

In the Matter Of:

APPLE INC. vs

SMITH INTERFACE TECHNOLOGIES

LOREN TERVEEN, PH.D.

June 11, 2025



UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,
Petitioner,

v.

SMITH INTERFACE TECHNOLOGIES, LLC
Patent Owner.

IPR2024-01115
IPR2024-01116
IPR2024-01119
U.S. Patent No. 10,656,754

DEPOSITION OF LOREN G. TERVEEN, PH.D.

Wednesday, June 11, 2025
9:00 a.m. (CT)

Reported Stenographically By:
Joan Ferrara, RMR, FCRR
Job No. 2025-985618

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1 2 3 4 June 11, 2025 5 9:00 a.m. (CT) 6 7 8 9 10 Deposition of LOREN G. TERVEEN, PH.D, 11 held remotely via Zoom, before Joan 12 Ferrara, a Registered Merit Reporter, 13 Federal Certified Realtime Reporter and 14 Notary Public. 15 16 17 18 19 20 21 22	1 ----- I N D E X ----- 2 WITNESS EXAMINATION BY PAGE 3 LOREN G. TERVEEN 4 MR. ROBINSON 5 5 6 7 ----- EXHIBITS REFERENCED ----- 8 9 EXHIBIT Apple-1003 9 10 11 EXHIBIT Apple-1004 12 12 13 EXHIBIT Apple-1005 50 14 15 EXHIBIT Apple-1013 63 16 17 18 19 20 21 22
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1 REMOTE APPEARANCES: 2 3 ON BEHALF OF PETITIONER: 4 FISH & RICHARDSON 5 1000 Maine Avenue, SW 6 Suite 1000 7 Washington, DC 20024 8 BY: DAVID HOLT, ESQ. 9 10 11 ON BEHALF OF PATENT OWNER: 12 NORTON ROSE FULBRIGHT US LLP 13 98 San Jacinto Boulevard 14 Suite 1100 15 Austin, Texas 78701-4255 16 BY: EAGLE ROBINSON, ESQ. 17 CHAD WALLIS, ESQ. 18 19 20 21 22	1 LOREN G. TERVEEN, 2 called as a witness, having been 3 duly sworn by a Notary Public, was 4 examined and testified as follows: 5 EXAMINATION BY 6 MR. ROBINSON: 7 Q Good morning, Dr. Terveen. How 8 are you today? 9 A Good morning. Good. 10 Q I know you've been deposed a few 11 times so, I won't spend any time on ground 12 rules, just dive right into it. 13 Would you please state your full 14 name for the record, please? 15 A Yes. Loren Terveen. 16 Q And where are you located today, 17 Dr. Terveen? 18 A Minneapolis. 19 Q And are you alone in the room? 20 A Yes. 21 Q Do you have any materials with 22 you?

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1 A No. 2 Q Okay. Do you have any other 3 windows open on the computer besides the 4 Zoom interface? 5 A Nope. 6 Q All right. I will share some 7 exhibits with you through the chat today. 8 I'll give you time to open them up. The 9 only thing I ask is to let me know if you 10 open any documents other than the Zoom 11 interface that we're using and the PDFs of 12 the exhibits that I share with you. 13 Can you do that? 14 A Yes. 15 Q Okay. All right. 16 Dr. Terveen, this deposition 17 involves three IPRs that challenge U.S. 18 Patent No. 10,656,754. 19 Is that your understanding? 20 A Yes. 21 Q Okay. And if I refer to the 22 '754 Patent, will you understand that I'm	1 you submitted only one substantive 2 declaration for the '754 Patent in all of 3 those IPRs? 4 A Yes. 5 Q Okay. What did you do -- well, 6 let me add a little more to that. 7 After you submitted your 8 declaration in these proceedings, what did 9 you do to prepare for today's deposition? 10 A I reviewed materials and I met 11 with Apple's attorneys. 12 Q And which materials did you 13 review? 14 A I reviewed the '754 Patent, my 15 declaration, the prior art that I relied on 16 or that I referred to in my declaration and 17 the PTAB's institution decisions, and 18 that's all that comes to my mind at this 19 point. 20 Q Did you review the PTAB 21 institution decisions for the proceedings 22 that were not instituted?
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1 referring to the patent whose full number I 2 just read? 3 A Yes. 4 Q Okay. And so it's on the 5 record, the three IPRs that we're here to 6 discuss is IPR 2024-0115, IPR 2024-0116, 7 and IPR 2024-01119. 8 Is that consistent with your 9 understanding? 10 A Yes. 11 Q All right. There were also 12 several IPRs challenging the '754 Patent 13 that were not instituted, correct? 14 A Yes. 15 Q Okay. And you understand that 16 we will not be talking about those IPRs 17 today? 18 A Yes, I understand. 19 Q Okay. Your declaration for the 20 three instituted IPRs for the '754 Patent 21 appears to be identical. 22 Is it your understanding that	1 A No. 2 Q Okay. Other than counsel for 3 Apple, did you discuss your testimony with 4 anybody else? 5 A No. 6 Q And approximately how much time 7 did you spend meeting with counsel for 8 Apple? 9 A About 5 hours I would say. 10 Q Okay. I want to start by 11 sharing your declaration, which is -- well, 12 I'll let you download it first. It should 13 be popping up in the chat. 14 A I see it. 15 (Apple-1003 referenced) 16 A Okay, I've downloaded it and 17 opened it. 18 Q Okay. And do you recognize that 19 document, sir? 20 A Yes, yes, that's my declaration. 21 Q Okay. Are there any corrections 22 you'd like to make to your declaration

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1 before we begin? 2 A No, none that I can think of. 3 Q Okay. So sitting here today, 4 does Exhibit 1003 currently and accurately 5 reflect all of your opinions related to 6 '754 Patent? 7 A It reflects all the opinions 8 that I've formed up to this point, yes. 9 Q Okay. Would you please turn to 10 paragraph 18 of your declaration? 11 A Okay, I'm there. 12 Q That lists a number of documents 13 that you considered in preparing your 14 opinions for the '754 Patent, correct? 15 A Yes. 16 Q Do you recall any documents that 17 you reviewed that are not listed in this 18 paragraph 18? 19 A No, I don't recall any others. 20 Q I'll ask you to turn to 21 paragraph 21 of your declaration. 22 A Okay.	1 the provisional applications themselves? 2 A Nothing beyond what I've cited 3 here and what was in the prosecution 4 history. 5 Q Okay. Next I'm going to put 6 the -- well, put another exhibit in the 7 chat for you. If you would just let me 8 know when that's available. 9 A Sure. 10 (Apple-1004 referenced) 11 A Okay, I've got it. 12 Q Do you recognize that as the Ahn 13 reference? 14 A Yes. 15 Q And that should be marked Apple 16 Exhibit 1004, is that correct? 17 A Yes. 18 Q Okay. Could you please refer to 19 figure 2 of Ahn? 20 A Okay. 21 Q This depicts a mobile device 22 with a display and multiple physical
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1 Q The heading just above paragraph 2 21 is, it says pertinent disclosure. 3 Is there any other -- well, are 4 there any other portions of the '754 Patent 5 that you consider pertinent disclosure 6 besides the parts that are cited in this 7 section? 8 A Well, the whole patent would be 9 relevant, you know, to my opinions and the 10 work that I did. But what I've done here 11 is summarize the key parts of the patent 12 that I'm -- that I guess I'm explicitly 13 drawing on for my analysis and the opinions 14 that I lay out here. 15 Q Did you consider the disclosure 16 of any of the provisional applications to 17 which the '754 Patent claims priority? 18 A Well, I reviewed the prosecution 19 history. So anything that appeared in 20 there I would have -- I would have 21 considered. 22 Q But you didn't separately review	1 buttons, correct? 2 A Yes. 3 Q And if you look at paragraph 34, 4 Ahn refers to the elements in figure 2 5 numbered 32, 34, 36 and 38 as direction 6 keys, correct? 7 A Yeah, let me take a look at 8 paragraph 34. 9 Q Sure. 10 A Yes. 11 Q And referring to -- well, I'll 12 ask it more generally and then I'll refer 13 you to some specific parts of Ahn if it's 14 helpful. 15 Ahn discloses a mobile device 16 with multiple different menus, correct? 17 A Yes. 18 Q And if you would please refer to 19 Figure 3A of Ahn. 20 A Okay, I'm looking at that. 21 Q This depicts what Ahn describes 22 as a standby screen, correct?

