

In the Matter Of:

APPLE INC. vs

SMITH INTERFACE TECHNOLOGIES

LOREN TERVEEN

June 18, 2025



UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD

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APPLE INC., :
Petitioner, : Case No.
v. : IPR2024-01256
SMITH INTERFACE TECHNOLOGIES, LLC, :
Patent Owner.:

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REMOTE VIDEOTAPED STENOGRAPHIC DEPOSITION OF
LOREN TERVEEN

Wednesday, June 18, 2025

9:00 a.m. Central Time

Job No.: 2025-985619

Pages: 1 - 57

STENOGRAPHICALLY REPORTED BY:

GISELLE MITCHELL-MARGERUM, RPR, CRI, CCR, LCR, ACCR, CSR

CALIFORNIA CSR 14424

<p style="text-align: right;">Page 2</p> <p>1 Deposition of LOREN TERVEEN, held</p> <p>2 remotely, via videoconference at:</p> <p>3</p> <p>4</p> <p>5 VIA VIDEOCONFERENCE</p> <p>6</p> <p>7</p> <p>8</p> <p>9 Pursuant to agreement, before Giselle</p> <p>10 Mitchell-Margerum, Registered Professional Reporter,</p> <p>11 Certified Reporting Instructor, Licensed Court</p> <p>12 Reporter (TN), Certified Court Reporter (GA),</p> <p>13 Certified Court Reporter (NJ), Certified Court</p> <p>14 Reporter (WA), Certified Shorthand Reporter (OR),</p> <p>15 Certified Shorthand Reporter (CA), Alabama Certified</p> <p>16 Court Reporter (ACCR), Certified Court Reporter</p> <p>17 (NM).</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p style="text-align: right;">Page 4</p> <p>1 W I T N E S S I N D E X</p> <p>2</p> <p>3 Witness Page</p> <p>4</p> <p>5 LOREN TERVEEN (sworn)5</p> <p>6</p> <p>7 Examination by CAT GARZA5</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>
<p style="text-align: right;">Page 3</p> <p>1 A P P E A R A N C E S</p> <p>2 ON BEHALF OF PETITIONER:</p> <p>3 DAVID HOLT, ESQ.</p> <p>4 FISH & RICHARDSON</p> <p>5 1000 Maine Avenue SW, Suite 1000</p> <p>6 Washington, D.C. 20024</p> <p>7 202.783.5070</p> <p>8</p> <p>9 ON BEHALF OF PATENT OWNER:</p> <p>10 CAT GARZA, ESQ.</p> <p>11 NORTON ROSE FULBRIGHT US LLP</p> <p>12 98 San Jacinto Boulevard, Suite 1100</p> <p>13 Austin, Texas 78701-4255</p> <p>14 512.474.5201</p> <p>15</p> <p>16</p> <p>17 ALSO PRESENT:</p> <p>18 EAGLE ROBINSON</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p style="text-align: right;">Page 5</p> <p>1 P R O C E E D I N G S</p> <p>2 COURT REPORTER: Good morning.</p> <p>3 Dr. Terveen, please raise your right hand.</p> <p>4 Do you swear to tell the truth, the whole</p> <p>5 truth, and nothing but the truth?</p> <p>6 THE WITNESS: I do.</p> <p>7 COURT REPORTER: Okay. We can start.</p> <p>8 LOREN TERVEEN</p> <p>9 Having been duly sworn testified as follows:</p> <p>10 EXAMINATION BY ATTORNEY GARZA:</p> <p>11 Q. Dr. Terveen, can you hear me?</p> <p>12 A. Yes.</p> <p>13 Q. Okay. Just making sure.</p> <p>14 Dr. Terveen, my name is Cat Garza, and I'm</p> <p>15 with the law firm, Norton Rose Fulbright, and we</p> <p>16 represent Smith Interface Technologies, LLC in this</p> <p>17 proceeding. Thank you again for being here today.</p> <p>18 Can you please state your full name?</p> <p>19 A. Loren Terveen.</p> <p>20 Q. And have you been deposed before?</p> <p>21 A. Yes.</p> <p>22 Q. About how many times?</p> <p>23 A. Around a dozen, I think.</p> <p>24 Q. Okay. That's what I thought. And were</p> <p>25 all of those patent cases?</p>

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<p>1 A. Yes.</p> <p>2 Q. Okay.</p> <p>3 Since you have been deposed a number of</p> <p>4 times before, I won't spend too much time on the</p> <p>5 ground rules. Just a couple of things. Can we just</p> <p>6 agree to try not to talk over each other so the</p> <p>7 court reporter can get a clean record?</p> <p>8 A. Yes.</p> <p>9 Q. And if you need a break at any time, just</p> <p>10 feel free to say so. I don't think this is going to</p> <p>11 take very long this morning. The only thing I ask</p> <p>12 is that if there is a question pending, that we get</p> <p>13 an answer to that question before we pause.</p> <p>14 Is that okay?</p> <p>15 A. Yes.</p> <p>16 Q. Okay. All right.</p> <p>17 And this deposition involves -- excuse</p> <p>18 me -- IPR 2024/01256, which challenges the validity</p> <p>19 of U.S. Patent No. 11,740,727. Is that your</p> <p>20 understanding?</p> <p>21 A. Yes.</p> <p>22 Q. Okay. And I'll just refer to that patent</p> <p>23 as the '727 Patent, if that's okay.</p> <p>24 A. Yes.</p> <p>25 Q. Okay. And where are you physically</p>	<p>1 A. No. I am not in communication with anyone</p> <p>2 else.</p> <p>3 Q. And will you agree not to look at, or send</p> <p>4 any messages, emails, chats, or other</p> <p>5 communications, just while we are on the record?</p> <p>6 A. Yes.</p> <p>7 Q. Okay.</p> <p>8 A. I agree.</p> <p>9 Q. All right. And will you let me know if</p> <p>10 anyone tries to communicate with you by any means,</p> <p>11 while we are on the record?</p> <p>12 A. Yes.</p> <p>13 Q. Okay.</p> <p>14 And will you agree to look only at the</p> <p>15 documents and exhibits that I provide while we are</p> <p>16 on the record?</p> <p>17 A. Yes.</p> <p>18 Q. Okay.</p> <p>19 And I assume not right now, but if you</p> <p>20 have any technical difficulties today, if you could</p> <p>21 just let me know as soon as those occur, and we can</p> <p>22 pause the proceedings until we get those resolved?</p> <p>23 A. Sure.</p> <p>24 Q. Okay.</p> <p>25 So to start with, I'll go ahead and show</p>
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<p>1 located today?</p> <p>2 A. In Minneapolis.</p> <p>3 Q. Okay. And is there anyone else in the</p> <p>4 room with you right now?</p> <p>5 A. No.</p> <p>6 Q. Okay. And if that changes, will you just</p> <p>7 let me know and we can pause the proceedings?</p> <p>8 A. Sure.</p> <p>9 Q. Okay.</p> <p>10 And can you confirm that the only thing</p> <p>11 you have open on your computer today is the Zoom</p> <p>12 meeting?</p> <p>13 A. Yes. That's right.</p> <p>14 Q. Okay.</p> <p>15 And do you have any paper copies of</p> <p>16 documents in front of you right now?</p> <p>17 A. I actually have one sheet where I noticed</p> <p>18 a couple corrections to my declaration, as I was</p> <p>19 going through it. So I just wrote those down. But</p> <p>20 that is the only thing I have.</p> <p>21 Q. Okay. So I'll be sharing documents in the</p> <p>22 chat of the Zoom meeting for us to view together.</p> <p>23 And can you confirm that you are not in</p> <p>24 electronic communication with anyone right now,</p> <p>25 other than through this Zoom interface?</p>	<p>1 your declaration, Exhibit 1003. And let me get to</p> <p>2 the chat. Okay. Okay. I've dropped that in the</p> <p>3 chat. Can you download that?</p> <p>4 A. Yes. Okay. I've opened up my</p> <p>5 declaration. Would this be a good time for me to</p> <p>6 give you the corrections? Or --</p> <p>7 Q. That would be fine. Go ahead.</p> <p>8 A. Yes. There are two minor corrections to</p> <p>9 citations where I just -- I guess it's a typo, or</p> <p>10 mistranscription, or something. In paragraph 94 on</p> <p>11 page 60, there is a sentence that starts:</p> <p>12 "Additionally or alternatively, it was</p> <p>13 known that varying size was another method of</p> <p>14 conveying focus and context information."</p> <p>15 And then it goes on to -- in this same</p> <p>16 long sentence, it says, "See also EX 1005." And</p> <p>17 that should have been "EX 1004." So it was just</p> <p>18 written wrong.</p> <p>19 Q. Okay.</p> <p>20 A. And then I have one other one. This is</p> <p>21 paragraph 71 on page 44. This is a sentence that</p> <p>22 begins:</p> <p>23 "A POSITA would have understood the</p> <p>24 illustration of the clock widget in Figures 4B, 10</p> <p>25 and 13B as blurred."</p>

