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UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
SAN JOSE DIVISION

APPLE INC.,

Plaintiff,

v.

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

Defendants.

Case No. 11-cv-01846-LHK

**DECLARATION OF JOHN R.
HAUSER**

****CONFIDENTIAL – CONTAINS MATERIAL DESIGNATED AS CONFIDENTIAL –
PURSUANT TO A PROTECTIVE ORDER****

UNITED STATES DISTRICT COURT

SUBMITTED UNDER SEAL

1 I, JOHN R. HAUSER, do hereby declare as follows:

2 1. I submitted an expert report (Expert Report of John R. Hauser, March 22, 2012,
3 hereinafter the “Hauser Report”) on behalf of Apple in this matter. I was subsequently deposed
4 by counsel for Samsung. A true and correct copy of the Hauser Report is attached as Exhibit A.
5 My curriculum vitae is attached to the Hauser Report as Exhibit A.

6 2. On June 21, 2012, counsel for Samsung filed a motion that, among other things,
7 seeks to exclude my opinions and testimony.¹ The Samsung Motion mischaracterizes my
8 opinions and testimony. Accordingly, I have been asked by counsel for Apple to respond to the
9 Samsung Motion. I provide no new opinions and do not expand the Hauser Report in this
10 declaration. The purpose of this declaration is to aid the court in assessing certain criticisms of
11 the Hauser Report and testimony.

12 3. Specifically, I address the following erroneous criticisms in the Samsung Motion:
13 (a) that my surveys cannot be replicated or assessed for their reliability because they are based on
14 interviews and pretests which Samsung alleges have not been adequately documented; and (b)
15 that my study should be excluded because I did not test all the features identified as important by
16 consumers in the in-depth interviews (“IDIs”).

17 4. The replication of the surveys can be done and their validity assessed completely
18 independently of the IDIs and pretests. Samsung is wrong to assert that my surveys cannot be
19 replicated or validated because it does not have notes from the IDIs or pretests. The IDIs and
20 pretests of the survey are not the survey itself and do not form any part of the calculations that I
21 performed.²

22 5. Samsung has all the information it needs to replicate and validate my surveys. I
23 understand that Samsung has been provided the raw survey data, as well as the results of the two
24 surveys. I understand that the conjoint studies, with all related analyses, calculations, tests, and

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26 ¹ Samsung’s Notice of Motion and Motion to Exclude Opinions of Certain of Apple’s Experts, June 21, 2012
 (“Samsung Motion”) at pp. 10–13.

27 ² Hauser Report at ¶ 7 and 15 is explicit that I rely on two surveys – the two conjoint-analysis surveys. The Hauser
28 report at ¶ 37-40 is explicit that the IDIs only informed questionnaire design. They are not to be confused with the
 conjoint analysis studies.

1 sensitivities, have been provided to Samsung. These include all relevant details regarding the
2 statistical estimation as well as the sensitivity analyses and validation tests that I performed.³ I
3 have provided all of the information on the questionnaires, including screen shots of the web
4 survey itself, copies of the animations and graphics that were shown and the text of all of the
5 instructions and questions that were asked.⁴ I have discussed the measures taken to ensure that I
6 identified any respondents who may not have carefully responded to the survey.⁵ The validation
7 tests that I performed on the data from the conjoint-analysis surveys indicate that Samsung
8 owners understood the questions and provided reliable answers.

9 6. This information is more than sufficient for Dr. Sukumar, Samsung’s survey
10 rebuttal expert, to replicate and validate my surveys. Indeed, Dr. Sukumar could have explicitly
11 tested for the potential sources of bias. But he does not report having done any test in his rebuttal
12 report. My assignment was to measure the price premium that Samsung owners would be willing
13 to pay for the patent-related features. To do so I properly included the patent-related features,
14 certain other features, and price in the conjoint analyses. Following standard academic and
15 commercial practices, I included additional features to make the Samsung owners’ choices more
16 realistic and to ensure that the Samsung owners did not focus only on the patent-related features.

17 7. Samsung points to a decision by Judge Alsup which criticized another expert.
18 Samsung attempts to use that decision to attack my conjoint-analysis surveys, saying “Dr. Hauser
19 . . . did not test all the features identified in the [in depth] interviews.” Samsung misrepresents the
20 purpose of my conjoint analysis. The survey I conducted cannot be fairly compared to the one
21 that was before Judge Alsup; the surveys have different goals and therefore different research
22 designs. Second, from a scientific perspective, it is unnecessary to include all features of a
23 product when designing a conjoint study. Such a requirement is not consistent with the academic
24 literature or commercial use of conjoint studies. Standard practice holds constant many features
25 so that the researcher can focus on those features that are of interest. If I were asked by Samsung

26 ³ Hauser Report at ¶¶ 82-87.

27 ⁴ Hauser Report at Exhibits D-G.

28 ⁵ Hauser Report at ¶¶ 74-76 and Exhibit J and Hauser Report at ¶¶ 77-105 and Exhibit K.