Page 14 1 A Correct. 2 Q So Ahn's Figure 3A -- sorry, 3 Figure 3C depicts a top menu, correct? 4 A Yes, this is showing a menu at 5 the top edge of the screen. 6 Q Okay. And that menu is 7 displayed over part of the standby screen, 8 correct? 9 A Correct. 10 Q And Figure 4B depicts a right 11 menu, correct? 12 A Yes. This is a menu at the 13 right edge of the screen that comes in from 14 the right edge of the screen. 15 Q Okay. And that menu is shown 16 over part of the display -- or standby 17 screen, correct? 18 A Yes. 19 Q And Figure 6B depicts a bottom 20 menu, correct? 21 A Yes. 22 Q And that bottom menu is shown	Page 16 1 the standby screen before the user has 2 accessed a top menu and 3C shows the state 3 of the standby screen after a user has 4 accessed this menu from the top edge. 5 Q So 3B with what's called an 6 indicator icon in the middle of the screen 7 is the state that exists in this example 8 before the user provides the user input to 9 access the menu, correct? 10 A Well, I want to be careful or, 11 you know, precise. 12 3B shows a state of the standby 13 screen before the user has accessed any 14 menus, including a top menu, which is 15 depicted in Figure 3C. 16 Q So starting from Figure 3B, when 17 a user provides the input to access the top 18 menu, as indicated in 3B, that indicator 19 icon 310 moves upward in response to that 20 input to access the menu, correct? 21 A That's my understanding from the 22 figure, but I would need to refer to the
Page 15 1 over a part of the standby screen, correct? 2 A Yes. 3 Q And Figure 7B depicts a left 4 menu, correct? 5 A Yes, a menu that comes in at the 6 left side, left edge of the screen. 7 Q And that menu is shown over a 8 part of the standby screen, correct? 9 A That's correct. 10 Q And Ahn describes that each of 11 these four menus can be accessed via a user 12 input while on the standby screen, correct? 13 A Yes, users can provide input 14 from the standby screen to access -- to 15 access menus in Ahn's system, including 16 these four example menus. 17 Q Okay. So referring to Figures 18 3B and 3C, the progression from Figure 3B 19 to 3C shows what happens when a user 20 accesses the top menu, correct? 21 A Well, to be precise, I would say 22 Figure 3B shows an example of a state of	Page 17 1 text of Ahn to refresh my memory as to how 2 exactly it describes what's going on. 3 Q Sure. Let me refer you to 4 paragraph 37, if that's helpful. 5 A Thank you. 6 Q And so it's clear for the 7 record, that's paragraph 37 of Ahn. 8 A Just to tell you what I'm doing, 9 I'm actually going to open two copies of 10 Ahn because I keep flipping back and forth 11 between the description and the figures. 12 So I'm going to do that. 13 Right. So what paragraph 37 and 14 38 are, they're describing Figures 3B and 15 3C and they're describing an implementation 16 where a user has pressed one of the 17 directional keys to cause -- to cause what 18 is depicted in these two figures. 19 Q So starting with Figure 3B, a 20 user presses the up direction key, and then 21 in response the indicator icon 310 moves up 22 and off the screen, and the top menu

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1 appears as in Figure 3C, is that correct? 2 A Yes. 3 Q Okay. So as shown in Figure 3C, 4 hitting that up arrow effectively selects 5 that icon 330B, correct? 6 A Excuse me. Well, I think in 7 paragraph 343, it describes that the icon 8 330B is in -- is highlighted. 9 And then I think -- yeah, so 10 that is what I'm seeing the exact 11 description in the text of the state of the 12 icon 330B is given as. 13 Q Okay. So 330B is highlighted, 14 and then the submenu 340 appears and gives 15 the user four options that they can scroll 16 through and select, correct? 17 A Well, Figure 3C is showing the 18 menu window 340 that has four options, and 19 the icon 330B being highlighted. 20 Q And then Ahn's paragraph 43 21 describes that a user can, by selecting the 22 arrow keys, move up and down on those four	1 me to the paragraphs where that's described 2 exactly? 3 Q Sure. I think it is -- first 4 paragraph 40 introduces it, and then I 5 believe paragraphs 45 and 46 describe it. 6 A Okay. So Figure 3D is showing 7 the background music menu with icon 330C 8 highlighted. 9 Q And similarly, when icon 330C is 10 highlighted, pop-up window 340 is displayed 11 over the standby screen, correct? 12 A Yes, the background music window 13 340 is displayed over the standby screen. 14 Q And it appears to show, where it 15 says BGM -- I assume that's background 16 music -- it appears to show a virtual 17 button where you can toggle on and off the 18 background music, correct? 19 A That seems a reasonable 20 interpretation. 21 Q And then also lists I guess the 22 song that's now playing in the background
Page 19	Page 21
1 options in the pop-up window 340, correct? 2 A Yes, in this example, that's 3 correct. 4 Q Okay. And in the four options 5 that are shown, SMS generally refers to 6 text messages, correct? 7 A Yes. 8 Q Okay. And in-box and out-box 9 would generally refer to email, correct? 10 A Yes. 11 Q And then message settings would 12 be settings related to probably SMS and the 13 email, right? 14 A That's reasonable, yes. 15 Q Okay. So moving to Figure 3D -- 16 A I'm sorry, did you say 3D? 17 Q 3D, as in dog. 18 A Okay. 19 Q So 3D shows the background music 20 settings icon 330C being highlighted, 21 correct? 22 A Is this -- do you want to point	1 music, Bon Jovi, right? 2 A Yes. 3 Q So skipping ahead to Figure 4B 4 for a moment. 5 A Yes. 6 Q Those icons 330 are shown at the 7 top of the screen at the same time that the 8 right menu is displayed, correct? 9 A Yes. 10 Q And the same is true in Figure 11 6B when the bottom menu is displayed, 12 correct? 13 A Yes. 14 Q And those top icons 330 are also 15 shown in Figure 7B while the left menu is 16 displayed, correct? 17 A Yes. 18 Q And it can be beneficial to have 19 certain icons shown all the time at the top 20 like that, I guess. 21 A It can be. 22 Q And why is that?

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1 A Well, they might give a user 2 ways to access common -- commonly used 3 functions. 4 Q Okay. And functions that a user 5 may want to access regardless of what's 6 happening on the rest of the screen, like 7 background music? 8 A Well, yes, in the sense that if 9 those icons are always visible on a 10 particular -- in a particular area on a 11 particular screen, they can be accessed in 12 general, even if other information is on 13 the rest of the screen. 14 Q Referring back to Figure 3C for 15 just a moment. 16 A Yes. 17 Q The top menu that's displayed 18 doesn't blur the clock at all, does it? 19 A In this example, the clock 20 widget is not blurred. 21 Q Referring ahead to Figures 4A 22 and 4B.	1 Q Sure. Paragraph 50. 2 A Okay. I'm going to read that. 3 And then what was your question? 4 Q Ahn describes an animation of 5 the menu icon 410 moving to the right in 6 response to a user selecting that rightward 7 direction key, correct? 8 A Yes. The motion of the icon 410 9 is in response to the user selecting the 10 rightward direction key. 11 Q Okay. So I'll ask you to refer 12 then to Figure 5A. 13 A Okay. 14 Q Figure 5A depicts a brightness 15 setting window being displayed from that 16 right menu in response to a user selecting 17 icon 420A, correct? 18 A That is my understanding, but 19 let me review the relevant section of Ahn. 20 Q I'll refer you to paragraph 53, 21 if it's helpful. 22 A Yes. Thank you.
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1 A Yes. 2 Q The menu 420 is displayed in 3 response to a user selecting the right 4 arrow key, correct, or the rightward 5 direction key? 6 A Well, that's one way that Ahn 7 talks about displaying a menu using the 8 direction keys. 9 Q Okay. And then in connection 10 with Figure 13, Ahn also describes the menu 11 being displayed in response to a finger 12 dragging the standby screen, correct? 13 A Yes, that's another way that a 14 menu can be displayed, through dragging 15 your finger. 16 Q Okay. And referring back to 17 Figure 4A for a moment, Ahn describes an 18 animation with menu icon 410 moving in 19 response to that rightward direction key 20 input, correct? 21 A Can you point me to the part of 22 Ahn you're referring to?	1 Yes, paragraph 53 describes that 2 the user selected icon 420A, which is 3 described as the brightness setting menu. 4 And then in response to that, a 5 brightness setting window 510 was 6 displayed. 7 Q And as shown in Figure 5A, that 8 brightness setting window 510 is displayed 9 over the standby screen, correct? 10 A That's correct. 11 Q And it allows a user to interact 12 with that brightness setting window 510 to 13 set a brightness of the screen, correct? 14 A Yes, that would be my 15 understanding. 16 Q And Figure 5B shows another 17 submenu, specifically the standby screen 18 setting menu 510, extending from that right 19 menu in response to selecting 420B, 20 correct? 21 A Is it -- I'm sorry, I don't see 22 5B listing a menu 510. I see 530 and 520.

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1 Q Sorry, I misspoke. Let me see 2 if I can say that again, the way I meant 3 to. 4 Figure 5B shows another submenu, 5 specifically the standby screen setting 6 menu 520 extending from the right menu in 7 response to a user having selected icon 8 420B, correct? 9 A Yes. 10 Q And Figure 5D shows an alarm 11 setting submenu 540 extending from the 12 right menu in response to a user having 13 selected icon 420C, correct? 14 A I'm sorry, which figure are you 15 referring to? 16 Q D, as in dog. 17 A D, okay, yeah. Yes. 18 Q I'm going to ask you to refer to 19 Figure 6B, please. 20 A Okay. 21 Q Ahn's clock widget is not 22 blurred or obscured while that bottom menu	1 selected the settings icon in the left menu 2 720? 3 A Yes, that's my understanding of 4 this example. 5 Q So if I understand that 6 correctly, when the left menu of Figure 7B 7 is displayed and a user selects settings, 8 then that left menu shown in Figure 7B 9 shrinks down to just the icons and the 10 submenu shown in Figure 7C is displayed? 11 A That's my understanding as well. 12 Q Okay. Thank you. 13 So we may have already covered 14 this, but I want to be sure. 15 Ahn describes -- at a high 16 level, Ahn describes two different ways of 17 opening its menus, correct, first with the 18 direction keys and second with a user's 19 finger dragging a direction on the 20 touchscreen? 21 A That's correct. 22 Q Okay. At paragraph 85 of your
Page 27	Page 29
1 is open, correct? 2 A Correct, not in Figure 6B. 3 Q And then Figure 7B, Ahn's clock 4 is not blurred when that left menu is open, 5 correct? 6 A Correct, not in Figure 7B. 7 Q 7B and 7C, is it your 8 understanding that 7C shows the display of 9 a submenu 730 in response to a user having 10 selected the settings icon in the left menu 11 720? 12 A Let me just refer to the actual 13 description in Ahn to confirm my 14 understanding. 15 Q I think paragraph 66 to 67 -- 16 A Okay. 17 Q -- has that description. 18 A Okay. Can you ask your question 19 again? 20 Q Is it your understanding that 21 Figure 7C shows the display of a submenu 22 labeled 730 in response to a user having	1 declaration, Exhibit 1003 -- 2 A Let's see. I'm navigating 3 there. Okay, I'm there. 4 Q You state that Ahn does not 5 include a separate discussion of opening 6 the indicator area 320 as it does with 7 regard to the menus associated with the 8 bottom and right and left sides of the 9 display. Thus, a POSITA would have 10 understood and found obvious that the 11 standby screen 300 includes indicator area 12 320 and that a user would have been able to 13 directly activate and interact with its 14 various icons directly from the standby 15 screen 300. 16 Do you see that? 17 A I see that, yes. 18 Q Okay. I think what that's 19 saying is that that indicator area 320 is 20 always displayed, so that it doesn't need 21 to be opened in the way that the other 22 menus need to be.