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<p>1 And it goes on to say, "See EX 1001." And</p> <p>2 that should have been "EX 1013" instead. So those</p> <p>3 were the two corrections I noticed, as I was</p> <p>4 reviewing my declaration.</p> <p>5 Q. All right. Okay.</p> <p>6 So in addition to reviewing your</p> <p>7 declaration, what else did you do to prepare for</p> <p>8 today's deposition?</p> <p>9 A. I reviewed -- let's see. I reviewed a few</p> <p>10 other materials. I reviewed the institution</p> <p>11 decision for this IPR. I reviewed the '727 Patent.</p> <p>12 And I reviewed the prior art that I cited in my</p> <p>13 declaration.</p> <p>14 And I think that is the materials that I</p> <p>15 reviewed. And then I met with Apple's counsel.</p> <p>16 Q. For approximately how long did you meet</p> <p>17 with Apple's counsel?</p> <p>18 A. Let's see. About three -- three to four</p> <p>19 hours, I think.</p> <p>20 Q. Okay. Did you review the petition that</p> <p>21 was filed by Apple?</p> <p>22 A. I reviewed it, not while I was preparing</p> <p>23 for the deposition.</p> <p>24 Q. Okay. Previously?</p> <p>25 A. Yes.</p>	<p>1 Q. Okay. So in paragraph 18, it says,</p> <p>2 Exhibit 1001, the '727 Patent, and its prosecution</p> <p>3 history, 1002 exhibit.</p> <p>4 Did you review the prosecution history in</p> <p>5 preparation for the deposition today?</p> <p>6 A. Let's see. No, I did not go back to the</p> <p>7 prosecution history as I was -- as I was preparing</p> <p>8 for the deposition.</p> <p>9 Q. Okay.</p> <p>10 So in the list of exhibits, there is</p> <p>11 Exhibits 1004, which is the Ahn reference. Correct?</p> <p>12 A. Yes.</p> <p>13 Q. And the 1005, which is the Chaudhri '842</p> <p>14 reference.</p> <p>15 A. Yes.</p> <p>16 Q. Correct?</p> <p>17 A. Yes.</p> <p>18 Q. And those are the two references, I</p> <p>19 think -- you mentioned you reviewed prior art that</p> <p>20 you cited. Did you review those two references in</p> <p>21 preparation for this deposition?</p> <p>22 A. Yes.</p> <p>23 Q. Okay.</p> <p>24 How about Exhibits 1006 through 1014? Did</p> <p>25 you review any of those in preparation for your</p>
Page 11	Page 13
<p>1 Q. Okay. And did you review the patent</p> <p>2 owner's preliminary response?</p> <p>3 A. Briefly. Yes.</p> <p>4 Q. In preparation for the deposition today?</p> <p>5 A. Yes.</p> <p>6 Q. Okay.</p> <p>7 Okay. Can you turn to page nine of your</p> <p>8 declaration?</p> <p>9 A. Okay.</p> <p>10 Q. Rather, scroll is the more appropriate</p> <p>11 term.</p> <p>12 A. Sure. Okay. I'm there.</p> <p>13 Q. So on page nine and 10, there is a list of</p> <p>14 materials that you looked at as part of creating</p> <p>15 your declaration, I think.</p> <p>16 Is that correct?</p> <p>17 A. Yes.</p> <p>18 Q. Okay. And this is all in paragraph 18.</p> <p>19 Correct?</p> <p>20 A. Yes. Paragraph 18 lays out what I</p> <p>21 considered in writing my declaration, including</p> <p>22 background knowledge and my own knowledge. And then</p> <p>23 I list -- in addition, I analyze the following</p> <p>24 publications and materials, and I list a table of</p> <p>25 specific things that I analyzed.</p>	<p>1 deposition today?</p> <p>2 A. I did not separately review them. Since I</p> <p>3 reviewed my declaration, there are various citations</p> <p>4 I think to those documents. And, obviously, I would</p> <p>5 have gone over those excerpts. But I didn't</p> <p>6 independently review those exhibits.</p> <p>7 Q. Okay.</p> <p>8 Other than your lawyers, did you discuss</p> <p>9 your testimony with anyone else?</p> <p>10 A. No. Just Apple's counsel.</p> <p>11 Q. Okay.</p> <p>12 And except for the two corrections that</p> <p>13 you have identified, are there any other changes</p> <p>14 right now that you want to make to the opinions that</p> <p>15 are in your declaration?</p> <p>16 A. No. Not at this time.</p> <p>17 Q. Okay.</p> <p>18 And your declaration is a complete listing</p> <p>19 of your opinions in this proceeding. Correct?</p> <p>20 A. All the opinions that I've formed up to</p> <p>21 this point.</p> <p>22 Q. Okay.</p> <p>23 So looking back at the list of materials</p> <p>24 here in paragraph 18, sitting here today, do you</p> <p>25 recall any other documents that are not listed here,</p>

<p style="text-align: right;">Page 14</p> <p>1 that you reviewed to -- in preparing your 2 declaration?</p> <p>3 A. No. I don't recall any other documents 4 that I reviewed in preparing my declaration.</p> <p>5 Q. Okay.</p> <p>6 I'm going to drop into the Zoom, a few 7 other exhibits, quickly, that we'll be using. And 8 let me know when you've downloaded. I've entered 9 three documents into the chat.</p> <p>10 A. I've downloaded them all. Yes.</p> <p>11 Q. Okay. All right. So the first is 12 Exhibit 1001?</p> <p>13 A. Yes. I see that.</p> <p>14 Q. This is U.S. Patent No. 11,740,727. 15 Correct?</p> <p>16 A. Yes.</p> <p>17 Q. And the second is Exhibit 1004?</p> <p>18 A. Yes.</p> <p>19 Q. And that is U.S. Patent Application 20 Publication No. 2008/02071882. The first named 21 inventor is Ahn.</p> <p>22 Is that correct?</p> <p>23 A. Yes.</p> <p>24 Q. And that's Exhibit 1004?</p> <p>25 A. Yes. That's correct.</p>	<p style="text-align: right;">Page 16</p> <p>1 if I closed the window or what. Here it is. Okay. 2 I've got it.</p> <p>3 Q. Okay. And if you can scroll down page 4 18 -- I mean 16.</p> <p>5 A. Okay. Okay. I'm there.</p> <p>6 Q. Okay.</p> <p>7 And in paragraph 28, you opine on the 8 level of ordinary skill in the field of the 9 '727 Patent. Correct?</p> <p>10 A. Yes.</p> <p>11 Q. Okay. And then in the last sentence of 12 paragraph 28, it says -- in the last phrase of the 13 last sentence, it says:</p> <p>14 "Additional years of experience could 15 substitute for the advanced level degree." 16 Do you see that statement?</p> <p>17 A. Yes.</p> <p>18 Q. Okay.</p> <p>19 And just to be clear, you do not opine 20 that a POSITA -- a person of ordinary skill in the 21 art -- would need to have an advanced degree. 22 Correct?</p> <p>23 A. I do not opine that. I think this was 24 badly phrased, that sentence. So, yes. If you go 25 back, I say I believe a POSITA would have included a</p>
<p style="text-align: right;">Page 15</p> <p>1 Q. Okay.</p> <p>2 And is it okay with you if I just call 3 there reference Ahn?</p> <p>4 A. Yes.</p> <p>5 Q. Okay.</p> <p>6 All right. And then the next exhibit is 7 Exhibit 1005?</p> <p>8 A. Yes.</p> <p>9 Q. And that is U.S. Patent Application 10 Publication No. 2007/0150842 to Chaudhri. Is that 11 correct?</p> <p>12 A. Yes.</p> <p>13 Q. And is it okay with you if I just call 14 this one Chaudhri?</p> <p>15 A. Yes.</p> <p>16 Q. Okay.</p> <p>17 So if there is any other materials, as we 18 go through, that you would like to reference when 19 you hear a question, just let me know and we can 20 enter those.</p> <p>21 A. Sure.</p> <p>22 Q. Okay.</p> <p>23 All right. Going back to your 24 declaration; Exhibit 1003.</p> <p>25 A. Yeah. Where did I put that? I don't know</p>	<p style="text-align: right;">Page 17</p> <p>1 bachelor of science degree in computer science or 2 other disciplines. That is not a combined degree.</p> <p>3 And then would have at least two years of 4 professional experience in a relevant field. And I 5 think that last sentence should have said something 6 more like, an advanced degree could substitute for 7 additional years of experience.</p> <p>8 So, yeah. That was phrased incorrectly.</p> <p>9 Q. And by "advanced degree," you mean like a 10 master's or graduate level degree. Correct?</p> <p>11 A. That is correct.</p> <p>12 Q. Okay.</p> <p>13 Okay. Let's scroll down to paragraph 37. 14 I didn't write down the page for this one. It's on 15 page 22.</p> <p>16 A. Okay. I'm there.</p> <p>17 Q. So right above paragraph 37, you've 18 included figures -- I'm sorry. I apologize. Go up 19 to paragraph 35. It's above paragraph 35 on page 20 20.</p> <p>21 A. Go to paragraph 35, you said?</p> <p>22 Q. Yes. Yes.</p> <p>23 A. Okay. I'm there.</p> <p>24 Q. Okay.</p> <p>25 So above paragraph 35, do you see</p>

