Exhibit G

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Page 1
1
2
      UNITED STATES DISTRICT COURT NORTHERN
      DISTRICT OF CALIFORNIA SAN JOSE DIVISION
3
         ----X
      APPLE INC., a California corporation,
4
                                 PLAINTIFF,
5
              -against-
6
      SAMSUNG ELECTRONIC CP., LTD., a Korean
7
      business entity; SAMSUNG ELECTRONICS
      AMERICAN, INC., A New York Corporation;
      SAMSUNG TELECOMMUNICATIONS AMERICA, LLC,
      a Delaware limited liability company,
10
                                 DEFENDANTS.
11
    REVISED
12
                  ***CONFIDENTIAL***
13
              DEPOSITION OF TULIN ERDEM
14
                  New York, New York
15
              Wednesday, November 7, 2012
16
17
18
19
20
21
22
      Reported by:
23
      Rebecca Schaumloffel, RPR, CLR
24
      Job No: 55304
25
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		Page 21
1	T. ERDEM	
2	of demand is for Samsung smartphones?	11:20AM
3	A. Based on the research, the ones	11:20AM
4	that are, again, often cited as important	11:20AM
5	ones tend to be things that actually, you	11:20AM
6	can even read. Can I refer there is a	11:20AM
7	paragraph that lists from Samsung documents	11:20AM
8	what they think consumers look at. For	11:20AM
9	example, in their case, brand is a driver.	11:21AM
10	Q. Just to be clear, I'm not asking	11:21AM
11	for what features generally are important or	11:21AM
12	what the top three features or top seven	11:21AM
13	features are. I'm simply asking, do you have	11:21AM
14	an opinion on what the single primary driver	11:21AM
15	of demand is for a smartphone?	11:21AM
16	A. I'm saying that kind of question,	11:21AM
17	single primary demand factor, there is no	11:21AM
18	single primary demand factor in most	11:21AM
19	categories, including here, although there	11:21AM
20	might be some consumers where one single	11:21AM
21	thing makes them to decide.	11:21AM
22	Q. So it is your opinion that there	11:21AM
23	is no single primary driver of demand for	11:21AM
24	smartphones?	11:21AM
25	A. If you want me to single out one	11:21AM

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		Page 22
1	T. ERDEM	
2	attribute that determines demand and not	11:21AM
3	others, I can't name such a single attribute.	11:21AM
4	Q. And again, you haven't tested for	11:22AM
5	that in terms of your own primary research,	11:22AM
6	right?	11:22AM
7	A. I haven't done my own primary	11:22AM
8	research. I'm relying on, as I said, both	11:22AM
9	Apple and Samsung internal marketing research	11:22AM
10	where they cite multiple attributes.	11:22AM
11	Q. You devote some time in your	11:22AM
12	Declaration to this distinction between	11:22AM
13	features and sub-features, correct?	11:22AM
14	A. Um-hum.	11:22AM
15	Q. I believe that you characterize	11:22AM
16	the patents at issue in this case, the	11:22AM
17	patents and features for the three utility	11:22AM
18	patents, the '163, the '915, the '381, as	11:22AM
19	relating to sub-features, correct?	11:22AM
20	A. I did mention I did refer them	11:22AM
21	as sub-features, not to say	11:22AM
22	sub-sub-sub-features. Just a minute ago, you	11:22AM
23	asked me, for example, whether ability to	11:22AM
24	listen to music or ability to look at	11:22AM
25	pictures, whether they drive demand. Even	11:22AM