Page 30 1 A That's -- yes, the indicator 2 area is always displayed -- 3 Q Okay. 4 A -- on the standby screen. 5 Q Okay. I'll ask you to refer 6 back to Ahn, please. 7 A Uh-huh, okay. 8 Q Specifically at Figure 16. 9 A Okay. 10 Q So Ahn at paragraph 23 describes 11 this as a flow chart illustrating a method 12 of displaying a menu in a mobile 13 communication terminal having a touch input 14 device according to another implementation? 15 A Let's see. Yes. 16 Q So step S1610 says the tech, 17 touch and drag operation of a specific 18 direction. Step S1620 asks drag distance 19 of detected touch and drag operation is 20 first distance or more. And then, if not, 21 that returns to the flow. If it is equal 22 to or greater than the first distance, then	Page 32 1 Do you see that? 2 A Yes. 3 Q Okay. So same question for 4 that. The distance has to exceed the 5 second threshold before you can decide 6 whether or not it's ceded the second 7 threshold, correct? 8 A Yes. 9 Q Another basic sort of just 10 logical question is, that S1620 question 11 about the first distance is essentially an 12 "if then" operation, correct? 13 A Yes. 14 Q And same for S1640, that's 15 another "if then" operation, correct? 16 A Correct. 17 Q Okay. So at S1630, the first 18 menu is not displayed unless the touch and 19 drag operation distance has met or exceeded 20 the first distance at S1620, correct? 21 A Yes. The way I put it is the 22 process of displaying the first menu list
Page 31 1 the first menu is displayed at S1630. 2 Correct? 3 A Correct. 4 Q Okay. So basic question, but 5 you can't determine whether a distance 6 exceeds a threshold until after the 7 distance has been traveled, correct? 8 A Right. And you have to compare 9 the distance traveled of the gesture to the 10 threshold, and you haven't reached the 11 threshold until you've reached the 12 threshold. I think that's okay. I hope 13 that answers your question, yeah. 14 Q Okay. So after the first menu 15 is displayed at S1630, there's another 16 question that asks whether the drag 17 distance of the detected touch and drag 18 operation is the second distance or more. 19 So if it is -- well, if it 20 isn't, it circles back. If the distance is 21 greater than the second distance, then a 22 second menu list is displayed at S1650.	Page 33 1 doesn't happen until the distance traveled 2 has exceeded the first distance, or map or 3 exceeded the first distance. 4 Q Okay. And similar to S1650, the 5 second menu list is not displayed until the 6 drag distance has met or exceeded the 7 second distance, correct? 8 A That's correct. The process of 9 displaying the second menu also doesn't 10 start until you've exceeded, matter 11 exceeded the second distance. 12 MR. ROBINSON: So I think we've 13 been going just about an hour. Why 14 don't we take a quick maybe 10-minute 15 break, if that works. 16 THE WITNESS: Sure. 17 MR. ROBINSON: Okay. 18 (Recess taken 10:00 a.m.) 19 (Resumed 10:11 a.m.) 20 BY MR. ROBINSON: 21 Q Dr. Terveen, just picking up 22 where we left off, would you refer to

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1 Figure 17 of Ahn? 2 A Yes. 3 Q Is it your understanding that 4 this depicts an example of the operation 5 specified by the flow chart in Figure 16? 6 A I'm not sure if exactly how 7 the -- how Ahn describes Figure 17, but it 8 is an illustration definitely of displaying 9 in this case two menus, a menu and submenu, 10 based on -- including with reference to two 11 distance traveled D1 and D2. 12 Q I guess we can refer to, in 13 paragraph 112 of Ahn, which says that with 14 reference to Figure 17, when a drag 15 distance of the touch operation reaches the 16 distance D1, the first menu list 1700 is 17 displayed. If the drag distance of the 18 touch operation reaches the distance D2, 19 the first menu list 1700 disappears and the 20 second menu lists 1710 may be displayed. 21 A Yes, that's what it says. 22 Q Okay. And so when it says the	1 But I don't know. But that's -- 2 when I read the text, I wonder if one could 3 come to that interpretation as well -- as 4 well as the interpretation you offered, 5 which I also think would be reasonable 6 given the figure. 7 Q Interesting... 8 So let's start with kind of -- 9 is the interpretation I offered consistent 10 with what's shown in Figure 17? 11 A Yes, the start before this user 12 interaction would be -- and I forget which 13 figure it is, but the menu on the left side 14 with the text and the icons. I guess is 15 that -- 16 Q I think that's Figure 7B and 7C 17 that you might be thinking of? 18 A Yeah, 7 -- 7B and 7C, yeah. 19 Yeah, that is what I was thinking of. 20 Q So in Figure 17 -- if, for 21 example, the icons of 1700 disappeared as 22 well, then a user wouldn't be able to
Page 35	Page 37
1 first menu list disappears, it's referring 2 to the words meaning that the icons on the 3 left of 1700 are still visible, correct? 4 A You know, I think the text is 5 ambiguous and may be inconsistent with the 6 figure, because what the figure shows is 7 the initial menu 1700 -- or the initial 8 menu, which had icons and text being 9 reduced to just the icons when the menu 10 1710 comes out. 11 And it's, I guess, as I said, 12 ambiguous or maybe odd because Figure 12 13 says the second menu list 1710 may be 14 displayed together with the first menu list 15 1700. And it never says that the menu list 16 1700 has been reduced from a form with text 17 to only the icon. 18 So yeah, I find that text 19 ambiguous, which suggests maybe this also 20 could contemplate something that isn't 21 shown in the figure, which is that the 22 first menu list could completely disappear.	1 select those icons to open respective 2 submenus, correct? 3 A Not through that means. Not 4 without some other design feature that 5 would allow them to do so. 6 Q Okay. And at paragraph -- well, 7 that description of Figure 17 doesn't 8 describe other design means that would 9 allow a user to do that, does it? 10 A No. 11 Q So if -- I guess Figure 17 12 depicts an example that could at least be 13 consistent with the operations detailed in 14 Figure 16's flow chart, correct? 15 A I think that what's possible, 16 what happens is reasonable. 17 One interpretation is that 18 what's happening in Figure 17 could be done 19 as described in the Figure 16 flow chart. 20 Q And the menu 1700 and the 21 submenu 1710 are the same as -- other than 22 the numbers -- are the same as the menu 720

Page 38	Page 40
1 and the submenu 730 shown in Figure 7C, 2 correct? 3 A Let me just look back to verify. 4 Q Sure. 5 A Yes. 6 Q So referring back to paragraphs 7 111 and 112 for a moment. 8 A Uh-huh. 9 Q Specifically, paragraph 112, 10 setting aside sort of whether the first 11 menu 1700 completely disappears, this does 12 say that the first menu 1700 is displayed 13 when a drag distance of the touch operation 14 reaches the distance D1, correct? 15 A Yeah. I had to sort of think 16 that all through. It says when a drag 17 distance of the touch operation reaches the 18 distance D1, the first menu list 1700 is 19 displayed. 20 Q Okay. And it's reasonable to 21 conclude, consistent with Figure 16, that 22 the first menu list 1700 is not displayed	1 the distance D1. 2 So I think either one of those 3 could be consistent with that sentence. 4 So in the one case, you could 5 read the first menu list as displayed 6 meaning the displaying is completed by 7 then, and in another case you could say 8 that that means the display happens only 9 then. And I think either one of those 10 would be consistent with that sentence. 11 Q How about the last sentence of 12 that paragraph, if the drag distance of the 13 touch operation reaches the distance D2, 14 the first menu 1700 disappears and the 15 second menu list may be displayed. 16 Does that mean that the second 17 menu list is not displayed until, if and 18 until the drag distance reaches distance 19 D2? 20 A Well, I think you do have to 21 also read this with what we see in Figure 22 17, and it does show that the second menu
Page 39	Page 41
1 until the drag distance of the touch 2 operation reaches the distance D1, correct? 3 A Well, in Figure 16, there was a 4 check that, as we discussed, there was a 5 check that the distance threshold D1 was 6 reached before the display step in Figure 7 16. 8 Q And that seems to be what 9 paragraph 112 is describing in Pros, 10 correct? 11 A That could be. That could be. 12 Q And, in fact, that sentence 13 would be pretty meaningless if that isn't 14 what's happening there, right? 15 A Well, I think there is another 16 interpretation, which is -- if you read, 17 when a drag instance of the touch operation 18 reaches the distance D1, the first menu 19 list 1700 is displayed. 20 It could also mean that the 21 displaying of the menu list 1700 is 22 completed when the drag distance reaches	1 list 1710 is displayed. 2 And so I think, you know, just 3 to parse the language carefully, the second 4 menu list 1710 may be displayed. I'm going 5 to say that it actually is describing it 6 where it is displayed. 7 And so I think what we can 8 confidently say is that after -- after you 9 have reached, the touch operation has 10 reached the distance D2, at that point, at 11 or after that point the second menu list 12 will be displayed. 13 Q And it will not be displayed 14 until the drag distance of the touch 15 operation reaches the distance D2? 16 A Not necessarily, because I think 17 the same consideration that I said with 18 respect to D1 in the first menu list 1700 19 also applies here. 20 When it says the second menu 21 list may be displayed, does that mean the 22 display starts then or it is completed by