<p style="text-align: right;">Page 18</p> <p>1 Figures 13 and 13B?</p> <p>2 A. Yes. I do.</p> <p>3 Q. And do you see Menu 1300 displayed on the</p> <p>4 right-hand side of 13B?</p> <p>5 A. I do.</p> <p>6 Q. Okay.</p> <p>7 So is your understanding of Menu 1300 that</p> <p>8 that menu is transparent, or translucent?</p> <p>9 A. Let me just take a look at that and look</p> <p>10 at what Ahn describes.</p> <p>11 [Witness reviewed document.]</p> <p>12 A. Well, I think in this example in 13B, as I</p> <p>13 look at the figure, I would understand that as an</p> <p>14 illustration of a transparent menu. Ahn describes</p> <p>15 that its menus can be displayed transparently,</p> <p>16 translucently, or even opaque.</p> <p>17 I believe in this Figure 13B, it's showing</p> <p>18 a transparent menu.</p> <p>19 Q. And what is your basis of that belief?</p> <p>20 A. Well, when I look at the screen, it</p> <p>21 appears that the background is visible through the</p> <p>22 Menu 1300. It appears that the menu is -- or the</p> <p>23 background is completely visible through the menu.</p> <p>24 Q. In Figure 13B, the clock that's in 13A is</p> <p>25 not shown in Figure 13B. Correct?</p>	<p style="text-align: right;">Page 20</p> <p>1 Q. Okay. If you scroll down to the next</p> <p>2 page? Page 22.</p> <p>3 A. Yes.</p> <p>4 Q. And this one shows Figure 3A and</p> <p>5 Figure 4B.</p> <p>6 A. Yes.</p> <p>7 Q. Okay.</p> <p>8 And in Figure 4B, there is Menu 420 that</p> <p>9 appears along the right side. Correct?</p> <p>10 A. Yes.</p> <p>11 Q. Okay.</p> <p>12 Menu 420, is that also a transparent menu?</p> <p>13 Or is that a translucent menu?</p> <p>14 A. I think in this example, I would say that</p> <p>15 in this example, it appears to be a transparent</p> <p>16 menu.</p> <p>17 Q. And what would lead you to that</p> <p>18 conclusion?</p> <p>19 A. Well, when I look at the parts of the</p> <p>20 standby screen behind the -- behind Menus 420, they</p> <p>21 seem equally visible as the parts of the standby</p> <p>22 screen that are not behind the menu.</p> <p>23 So it doesn't seem like there is any</p> <p>24 obscuring like you would see if it were a</p> <p>25 translucent menu. And, of course, Ahn does teach</p>
<p style="text-align: right;">Page 19</p> <p>1 A. I think it is. I think it is blurred out.</p> <p>2 It is -- it's hard to see, but that's my impression.</p> <p>3 Q. That the clock is blurred out?</p> <p>4 A. In 13B, that's -- I believe so.</p> <p>5 Q. Okay.</p> <p>6 A. If you look, I guess from the second icon</p> <p>7 down in the menu, directly to its left, I think the</p> <p>8 clock is there, just blurred out.</p> <p>9 Q. Okay. If you scroll down to page 21?</p> <p>10 A. Twenty-one? Yes.</p> <p>11 Q. Do you see there is Figure 3A, and then</p> <p>12 Figure 7B on that page? Do you see that?</p> <p>13 A. Yes.</p> <p>14 Q. And Figure 7B includes a menu. I believe</p> <p>15 it's numeral 720. Do you see that menu?</p> <p>16 A. Yes. I see the menu and I now do see 720.</p> <p>17 I do believe that's Menu 720. Yes.</p> <p>18 Q. And is 720 also a transparent menu?</p> <p>19 A. Yes. Once again, I think in Figure 7B,</p> <p>20 it's showing an example of -- in this case, of a</p> <p>21 transparent menu.</p> <p>22 Q. In 7B, the clock appears. And it appears</p> <p>23 not to be blurred out. Is that correct?</p> <p>24 A. In the example of 7B, the clock widget is</p> <p>25 displayed, and it does not appear to be blurred.</p>	<p style="text-align: right;">Page 21</p> <p>1 translucent menus and opaque menus, but this appears</p> <p>2 to be a transparent menu.</p> <p>3 Q. In paragraph 36, right above the figure we</p> <p>4 were just discussing, the last sentence of that</p> <p>5 paragraph reads:</p> <p>6 "In other words, a POSITA would have known</p> <p>7 and found it obvious that Ahn contemplates that when</p> <p>8 embodied in translucent forms, its menus would have</p> <p>9 blurred at least a portion of the background standby</p> <p>10 screen."</p> <p>11 And then there is an open parens, "(e.g.</p> <p>12 shown in Figure 12.)" Closed parens. Do you see</p> <p>13 that?</p> <p>14 A. I do. Yes.</p> <p>15 Q. Okay.</p> <p>16 Let me ask you to look at Exhibit 1004.</p> <p>17 And let's look at Figure 12.</p> <p>18 A. Okay. That's the Ahn reference. Right?</p> <p>19 Q. That's the Ahn. Yes. And Figure 12 is on</p> <p>20 page 28.</p> <p>21 A. Thanks. That's helpful. Figure 12.</p> <p>22 Okay.</p> <p>23 Q. So my question is, in your reference to</p> <p>24 Figure 12 in paragraph 36, what were you trying to</p> <p>25 convey?</p>

