scrolling through them via cursor keys.").)

8 These distinct functionalities also comport with the understanding of parties' experts
9 concerning the term "sub-mode." (*Compare* Stake Decl. Ex. 3 (Srivastava Rpt.) at ¶ 63 (opining
10 that "sub-mode" is a "mode that is subordinate to a higher level mode, and has a restricted or
11 *specialized set of functionality.*") (emphasis added) *with* Yang Decl. at ¶ 28 (opining that "sub-
12 mode" is "*another set of functions* which might be available upon subsequent selection to enter a
13 'sub-mode' from the current 'mode.'") (emphasis added.)

14 Thus, contrary to Apple's assertions, the '460 patent expressly discloses two different e-
15 mail functionalities.

16 (b) The Prosecution History Describes The Three Functions Of Claim 1

17 During prosecution of the '460 patent, Samsung distinguished claim 1 from prior art by
18 contending that no previous camera phone offered the claim's three core functions. (Yang Decl. at
19 ¶¶ 29-33.) The '460 patent claims priority to U.S. Application No. 09/540,830 (the "'830
20 application"). As originally drafted, claim 20 of the '830 application was nearly identical to claim
21 1 but omitted step [c] ("sequentially displaying other stored images"). (Stake Decl. Ex. 4 at
22 APLNDC-WH-A0000014309-10.)

23 In the first Office Action, the Examiner rejected claim 20 as obvious in view of the
24 combination of three United States patents: "Wagner," "Suso," and "Dawson." (Stake Decl. Ex. 5
25 at APLNDC-WH-A0000014263.) According to the Examiner, the Wagner patent disclosed a
26 portable phone that:

27 [F]unctions as a portable phone comprising the steps of **entering a first E-mail**
28 **transmission sub-mode** upon user request for E-mail transmission while operating
in a portable phone mode, the first E-mail transmission sub-mode performing a

1 portable phone function, **and transmitting** the address of the other party and a
2 message received through a user interface **in the first E-mail transmission sub-**
3 **mode.**

3 (*Id.* at APLNDC-WH-A0000014263-64.) (emphasis added.) Furthermore, according to the
4 Examiner, the Dawson patent disclosed an "e-mail system" having two e-mail transmission sub-
5 modes, one for sending text-only e-mails and one for sending e-mails enclosing images:

6 Dawson teaches an audio-visual e-mail system having a **first E-mail transmission**
7 **mode for transmitting a text-only email message** and a second E-mail
8 **transmission sub-mode upon user request for E-mail transmission, wherein the**
9 **second E-mail sub-mode displays an image captured by a digital camera and**
10 **transmits the address of the other party and the message received through the**
11 **user interface and the image display on the display**

12 (*Id.* at APLNDC-WH-A0000014264.) Thus, the Examiner readily recognized from the early
13 stages of prosecution that claim 20 was directed to sending separate e-mails through two distinct
14 sub-modes.

15 Samsung responded to the first Office Action by amending claim 20 to include the third
16 claimed function of the '460 patent: "sequentially displaying other images stored in a memory
17 through the use of scroll keys." (Stake Decl. Ex. 6 at APLNDC-WH-A0000014254.) Samsung
18 further clarified that the second e-mail sub-mode would display a "most recently" captured image.
19 Samsung contended that these amendments distinguished the pending claim from the asserted
20 prior art. (*Id.* at APLNDC-WH-A0000014251.)

21 In subsequent Office Actions, the Examiner again rejected claim 20 over three U.S.
22 patents: "Harris," "Hull," and "Sugiyama." (Stake Decl. Ex. 7 at APLNDC-WH-A0000014238-
23 39; Stake Decl. Ex. 8 at APLNDC-WH-A0000014156-58.) The Examiner contended that these
24 references rendered claim 20 obvious by disclosing, in combination, the three claimed functions of
25 the '460 patent. In particular, the Examiner contended that Harris disclosed a "portable phone and
26 camera" that sent text-only email, Hull disclosed sending e-mail enclosing an image and a
27 message, and Sugiyama disclosed the use of scroll keys. (*Id.*)

28 Ultimately, the Examiner allowed claim 1 of the '460 patent to issue after Samsung
demonstrated that the asserted prior art failed to disclose a device "capable of operating in a first
and a second E-mail transmission sub-mode." (Stake Decl. Ex. 9 at APLNDC-WH-

1 A0000014122.) In particular, Samsung contended that "[e]ach of the [asserted] references can
2 only operate in one of the two modes, not both." (*Id.*) The Examiner issued no further
3 anticipation or obviousness rejections. On August 18, 2009, the '460 patent issued. ('460 patent,
4 D.N. 925-8.)