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1 then? And I think either one could be 2 consistent with that language. 3 Q Even though that language says 4 if a touch operation dragged by the 5 distance D1 reaches a distance D2 -- sorry. 6 Last sentence of paragraph 112, 7 if the drag distance of the touch operation 8 reaches the distance D2. Isn't that an "if 9 then" statement? 10 A Let me just read it carefully. 11 I do think that the word "if" 12 does make that more plausible, that is with 13 the word "if", it's more plausible that if 14 the -- if you have -- if you haven't 15 reached the distance D2, that the second 16 menu list would not be displayed. 17 Q So then looking at paragraph 18 111, it says: For example, if a drag 19 distance of the detected touch and drag 20 operation reaches a distance D1, the 21 controller 50 controls to display a first 22 menu list 1700 in the display.	1 are subtleties here that arise. 2 Q So subtleties and what a POSITA 3 might have known was possible, but let's go 4 to paragraph 116 -- right now I'm concerned 5 with what Ahn actually says and what Ahn is 6 describing. 7 So, for example, paragraph 116: 8 If the user drags the touchscreen 10 by a 9 distance longer than or equal to the 10 distance D1 and shorter than the distance 11 D2, the first menu list 17 is displayed. 12 So what that seems to suggest is 13 if the drag exceeds distance D1, then the 14 menu is displayed, correct? 15 A Yes, yes. I think if the 16 distance exceeds -- if the distance of the 17 touch, the drag, exceeds D1 and is shorter 18 than D2, then I would agree then in that 19 situation, at that point the first menu 20 list will be displayed. 21 Q So I'm going to ask you to look 22 at Figure 3B for a moment.
Page 43	Page 45
1 Following the same logic then, 2 that would suggest that the first menu 1700 3 is not displayed unless the drag distance 4 of the detected touch and drag operation 5 reaches a distance D1, correct? 6 A Well, I still -- I do want to 7 think about how a person of ordinary skill 8 in the art would understand that, given 9 their knowledge. 10 And it was common at the time to 11 have gestures that started and you would 12 get feedback with those gestures, even if 13 they were never completed. 14 And so it could be that you were 15 fading in a menu list, and then if you 16 never reached the -- you never reached 17 distance D1 and you lost contact with the 18 screen, it would just disappear. 19 So again, as we parse these 20 carefully and think about what a person of 21 ordinary skill in the art would understand 22 from them, I do think there are -- there	1 A Yes. Let me get there. Okay. 2 Q Figure 3B depicts the movement 3 of icon 310, correct? 4 A Yes. 5 Q And would you refer to Figure 6 4A, please? 7 A Yes. 8 Q Figure 4A depicts the movement 9 of icon 410, correct? 10 A Yes. 11 Q And I'll ask you to refer to 12 Figure 6A, please. 13 A Yes, I'm there. 14 Q Figure 6A depicts the movement 15 of icon 610, correct? 16 A Yes. 17 Q And I'll ask you to refer to 18 Figure 7A, please. 19 A Okay. 20 Q Figure 7A depicts the movement 21 of icon 710, correct? 22 A Yes.

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1 Q And I'll ask you to refer to 2 Figure 13, please. 3 A Okay. 4 Q It's a little faint in the 5 Patent Office's PDF, but Figure 13A depicts 6 the movement of the finger, correct? 7 A Figure 13A is showing -- is 8 depicting a finger movement, yes. 9 Q And Figure 14A is also depicting 10 the movement of a finger, correct? 11 A Yes, yes. 12 Q And Figure 15A is also depicting 13 the movement of a finger, correct? 14 A Figure 15A, yes. 15 Q And Figure 17 is also depicting 16 the movement of a finger, correct? 17 A Well, Figure 17 is depicting the 18 movement of a finger and also showing 19 what's happening in the interface as well. 20 Q The Figure 17A, while showing 21 the finger in multiple positions along that 22 path of movement, only shows the menu in a	1 only showing the interface at a single 2 state. 3 Q And referring back to Figure 17, 4 window 1710 is a submenu with options 5 related to the settings icon in menu 1700, 6 correct? 7 A Yes. 8 Q And the options listed in that 9 submenu 1710 relates specifically to the 10 settings icon in 1700, correct? 11 A Yes. 12 Q And so if you were to select 13 instead the mail icon, you would expect the 14 submenu window 1710 to include different 15 options corresponding to mail, correct? 16 A Correct. 17 Q So referring back to Figure 18, 18 Ahn describes that the shadow 1800 is for 19 "notifying a start position of the touch 20 and drag operation." Correct? 21 A Let me just -- that sounds 22 exactly right, but I just wanted to look at
Page 47	Page 49
1 steady state, correct? 2 A Well, the way I would understand 3 that is it is illustrating different phases 4 of finger motion and then only showing, I 5 guess, the interface state at an endpoint. 6 Q Okay. And Figure 18A shows the 7 movement of a finger, correct? 8 A It shows the movement of a 9 finger as well as an object associated with 10 the finger motion. 11 Q But it only shows that object in 12 one position, correct? 13 A Yes, the object is -- it's only 14 a snapshot of the object, yes. 15 Q And Figure 18A shows the 16 movement of a finger, correct -- sorry, 17 18B. 18 A Yes. 19 Q But it only shows the user 20 interface in a single state, correct? 21 A Yes, it's depicting -- it's 22 giving some depiction of finger motion, but	1 that. 2 Q I refer you to paragraph 118, if 3 that's helpful. 4 A Oh, thank you. 5 Right, it says at the beginning 6 of paragraph 18 that Figure 18 illustrates 7 an example of a screen for displaying a 8 graphical display for notifying a start 9 position of a touch and drag operation to a 10 user. 11 Q So paragraph 119 explains an 12 example where a user can press the graphic 13 1800 with a finger. 14 A Uh-huh. 15 Q Such that the graphic 1800 16 gradually displays -- or gradually 17 disappears in the display? 18 A Yes. 19 Q That seems to be describing that 20 in response to a user pressing the graphic 21 1800, the graphic 1800 will disappear, 22 correct?

Page 50 1 A Well, just to -- just to read I 2 guess the whole sentence, in this example, 3 in this case, as the user may press the 4 graphic 1800 with a finger, the graphic 5 1800 gradually disappears in the display 6 and the menu list 1500 can be displayed as 7 emerging from the left side of the display 8 while the graphic 1800 disappears in the 9 display. 10 Q And so let's refer to Figure 11 15B, if you would, please. 12 A Okay. 13 Q Figure 15B depicts the menu list 14 1500 emerging from the left side of the 15 screen, correct? 16 A Yes. 17 Q I'm going to put another exhibit 18 in the chat. If you would please let me 19 know when it is available. 20 (Apple-1005 referenced) 21 A Okay. I've downloaded it and 22 opened it.	Page 52 1 displayed after you've unlocked it -- yeah, 2 it describes Figure 5D as a menu, which 3 includes user interface objects 4 corresponding to various applications or 5 operations. 6 Q And the unlock action shown from 7 Figures 5A to 5C, in particular, is 8 unlocking performed via a gesture from a 9 user, correct? 10 A Yes. 11 Q And specifically that gesture 12 involves sliding the unlock image 402 13 through the channel 404, correct? 14 A I think that's exactly what it 15 says, yes. The unlock image 402 is dragged 16 along the channel 404. 17 Q And so Figure 5A shows the 18 unlock image 402 as a starting point on the 19 left-hand side of the channel 404? 20 A Yeah. 21 Q And that indicates 0% progress 22 of the unlock gesture, correct?
Page 51 1 Q Do you recognize this as the 2 Chaudhri reference, Exhibit 1005? 3 A Yes. 4 Q If you would please refer to 5 Figures 5A to 5D. 6 A Okay. 5A to 5D, you said? 7 Q Yes. 8 A Okay. 9 Q These depict a process of 10 unlocking a device lock screen, correct? 11 A That's my recollection. I could 12 review the section of Chaudhri to just 13 verify that, if you'd like. 14 Q Sure. Paragraph 74 of Chaudhri, 15 I think might be an easy reference. 16 A Okay. I mean as you start in 17 paragraph 74 and continue through 76, it's 18 describing Figures 5A through 5D and in 19 some detail it describes the process of 20 unlocking depicted in Figure 5A through 5C, 21 and then notes that in 5D, this is -- what 22 is it calling -- it's the screen that's	Page 53 1 A Yeah. I think at this point, I 2 think technically they're saying the user 3 has started or has put their finger in 4 contact with the screen, but it appears 5 that they have not yet started to move it 6 in any noticeable way. 7 Q And Figure 5C shows the unlock 8 image at the right end -- the right or the 9 end of the channel 404, correct? 10 A That's correct. 11 Q And so the unlock gesture in 12 Figure 5C is at sort of 100% completion, 13 correct? 14 A That's my understanding. 15 Q All right. So then Figure 5B, 16 as in boy, shows that unlock image 402 at 17 an intermediate point along the channel 18 404, correct? 19 A Yes. 20 Q And approximately what 21 percentage of completion does Figure 5B, as 22 in boy, depict for the unlock gesture?