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<p>1 A. I think, well, that sentence reads: 2 "In other words, a POSITA would have known 3 and found it obvious that Ahn contemplates that when 4 embodied in translucent form, its menus would have 5 blurred at least a portion of the background standby 6 screen. For example, shown in Figure 12." 7 And so, Figure 12, I was just using that 8 to illustrate the background standby screen. And 9 so, the sentence is just conveying that when you 10 have the background standby screen, which is shown 11 in Figure 12, if you would use a translucent menu, 12 that would have blurred the portion of the 13 background standby screen that was behind the 14 translucent menu. 15 Q. Okay. 16 So in Figure 12, the clock is part of the 17 background screen. Correct? 18 A. Yes. 19 Q. Okay. 20 And then are the -- icons along the top, 21 those are also a part of the background screen in 22 Figure 12? 23 A. In this example, yes. 24 Q. So the translucency of a menu would help 25 the user distinguish between the menu and, for</p>	<p>1 "Ahn teaches at least two ways that its 2 user interface may utilize blur." 3 And then you go on to say that: 4 "First, Ahn teaches that instead of a 5 transparent form, its menus can be embodied in a 6 translucent form or an opaque form, depending on 7 implementation." 8 That's what we have just been talking 9 about. Right? That that would help bring focus to 10 the menu. 11 A. Yes. We were just talking about the -- 12 Q. Okay. 13 A. -- the first way that a user interface 14 might utilize blur, that Ahn teaches. Namely, using 15 translucent menus, in this case. 16 Q. Right. Okay. 17 And scrolling down to paragraph 37, this 18 is where you talk about the second way? 19 A. Okay. 20 Q. And you state that: 21 "Second, Ahn explicitly shows that opening 22 a menu can blur at least a portion of the standby 23 screen 300." 24 Do you see that sentence? 25 A. Yes.</p>
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<p>1 example, the clock. Correct? 2 A. Well, if a menu, or any interface object, 3 but let's say a menu. If it is shown in a 4 translucent way, that means it doesn't fully allow 5 light to pass through, conceptually. 6 That would mean that any -- any part of 7 anything below it would be -- would be blurred or 8 faded, as one would describe it. 9 And that would have the effect of helping 10 the user distinguish between the object on top, if 11 you will, that was displayed in a translucent form, 12 and anything behind it. Because the stuff behind 13 it -- behind the object would, in fact, be blurred 14 or faded. 15 So yes. It would have that distinguishing 16 effect. 17 Q. And that would help bring focus to the 18 menu. The translucent menu. Correct? 19 A. Yes. That would be one way of 20 conveying -- conveying focus. Yes. 21 Q. So back in your declaration, Exhibit 1003, 22 at paragraph 36? 23 A. Okay. 24 Q. So the first sentence of that paragraph 25 reads:</p>	<p>1 Q. And this is what we were talking about 2 earlier with the blurring of the clock? 3 A. Correct. 4 Q. Okay. And in paragraph 38, you go on to 5 say: 6 "Ahn does not explicitly explain or 7 otherwise limit the implementation details a POSITA 8 might utilize in providing this effect." 9 And by "this effect," you mean the second 10 method here. Correct? 11 A. That is correct. 12 Q. Okay. 13 A. It's what I've described in these 14 preceding paragraphs. I guess 30 -- well, 37. Yes. 15 Q. Okay. 16 Let's scroll down to -- let me see what 17 page it's on. Go ahead and scroll down to page 38 18 of your declaration; Exhibit 1003. 19 A. Okay. 20 Q. Okay. And in 38, you are analyzing 21 elements in claim 1.b, that reads: 22 "Display an object at least when they are 23 an object." 24 Do you see that? 25 A. That's correct.</p>

<p style="text-align: right;">Page 26</p> <p>1 Q. Okay. And if you scroll down to paragraph 2 64?</p> <p>3 A. Okay.</p> <p>4 Q. Directly above 64, there is a figure 5 that's labeled amalgamation -- "Amalgamation of 6 Figures 3A and 18A."</p> <p>7 Do you see that?</p> <p>8 A. Yes.</p> <p>9 Q. And there is a blue arrow pointing to 10 menu -- it is labeled "Menu Icon Identifier." Do 11 you see that in the figure?</p> <p>12 A. Yes.</p> <p>13 Q. Okay. So then in paragraph 64, you 14 describe this Menu Icon Identifier. In the first 15 sentence, you say:</p> <p>16 "A POSITA would have understood and found 17 obvious that at least the menu identifier icon (e.g. 18 graphical shadow 1800) and the clock widget 19 displayed on display 40 of Ahn's mobile 20 communication terminal 100 are an object and at 21 least one other object, respectively, as recited in 22 1.b."</p> <p>23 Do you see that?</p> <p>24 A. Yes. I see that -- I see that sentence.</p> <p>25 Q. Okay. So in your mapping for this claim</p>	<p style="text-align: right;">Page 28</p> <p>1 Q. Okay. And this paragraph describes 2 Figure 18 that we were just looking at, and says: 3 "Figure 18 illustrates an example of a 4 screen for displaying a graphical display for 5 notifying a start position of a touch and drag 6 operation to a user."</p> <p>7 Do you see that sentence?</p> <p>8 A. Yes.</p> <p>9 Q. Okay. And then figure -- I mean paragraph 10 118 goes on to say: 11 "For example, referring to Figure 18A, if 12 the user drags in a right direction after touching 13 the screen, a graphical shadow 1800 is displayed in 14 the display 40."</p> <p>15 A. Yes.</p> <p>16 Q. Do you see that?</p> <p>17 A. Yes.</p> <p>18 Q. And then it also says: 19 "And the menu list 1500 shown in 20 Figure 15B can be displayed in display 40." 21 Do you see that?</p> <p>22 A. Yes.</p> <p>23 Q. Okay.</p> <p>24 So let's go up to Figure 15B and see menu 25 list 1500.</p>
<p style="text-align: right;">Page 27</p> <p>1 element, the object is graphical shadow 1800, or the 2 menu identifier icon?</p> <p>3 A. Well, the mapping to the object is the -- 4 what Ahn refers to as the menu identifier icon, or 5 the graphical shadow 1800. And in this figure, I'm 6 showing, I guess one example of what that graphical 7 shadow could look like.</p> <p>8 Q. And the clock widget displayed on display 9 40 is mapped to at least one other object. Is that 10 correct?</p> <p>11 A. Yes. That is -- that is the example I'm 12 using here.</p> <p>13 Q. Okay.</p> <p>14 So I'd like to look at Ahn Exhibit 1004, 15 at Figure 18.</p> <p>16 A. Okay. Let me scroll down there. Okay. 17 I'm looking at it.</p> <p>18 Q. And this includes the graphic 1800 that we 19 were looking at from your declaration. Correct?</p> <p>20 A. It includes the -- it includes the figure 21 that I was drawing on. Yes.</p> <p>22 Q. All right. Let's look at paragraph 118 of 23 Ahn.</p> <p>24 A. Okay. Let me find that. Okay. I'm 25 there.</p>	<p style="text-align: right;">Page 29</p> <p>1 A. Okay. I see it.</p> <p>2 Q. So the menu list 1500 -- can you describe 3 what's happening here in the interaction between the 4 graphic 1800 icon and this menu list 1500?</p> <p>5 A. Well, sure. I think if I continue reading 6 on -- reading on in Ahn, from where we left off, I 7 think it does a pretty good job describing it. So I 8 think we left off with saying -- the sentence that 9 says -- well, I'll just read the last part of it. 10 "A graphical shadow 1800 is displayed in 11 the display 40, and the menu list for 1500 shown in 12 Figure 15B can be displayed in display 40."</p> <p>13 And then it goes on to say: 14 "In this case, as the user drags the 15 graphic shadow 1800, the menu list 1500 can be 16 displayed along the dragged graphic." 17 So what that's saying is that as the user 18 is dragging the graphic shadow, the menu list is 19 displayed along the drag graphic, so the user is 20 dragging the graphic shadow and the menu list is 21 coming along with it.</p> <p>22 And in figure 19 -- or, excuse me, 23 paragraph 19, it goes on to say: 24 "Further, for example, referring to 25 Figure 18B, if the user touch drags to the left, the</p>