5 (c) The Inventor Testimony Is Consistent With The Three Functions Of
6 Claim 1

7 In 1998 and early 1999, three Samsung engineers—Jae-Min Kim, Jeong-Seok Oh, and
8 Sang-Ryul Park—developed the novel camera phone technology claimed by the '460 patent.
9 (Stake Decl. Ex. 10 (Oh Dep.) at 22:1-23:5; Stake Decl. Ex. 11 (Park Dep.), at 31-32.) In this
10 litigation, Mr. Oh and Mr. Park (the two inventors deposed by Apple) provided testimony about
11 their invention that is consistent with the three claimed functions of claim 1. Mr. Oh testified that
12 he invented a portable phone that "incorporate[d] a camera via which you would snap photos and
13 store same and manipulate it over a number of processes and ultimately to be able to transmit the
14 same." (Stake Decl. Ex. 10 (Oh Dep.), at 21:17-25.) He further testified that he invented "the
15 transmission of e-mail from and by use of a portable phone." (*Id.* at 47:4-6.) Finally, he testified
16 that a "scroll key. . . might be in reference to something that hardware oriented, maybe software
17 oriented, maybe something in reference to the flipping of pages." (*Id.* at 36:3-8.) Likewise, Mr.
18 Park testified that he invented "send[ing] e-mails" and "attaching a photo to an e-mail" from
19 "portable phones." (Stake Decl. Ex. 11 (Park Dep.) at 21-22.)¹²

20
21 ¹² The inventor testimony relied on by Apple does not support its argument. For example,
22 Apple's counsel asked Mr. Oh, "Could you *practice* your invention *by reading* the language in
23 Claim 1 of the U.S. patent 460?" (Mot. at 18) (emphasis added.) First, this question is
24 unintelligible insofar as a claim cannot be practiced by simply reading it. Furthermore, inventor
25 testimony regarding indefiniteness is entitled to virtually no weight. *Solomon v. Kimberly-Clark*
26 *Corp.*, 216 F.3d 1372, 1379 (Fed. Cir. 2000); *Oakley, Inc. v. Sunglass Hut Int'l*, 316 F.3d 1331,
27 1342 n.2 (Fed. Cir. 2003) ("We consider that testimony to be of little value in the definiteness
28 analysis or claim construction."). Apple's reliance on *Amgen, Inc. v. Chugai Pharm. Co.*, 927 F.2d
1200 (Fed. Cir. 1991) is inapposite. In *Amgen*, the court looked to inventor testimony only *after*
concluding that the specification and prosecution history shed no light on the allegedly indefinite
claim language. *Id.* at 1218. Here, the specification and prosecution history of the '460 patent
unquestionably describe the three functions in claim 1.

1 (d) The Opinions of Samsung's Experts Are Consistent with the Clear
2 Meaning of Claim 1

3 Apple incorrectly argues that Samsung has advanced interpretations of claim 1 in the
4 expert reports of Dr. Yang and Dr. Sukumar that are inconsistent with its infringement
5 contentions. (Mot. at 19.)

6 First, Apple mischaracterizes Samsung's infringement contentions as "requir[ing] a user to
7 perform the claimed steps in order." (Mot. at 20 (emphasis omitted).) To do so, however, Apple is
8 forced to ignore that Samsung's infringement contentions provided, by way of example only ("See,
9 e.g."), that a user *could* perform these claim steps in sequence. (See, e.g., Selwyn Decl. Ex. 15 at
10 3.) Nothing in the contentions *requires* sequential performance. The intrinsic record of the '460
11 patent is also consistent with the performance of the three claimed functions in any sequence.
12 Thus, Samsung's infringement contentions are fully consistent with the expert testimony of Dr.
13 Woodward Yang, who opined:

14 Although *performance of these steps in the recited sequence would certainly*
15 *infringe the patent*, I do not understand claim 1 to *require* that these five claimed
16 steps be performed in sequence. Rather, I understand the patent to permit the
17 performance of the three claimed, core functions in any sequence.

18 (Stake Decl. Ex. 12 (Yang Rpt.) at ¶ 43.)

19 Second, Apple characterizes Dr. Yang's interpretation of claim 1 as "nonsensical" for
20 suggesting that performance of the three claimed functions over the span of a year would infringe.
21 (Mot. at 20-21.) Infringement of a method claim, however, generally requires only performance
22 of all claimed steps during the term of the patent. 35 U.S.C. § 271(a) ("[whoever without
23 authority uses] any patented invention within the United States . . . during the term of the patent
24 therefor, infringes the patent."); *Monsanto Co. v. Syngenta Seeds, Inc.*, 503 F.3d 1352, 1359 (Fed.
25 Cir. 2007) ("[I]nfringement under § 271(a) requires use "without authority ... during the patent
26 term.") Furthermore, it is improper to impose a time limitation on the performance of a method
27 claim absent support for such a limitation in the intrinsic record, which Apple fails to identify.
28 *Network Commerce, Inc. v. Microsoft Corp.*, No. 01-1991-P, 2002 WL 32954821, at *3-4 (W.D.
Wash. Oct. 29, 2002) (finding no support in specification or prosecution history to support time
limitation for the term "in response to.")

1 **V. CONCLUSION**

2 For the foregoing reasons, Apple's motion for summary judgment on the '867, '893, and
3 '460 patents should be denied.

4

5 DATED: May 31, 2012

Respectfully submitted,

6

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