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1 A I mean, I would just guess by 2 looking at the image -- I don't know, 60%, 3 two-thirds, somewhere in there. 4 Q And what do you base that on, 5 sir? 6 A Well, first of all, when I look 7 at the paragraphs we've been referring to, 8 74, 75 and 76, I don't think Chaudhri ever 9 talks in terms of percentages complete. 10 So all I'm doing is looking at 11 where the arrow indicator 402 is in the 12 channel 404 and just giving a rough guess 13 as to how far along that channel 404 -- or 14 at what point along the distance of that 15 channel 404 the unlock image 402 is. 16 Q So to summarize, because the 17 unlock image 402 is -- has moved about 18 two-thirds of the length of the channel, 19 you would infer that the unlock gesture is 20 about two-thirds complete, is that fair? 21 A I might put it a little 22 differently because, you know, a classic	1 So it feels a little different 2 here, what they're depicting. 3 Q I think I understand what you're 4 saying. Let me see if I can -- let me see 5 if I can repeat it. 6 It sounds like you're saying if 7 they have to, the point of Figure 5B, as in 8 boy, as they stop, then it's not going to 9 unlock because the unlock gesture hasn't 10 been completed? 11 A And then there is no more 12 progress if they would stop. 13 Q Okay. 14 A Yeah. I think that's really all 15 I was trying to say, yeah. 16 Q Okay. So maybe a way of 17 describing it that you'd be more 18 comfortable with as far as gesture progress 19 is because there is still about one-third 20 of the length of the channel 404 that 21 haven't been traversed, that Figure 5B, as 22 in boy, indicates that there is
Page 55	Page 57
1 use of a progress indicator in a user 2 interface is to show like completion of an 3 action, like a download that's happening. 4 And what it's trying to show is 5 are you 10% done, 20% done, 50% done, and 6 that's an ongoing process where you sort of 7 know how long it's going to take. 8 And here, in this case, the user 9 is moving their -- moving this icon across 10 the channel, and I guess you would say they 11 have moved it two-thirds of the way across. 12 But they could stop at any time and then 13 they would be nowhere. They would have to 14 start over. But at any given point, they 15 have moved the indicator let's say 16 two-thirds of the way in a particular 17 example. And then if they continue to move 18 it one-third of the way, they would be 19 finished. But they could stop and just 20 hold it and then, you know, then their 21 progress would completely stop at that 22 point.	1 approximately one-third of the unlock 2 gesture remaining before it is unlocked? 3 A I mean that's close. I guess 4 maybe I would say that the user would -- if 5 they want to unlock it, they have to move, 6 continue or re-start moving the unlock 7 indicator and they have to move it the rest 8 of the way. If it's one-third, then yes, 9 they would have to move it the last 10 one-third. 11 Q Okay. And so Figure 5C shows 12 the unlock image 402 at the completion of 13 the unlock action gesture, correct? 14 A Well, it is at the -- I think 15 what it says specifically in paragraph 76, 16 in Figure 5C, the user has dragged the 17 unlock image 402 to the right end of the 18 channel 404. 19 And then the next sentence says 20 once the user releases the unlock image 402 21 at the right end of the channel 404, the 22 unlock action is complete.

Page 58 1 So maybe to just -- I think to 2 answer your question, in Figure 5C, the 3 user has moved the unlock icon, I guess as 4 far as it will go to the end of the 5 channel. 6 And then if they want to 7 actually do the unlocking, they have to 8 remove their finger and release the unlock 9 image in order for the unlock action to be 10 completed. 11 Q So if the user gets to the point 12 of Figure 5C and moves the unlock image 402 13 back to the left before releasing their 14 finger, it won't unlock? 15 A Presumably not. 16 Q Okay. So then the completion of 17 the unlock image gesture would be while the 18 unlock image 402 is at the right end of the 19 channel 404, the user then lifts their 20 finger to complete the unlock action 21 gesture? 22 A Yeah, I -- I think the way I	Page 60 1 been completed? 2 A Can you ask that again? I just 3 want to make sure I heard you correctly. 4 Q Sure. 5 So the transition from the lock 6 screen at Figure 5C to the display shown in 7 Figure 5D only happens after the unlock 8 gesture has been completed? 9 A That's correct. The unlock 10 gesture has to be completed, which leads to 11 the unlock function being executed, and 12 then that would lead to -- at least it 13 would lead to screen 5B, as least as one 14 example of what you would see. 15 Q Okay. And Figure 5D, D as in 16 dog, the menu 506 includes, looks like 12 17 app icons, correct? 18 A Yes. 19 Q And the touchscreen 408 is then 20 a rectangle larger than the menu 506, 21 correct? 22 A Yes, in this example.
Page 59 1 might put it very precisely is to do the 2 unlock function, you have to move the 3 unlock icon all the way over to the 4 right -- right edge of the channel, and 5 then release your finger or lift your 6 finger off while it's at the right end of 7 the channel, and then unlocking happens. 8 Q So only after the user moves the 9 unlock image 402 to the right end of the 10 channel and lifts their finger while that 11 unlock image is at the right end of the 12 channel, only after that will the screen be 13 unlocked and the device will transition to 14 what's shown in Figure 5D, correct? 15 A That's my understanding of the 16 examples shown in these Figures 5A through 17 5D. 18 Q Okay. And so -- not to be 19 pedantic, I just want to make sure I'm 20 getting this right -- the transition from 21 the lock screen to the display of Figure 5D 22 only happens after the unlock gesture has	Page 61 1 Q So in this example, the menu 506 2 does not extend all the way to the edges of 3 the touchscreen 408, correct? 4 A The menu 506 does not extend to 5 the edges of touchscreen 408 in this 6 example. 7 Q So referring to the description 8 in Chaudhri, there are three sections, the 9 first of which you can see a heading for 10 just above paragraph 48 where it says user 11 interface state. 12 A Paragraph 48? 13 Q Yes, of Chaudhri. 14 A Okay, I'm -- oh, yes, I see 15 that. 16 Q Okay. So then the user 17 interface states section extends from 18 paragraph 48 to paragraph 51, correct? 19 A Yes. 20 Q And then there's another heading 21 between paragraph 51 and 52 called 22 unlocking a device via gestures, correct?

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1 A Yes. 2 Q And then if you go down to the 3 very last sentence of paragraph 79, it 4 says: Indication of progress towards 5 satisfaction of a user input condition. 6 It's all capitalized. 7 A Yes. 8 Q So it appears to be a formatting 9 error here because in the filed version of 10 this application, that's actually a heading 11 as indicated by the fact that all the words 12 are capitalized. 13 So the unlocking a device via 14 gestures section extends from paragraphs 52 15 to 79. 16 A With the assumption of -- with 17 the assumption that there was the 18 formatting error you just described. 19 Q Okay. And with that same 20 assumption then, the indication of progress 21 towards satisfaction of a user input 22 condition section extends from paragraph 80	1 A Okay, I've got it. 2 Q Do you recognize that as Apple 3 Exhibit 1013 or the Shiplacoff reference? 4 A Yes. 5 Q So I'll refer you to 6 Shiplacoff's paragraph, I think it's 64. 7 A Let me navigate there. Okay, 8 I'm there. 9 Q So referring to Figure 1, that 10 section describes that device 100 includes 11 both a touchscreen 101, a gesture area 102 12 that is sensitive to user motion in 13 proximity to the surface, and a physical 14 button 103, correct? 15 A Yes. 16 Q And gesture area 102 is separate 17 from the touch sensitive screen 101, 18 correct? 19 A Yes, these are two different 20 touch sensitive areas of the whole device. 21 Q Okay. And paragraph 73 of 22 Shiplacoff describes that user input can
Page 63	Page 65
1 down to paragraph 98? 2 A Yes. 3 Q Okay. So Figure 6 -- sorry, I 4 think I got my numbers mixed up. Give me 5 just a second. 6 MR. ROBINSON: You know what, I 7 actually circled back on myself. 8 We've been going about close to 9 another hour and I'm kind of at a 10 decent pause point. So if you'd be 11 all right with it, let's take another 12 break? 13 THE WITNESS: Sure. 14 MR. ROBINSON: Okay. Let's come 15 back at 10 after the hour. Thanks. 16 (Recess taken 10:59 a.m.) 17 (Resumed 11:11 a.m.) 18 BY MR. ROBINSON: 19 Q I'm going to put another exhibit 20 in the chat. If you would just let me know 21 when you are able to open it. 22 (Apple-1013 referenced)	1 cause the device to switch between 2 different modes, correct, specifically 3 different display modes? 4 A That's correct. 5 Q And Shiplacoff describes four 6 different display modes, full screen, card, 7 shuffle and grid, correct? 8 A Yes. You're referring to, I 9 guess starting in paragraph 68 and other 10 places as well where Shiplacoff says in 11 various embodiments display modes can 12 include any of the following, and then it 13 was the full screen card, card motion, 14 shuffle code and grid mode are the ones 15 that are listed in those embodiments. 16 Q And it maybe helps to refer back 17 to your declaration for this, specifically 18 paragraph 58 of your declaration. 19 A Okay. I see that. 20 Q So you include an example of 21 each of these four modes. So Figure 2 22 shows full-screen mode, correct?

Page 66 1 A That's correct, yes. 2 Q And -- sorry, I want to make 3 sure that the record is clear. Figure 2 of 4 Shiplacoff depicts full-screen mode, 5 correct? 6 A That's correct. 7 Q And Figure 3 of Shiplacoff 8 depicts card mode, correct? 9 A That's correct. 10 Q And Figure 10B of Shiplacoff 11 depicts shuffle mode? 12 A Yes. 13 Q And Figure 10G of Shiplacoff 14 depicts grid mode, correct? 15 A That's correct. 16 Q So we can refer back to 17 Shiplacoff, I think. 18 A Okay, okay. 19 Q So Figure 2 shows full-screen 20 mode. And in that, the user interface of 21 the application occupies substantially the 22 entire display, correct?	Page 68 1 you'd expect a user to be able to scroll up 2 and down to see older or newer messages, 3 correct? 4 A Yes. 5 Q And you would expect a user to 6 scroll up and down by gesturing with a 7 finger in contact with the touchscreen, 8 correct? 9 A I would expect that you could 10 scroll up and down through the messages 11 with -- through gestures on the 12 touchscreen, in particular on the -- well, 13 I guess the area of the touchscreen on the 14 area of the device where the touchscreen is 15 being -- the touch sensitive area -- I 16 forget the exact name -- the touch 17 sensitive area of the screen 101. 18 And I just wanted to emphasize 19 that because if you add gestures on other 20 parts of the screen, like what was the 21 touch gesture area, up and down gestures, 22 there one wouldn't necessarily or even
Page 67 1 A That's correct. 2 Q And paragraph 74 of Shiplacoff 3 explains that full-screen mode is optimized 4 for maximum use of screen space for 5 interacting with a single activity, 6 correct? 7 A That's correct. 8 Q Okay. And in Figure 2, that 9 single activity is the -- looks like a 10 calendar application, correct? 11 A Yes. 12 Q Figure 5 also displays an 13 example of full-screen mode, correct? 14 A Yes. 15 Q But in this instance, the 16 full-screen mode is using the email 17 application instead of the calendar 18 application, correct? 19 A Yes. The application shown in 20 Figure 5 in full-screen mode is the mail 21 application. 22 Q And in this email application,	Page 69 1 probably expect that to be a way to scroll 2 through the messages. 3 Q And I asked you, but that's 4 consistent with a POSITA's understanding of 5 Shiplacoff as well, right? 6 A Yes, that's how I should have 7 said that, yes. 8 Q I didn't ask it very well, so 9 thanks for bearing with me. 10 So referring to Figure 3 of 11 Shiplacoff, this is an example of card 12 mode, correct? 13 A Yes. 14 Q And that's different than 15 full-screen mode in that there's actually 16 three cards that are shown to which are 17 partially on the sides, correct? 18 A That's correct. In card mode, 19 this is a depiction of the active 20 activities or active applications. Yeah, 21 it's showing multiple of the active 22 applications, not just a single one.