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		Page 23
1	T. ERDEM	
2	those are a sub-feature. So the narrowly	11:22AM
3	defined patents are kind of such a granular	11:23AM
4	level, it is like sub-sub-sub-features.	11:23AM
5	Q. Is having a clock on a smartphone	11:23AM
6	a sub-feature, in your view?	11:23AM
7	A. It depends on how consumers view	11:23AM
8	that. I didn't see any research in terms of	11:23AM
9	what consumers view	11:23AM
10	Q. What about	11:23AM
11	A in terms of a clock.	11:23AM
12	Q. Sorry. Are you done?	11:23AM
13	A. Yes.	11:23AM
14	Q. I'm going to try hard not to cut	11:23AM
15	you off.	11:23AM
16	As between a world clock do	11:23AM
17	you know what a world clock is?	11:23AM
18	A. Just one that shows different	11:23AM
19	time zones in different okay.	11:23AM
20	Q. Correct. As between use of a	11:23AM
21	world clock as distinct from an ordinary	11:23AM
22	clock, do you have a view as to whether the	11:23AM
23	world clock would be a sub-feature of the	11:23AM
24	phone?	11:23AM
25	A. Again, it would depend on how	11:23AM

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		Page 25
1	T. ERDEM	
2	are things that are, like in the smartphone	11:25AM
3	category, connectivity, ease of use, these	11:25AM
4	if you want, you can use the term	11:25AM
5	"mega-attributes."	11:25AM
6	Things like, does it have a clock	11:25AM
7	or not, these are not as big features but you	11:25AM
8	can call them features in terms of whether it	11:25AM
9	has a clock or not. Whether it has what	11:25AM
10	else could a phone have? All these things	11:25AM
11	that sort of most clocks have are some	11:25AM
12	functional features of that product.	11:25AM
13	Q. Do you have a view as to whether	11:25AM
14	a patented feature of a multi-touch phone can	11:25AM
15	ever be the primary driver of demand?	11:25AM
16	A. It depends what that patented	11:25AM
17	feature is.	11:25AM
18	Q. As you sit here today, are you	11:25AM
19	able to think of such a feature that could in	11:25AM
20	fact constitute a primary driver of demand	11:26AM
21	for a multi-touch smartphone?	11:26AM
22	MR. WATSON: Hang on one second.	11:26AM
23	Can you clarify something? In your	11:26AM
24	prior question you referred to "the"	11:26AM
25	primary driver of demand. In your	11:26AM

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		Page 26
1	T. ERDEM	
2	second question, you said "a" primary	11:26AM
3	driver of demand. Which of those do	11:26AM
4	you want her to speak to?	11:26AM
5	MR. HUNG: I will restate the	11:26AM
6	question.	11:26AM
7	Q. As you sit here today, are you	11:26AM
8	able to think of a feature that could	11:26AM
9	constitute the primary driver of demand for a	11:26AM
10	smartphone?	11:26AM
11	A. For a patent feature?	11:26AM
12	Q. Correct.	11:26AM
13	A. I'm not aware of any patent	11:26AM
14	feature that might drive the demand. But if	11:26AM
15	I do research, maybe I was given or I do my	11:26AM
16	own research, maybe there is. I don't know	11:26AM
17	what is all the patent features, because I	11:26AM
18	looked only at those three patents. So I	11:26AM
19	don't know	11:26AM
20	Q. And I understand there was a	11:26AM
21	limitation on what you reviewed or did not	11:26AM
22	review in the month that you have worked on	11:27AM
23	this case. My question is with respect to,	11:27AM
24	can you conceptualize, can you think of a	11:27AM
25	patented feature that would constitute the	11:27AM

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		Page 27
1	T. ERDEM	
2	primary driver of demand for a smartphone?	11:27AM
3	A. At this point, I can't really. I	11:27AM
4	mean, I can't say for this is going out of	11:27AM
5	the smartphone category, but let's say if	11:27AM
6	pharmaceutical company comes up with a new	11:27AM
7	drug that cures cancer and then patents that,	11:27AM
8	I can see that drives demand for that	11:27AM
9	company.	11:27AM
10	I cannot right now from the top	11:27AM
11	of my head think of a similar thing in a	11:27AM
12	smartphone that is patented and it	11:27AM
13	corresponds to kind of curing cancer.	11:27AM
14	Q. Let's be clear. Part of today's	11:27AM
15	exercise, again, is understanding what your	11:28AM
16	opinions are, what your opinions aren't, what	11:28AM
17	work you have done and what work you haven't	11:28AM
18	done.	11:28AM
19	Did you conduct any research with	11:28AM
20	respect to running a study with respect to	11:28AM
21	determining what the primary patented feature	11:28AM
22	would be that drives demand for a smartphone?	11:28AM
23	A. I haven't done my own primary	11:28AM
24	research in the context of like collecting	11:28AM
25	data and doing something like a conjoint.	11:28AM