<p style="text-align: right;">Page 30</p> <p>1 menu list 1500 shown in Figure 15B can be displayed 2 in display 40. 3 And in this case, as the user may press 4 the graphic 1800 with a finger, the graphic 1800 5 gradually disappears in the display and the menu 6 list 1500 can be displayed as emerging from the left 7 side of the display 40, while the graphic 1800 8 disappears in the display 40." 9 So it goes on to describe that as the user 10 is touch dragging the graphical shadow, the menu 11 comes out along with it. And then through the rest 12 of that gesture, the graphical shadow can gradually 13 disappear or fade out, while the menu gradually 14 emerges and appears. 15 Q. So your understanding of paragraph 118 and 16 119 is that it's one -- a description of one 17 complete process? 18 A. I think so. Ahn is describing, you 19 know -- how should I put it? You know, different 20 variations, and embodiments, and implementations. 21 And in this description, I think -- the example 22 description here, it's describing, I believe, one 23 gesture. 24 Q. And 119 was talking about Figure 18B. And 25 it's saying -- the second sentence I think in that</p>	<p style="text-align: right;">Page 32</p> <p>1 top, in 14A. 2 Do you see that? 3 A. I see that figure. Yes. 4 Q. Yeah. And then in 14B, menu 1400 is shown 5 at the bottom. Do you see that? 6 A. Yes. 7 Q. So in -- between Figure 14A and 14B, there 8 is no graphical icon -- like graphical icon 1800. 9 Correct? 10 A. Not as shown in these figures. No. 11 Q. Okay. If you scroll up to Figure 13? 12 A. Yes. 13 Q. And Figure 13, we see in Figure 13A, what 14 looks like a movement of a finger -- a gesture from 15 the right side towards the center of the screen. 16 Correct? 17 A. Yes. That appears to be what it's 18 illustrating. 19 Q. And then in 13B -- menu 1300 is shown on 20 the right-hand side. Correct? 21 A. Yes. 22 Q. And there is no graphical -- graphical 23 icon like graphical icon 1800 in Figure 13. 24 A. Not in Figure 13, as shown. 25 Q. Okay.</p>
<p style="text-align: right;">Page 31</p> <p>1 paragraph, it says, "In this case, as a user may 2 press the graphic 1800 with a finger." 3 A. Yes. 4 Q. And that's referring to Figure 18B. So if 5 we go back up and look at Figure 18B? Graphic 1800 6 is still on the left side of the screen in 7 Figure 18B. Correct? 8 A. Correct. 9 Q. If you scroll back up to Figure 15, that 10 has the menu 1500 that we have been discussing? 11 A. Yes. 12 Q. And 15A shows a movement of a finger 13 across the screen. Correct? 14 A. Did you say Figure 15A? 15 Q. Yes, Sir. 16 A. Yes. That's illustrating one movement of 17 a finger across the screen. 18 Q. And the -- there is no graphic icon being 19 moved in Figure 15. Correct? 20 A. Not in the example of Figure 15. It's not 21 showing anything in that -- in that figure. No. 22 Q. In Figure 14, if you scroll up? 23 A. Yes. 24 Q. And Figure 14, 14A, that's also showing a 25 movement of a finger from, I guess bottom toward the</p>	<p style="text-align: right;">Page 33</p> <p>1 A. No. 2 Q. Okay. 3 Okay. So let's go back over to your 4 declaration? 5 A. Okay. 6 Q. Exhibit 1003. 7 A. Yes. 8 Q. Okay. I want to go to paragraph 47. 9 A. Okay. 10 Q. And paragraph 47 is discussing the second 11 reference, Chaudhri. Correct? 12 A. Yes. 13 Q. And in paragraph 47, the first sentence 14 reads: 15 "In one example, Chaudhri 842 describes 16 that the optical intensity may be perceived by users 17 as a transparency effect, or lack thereof, applied 18 to the user interface object. Such that the object 19 transitions from not perceptible to the user, to 20 being completely materialized visually and 21 perceptible to the user." 22 Do you see that? 23 A. Yes. 24 Q. So in the context of this sentence, is 25 "not perceptible to the user" -- that refers to an</p>

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<p>1 object being invisible? Or close to invisible?</p> <p>2 A. That is how I would understand that. That</p> <p>3 is how I would understand it. Yes.</p> <p>4 Q. And transparency effect? Can you describe</p> <p>5 what that means in this sentence?</p> <p>6 A. I think a transparency effect, or lack</p> <p>7 thereof, really refers to, I guess two endpoints of</p> <p>8 a state as the object transitions from not</p> <p>9 perceptible to the user, to being completely</p> <p>10 materialized visually and perceptible to the user.</p> <p>11 So I guess a full transparency effect</p> <p>12 would mean the object is fully transparent. And a</p> <p>13 complete lack of transparency would mean that the</p> <p>14 object is fully opaque.</p> <p>15 Q. So this sentence is describing going from</p> <p>16 being invisible to being visible, or being</p> <p>17 completely transparent to being opaque?</p> <p>18 A. This sentence is describing -- well, I</p> <p>19 guess we can start out by the first quote:</p> <p>20 "The optical intensity may be perceived by</p> <p>21 users as a transparency effect or lack thereof</p> <p>22 applied to the user interface object."</p> <p>23 So that means for any object, you could or</p> <p>24 could not have a transparency effect. And then what</p> <p>25 I go on to say is, it's possible. You could use</p>	<p>1 Q. Do you have it open?</p> <p>2 A. Yes.</p> <p>3 Q. Okay. And I wanted to look at Figures 4A</p> <p>4 and B.</p> <p>5 A. Okay. Okay. Yes. I'm there.</p> <p>6 Q. I just lost it. Hold on. So 4A and B</p> <p>7 include an element called "Menu Button 410." Do you</p> <p>8 see that?</p> <p>9 A. Yes.</p> <p>10 Q. Okay.</p> <p>11 And so, I want to discuss menu button 410.</p> <p>12 So let's go down to where it's discussed in</p> <p>13 Chaudhri. And I think that that is in paragraph 71.</p> <p>14 A. Okay. Okay. I'm there.</p> <p>15 Q. So paragraph 71 is directed to Figures 4A</p> <p>16 and B. And the second sentence says:</p> <p>17 "In Figure 4A, device 400 includes a touch</p> <p>18 screen 408 and a menu button 410."</p> <p>19 Do you see that?</p> <p>20 A. Yes.</p> <p>21 Q. Okay. And then the last sentence of</p> <p>22 paragraph 71 says:</p> <p>23 "As described above, the visual cues on</p> <p>24 the unlock image may be displayed by the device 400,</p> <p>25 upon event that may require the user's attention</p>
Page 35	Page 37
<p>1 that so that the object transitions in a particular</p> <p>2 direction from not perceptible to the user, which,</p> <p>3 if it's a full transparency effect, it would be not</p> <p>4 perceptible, to being completely materialized</p> <p>5 visually, and perceptible to the user, which means,</p> <p>6 I guess no transparency. Fully opaque.</p> <p>7 Q. Okay.</p> <p>8 So going from invisible to visible would</p> <p>9 help draw the attention of the user to the object.</p> <p>10 Correct?</p> <p>11 A. Well, I think -- I think Chaudhri shows a</p> <p>12 couple -- gives a couple reasons, or a couple things</p> <p>13 that these effects would do. It draws attention to</p> <p>14 an object that becomes visible, especially when</p> <p>15 other objects are becoming less visible or fading</p> <p>16 out.</p> <p>17 And it also, when this effect is done --</p> <p>18 as a gesture is being done by the user, it actually</p> <p>19 helps to give a progress indicator as well. So it</p> <p>20 does multiple things, this effect.</p> <p>21 Chaudhri teaches that it does multiple</p> <p>22 things. Yeah.</p> <p>23 Q. Let's switch over to Exhibit 1005.</p> <p>24 Chaudhri.</p> <p>25 A. Okay.</p>	<p>1 (e.g. an incoming caller message) or upon user</p> <p>2 intervention (e.g. the user pressing the menu button</p> <p>3 410) while the device is locked."</p> <p>4 So the menu button 410 is a menu -- a</p> <p>5 virtual menu button that can be pressed while the</p> <p>6 device is locked. Is that your understanding?</p> <p>7 A. Yes. Yes. That's -- that is what the</p> <p>8 last -- the last clause of the last sentence</p> <p>9 implies. That the visual cues on the unlock image</p> <p>10 may be displayed, in one case upon user</p> <p>11 intervention. And, for example, the user presses</p> <p>12 the menu button 410 while the device is locked.</p> <p>13 Q. And the menu button 410, I don't think it</p> <p>14 really ever told us what that does. But what --</p> <p>15 what would pressing the menu button 410 do? What</p> <p>16 would a POSITA understand that to do?</p> <p>17 A. Well, I think -- let me just -- let me</p> <p>18 just look at paragraph 71 a little more carefully</p> <p>19 before I answer that.</p> <p>20 Well, I think if -- I think you have --</p> <p>21 the sentences we have read kind of are key to</p> <p>22 understanding what a POSITA would understand is</p> <p>23 going on here. So the first sentence of paragraph</p> <p>24 71 says:</p> <p>25 "Figures 4A to 4B illustrate the</p>