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1 Q Okay. And in this example of 2 Figure 3, the card 301B is the one that's 3 in focus in that it's fully visible on the 4 screen, correct? 5 A Card 301B, in this example, is 6 fully visible and is in focus. 7 Q So card 301B is also shown 8 slightly larger than cards 301A and 301C, 9 correct? 10 A Yes. 11 Q 301A and 301C are not blurred in 12 this, are they? 13 A The text or the images in this 14 case are not shown -- are not explicitly 15 shown as blurred. 16 Q And Shiplacoff explains in 17 paragraph 74 that card mode is optimized 18 for easily switching focus from one 19 activity to another and for easily 20 initiating and terminating activities. 21 Do you see that? 22 A Yes.	1 A Let me just review what 2 Shiplacoff says about that. If you can 3 quickly point me to the right paragraphs. 4 Q Paragraph 97, I think is 5 probably the easiest reference. 6 A Great. Okay, so what Figure 7 6 -- yeah, 6A through 6E show is a sequence 8 where the user, the state of the device 9 was -- the calendar application was in 10 full-screen mode. The user went to card 11 mode. And then in card mode, the user -- I 12 just want to see exactly what it said -- 13 dragged card 103 and 1B in a rightward 14 direction and kept doing that until card 15 301A was centrally located in the display 16 screen of the card mode as shown in Figure 17 6E. 18 Q So in Figure 6C, as in cat, and 19 6D, as in dog, both of the cards are 20 partially centrally located, correct? 21 A Well, I guess that's one way to 22 put it. Or another way might be that
Page 71	Page 73
1 Q And because full-screen mode and 2 card mode are each optimized for different 3 things, some activities will be 4 available -- some activities might be 5 available in full-screen mode that are not 6 necessarily available in card mode, 7 correct? 8 A Sure, that's possible. 9 Q Let's refer to Figure 6B of 10 Shiplacoff for a moment. 11 A Okay. 12 Q Figure 6 -- the progression from 13 Figure 6B to Figure 6A depict a user 14 dragging the calendar card to the right to 15 bring the telephone card into focus, 16 correct? 17 A Could you repeat that, please? 18 Q Sure. 19 6A through 6E depict a user 20 dragging the screen to move the calendar 21 card to the right and bring the telephone 22 card into focus, correct?	1 neither card 301A or 301B is in the center 2 while the user is in the process of 3 dragging a card to the right, at least in 4 the two snapshots shown here. 5 You could say -- I guess I would 6 tend to say neither card is in the center 7 while this -- while this operation is 8 happening. 9 Q And in Figures 6C, as in cat, 10 and D as in dog, cards 301A and 301B are 11 the same size, correct? 12 A It would appear that during this 13 dragging gesture that Shiplacoff describes 14 in paragraphs 97, that at least during this 15 state of the gesture, cards 301A and 301B 16 are at least in the vertical direction seem 17 to be the same size. 18 Q And so neither of those cards is 19 in focus in the way that Shiplacoff uses 20 that term? 21 A During this dragging gesture, it 22 would appear that neither of those cards is

Page 74 1 in focus the way Shiplacoff used that term. 2 Q And same two figures, 6C as in 3 cat, D as in dog, neither of cards 301A or 4 301B is blurred, correct? 5 A At this point neither of them 6 appears blurred. 7 Q Okay. In the sort of 8 intermediate states of Figures 6C as in cat 9 and D as in dog, a POSITA would not expect 10 a user to be able to interact with the 11 functions of the individual card, correct? 12 A Not while you're in this mode 13 and you're dragging the -- you're dragging 14 a card, no. 15 Q And so if a -- if a user drags a 16 card, drags the telephone card to sort of 17 near the central position, then Shiplacoff 18 will automatically snap it the rest of the 19 way into that central position, correct? 20 I'm going to refer to you 21 paragraph 86, if that's helpful. 22 A Yeah, let me take a quick look	Page 76 1 A Yes. 2 Q And then on the left screen 101, 3 card 301B is in the central position, 4 correct? 5 A Yes, that's what it's showing. 6 Q And in the right-hand screen 7 101, card 301E is in the central position, 8 correct? 9 A Yes. 10 Q And in Figures 8A and 8B, this 11 is showing in card mode how a card 301B can 12 be dragged upward off the screen to dismiss 13 card 301B, correct? 14 I can refer you to paragraph 15 100, if that's helpful. 16 A Yeah, yeah, that's a good idea. 17 Yes, and then what was your 18 question again? 19 Q Sure. Figures 8A and 8B are 20 showing an example of card mode in which a 21 user drags card 301B upwards off of the 22 screen to dismiss that card 301B?
Page 75 1 at that. 2 Well, I think I should answer 3 the question yes, because Shiplacoff says 4 in paragraph 86: In one embodiment, if the 5 user drags cards 301 so as to place a card 6 301 sufficiently close to the central 7 position to make it clear that the 8 intention is to give the card 301 focus, 9 the card 301 snaps into the central 10 position upon completion of the drag 11 operation. 12 So yeah, I think -- so what that 13 whole sentence says, if you move a 14 particular card close enough, sufficiently 15 close to the central position and then 16 complete the drag operation, that is I 17 guess remove your finger from the screen, 18 then it will snap into place. 19 Q So referring to Figure 7, this 20 shows -- sorry, Figure 7 of Shiplacoff 21 shows the cards relative to the screen 101 22 in card mode, correct?	Page 77 1 A Yes. I mean paragraph 100 says 2 that a card 301 can be closed by dragging 3 the card upward off screen or performing a 4 flicking action in an upward action. 5 And so then it says that in 8A 6 and 8B, it's showing an example of a 7 sequence where the user does drag card 301B 8 upward off the screen causing it to be 9 dismissed. 10 Q Okay. And once card 301B is 11 dismissed, cards 301C and 301D move to the 12 left as in Figure 8B, correct? 13 A That's correct. 14 Q Referring now to Figures 9A 15 through 9D, and paragraph 104, this is 16 showing or depicting how a user can 17 rearrange cards while in card mode by this 18 dragging card 301B partially upwards, 19 allowing cards 301C and D, as in dog, to 20 move to the left, and then dragging card 21 301B back down in between cards 301C and 22 301D, as in dog. Correct?

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1 A That's correct. 2 Q So Figure 9A starts the same as 3 Figure 8A, correct? 4 A Yes. 5 Q And so while in card mode, the 6 process of dismissing a card and 7 rearranging a card differs in the distance 8 by which a card is dragged upwards, 9 correct? 10 A Could you ask that question 11 again? 12 Q Sure. 13 So one of the differences 14 between dismissing a card in card mode and 15 rearranging a card in card mode is the 16 distance by which a card is dragged 17 upwards, correct? 18 A Yes, I think so. The way 19 Shiplacoff describes it and the way it 20 illustrates it in it dismisses a card by 21 dragging it upwards. So I guess it's all 22 the way off the screen. And for moving the	1 when it moves upward, but holds it to be 2 dragged to a new position? 3 A Yes, the user would hold on to 4 the card -- would not release their gesture 5 if their intention was to -- was to 6 rearrange the position. They would hold on 7 to it. They would not release their 8 finger, remove their finger and end the 9 gesture until the cards had snapped into 10 place and they positioned the card where 11 they wanted. 12 Q Okay. 13 A Yeah. 14 Q So in Figures 9B and -- sorry, 15 9B, as in boy, and 9C, as in cat, the user 16 is holding card 301B in that upward 17 position while cards 301C and 301D move to 18 the left? 19 A Yes. The user would not have 20 released -- would not have removed their 21 finger from the screen and therefore would 22 not have released card 301B until, in this
Page 79	Page 81
1 card, you move it upwards, but not all the 2 way off -- not all the way off the screen, 3 I guess. And so in that respect, one would 4 think that one difference between those two 5 gestures would be the -- how far up you 6 move the card. 7 Q And the other difference between 8 dismissing a card and rearranging a card 9 while in card mode is that to rearrange a 10 card, a user doesn't immediately release 11 the card, but instead holds it in that sort 12 of upward position while the other cards 13 rearrange so that that card that the user 14 is moving can then be placed in a new 15 position or dragged to a new position, 16 correct? 17 A Well, I'm sorry, what exactly 18 was your question? 19 Q So another difference between 20 dismissing a card and rearranging a card 21 when in card mode is that when rearranging 22 a card, the user doesn't release the card	1 example, cards 301C and 301D had moved -- 2 had moved to the left into the position 3 shown in Figure 9C. 4 Q Okay. And this may seem a 5 little basic, but I just want to make sure 6 I'm understanding it. 7 If in Figures 9B and 9C card 8 301B is not moving, then the user's finger 9 wouldn't be moving either, right, because 10 the user is holding onto that card? 11 A Yeah, 301B would not be 12 moving -- it moves with the user's finger, 13 and so if the user's finger is not moving 14 on the screen in this example, then card 15 301B would not be moving either. 16 Q And the other way, too, meaning 17 if card 301B is not moving, then the user's 18 finger isn't moving either? 19 A In this gesture, as described 20 and certainly as one of ordinary skill in 21 the art would understand it, it's described 22 as a gesture of dragging the card.