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		Page 33
1	T. ERDEM	
2	start again.	11:34AM
3	Did you speak with anyone at	11:34AM
4	Samsung in preparing your opinion for this	11:34AM
5	case?	11:34AM
6	A. No.	11:34AM
7	Q. Did you speak with anyone at	11:34AM
8	Apple in preparing your opinions for this	11:34AM
9	case?	11:35AM
10	A. No.	11:35AM
11	Q. Did you ask to speak to anyone at	11:35AM
12	Samsung in preparing your opinions for this	11:35AM
13	case?	11:35AM
14	A. No.	11:35AM
15	Q. Did you speak with any consumers	11:35AM
16	in preparing your opinions for this case?	11:35AM
17	A. I didn't do any primary research.	11:35AM
18	Q. Did you ask anyone whether the	11:35AM
19	patents and features in the '163 patent was a	11:35AM
20	factor in their purchase of a smartphone?	11:35AM
21	A. No, because if unless you do a	11:35AM
22	study, one person's opinion wouldn't matter	11:35AM
23	in any case. Wouldn't be a scientific	11:35AM
24	plus I wasn't even allowed to ask. This is	11:35AM
25	not public information, I guess.	11:35AM

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		Page 34
1	T. ERDEM	
2	Q. Samsung's the fact that the	11:35AM
3	jury found at least for some products Samsung	11:35AM
4	infringes the '163 patent, you believe is a	11:35AM
5	confidential matter?	11:35AM
6	A. The infringement information is	11:35AM
7	out, I think. But obviously, I wouldn't	11:36AM
8	discuss the details of the case. Unless I'm	11:36AM
9	conducting on in the context of the case,	11:36AM
10	my own research, I wouldn't discuss it with	11:36AM
11	people.	11:36AM
12	Plus it is kind of difficult to	11:36AM
13	differentiate what is public information,	11:36AM
14	what is not at this it is more cautious to	11:36AM
15	err on the conservative side and not to talk	11:36AM
16	about it.	11:36AM
17	Q. Do you have any empirical	11:36AM
18	evidence that consumers were not driven to	11:36AM
19	purchase Samsung products because of the	11:36AM
20	infringing technology relating to the '163,	11:36AM
21	the '381 and the '915 patents?	11:36AM
22	A. There was no empirical evidence	11:36AM
23	in everything I reviewed that links the	11:36AM
24	patented features to demand except for an	11:37AM
25	attempt by the Hauser study, and we can	11:37AM

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		Page 35
1	T. ERDEM	
2	discuss that, combined with my expertise in	11:37AM
3	decision making and all the frameworks that	11:37AM
4	were verified in many different contexts,	11:37AM
5	which show us patterns in terms of how	11:37AM
6	consumers behave in such markets, like they	11:37AM
7	don't go through these very granular-level	11:37AM
8	features and then these very granular	11:37AM
9	features driving their demand. The totality	11:37AM
10	of that analysis made me to opinionate the	11:37AM
11	way I did.	11:37AM
12	Q. Did you perform any Internet	11:37AM
13	research in preparing your opinions for this	11:37AM
14	case?	11:37AM
15	A. No. I didn't do Internet	11:37AM
16	research in terms of to base my opinion on.	11:37AM
17	Q. Did you do any research in terms	11:37AM
18	of periodicals, newspapers, magazines,	11:37AM
19	articles?	11:38AM
20	A. Not in terms of linking the	11:38AM
21	patented features to there is there	11:38AM
22	wouldn't be that kind of research out there.	11:38AM
23	Q. Did you do any research on the	11:38AM
24	Internet to determine whether in fact	11:38AM
25	customers even liked the features patented in	11:38AM

