Apple Inc. v. Samsung Electronics Co. Ltd. et al

## Exhibit 1

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8	UNITED STATES DISTRICT COURT					
9	NORTHERN DISTRICT OF CALIFORNIA					
10	SAN JOSE DIVISION					
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12	APPLE INC., a California corporation,	Case No. 11-cv-01846-LHK				
13	Plaintiff,	EXPERT REPORT OF SUSAN KARE				
14	v.					
15	SAMSUNG ELECTRONICS CO., LTD., A Korean business entity: SAMSUNG					
16	ELECTRONICS AMERICA, INC., a New York corporation; SAMSUNG					
17	TELECOMMUNICATIONS AMERICA, LLC, a Delaware limited liability company,					
18 19	Defendants.					
20	I					
21	**CONFIDENTIAL – CONTAINS MATERIAL DESIGNATED AS HIGHLY CONFIDENTIAL – ATTORNEYS' EYES ONLY PURSUANT TO A PROTECTIVE ORDER**					
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	EXPERT REPORT OF SUSAN KARE					

1	44. The user interface graphics of the iPhone 3GS and iPhone 4—the shape,
2	arrangement and spacing of the icons—is consistent with the original iPhone, but there are some
3	small changes. (See Figures 5 and 6, above.) The iPhone 3GS screen has the same size and
4	resolution as the original iPhone, <sup>9</sup> but the 3.5 inch (diagonal) screen of the iPhone 4 has a higher
5	resolution of 940 x 640, for a pixel density of 326 pixels per inch. <sup>10</sup> Rather than a gray gradient-
0 7	patterned background for the bottom portion of the screen, there is a rectangular, reflective
8	surface that creates a virtual shelf, which serves as a base for the row of icons. The background is
9	not black, but rather has a gray gradient with scattered water droplets. The anti-aliased text below
10	the icons is white with a drop shadow. As in the D'334 patent, there is a row of dots between the
11	top and bottom portion of the screen. These dots provide an indicator of which "page" of icons is
12	displayed. When the second page is viewed, the second dot becomes white, and the first dot
13	becomes grow $^{11}$ (Exhibits 4.5.) Otherwise, the shows description of the iPhone's encourse
14	becomes gray. (Exhibits 4, 5.) Otherwise, the above description of the Phone's appearance
15	applies equally to the user interface graphics of these phones.
16	45. The icon layouts depicted in Figures 1 through 6 are not the only ways to solve the
17	design problem of how to represent a set of icons on a touch screen device. Even restricted to the
18	choice of using icon images (as opposed to words in a menu), a grid of rectangular icons with
19	rounded corners is not the only way to show and arrange them in a vertical space. For example,
20	the icons could be presented as irregular shapes on a background, as shown in the Xperia arc S
22	and Xperia neo V phones, both by Sony Ericsson. (Exhibits 6, 7.) Or, icons could be presented
23	within or on top of other shapes, as in the Blackberry Storm 2 (Exhibit 8), which displays icons—
24	designed with a strong, light-colored outline—in a grid but with each appearing on a black
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	<sup>9</sup> http://www.apple.com/inhone/inhone.3gs/spacs.html

<sup>9</sup> http://www.apple.com/iphone/iphone-3gs/specs.html
 <sup>10</sup> http://www.apple.com/channel/iphone-4/tour/specs.html. As discussed in footnote 20 below, the
 proportional size of the icons in the iPhone 4 is unchanged from the iPhone and iPhone 3GS.
 <sup>11</sup> The iPhone shown above in Figure 4(a) does not display a series of dots because there is no second page of

 <sup>27 &</sup>lt;sup>11</sup> The iPhone shown above in Figure 4(a) does not display a series of dots because there is no second page of applications. However, any of the applications shown could be moved off to a second page, which would cause the dots to appear, as in Figure 4(b).

rectangle that almost completely fills the space between the icons and has a gradient to add dimension. The Xperia arc S and Storm 2 are shown in Figures 7 and 8, below. Another alternative would have been to divide the screen using a visible grid. Also, any uniform color, bands of color, gradient, or background texture might have been employed.





Figure 7 Sony Xperia arc S Figure 8 Blackberry Storm 2

46. Exhibit 9 is a collection of images depicting a variety of visually distinctive,
alternative approaches to showing a set of icons on a phone screen. As these examples
demonstrate, user interface graphics for phones need not display icons in a 4 x 4 or 4 x 5 grid, nor
do they need to feature icons shaped like those in the Design Patents and the iPhone Devices. In
fact, the icons can be displayed without using a regular grid of rows and columns at all, as shown
in Exhibit 10. (*See* figures 9 and 10, below.)

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signal strength and battery charge, as well as indicators relating to sounds and alerts (speaker icon) and the presence of messages (letter icon).

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50. Immediately above the grid of icons, there is a horizontal band that indicates the 4 categories of applications currently being shown in the grid. This band has a blue highlight with 5 faded edges when it is "selected" (see figure 11, above), but otherwise it appears along with the 6 grid of icons as a translucent overlay on top of the background. The icons appear to be stylized 7 8 illustrations; many suggest everyday objects (e.g., wrench, envelope, alarm clock, camera, 9 folders), but others are more abstract (e.g., Social Feeds, Backup Assistant). There is no pattern 10 of rectangular shapes or rounded corners for the icons; most are various irregular shapes, so even 11 though the icons are laid out in a grid, they do not read as uniform button-shaped icons. Because 12 the icons have different dimensions and border shapes, left and right edges and top and bottom 13 edges of adjacent icons are not precisely aligned. The icons are labeled below with upper and 14 lower case sans serif, anti-aliased, pale gray/blue text. When there is a highlight to indicate a 15 16 glossy finish (e.g., BlackBerry Messenger, Text Messages, Instant Messaging, Applications, 17 Games, App World) the light area runs diagonally from the upper left to lower right, and fills the 18 upper right portion of the icons. Unlike the iPhone Devices and the Design Patents, there is no 19 area on the screen for a separate group of omnipresent icons. The result of all of these elements is 20 an overall visual impression that is clearly different from that of the iPhone and the Design 21 Patents. 22 23 24 25 26 27 28



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## VIII. EXHIBITS TO BE USED

93. I anticipate using as exhibits during trial certain documents and things referenced or cited in this report or accompanying this report. I also anticipate using other demonstrative exhibits or things at trial.

Susan D. Kare

SUSAN KARE

Dated: March 22, 2012

sf-3098252