<p style="text-align: right;">Page 38</p> <p>1 GUI display of a device in a user interface lock 2 state, according to some embodiments of the 3 invention. In Figure 4A, device 400 includes a 4 touchscreen 408 and a menu button 410." 5 And then it goes on to say: 6 "The device 400 is locked and the 7 touchscreen 408 is displaying an unlocked image 402 8 and visual cues. The visual cues shown include a 9 channel 404..." 10 Et cetera. And then if you go to the last 11 sentence: 12 "As described above, the visual cues in 13 the unlock image --" 14 Which were just referred to in those 15 earlier sentences. 16 "-- may be displayed by the device 400 17 upon an event that may require the user's attention, 18 for example, an incoming caller message, or upon 19 user intervention. For example, the user pressing 20 the menu button 410 while the device is locked." 21 So I think what the figure shows is a 22 state where the channel 402, or the unlock image 402 23 and visual cues are displayed, and the menu button 24 410 is also displayed. 25 And then, I think what the last sentence</p>	<p style="text-align: right;">Page 40</p> <p>1 A. Okay. I'm there. 2 Q. And on 41, at the bottom, you start your 3 analysis of claim element for claim 1C, which reads: 4 "Detect at least part of a gesture on the 5 touchscreen." 6 Do you see that? 7 A. Yes. 8 Q. Okay. And then on -- below paragraph 67, 9 you have a figure that's labeled, "Amalgamation of 10 Figs 3A and 18A left, and Figure 13B right." 11 Do you see that? 12 A. Yes. 13 Q. Okay. 14 So the amalgamation of Figures 3A and 18A, 15 it looks like a Menu Icon Identifier was added to 16 Figure 3A. 17 Is that your understanding? 18 A. That is correct. Yes. 19 Q. Okay. 20 And then Figure 13B, which is the -- the 21 Menu 1300 is highlighted in green? 22 A. Yes. 23 Q. Okay? 24 A. Yes. That's correct. 25 Q. Okay.</p>
<p style="text-align: right;">Page 39</p> <p>1 is conveying to the POSITA is circumstances under 2 which the visual cues and unlock image may be 3 displayed. 4 So it gave at least two examples. If an 5 event happens that requires the user's attention, or 6 if the user presses the menu button 410. So those 7 are at least two scenarios -- specific scenarios 8 under which the visual cues and unlock image would 9 be displayed for the user to interact with. 10 Q. So looking back at Figures 4A and B -- I 11 just want to make sure I understand. The menu 12 button 410 is shown at the same time as the visual 13 cues in 4A and 4B. Correct? 14 A. In these figures. Yes. 15 Q. Okay. Okay. 16 ATTORNEY GARZA: We've been going about an 17 hour. Did you want to take a quick break? 18 THE WITNESS: Sure. 19 ATTORNEY GARZA: All right. We can go off 20 the record. 21 (Short break) 22 BY ATTORNEY GARZA: 23 Q. Dr. Terveen, welcome back. Can I get you 24 to turn in your declaration to page 42? Actually, 25 let's start on page 41.</p>	<p style="text-align: right;">Page 41</p> <p>1 And we looked at Figure 13 earlier. And 2 Figure 13 is one of the ones that didn't have a Menu 3 Icon Identifier in Ahn initially. Correct? 4 A. In Figure 13B. And, you know, Ahn says 5 that its teachings of graphical shadows or Menu Icon 6 Identifiers can be applied to its previous 7 implementation. So that's what I was illustrating 8 here. 9 Q. Okay. So paragraph 68 entered the figures 10 in your declaration. It starts: 11 "In one example illustrated in the above 12 figures, if the user touches a specific position on 13 the touchscreen 10 and drags the touch in a left 14 direction, a menu list 1300 matched to a left 15 direction is displayed in the display 40." 16 Do you see that? 17 A. Yes. 18 Q. Okay. 19 Is the distance of the drag gesture what 20 determines whether Menu 1300 is deployed? 21 A. I'm not sure I know what you mean by that. 22 Q. What determines if Menu 1300 is deployed, 23 in this example? 24 A. Well, I think what Ahn says is -- and I 25 gave a quote here, and I think you read it already,</p>

<p style="text-align: right;">Page 42</p> <p>1 in the first sentence at paragraph 68, in one</p> <p>2 example, illustrated in the above figures.</p> <p>3 And then quote from Ahn, if the user</p> <p>4 touches a specific position of the touchscreen 10</p> <p>5 and drags the touch in a left direction, a menu list</p> <p>6 1300 matched to a left direction is displayed in the</p> <p>7 display 40.</p> <p>8 So I think all Ahn says here is that in</p> <p>9 this case, there is a drag in a left direction. And</p> <p>10 I think a person of ordinary skill in the art would</p> <p>11 understand that minimally, that means literally,</p> <p>12 there is motion in a leftward direction -- a finger</p> <p>13 motion or a stylist motion in a leftward direction.</p> <p>14 But at least in this example, it isn't --</p> <p>15 and so, that is some length of gesture. But Ahn</p> <p>16 isn't, in this example, specifying how much length</p> <p>17 is required.</p> <p>18 Q. In this example that you described in</p> <p>19 paragraph 68, when the Menu 1300 is fully out, does</p> <p>20 the menu identifier icon disappear?</p> <p>21 A. Well, I think that's one possibility, that</p> <p>22 the sections of Ahn in, I think paragraph 119, that</p> <p>23 we discussed earlier, would describe that the Menu</p> <p>24 Icon Identifier can gradually disappear, as the menu</p> <p>25 comes in.</p>	<p style="text-align: right;">Page 44</p> <p>1 in.</p> <p>2 And the menu identifier icon, I said fades</p> <p>3 out, and/or is made smaller as it is dragged. So</p> <p>4 this is using teachings of both Ahn's explicit</p> <p>5 teaching of the menu identifier icon gradually</p> <p>6 disappearing, as well as the teachings -- I'm</p> <p>7 referring to the teachings of Chaudhri for utilizing</p> <p>8 cues.</p> <p>9 And then finally, on the right-most</p> <p>10 figure, what I'm saying is at the end of this</p> <p>11 process, the menu is matched to the left -- the menu</p> <p>12 matched to a left touch direction -- excuse me.</p> <p>13 A menu matched to left touch and drag</p> <p>14 direction is displayed on the right side of the</p> <p>15 touch screen 10. So that's the end state of the</p> <p>16 whole process that I am depicting here.</p> <p>17 Q. Does Ahn teach that the menu identifier</p> <p>18 icon 1800 can be made smaller as it is dragged?</p> <p>19 A. Ahn does not explicitly teach that. That</p> <p>20 was -- as I go on and say in paragraph 79 right</p> <p>21 below, that is one of the cues that Chaudhri</p> <p>22 teaches, as I say, to help users know what gesture</p> <p>23 to utilize and whether they are correctly performing</p> <p>24 it.</p> <p>25 Q. And where does Chaudhri teach making the</p>
<p style="text-align: right;">Page 43</p> <p>1 So that certainly is one teaching of Ahn</p> <p>2 that we discussed already. Yes.</p> <p>3 Q. Let's go in your declaration,</p> <p>4 Exhibit 1003, down to page 50.</p> <p>5 A. Okay.</p> <p>6 Q. And here, the figure at the top is</p> <p>7 described as an amalgamation of Figs 3A and 18A</p> <p>8 left, amalgamation of Figs 3A, 4A, and 18A (center)</p> <p>9 and Fig 13B on the right.</p> <p>10 Do you see that?</p> <p>11 A. Yes.</p> <p>12 Q. And can you describe what's happening in</p> <p>13 these three figures?</p> <p>14 A. Sure. This, I -- well, I think the</p> <p>15 annotations I included on top of the screens is a</p> <p>16 pretty good description. So I'll sort of go over</p> <p>17 that.</p> <p>18 So in the left-most figure, which is an</p> <p>19 amalgamation of Figures 3A and 18A, I said the user</p> <p>20 touches near the right side of the touchscreen 10</p> <p>21 and drags left toward the center of touchscreen 10.</p> <p>22 And I'm depicting that at this point, a</p> <p>23 menu identifier icon is showed. In the middle</p> <p>24 figure, I say as the user drags the menu identifier</p> <p>25 icon, the menu is dragged on to the screen and fades</p>	<p style="text-align: right;">Page 45</p> <p>1 icon identifier smaller?</p> <p>2 A. Let me check that.</p> <p>3 Q. Okay.</p> <p>4 [Witness reviewed document.]</p> <p>5 A. Let me just check here. Okay. I'm going</p> <p>6 to apologize. I think I had that wrong, and it</p> <p>7 actually -- I had corrected a reference to -- in</p> <p>8 paragraph 94, an incorrect reference to</p> <p>9 Exhibit 1005, which is Chaudhri. And instead, that</p> <p>10 should have been Ahn.</p> <p>11 And in paragraph 94, where I talk more</p> <p>12 explicitly about changing the size, I -- again, this</p> <p>13 was the correction I made, to a sense, additionally</p> <p>14 or alternatively, it was known that varying size was</p> <p>15 another method of conveying focusing on context</p> <p>16 information and it was known to utilize size in</p> <p>17 addition to blur.</p> <p>18 And then I gave references to</p> <p>19 Exhibit 1008, as well as -- and what it said in my</p> <p>20 declaration was 1005. But that should have been</p> <p>21 1004, which is Ahn.</p> <p>22 And I refer to paragraph 44 in claim 10.</p> <p>23 And I think claim 10 of Ahn explicitly referred to</p> <p>24 using size, and I believe color, as a way of</p> <p>25 focusing users' attention.</p>

