1 2 3 4 5 6 7	QUINN EMANUEL URQUHART & SULLIVA Charles K. Verhoeven (Bar No. 170151) charlesverhoeven@quinnemanuel.com 50 California Street, 22 nd Floor San Francisco, California 94111 Telephone: (415) 875-6600 Facsimile: (415) 875-6700 Kevin P.B. Johnson (Bar No. 177129) kevinjohnson@quinnemanuel.com Victoria F. Maroulis (Bar No. 202603) victoriamaroulis@quinnemanuel.com 555 Twin Dolphin Drive, 5 th Floor	N, LLP				
8	Redwood Shores, California 94065-2139 Telephone: (650) 801-5000 Facsimile: (650) 801-5100					
101112	Michael T. Zeller (Bar No. 196417) michaelzeller@quinnemanuel.com 865 S. Figueroa Street, 10 th Floor					
13	Los Angeles, California 90017 Telephone: (213) 443-3000 Facsimile: (213) 443-3100 Attorneys for SAMSUNG ELECTRONICS CO., LTD., SAMSUNG ELECTRONICS AMERICA, INC. and SAMSUNG TELECOMMUNICATIONS AMERICA, LLC					
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17 18	UNITED STATES	DISTRICT COURT				
19	NORTHERN DISTRICT OF CALIFORNIA, SAN JOSE DIVISION					
20	APPLE INC., a California corporation,	CASE NO. 11-cv-01846-LHK				
21	Plaintiff,	SUPPLEMENTAL DECLARATION OF				
22	vs.	STEPHEN GRAY IN SUPPORT OF SAMSUNG'S OPPOSITION TO APPLE'S				
23 24	SAMSUNG ELECTRONICS CO., LTD., a Korean business entity; SAMSUNG	MOTION FOR A PERMANENT INJUNCTION AND DAMAGES ENHANCEMENT				
25	ELECTRONICS AMERICA, INC., a New York corporation; SAMSUNG	PUBLIC REDACTED VERSION				
26	TELECOMMUNICATIONS AMERICA,	TOBLIC REDACTED VERSION				
27 28	LLC, a Delaware limited liability company, Defendants.					

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DECLARATION OF STEPHEN GRAY

I, Stephen Gray, declare:

- 1. I have personal knowledge of the facts set forth herein, and am competent to testify to the same.
- 2. I submit this supplemental declaration in support of Samsung's Opposition to Apple's Motion for a Permanent Injunction relating to U.S. Patent 7,844,915 (the '915 patent). Specifically, I submit this supplemental declaration to respond to new infringement opinions submitted by Dr. Karan Singh in his December 3, 2012 deposition and his declaration supporting Apple's reply in support of its motion for a permanent injunction dated November 9, 2012. If asked at hearings or trial, I am prepared to testify regarding the matters I discuss in this declaration. I incorporate by reference all opinions stated in my declaration dated October 18, 2012.
- 3. I reserve the right to supplement or amend this declaration based on any new information that is relevant to my opinions.

I. BACKGROUND

- 4. At trial, Dr. Singh testified that a "quintessential" and "very important" test occurs in the line of source code "ev.getPointerCount() > 1" found in Android's WebView code. (Tr. at 1824:10-19.) Dr. Singh testified that this code receives a motion event and distinguishes between a single input point and two or more input points. (Tr. at 1824:20-1825:3.) Dr. Singh further testified that if a single input point is detected, the "ev.getPointerCount() > 1" test invokes a scroll operation, and if two or more input points are detected, the "ev.getPointerCount() > 1" test invokes a scale operation. (Tr. at 1825:4-11.)
- 5. As outlined in my declaration dated October 18, 2012, I reviewed new source code for the Galaxy S II (T-Mobile) product and concluded that the new code does not infringe the '915 patent. Among the reasons why it does not infringe is that it no longer contains the "quintessential" test identified by Dr. Singh as infringing. Indeed, the "quintessential" ev.getPointerCount() > 1 test that Dr. Singh identified as infringing was removed from that code