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1 And, by definition, what that 2 means is the -- in this case, what that 3 means is that the finger and the card move 4 in tandem, that the card moves as the 5 finger moves. And the card isn't moving 6 without the finger moving, and the finger 7 isn't moving without the card moving, in 8 this example. 9 Q Gotcha. 10 So from Figure 9A to 9B, the 11 user's finger and the card both move 12 upward, and then from Figure 9B to 9C, the 13 user's finger and the card both move 14 downward, and then the user releases their 15 finger to rearrange that card 301B? 16 A I think -- yeah, you're 17 describing a number of steps. The user 18 moves the card up, 301B. Then cards 301C 19 and D move over. And then the user has 20 been holding their finger on the screen and 21 then they drag the -- they move their 22 finger and drag the card 301B to the new	1 dog, of Chaudhri, correct? 2 A Do you want to quantify, like 3 similar in what way? 4 Q Well, Chaudhri's menu 506 5 depicts a rectangle with a plurality of 6 icons, each of which represents an 7 application that a user can open, correct? 8 A That's correct. 9 Q And Shiplacoff's launcher screen 10 of Figure 1 depicts a plurality of icons 11 104, each of which corresponds to an 12 application that a user can open, correct? 13 A Yes. 14 Q So in that way, Shiplacoff's 15 launcher screen is similar to Chaudhri's 16 menu 506, correct? 17 A In at least that respect, yes. 18 Q Okay. But both of those menus 19 are formatted differently than Ahn's, for 20 example, right and left menus, correct? 21 A Yes. These are different user 22 interface organizations.
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1 position and then release their finger so 2 that the card 301B moves into place. 3 Q Gotcha. 4 Would you please refer to Figure 5 1 of Shiplacoff? 6 A Okay. 7 Q This depicts a launcher screen, 8 correct? 9 A Yes. 10 Q And the launcher screen includes 11 several icons 104, correct? 12 A That's correct. 13 Q And the icons 104 represent 14 applications that can be opened by a user, 15 correct? 16 A That's correct. 17 Q So in terms of accessing 18 functionality, the depiction of individual 19 icons on a launcher screen is -- sorry, the 20 depictions of icons on a launcher screen in 21 Shiplacoff's Figure 1 is similar to 22 Chaudhri's menu 506 in Figure 5D, as in	1 Q So alternative menu formats? 2 A Alternative ways for accessing 3 functionality in a user interface or -- I 4 guess I should say different ways for 5 accessing functionality in a user 6 interface, not alternatives in the sense 7 that you have to pick one or the other, but 8 there are different ways of accessing 9 functionality. 10 Q So, for example, if the launcher 11 screen or home menu includes the icons for 12 the different functionalities as in 13 Shiplacoff and in Chaudhri's Figure 5D, 14 then there's no reason to put that same 15 functionality in a pop-up menu as well, is 16 there? 17 A Well, it seems it's -- there can 18 be reasons for doing that to give users 19 options for -- I mean sort of a more 20 complicated answer, that there could be 21 good design reasons for letting a user to 22 have multiple ways to access functionality.

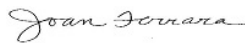
Page 86 1 So that's one thing. 2 And then the other thing is you 3 may, in other cases, want to have some 4 functionality accessible from let's say a 5 set of icons on a screen so that they're 6 easily visible. In other functionality, 7 you might decide to put in menus that can 8 be brought onto the screen somehow only as 9 needed in order to save screen space. 10 So, you know, these are the kind 11 of design options that a person of ordinary 12 skill in the art would consider. 13 Q Let's go back to Ahn for just a 14 moment. 15 A Okay. 16 Q At figure -- let me find it -- 17 Figure 7B. 18 A Okay. Let me bring that up. 19 Okay, I see it. 20 Q If you put icons on the standby 21 screen for easy service, contacts, 22 messages, organizer, multimedia, utilities,	Page 88 1 Shiplacoff at Figure 1. 2 A Okay. 3 Q If a user selects that lower bar 4 labeled 105, if a user selects the calendar 5 icon, that would launch the full screen 6 calendar card of Figure 2, correct? 7 A Which icon did you say? I 8 wanted to make sure I understood you. 9 Q So if a user selects the 10 calendar icon, looks like the second one 11 from the left from the bottom -- 12 A Yes. 13 Q -- that would open the calendar 14 application, correct? 15 A That would be my understanding, 16 yes. 17 Q Okay. And looking at Figure 2 18 where the calendar application is in 19 full-screen mode -- 20 A Okay. 21 Q -- the launch screen is no 22 longer visible, correct?
Page 87 1 sounds, screen, settings, there wouldn't be 2 any need to also have this pop-up menu on 3 the left, would there? 4 A Perhaps not, but one of the 5 things that's very common with standby 6 screens or launcher screens or home screens 7 is that the users can configure which icons 8 they want to put up there. 9 And so a user might choose to 10 have some icons up there, even if they're 11 also accessible from menus. 12 So that's one possibility where 13 you might have some of those icons on the 14 screen and yet there's still -- those 15 functionalities are still accessible 16 through a menu. 17 Q So an icon for a given 18 application might find its way to being in 19 both places if a user were to configure 20 their own phone in that way? 21 A For example. 22 Q Okay. So referring back to	Page 89 1 A That's correct. 2 Q And Figure 2 includes an area 3 just above touchscreen 101, it includes a 4 battery indicator, a signal strength 5 indicator, a clock, looks like a WiFi 6 indicator, and I think it calls it a title 7 bar the left-hand side. 8 Do you see that? 9 A Yes. 10 Q And that title bar is visible in 11 both the launcher screen of Figure 1 and 12 the full screen calendar mode of Figure 2, 13 correct? 14 A Yes. 15 Q And that is also visible, those 16 elements are also visible above screen 101 17 in the card mode shown in Figure 3, 18 correct? 19 A Yes. 20 Q Okay. Paragraphs 124 to 132 of 21 Shiplacoff, Shiplacoff describes various 22 ways that a user can switch among its

Page 90	Page 92
1 different modes, correct? 2 A 124 to 132, you said? 3 Q Yes. 4 A Well, the header above 124 is 5 switching among modes. So just looking at 6 it, it does start to describe different 7 ways that the user can switch among modes. 8 Q So paragraph 124 in the last 9 sentence says that a transition effect can 10 be performed when switching from one mode 11 to another. 12 Do you see that? 13 A Yes. 14 Q So a transition effect is 15 essentially an animation effect between 16 when it's switching from one mode to 17 another, correct? 18 A Well, certainly an animation is 19 one kind of transition effect, yes. 20 Q But it's essentially an 21 alternative to kind of an abrupt light 22 switch effect from one mode to the next,	1 Q So paragraph 124 also describes 2 a few other options. For example, the user 3 can touch or double tap a card when in 4 shuffle mode to initiate a switch to 5 full-screen mode or to card mode. 6 Do you see that? 7 A Yes, that's another one of the 8 many ways of switching among modes 9 described in these paragraphs. 10 Q So I'm curious in that sense, it 11 gives two different options of inputs and 12 two different options of modes to switch 13 into. Would a POSITA understand that to 14 say that the touch would go to full-screen 15 mode and the double tap would go to card 16 mode? 17 A I'm reading that carefully and 18 thinking about it. 19 I think in this example, that 20 would probably make sense -- yeah, I'm just 21 trying to think about that, though, because 22 it's kind of funny grammar.
Page 91	Page 93
1 right? 2 A I think I would agree with that. 3 I think if you would just have one mode and 4 then switch to another mode all at once, 5 that you would not say that there was a 6 transition effect between the two modes. 7 Q Okay. So at paragraph 124, it 8 also says that a user can switch among 9 modes by pressing physical button 103, 10 correct? 11 A Yes, that's -- paragraph 124 12 says that in one embodiment, the user can 13 switch by pressing physical button 103. 14 Q Another option at paragraph 130, 15 spanning two pages there, but paragraph 130 16 says that a user can switch among modes by 17 initiating a mode change command, for 18 example, by touching I guess a virtual 19 button on screen 101. 20 There's another example, 21 correct? 22 A Yeah, that's another example.	1 Yeah, I think certainly one 2 reading of that is -- it says in shuffle 3 mode, in another embodiment, the user can 4 touch or double tap a card 301 in shuffle 5 mode to initiate a switch to full-screen 6 mode or to card mode. 7 And so I think one reading of 8 that is touching a card would go to 9 full-screen mode, double tapping a card 10 would go to card mode. 11 Another reading, which I don't 12 like as much, but it would be more like 13 saying, well, look, you could use touching 14 or double tap, those are two gestures, and 15 you could assign either one of those to 16 full-screen mode, switch to full-screen 17 mode; or alternatively, you could use touch 18 or double tap and assign that to going to 19 card mode. 20 As I said, I don't like that as 21 much, but I suppose that also is a reading. 22 And I say that because, you