<p style="text-align: right;">Page 46</p> <p>1 So, yeah. That -- I'm sorry. It was not</p> <p>2 Chaudhri. It was Exhibit 1008, as well as Ahn</p> <p>3 itself. Yeah.</p> <p>4 Q. Okay.</p> <p>5 I just want to make sure that I understand</p> <p>6 what you are saying. So back where we were</p> <p>7 discussing on page 50, you are saying that</p> <p>8 Exhibit -- the reference to Exhibit 1005 should be</p> <p>9 to 1004? Is that what you are saying?</p> <p>10 A. That was the correction I gave at the</p> <p>11 beginning. Yes.</p> <p>12 Q. In paragraph 94?</p> <p>13 A. In paragraph 94. And so, the figure --</p> <p>14 the amalgamated figure on page 50, where I refer to,</p> <p>15 that you could make the menu identifier icon not</p> <p>16 just fade out, but also make it smaller, I think I</p> <p>17 explained that in detail in paragraph 94, what</p> <p>18 the -- I only explained it, or I did explain it in</p> <p>19 paragraph 94.</p> <p>20 Q. So paragraph 94, you are referring -- the</p> <p>21 corrected reference is to paragraph 44 of Ahn?</p> <p>22 A. And claim 10 of Ahn. Yes.</p> <p>23 Q. And claim 10 of Ahn. Okay.</p> <p>24 So paragraph 44 of Ahn -- so Ahn is</p> <p>25 Exhibit 1004. Paragraph 44 says:</p>	<p style="text-align: right;">Page 48</p> <p>1 amalgamated figure above paragraph 79, where I say</p> <p>2 the menu identifier icon fades out and/or is made</p> <p>3 smaller as it is dragged.</p> <p>4 While I illustrated the possibility of</p> <p>5 making it -- making the menu identifier icon smaller</p> <p>6 here, I actually was not referring to that aspect</p> <p>7 that I've illustrated in the figure, in the mapping</p> <p>8 for this claim element. I only referred to that</p> <p>9 later on.</p> <p>10 So I could have updated paragraph 79, but</p> <p>11 I guess I did not think it was necessary, since I</p> <p>12 don't actually refer to the -- the limitation that</p> <p>13 talks about size only comes later.</p> <p>14 Q. Okay.</p> <p>15 A. A little complicated. Sorry about that.</p> <p>16 Q. Going back up to paragraph 68?</p> <p>17 A. Okay.</p> <p>18 Q. And again, this is under claim element 1C.</p> <p>19 So in paragraph 68, you include -- the first two</p> <p>20 sentences include citations to Ahn, which is</p> <p>21 Exhibit 1004. And then the last sentence includes</p> <p>22 citations to Chaudhri, which is 1005. Correct?</p> <p>23 A. I see that. Yes.</p> <p>24 Q. So are you relying on the combination of</p> <p>25 Ahn and Chaudhri to disclose element 1C?</p>
<p style="text-align: right;">Page 47</p> <p>1 "Depending on implementation, the message</p> <p>2 notification icon 330B may be displayed in a size</p> <p>3 different from that of other icons. Or an icon</p> <p>4 related to a currently displayed menu may be</p> <p>5 displayed to be easily recognized by the user with</p> <p>6 various -- with other various methods."</p> <p>7 I think I read that correctly.</p> <p>8 A. Correct. Yes.</p> <p>9 Q. So you are saying that this paragraph</p> <p>10 teaches that the graphic icon decreases -- can</p> <p>11 decrease in size?</p> <p>12 A. It teaches the use of size as a way to</p> <p>13 indicate something as an indicator in a user</p> <p>14 interface, as does claim 10 of Ahn.</p> <p>15 Q. Yeah. So do you need to make a correction</p> <p>16 of paragraph 79? Or is paragraph 79 fine the way it</p> <p>17 is?</p> <p>18 A. Let me just look here.</p> <p>19 [Witness reviewed document.]</p> <p>20 A. Well, I think paragraph 79 does not</p> <p>21 explicitly describe using size or changing size of</p> <p>22 an object as a cue. If it had done that, I would</p> <p>23 have needed to give the same reference as I did in</p> <p>24 paragraph 94.</p> <p>25 And I should say that when -- in the</p>	<p style="text-align: right;">Page 49</p> <p>1 A. Well, throughout, I am using the</p> <p>2 Ahn/Chaudhri combination. In this case, I think</p> <p>3 that -- well, let's look at how paragraph 168 -- or</p> <p>4 excuse me, 68 starts:</p> <p>5 "In one example illustrated in the above</p> <p>6 figures, and now a quote from Ahn, if the user</p> <p>7 touches a specific position of the touchscreen 10</p> <p>8 and drags the touch in a left direction, a menu list</p> <p>9 1300 matched to a left direction is displayed in the</p> <p>10 display 40."</p> <p>11 So I think that touching and dragging is,</p> <p>12 in fact, a gesture. Ahn teaches a gesture. But</p> <p>13 then in the last sentence, where I also cited to</p> <p>14 Chaudhri, I -- the first sentence that I excerpted</p> <p>15 from Chaudhri, as used herein, a gesture is a motion</p> <p>16 of the object/appendage making contact with the</p> <p>17 touch screen.</p> <p>18 So that was just to, I guess, make</p> <p>19 explicit the fact that when you touch your object or</p> <p>20 finger to the screen, and then move it, or even</p> <p>21 touching it, that is literally a gesture. So yeah.</p> <p>22 That's what I was doing here.</p> <p>23 Q. Can you go to page 53 of your declaration,</p> <p>24 Exhibit 1003?</p> <p>25 A. Okay.</p>