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		Page 36
1	T. ERDEM	
2	the '915, '381 and '163 patents?	11:38AM
3	A. Well, everything I relied on in	11:38AM
4	terms of the opinions expressed are already	11:38AM
5	in Exhibit 2, so it is constrained by those.	11:38AM
6	Q. Were you given a set of materials	11:38AM
7	to rely on in this case?	11:38AM
8	A. I asked them to send me all the	11:38AM
9	relevant marketing research documents, like	11:38AM
10	everything, so I had basically everything. I	11:38AM
11	had given I was given declarations,	11:38AM
12	reports, like I read Hauser report as well as	11:38AM
13	Vince Declaration.	11:39AM
14	Again, they are listed in	11:39AM
15	Exhibit 2.	11:39AM
16	Q. Did you feel it was important or	11:39AM
17	unimportant to do any Internet searching to	11:39AM
18	determine whether consumers liked the	11:39AM
19	patented features or not?	11:39AM
20	A. I did, for example, background	11:39AM
21	research in terms of not to opinionate on	11:39AM
22	this, but to familiarize myself with the	11:39AM
23	terms like Android platform, et cetera. So	11:39AM
24	it was just that kind of so I know the	11:39AM
25	terms that are used in all these forums.	11:39AM

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		Page 75
1	T. ERDEM	
2	level, people making, aha, this must be with	12:31PM
3	a high price. So that's the kind of thing I	12:32PM
4	am talking about.	12:32PM
5	Q. Let me quickly turn to	12:32PM
6	paragraph 46 of your Declaration. In the	12:32PM
7	first line of paragraph 46 you state,	12:32PM
8	"Consequently, the consumer research	12:32PM
9	available from Apple and Samsung has been	12:32PM
10	conducted in a manner that it will rarely, if	12:32PM
11	ever, be possible to link a specific patent	12:32PM
12	of the types at issue here to a feature	12:32PM
13	attribute contained in the consumer research,	12:32PM
14	especially in a manner that would reasonably	12:32PM
15	permit one to conclude that the patents have	12:32PM
16	any impact on consumer demand."	12:32PM
17	Did I read that correctly?	12:33PM
18	A. Yes, you read it correctly.	12:33PM
19	Q. In your view, is it possible to	12:33PM
20	perform consumer research that would link a	12:33PM
21	specific patent of the types at issue here to	12:33PM
22	a feature attribute contained?	12:33PM
23	A. What I have seen in the research	12:33PM
24	done, it wasn't done. Hypothetically, it can	12:33PM
25	be done. It could, but one needs to be	12:33PM

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		Page 76
1	T. ERDEM	
2	extremely difficult extremely careful.	12:33PM
3	Q. Did you run any tests to check or	12:33PM
4	determine whether the features excluded in	12:33PM
5	Hauser's conjoint survey bias the estimates?	12:33PM
6	A. No, I haven't done any, you know,	12:33PM
7	primary research to test Hauser's results.	12:33PM
8	That was Wind's job.	12:33PM
9	Q. Your report I understand that	12:33PM
10	you are adopting Dr. Wind's opinions. Your	12:33PM
11	Declaration does not include	12:34PM
12	characterizations, for lack of a better word,	12:34PM
13	of how one should have run the Hauser	12:34PM
14	conjoint study, correct?	12:34PM
15	A. Can you repeat that?	12:34PM
16	Q. Sure.	12:34PM
17	Your report does not specifically	12:34PM
18	include suggested improvements to	12:34PM
19	Dr. Hauser's conjoint study separate and	12:34PM
20	apart from your adoption of Dr. Wind's	12:34PM
21	opinions?	12:34PM
22	A. No. My report itself doesn't	12:34PM
23	cover it.	12:34PM
24	Q. Do you know who Art Sukumar is?	12:34PM
25	A. I heard it was one of the	12:34PM