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1	and replaced by a fundamentally different technique for processing scrolling and scaling
2	operations.
3	II. DR. SINGH'S NEW INFRINGEMENT THEORY
4	6. In Dr. Singh's November 9, 2012 declaration, he advances a new theory of
5	infringement for Samsung's new algorithm for scrolling and scaling. Dr. Singh now claims that
6	infringes the '915 patent. I disagree with Dr.
7	Singh.
8	7. As an initial matter, Dr. Singh concedes that his new theory of infringement is no
9	longer based on the "ev.getPointerCount" test, which he referred to at trial as the "quintessential"
10	test for infringement of the '915 patent:
11	Q. You know what I'm talking about, Dr. Singh.
12	A. The particular lines, ev.getPointerCount, even ev.getPointerCount greater
13	than 1, show up in a number of different places in both the old code as well as in the new Samsung modified source code. So I think, I think if your
14	question is in its current form, I would say yes, there are multiple places
15	where I see ev.getPointerCount greater than 1.
16	Q. And do you rely on any of those for your new opinion of infringement?
17	A. Those particular lines? No.
18	(Singh Dep. at 399:23-400:12 (objection omitted).) ¹
19	8. Dr. Singh's new infringement theory is focused on Dr.
20	Singh explained during his deposition that
21	(Singh Dep. at 403:20-21.) Dr. Singh claims that
22	infringes the '915 patent because,
23	(Id. at 424:16-17.) Dr. Singh also claims
24	that
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27	Excerpts from the December 3, 2012 Singh Deposition are attached as Exhibit A to this declaration.
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			(<i>Id.</i> at 4	401:16-18 an	d 419:8-9.)			
					,			
III.	SAMS	SUNG'S	CODE D	OOES NOT I	INFRINGE	THE '91	5 PATEN	ЛТ
	9.	It is my opir	nion that Samsu	ung's new co	de does not	infringe t	he '915 pa	atent literally
or un	der the d	octrine of equ	uivalents.					
	10.	First, the "qu	uintessential tes	st" identified	by Dr. Sin	gh ("ev.ge	tPointerCo	ount(_) > 1")
was 1	removed	from the cod	le. There are n	no lines of co	ode similar	to this one	e anywher	e in the new
code	that relat	te to scrolling	g or scaling.					
	11.	Every time	there is a touch	h event (som	neone or so	mething to	ouches the	screen), the
code	runs the	e modified "	 WebviewScale	GestureDetec	ctor" code	to determ	ine wheth	ner or not it
shou	ld scale.	However, no	othing in Webv	viewScaleGes	stureDetecto	or looks to	the num	ber of inputs
on the	ne touch	screen to d	letermine whet	ther to perfo	orm a scal	e operatio	n. Instea	ad,
	12.							
	13.	The new coo	de does not con	nsider the nur	mber of inp	ut points to	o determin	ne whether to
perfo	rm a sca	le operation.	Instead, it doe	es two things	s, entirely so	eparately f	rom each	other.
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The code for scrolling is called "handleTouchEventCommon", and is independent from the WebviewScaleGestureDetector code. handleTouchEventCommon is executed every time there is a touch event, and is not dependent on the number of touches involved in the touch event. As Dr. Singh admits, the handleTouchEventCommon code executes, possibly invoking a scroll operation, regardless of whether a scale gesture is detected in WebviewScaleGestureDetector.

Below I explain in detail several reasons why Samsung's code does not infringe the '915 patent. In the future, I may provide additional reasons why Samsung's new code does not infringe as I further analyze Dr. Singh's deposition testimony from December 3, 2012 and his new

Code Does Not Distinguish Between "One Input Point . . . And Two

The new code does not infringe because it does not "distinguish between one input point . . . and two or more input points" to determine whether to invoke a scroll or scale operation as the '915 Patent requires. Samsung's new code does not look to the number of input points to

There is no decision whether to scroll or scale based on the number of input points.

17. I understand that for a product to literally infringe, the device must practice each limitation of the claim exactly. It is my opinion that claim element 8[c] – the determining limitation – is not literally met, because the determination is based on the and not the number of input points. Dr. Singh confirmed this during his deposition when he was not able to identify any source code that made a determination based on input points. (Singh Dep. at 421:13-422:13.) Although Dr. Singh claims that the new code still makes the same decision as the old code, that is not correct. In fact, if there are two input points close together,