<p style="text-align: right;">Page 50</p> <p>1 Q. So in page 53, about a little half-way 2 down, we move on to claim two and your mapping for 3 claim two. So claim 2A states: 4 "The device of claim one, wherein the 5 device is configured such that the object includes a 6 graphic object." 7 And then 2B states: 8 "The object is displayed closer to a top 9 edge of the touchscreen than a bottom edge of the 10 touchscreen." 11 Do you see that? 12 A. Yes. 13 Q. Okay. 14 And then to meet element 2B on page 56, it 15 looks like you are showing that the touchscreen can 16 be rotated. 17 A. Uh-huh. 18 Q. So that the -- 19 A. Yeah. Excuse me. 20 Q. Yeah. 21 A. I'll let you go ahead. I'm sorry. 22 Q. Okay. That's okay. I'm just trying to -- 23 I'm just trying to see how this is being mapped. 24 So we are rotating -- it looks like you 25 are showing two different examples. One where there</p>	<p style="text-align: right;">Page 52</p> <p>1 Q. On page -- if you scroll down page 65? 2 A. Okay. 3 Q. And then on page 65, we are talking about 4 claim three. And it reads: 5 "The device of claim 2 wherein the device 6 is configured, such that the object is displayed 7 closer to a right edge of the touchscreen than to a 8 left edge of the touchscreen." 9 Do you see that? 10 A. Yes. 11 Q. And because this claim three depends from 12 claim two, it needs to include all of the elements 13 of claim two. 14 Is that your understanding? 15 A. Yes. 16 Q. Okay. 17 And in describing claim three, I don't 18 see -- it looks like you just described claim three 19 related to the original orientation. Correct? 20 A. Well, in paragraph 103, I do say that the 21 claims do not specify or otherwise limit the frame 22 of reference from which the relative terms, right or 23 left, are to be considered. 24 So again, I'm -- I'm just setting up that 25 you could have reoriented -- a user could have</p>
<p style="text-align: right;">Page 51</p> <p>1 is the regular orientation. And then a rotated 2 orientation. Correct? 3 A. Are you referring to the figures on page 4 56? 5 Q. Yes, Sir. 6 A. Yes. Yes. That was one example in my 7 mapping, or the first example of my mapping. Yes. 8 Q. Okay. 9 So 2B requires that the object is 10 displayed closer to a top edge of the touchscreen 11 than a bottom edge of the touchscreen. And we have 12 agreed earlier, I think, that the object is the menu 13 identifier icon. Correct? 14 A. That is correct. 15 Q. Okay. 16 Okay. And the menu identifier icon is not 17 shown on any of the figures on page 56. Correct? 18 A. It's -- it's not shown. It's -- I simply 19 illustrated that you could have rotated the screen, 20 but I previously, I guess, shown that you can have a 21 menu -- what do you call it -- the Menu Icon 22 Identifier, or the graphical shadow, associated with 23 any of the menus. 24 So it could have been there. I just 25 didn't illustrate it there.</p>	<p style="text-align: right;">Page 53</p> <p>1 reoriented the device. Yeah. 2 Q. Okay. 3 ATTORNEY GARZA: Dr. Terveen, actually, 4 can we take a short break? I think I'm about 5 done, but I just want to double-check a couple 6 of things. Is that okay? 7 THE WITNESS: Sure thing. 8 ATTORNEY GARZA: Just like five minutes. 9 THE WITNESS: Absolutely. 10 ATTORNEY GARZA: Okay. Thank you. Let's 11 go off the record. 12 COURT REPORTER: Okay. We are off the 13 record. 14 (Short break.) 15 ATTORNEY GARZA: Dr. Terveen, thank you so 16 much for your time today. And I have no 17 further questions. So I pass the witness. 18 ATTORNEY HOLT: No redirect. 19 COURT REPORTER: Okay. Can I get your 20 orders for the transcript, please? 21 ATTORNEY GARZA: I think ours was just the 22 standing orders. This is one of like eight of 23 these; nine of these. 24 ATTORNEY HOLT: For our side, we don't 25 need any rush or the rough. Just the standard</p>

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<p>1 copy when it's available is fine.</p> <p>2 COURT REPORTER: Okay. Thank you.</p> <p>3 ATTORNEY GARZA: I just got notice that we</p> <p>4 need the same day rough. I don't know if</p> <p>5 that's part of the order or not.</p> <p>6 COURT REPORTER: Okay. Thank you.</p> <p>7 (Whereupon, the deposition adjourned at</p> <p>8 10:43 a.m. Central Time)</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p>1</p> <p>2 CERTIFICATE OF DEPONENT</p> <p>3</p> <p>4 I, LOREN TERVEEN, hereby certify that I have read</p> <p>5 the foregoing pages, numbered 1 through 54, of my</p> <p>6 deposition of testimony taken in these proceedings on</p> <p>7 Wednesday, June 18, 2025 and, with the exception of the</p> <p>8 changes listed on the next page and/or corrections, if</p> <p>9 any, find them to be a true and accurate transcription</p> <p>10 thereof.</p> <p>11</p> <p>12 Signed:</p> <p>13 Name: LOREN TERVEEN</p> <p>14 Date:</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>																																																															
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<p>1 REPORTER'S CERTIFICATE</p> <p>2</p> <p>3 I, GISELLE MITCHELL-MARGERUM, the undersigned, a</p> <p>4 Registered Professional Reporter, Certified Reporting</p> <p>5 Instructor, Licensed Court Reporter, and Certified Court</p> <p>6 Reporter, do hereby certify:</p> <p>7</p> <p>8 That the witness, LOREN TERVEEN, before examination</p> <p>9 was remotely duly sworn to testify to the truth, the</p> <p>10 whole truth, and nothing but the truth.</p> <p>11</p> <p>12 That the foregoing deposition was taken remotely</p> <p>13 stenographically by me on Wednesday, June 18, 2025, and</p> <p>14 thereafter was transcribed by me, and that the</p> <p>15 deposition is a full, true, and complete transcript of</p> <p>16 the testimony, including questions and answers, and</p> <p>17 objections, motions and exceptions made by counsel.</p> <p>18 That reading and signing was not requested; and</p> <p>19 that I am neither attorney nor counsel for, nor related</p> <p>20 to or employed by, any of the parties to the action in</p> <p>21 which this deposition was taken; and that I have no</p> <p>22 interest, financial or otherwise, in this case.</p> <p>23</p> <p>24 IN WITNESS WHEREOF, I have hereunto set my</p> <p>25 hand this 2nd day of July, 2025.</p> <p>16 </p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22 GISELLE MITCHELL-MARGERUM, RPR, CRI, CCR, LCR, ACCR, CSR</p> <p>23 CALIFORNIA CSR 14424</p> <p>24</p> <p>25</p>	<p>1 ERRATA SHEET</p> <p>2 Case Name: Apple Inc. v. Smith Interface</p> <p>3 Technologies, LLC</p> <p>4 Witness Name: LOREN TERVEEN</p> <p>5 Date:</p> <table border="1"><thead><tr><th>Page/Line</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>6</td><td>____/____</td><td>_____</td></tr><tr><td>7</td><td>____/____</td><td>_____</td></tr><tr><td>8</td><td>____/____</td><td>_____</td></tr><tr><td>9</td><td>____/____</td><td>_____</td></tr><tr><td>10</td><td>____/____</td><td>_____</td></tr><tr><td>11</td><td>____/____</td><td>_____</td></tr><tr><td>12</td><td>____/____</td><td>_____</td></tr><tr><td>13</td><td>____/____</td><td>_____</td></tr><tr><td>14</td><td>____/____</td><td>_____</td></tr><tr><td>15</td><td>____/____</td><td>_____</td></tr><tr><td>16</td><td>____/____</td><td>_____</td></tr><tr><td>17</td><td>____/____</td><td>_____</td></tr><tr><td>18</td><td>____/____</td><td>_____</td></tr><tr><td>19</td><td>____/____</td><td>_____</td></tr><tr><td>20</td><td>____/____</td><td>_____</td></tr><tr><td>21</td><td colspan="2">Subscribed and sworn to before</td></tr><tr><td>22</td><td colspan="2">me this date day of month , 2025.</td></tr><tr><td>23</td><td colspan="2">_____</td></tr><tr><td>24</td><td colspan="2">LOREN TERVEEN</td></tr><tr><td>25</td><td colspan="2"></td></tr></tbody></table>	Page/Line	From	To	6	____/____	_____	7	____/____	_____	8	____/____	_____	9	____/____	_____	10	____/____	_____	11	____/____	_____	12	____/____	_____	13	____/____	_____	14	____/____	_____	15	____/____	_____	16	____/____	_____	17	____/____	_____	18	____/____	_____	19	____/____	_____	20	____/____	_____	21	Subscribed and sworn to before		22	me this date day of month , 2025.		23	_____		24	LOREN TERVEEN		25		
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