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1 know, I'm familiar with these paragraphs 2 and Shiplacoff just describes all sorts of 3 combinations of things and saying you could 4 use this for a gesture for this, or the 5 same gesture for something else, and so it 6 really seems like it's just this big 7 smorgasbord of possibilities that 8 Shiplacoff is putting out there. 9 Q So another example in paragraph 10 124 is that device 100 can switch from 11 shuffle mode to full-screen mode or to card 12 mode after some period of inactivity. 13 Do you see that? 14 A Yes. 15 Q So paragraph 125 then lists 16 another example for switching among card 17 mode, shuffle mode and grid mode by tapping 18 in a designated area of screen 101. 19 Do you see that? 20 A Yes. 21 Q Okay. And then paragraph 126 22 explains that when in card mode, tapping an	1 Q And then paragraphs 127 and 128 2 describe a swipe-up gesture beginning in 3 gesture area 102 and extending on to screen 4 101, correct? 5 A Yes. 6 Q And paragraph 128 describes a 7 swipe-down gesture beginning on screen 101 8 and extending on to gesture area 102, 9 correct? 10 A That is correct. 11 Q Okay. So I'm going to ask you 12 to refer back to your declaration, please. 13 A Okay. 14 Q Specifically at paragraph 76. 15 A Okay. 16 Q You state that the 17 selected/launched activity would have been 18 displayed in a full screen card as taught 19 by Shiplacoff. 20 A Oh, let me read that paragraph. 21 I saw this sentence, but then let me see 22 what I've said around that.
Page 95	Page 97
1 area below the row of cards causes a switch 2 to shuffle mode, whereas when in shuffle 3 mode, tapping any area not occupied by a 4 card causes a switch to card mode? 5 A Yes. 6 Q Okay. So that sentence 7 describes examples in which a user can 8 switch between card mode and shuffle mode 9 by tapping an area that is not occupied by 10 a card, correct? 11 A That's correct. 12 Q And then the next sentence of 13 paragraph 126, it explains that other user 14 input actions can cause a switch between 15 modes as well, and then lists a number of 16 examples, including entering a gesture, 17 typing a key on a keyboard, pressing a 18 button, selecting a menu command or 19 activating an on-screen button or other 20 element. 21 Do you see that? 22 A Yes.	1 Okay, I see that. 2 Q Shiplacoff doesn't appear to 3 describe a full screen card. What did you 4 mean by that phrase? 5 A I meant in -- let me just be 6 clear -- I meant in full-screen mode. 7 I do think Shiplacoff might 8 refer to the application displayed in 9 full-screen mode still as a card, I think. 10 Without -- I'm relying on my 11 memory here, but yeah, I meant the 12 selected/launched activity would have been 13 displayed in what Shiplacoff calls 14 full-screen mode. 15 Q Okay. So maybe could you refer 16 back to Shiplacoff for just a moment, 17 specifically Figures 2 and 3. 18 A Sure. Yep, I see them. 19 Q So I think what you just 20 described was sort of Figure 3 shows the 21 calendar application in card 301B and 22 Figure 2 shows that application in

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1 full-screen mode? 2 A Figure 2 shows the calendar 3 application in full-screen mode, yes. 4 Q Okay. So is Figure 3 showing 5 kind of what you meant by a full screen 6 card, at least with respect to the calendar 7 application? 8 A No, no. I meant -- I meant the 9 equivalent of Figure 2 showing it in 10 full-screen mode. 11 Q Sorry, that's what I meant to 12 say. 13 A Yeah. 14 Q Figure 2 shows the calendar 15 application in a full-screen mode, and 16 that's what you were referring to by full 17 screen card? 18 A That's correct. 19 Q Okay. Thank you. 20 I'm going to ask you to refer to 21 paragraph 380 of your declaration. 22 A Okay, I'm there.	1 touchscreen" in claim 208 is referring back 2 to this "at least part of a gesture on the 3 touchscreen" in claim limitation 2C? 4 A Let me just verify, but I -- 5 yes. 6 Q All right. I'm going to ask you 7 to refer back to the Ahn reference, Exhibit 8 1004. 9 A Okay. 10 Q At paragraph 75. 11 A Okay. 12 Q So this is describing Figure 8A, 13 correct? 14 A Well -- 15 Q Let me ask that a little better. 16 If we look at paragraph 73 to 17 75, it's describing what happens between 18 Figures 8A and 8B, correct? 19 A Yes, in one implementation, yes. 20 Q Okay. So at paragraph 75, it 21 says that if the user selects the leftward 22 direction key 38, the icon 310
Page 99	Page 101
1 Q Okay. So just below paragraph 2 380, there's the language of claim 208. 3 A Okay. 4 Q Do you see the phrase the "at 5 least part of the gesture on the 6 touchscreen"? 7 A Yes. 8 Q Okay. And you see that claim 9 208 depends from claim 2, right? 10 A That's correct. 11 Q Okay. I'm going to ask you to 12 refer back to paragraph 88 of your 13 declaration. 14 A Okay, I see that. 15 Q Do you see just above that the 16 language of claim limitation 2C? 17 A Yes. 18 Q And it says "detect at least 19 part of a gesture on the touchscreen"? 20 A Yes. 21 Q Is it your understanding that 22 the "at least part of the gesture on the	1 corresponding to an icon displayed in the 2 leftward direction key 38 disappears on the 3 standby screen while moving to a left 4 direction after being displayed around the 5 center of the display screen 300 as shown 6 in Figure 8B, correct? 7 A Yes, that's what it says in 8 paragraph 75. 9 Q Okay. And then continuing on to 10 paragraph 76: Thereafter, a basic setting 11 menu list 820 is displayed in a left area 12 of the standby screen 300. 13 Do you see that? 14 A Yes. 15 Q So when a user presses that left 16 direction input key 38, it causes the icon 17 310 to move to the left off the screen and 18 the menu list 820 to be displayed on the 19 left area of the screen, correct? 20 A Yes, in this example. 21 Q Okay. And then as shown or as 22 stated in paragraph 80, if the user presses

Page 102 1 the leftward direction key 38 or 2 termination key, the basic setting menu 3 list 820 disappears and the screen returns 4 to an initial standby screen state shown in 5 Figure 8A. 6 Do you see that? 7 A Yes. 8 Q So starting from the standby 9 screen, pressing the left arrow key causes 10 the menu 830, the menu list 830 to be 11 displayed? 12 A The menu list -- is it the menu 13 list -- 14 Q Sorry, 820. 15 A 820, yes. Yeah, that's -- in 16 this example, you press the leftward 17 direction key and then the basic setting 18 menu list 820 is displayed, and that's 19 described in paragraph 75 and 76 of Ahn. 20 Q And then once that basic setting 21 menu list 820 is displayed, pressing the 22 left arrow key 38 again will cause it to	Page 104 1 submenu 830 and then pressed the left arrow 2 key. So at least in that situation, yes, 3 pressing the leftward arrow again makes the 4 menu 820 disappear. 5 Q Okay. 6 MR. ROBINSON: I think we've 7 been -- it's almost another hour. I 8 think I'm pretty close to wrapping up. 9 Why don't we take like a 10-minute 10 break and come back and we just -- 11 heads up, David, we may be done if you 12 want to think about whether you've got 13 any redirect in the meantime. 14 MR. HOLT: Sounds good. Thanks. 15 MR. ROBINSON: Cool. Thanks. 16 (Recess taken 12:21 p.m.) 17 (Resumed 12:31 p.m.) 18 MR. ROBINSON: I don't have any 19 further questions. 20 MR. HOLT: Yeah, no redirect. 21 THE COURT REPORTER: David, will 22 you need the rough again for this
Page 103 1 disappear? 2 A I just want to read those 3 paragraphs in Ahn carefully. You pointed 4 to 820 and I just want -- or excuse me, 5 paragraph 80, and I'm just going to go back 6 a little bit. 7 Yes, I mean paragraph 80 says 8 when the cursor 850 is moved to the 9 specific menu -- and I think they mean 10 literally one of the options or submenus in 11 the overall menu 830, and then at that 12 point if you pressed the left direction key 13 or a termination key, the settings menu 820 14 disappears and the screen returns to the 15 initial standby state. 16 Q So once the basic setting menu 17 list 820 is displayed, pressing the left 18 arrow key 38 again will cause that list 820 19 to disappear? 20 A At least under some 21 circumstances. Like here it's showing when 22 you, I guess, had selected the settings	Page 105 1 witness? 2 MR. HOLT: No, rough needed. 3 Just, I guess, kind of whatever is the 4 end result. 5 THE COURT REPORTER: Regular 6 delivery okay? 7 MR. HOLT: Yes. 8 THE COURT REPORTER: Thank you. 9 MR. HOLT: Thank you. 10 MR. ROBINSON: Thanks Joan. 11 (Time noted 12:32 p.m.) 12 * * * 13 14 15 16 LOREN G. TERVEEN 17 18 Subscribed and sworn to 19 before me this day 20 of , 20__ 21 22 NOTARY PUBLIC

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REPORTER CERTIFICATE I, JOAN FERRARA, do hereby certify: That said deposition was taken at the time and place herein named; and that the transcript is a true record of the testimony as reported by me, a disinterested person, and was thereafter transcribed. I further certify that I am not interested in the outcome of the said action, nor connected with, nor related to any of the parties in said action, nor to their respective counsel. IN WITNESS WHEREOF, I have hereunto set my hand this 13th day of June, 2025.  JOAN FERRARA, RMR, CFRR	DEPOSITION ERRATA SHEET Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ SIGNATURE: _____ DATE: _____ LOREN G. TERVEEN
DEPOSITION ERRATA SHEET APPLE, INC. vs. SMITH INTERFACE TECHNOLOGIES, LLC DECLARATION UNDER PENALTY OF PERJURY I declare under penalty of perjury that I have read the entire transcript of my deposition taken in the captioned matter or the same has been read to me, and the same is true and accurate, save and except for changes and/or corrections, if any, as indicated by me on the DEPOSITION ERRATA SHEET hereof, with the understanding that I offer these changes as if still under oath. SIGNATURE _____ DATE: _____ LOREN G. TERVEEN Subscribed and sworn to on the ____ day of _____, 20__ before me, Notary Public, in and for the State of _____	DEPOSITION ERRATA SHEET Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ Page No. _____ Line No. _____ Change to: _____ Reason for change: _____ SIGNATURE: _____ DATE: _____ LOREN G. TERVEEN

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