1 in the normal course of business to assess the price premium that Samsung owners would be
2 willing to pay for the features that are varied in my survey, I would have designed exactly the
3 same survey as I performed in this case. Indeed, I have used similar surveys to estimate price
4 premiums for other substantial companies in non-litigation contexts.

5 8. The essence of conjoint analysis is to ask respondents to make choices between
6 realistic products that reveal the respondents' tradeoffs among price and the features at issue. To
7 see this intuitively, suppose a Samsung owner is offered the choice between Smartphone A with a
8 specified feature and at a price (say \$210) versus Smartphone B, with otherwise identical
9 features, but without the feature at issue and at price that is \$10 lower (say \$200). In this simple
10 example, if the Samsung owner chooses Smartphone A, then she is willing to pay a price
11 premium of at least \$10 for the feature; if the Samsung owner chooses Smartphone B, then she is
12 willing to pay a price premium of at most \$10 for the feature. By asking enough choice questions
13 we determine the price premium a Samsung owner is willing to pay for the feature. To measure
14 the price premium that Samsung owners would be willing to pay for the patent-related features, I
15 included the patent-related features and price in the conjoint analyses. In addition I included five
16 other features in my surveys: size and weight, camera, storage, connectivity, and number of apps.
17 Including these five features assured that that Samsung owners in my survey did not focus only
18 on the patent-related features, but rather made realistic choices among smartphones or tablets that
19 varied on seven features (six features plus price). Such additional features, sometimes called
20 distraction features, disguise the survey researcher's interest in a particular feature or features.

21 9. As discussed in my expert report, the five additional features have external
22 validity; they are among the main features discussed in Samsung's own website as well as other
23 consumer review websites.⁶ Further, the validation tests on the survey results (all available to
24 Samsung) indicate that inclusion of these features performed well in creating realistic choice tasks
25 and that the inclusion of these features minimized the potential for demand artifacts.

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28 ⁶ Hauser Report at ¶ 39 and footnotes 20 and 21.

1 10. In prior academic work, I have used exactly the same approach. For example, in a
2 peer-reviewed publication (Finalist, Product Development and Management Association Best
3 Paper Award in 2003) I explained that: “The goal of the study is to find out which features and
4 feature levels customers prefer and how much they value the features. For example, a new instant
5 camera might be represented by features such as image quality, picture taking (1-step or 2-step),
6 picture removal method (motorized ejection or manual pull), light selection method, and two
7 styling attributes—opening (slide open or fixed) and styling covers (Fig. 4). Other features such
8 as picture size, picture type, camera size, battery type, and so forth might either be assumed
9 constant among all concepts under study or might be the focus of a separate study.”⁷ That study
10 was done for a major corporation and influenced its decision on which features to include in their
11 camera.

12 11. My approach of selecting 7 features (also called attributes) conforms to
13 commercial applications of conjoint analysis. For example, a classic 1982 *Journal of Marketing*
14 article discussed the commercial application of conjoint analysis covering more than 700
15 applications across consumer goods, industrial goods, transportation, financial services,
16 government, and other services.⁸ The authors reported that “for most respondents the median
17 number of attributes actually used in conjoint analysis is 6 or 7.”⁹ This study was updated in 1989
18 to cover an additional 1,062 studies reporting a median of 8 attributes.¹⁰ A more recent 2007 book
19 on *Conjoint Measurement: Methods and Applications* reviews choice-based conjoint analysis
20 studies (the conjoint-analysis format I used) and provides a table in which the average number of
21 profiles was 7 attributes.¹¹

23 ⁷ Ely Dahan and John R. Hauser, “The Virtual Customer,” (2002) *Journal of Product Innovation and Management*,
19, 5, p. 336, A true and correct copy of this article is attached as Exhibit B.

24 ⁸ Philippe Cattin and Dick R. Wittink, “Commercial Use of Conjoint Analysis: A Survey,” (1982) *Journal of*
25 *Marketing*, Vol. 46, No. 3, p.45,. A true and correct copy of this article is attached as Exhibit C.

26 ⁹ Philippe Cattin and Dick R. Wittink, “Commercial Use of Conjoint Analysis: A Survey,” (1982) *Journal of*
27 *Marketing*, Vol. 46, No. 3, p.47, Ex.C.

28 ¹⁰ Dick R. Wittink and Philippe Cattin, “Commercial Use of Conjoint Analysis: An Update,” (1989) *Journal of*
Marketing, Vol. 53, No. 3, p. 94. A true and correct copy of this article is attached as Exhibit D.

¹¹ Rinus Haaijer and Michel Wedel, “Conjoint Choice Experiments: General Characteristics and Alternative Model
Specifications,” Chapter 11 in Andres Gustaffsson, Andreas Herrmann and Frank Huber, “*Conjoint Measurement:*

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ATTESTATION OF E-FILED SIGNATURE

I, MICHAEL A. JACOBS, am the ECF User whose ID and password are being used to file this Declaration. In compliance with General Order 45, X.B., I hereby attest that John R. Hauser has concurred in this filing.

Dated: May 31, 2012

/s/ Michael A. Jacobs

Michael A. Jacobs