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1	, which would not result in a scaling operation despite two input
2	points on the touchscreen. Dr. Singh conceded that two input points very close together could
3	result in
4	B. The Test Does Not "Invoke A Scroll Operation" Or "Issu[e] At
5	Least One Scroll Call Based On Invoking The Scroll Operation'
6	18. The '915 patent requires "determining whether the event object invokes a scroll"
7	operation by "distinguishing between a single input point applied to the touch-sensitive display
8	that is interpreted as the scroll operation." The code does not do this. The '915 patent also
9	requires "issuing at least one scroll call based on invoking the scroll operation." The
10	code does not do this either.
11	19. Dr. Singh claims that when, the scroll code is invoked. This is
12	misleading.
13	. (Singh
14	Dep. at 427:22-430:9.) After that, the next code in line executes, which happens to be the scroll
15	code (handleTouchEventCommon). (Id.) As Dr. Singh admitted during his deposition, the
16	scrolling code executes regardless of the number of input points applied to the touch sensitive
17	display. (Id. at 430:10-13.) The scroll code is completely independent of any other code, and will
18	execute upon any touch event. It is not invoked or caused by any "determining" step.
19	20. If Dr. Singh's opinion is based simply on the fact that the
20	handleTouchEventCommon code happens to be executed after the WebviewScaleGestureDectector
21	code, I disagree. The order of the steps is irrelevant because the two sets of code are unrelated. As
22	I explained during my deposition, before learning of Dr. Singh's new infringement theory, "The
23	is not related to the execution or to the invocation of the method handle touch event
24	common." (Gray Dep. 78:11-20.)
25	21. For these reasons, the new code does not infringe because the code does not
26	determine whether the event object invokes a scroll operation nor does it invoke or cause a scroll
27	operation to occur.
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- 28. The "determining" element of claim 8 originally read as follows: "determining whether the event object invokes a scroll or gesture operation."
- 29. During prosecution, the Examiner rejected the '915 claims over a combination of prior art references, Lii (US 7,576,732) and Hollemans (2007/025821).
- 30. On June 9, 2010, the Apple's representative had an interview with the Examiner. The only record of this Interview stated that Apple's representative argued that the "prior art of record . . . fail to teach or suggest creating an event object that determines whether a user input applied to a touchscreen invokes a scroll operation or a gesture operation by simply distinguishing between the scroll operation and the gesture operation without having to select an object or icon to define the operation." (Joint Trial Ex. No. 1048.462.)
- 31. I understand that Dr. Singh contends that this argument is the reason why the claim limitation was amended. (Singh Decl. ¶ 36.) I disagree. The Examiner rejected Apple's arguments made at the June 9, 2010 interview, which is evidenced by the fact that a check box on the interview summary indicates that no agreement was reached. In addition, there is no indication in the prosecution history that any amendments to the claims had been proposed or discussed during the June 9, 2010 interview.
- 32. The following month, on July 20, 2010, the Examiner issued a notice of allowance. In this notice of allowance, the Examiner also made an Examiner's amendment that added the following language to the determining step: "determining whether the event object invokes a scroll or gesture operation by distinguishing between a single input point applied to the touch-sensitive display that is interpreted as the scroll operation and two or more input points applied to the touch-sensitive display that are interpreted as the gesture operation." (Joint Trial Ex. No. 1048.521.) This is the first time this amendment appears in the record.
- 33. The Examiner also indicated that authorization for this amendment was given in a telephone interview with Mr. Jeremy Schweigert (Apple's representative) on July 7, 2010. (*Id.*)
- 34. The July 7, 2010 interview was different from the June 9, 2010 interview cited by Dr. Singh in paragraph 36 of his report. There is no record of what was discussed at the July 7,

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2010 interview. There is also no record regarding why the Examiner rejected the arguments made by the Applicant in the July 7, 2010 interview. Therefore, the record contains no evidence as to why the amendment was made.

- 35. I understand that when a narrowing amendment is made for a substantial reason related to patentability, there is a presumption that the patentee surrendered all equivalents.
- 36. I also understand that the patentee bears the burden to explain the reason for the amendment, and when the Court cannot determine the reason for an amendment, the Court should presume the patentee surrendered all subject matter between the broader and narrower language.
- 37. It is my opinion based on the prosecution history that the narrowing amendment was made to overcome prior art. This is further evidenced by the fact that in the Notice of Allowance, the Examiner indicated that the claims were patentable because the prior art fails to teach the combination of "creating an event object in response to a user input; determining whether the event object invokes a scroll operation or a gesture operation; distinguishing between a single input point and a two or more input points applied to a touch-sensitive display, wherein a single input point is interpreted as a scroll operation and two or more input points are interpreted as a gesture operation." (emphasis added.) It is also my opinion that the reason for the amendment cannot be determined and therefore Apple cannot apply the doctrine of equivalents.
- I also understand Apple can rebut the presumption that it surrendered the 38. equivalent in question by showing that the rationale underlying the amendment bore no more than a tangential relation to the equivalent in question. As explained above, Apple cannot show the rationale behind the amendment at all, let alone show that it bore no more than a tangential relation to the equivalent in question. All that is clear from the record is that the claims were rejected based on prior art, the Examiner was authorized to add the amendment for some unknown reason, and the claims were patentable over the prior art in part because of the amendment.
- 39. Even if Apple could apply the doctrine of equivalents, it is my opinion that there are substantial differences between the claim limitation in question and Samsung's new code.

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1	Samsung's new code does not perform the same function in the same way to produce the same
2	result as the claims. First, it does not perform the same function. For example, the claimed
3	function is to distinguish between the number of input points to either scroll or scale. The
4	Samsung code does not function this way.
	n
7	40. Next, Samsung's new algorithm does not perform the same way. For example,
8	claim 8 requires a determination of whether to scroll or scale based on the number of input points.
9	But, as explained above, Samsung's code does not do this.
11	41. Finally, the results are different. For example, the claim requires a scroll for one
12	touch, and a scale for two or more touches.
	, two touches c lose together can result in a
14	scroll operation.
15	42. I declare under penalty of perjury under the laws of the United States that the
16	foregoing is true and correct. Executed on December 5, 2012, in SOLANA BEACH
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19	Stephen Gray
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