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		Page 77
1	T. ERDEM	
2	witnesses, but I don't know.	12:34PM
3	Q. Had you heard of him before your	12:34PM
4	involvement in this case?	12:34PM
5	A. No.	12:34PM
6	Q. You don't know whether he is an	12:34PM
7	academic or a	12:34PM
8	A. I don't know.	12:34PM
9	Q statistician or economist?	12:34PM
10	A. He is not one of the usual	12:34PM
11	players for me, people like Russ or John or	12:35PM
12	Jerry.	12:35PM
13	Q. Do you know whether he performed	12:35PM
14	a conjoint study analysis for Samsung in this	12:35PM
15	case?	12:35PM
16	A. I don't know.	12:35PM
17	Q. You don't know one way or the	12:35PM
18	other?	12:35PM
19	A. No.	12:35PM
20	Q. So I take it that you didn't	12:35PM
21	review any expert report that Dr. Sukumar	12:35PM
22	might have done in this case?	12:35PM
23	A. No, I haven't reviewed a report	12:35PM
24	from him.	12:35PM
25	Q. If Dr. Sukumar's strike that.	12:35PM

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		Page 164
1	T. ERDEM	
2	Q. I am asking just as a general	02:29PM
3	proposition. I understand you are qualified,	02:29PM
4	your qualifications.	02:29PM
5	As a general proposition, is it	02:29PM
6	true that the demand curve can be	02:29PM
7	characterized as a willingness-to-pay curve?	02:29PM
8	MR. WATSON: Objection. Asked	02:29PM
9	and answered.	02:29PM
10	A. There is a correspondence to it	02:29PM
11	if willingness to pay is correctly defined	02:29PM
12	and captured. That's my answer.	02:29PM
13	Q. Earlier, we talked about this	02:29PM
14	concept of transactional data. You mentioned	02:29PM
15	this concept of secondary research. Do you	02:29PM
16	recall that?	02:29PM
17	A. Yes.	02:29PM
18	Q. I had asked you, when you don't	02:30PM
19	have public surveys that give you granular	02:30PM
20	data, don't you typically perform your own	02:30PM
21	primary research, when writing your academic	02:30PM
22	papers, as an example. Do you recall that	02:30PM
23	discussion?	02:30PM
24	A. We talked about that you can	02:30PM
25	have if you don't have transactional data,	02:30PM

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		Page 165
1	T. ERDEM	
2	you don't have any other data, and you have a	02:30PM
3	specific question that can be answered by you	02:30PM
4	collecting your own data, you can do so.	02:30PM
5	Q. And that's exactly what I was	02:30PM
6	going to ask you. When you don't have public	02:30PM
7	surveys and you don't have secondary data,	02:30PM
8	transactional data, one commonly or	02:30PM
9	frequently does perform your own primary	02:30PM
10	research to get the granular data that one	02:30PM
11	might need, right?	02:30PM
12	MR. WATSON: Vague and	02:30PM
13	ambiguous.	02:30PM
14	A. Again, it depends. Because in	02:30PM
15	some contexts, it might be not possible. In	02:30PM
16	some contexts, it is possible. We have to	02:30PM
17	define the exact context, whether it is	02:30PM
18	doable or not.	02:31PM
19	Q. Here, you did not conduct your	02:31PM
20	own primary research, I believe you stated in	02:31PM
21	part due to time, correct?	02:31PM
22	A. That's correct. I haven't done	02:31PM
23	any primary research.	02:31PM
24	MR. HUNG: Thank you for your	02:31PM
25	time, Dr. Erdem.	02:31PM

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		Page 166
1	T. ERDEM	
2	THE WITNESS: Thank you.	02:31PM
3	THE VIDEOGRAPHER: This	02:31PM
4	concludes today's deposition. The	02:31PM
5	time is 2:31 p.m.; we are off the	02:31PM
6	record.	02:31PM
7	(Whereupon, at 2:31 p.m., the	
8	Examination of this Witness was	
9	concluded.)	
10		
11		
12		
	TULIN ERDEM	
13		
	Subscribed and sworn to before me	
14	this, day of, 2012.	
15		
	NOTARY PUBLIC	
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