

Page 1 UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD MASIMO CORPORATION,) Petitioner,) Case IPR 2023-00634 v.) U.S. Patent 10,627,783 APPLE INC.,) Patent Owner.) Case IPR 2023-00734) U.S. Patent 10,942,491 DEPOSITION OF R. JAMES DUCKWORTH, PH.D. December 13, 2023 10:06 a.m. Reported by: Lori J. Goodin, RPR, CLR, CRR, RSA, California CSR #13959 DIGITAL EVIDENCE GROUP 1730 M Street, NW, Suite 812 Washington, D.C. 20036 (202) 232-0646	Page 3 1 REMOTE APPEARANCES, CON'T: 2 FOR PATENT OWNER APPLE INC.: 3 FISH & RICHARDSON P.C. 4 KARAN JHURANI, ESQUIRE 5 1180 Peachtree Street Northeast 6 21st Floor 7 Atlanta, Georgia 30309 8 404-892-5005 9 jhurani@fr.com 10 11 12 13 14 15 16 17 18 19 20 21 22
Page 2 1 REMOTE APPEARANCES: 2 FOR PETITIONER MASIMO CORPORATION AND 3 THE WITNESS: 4 KNOBBE MARTENS OLSON & BEAR, LLP 5 BEN J. EVERTON, ESQUIRE 6 PHILIP M. NELSON, ESQUIRE 7 2040 Main Street, 14th Floor 8 Irvine, California 92614 9 949-760-0404 10 ben.everton@knobbe.com 11 philip.nelson@knobbe.com 12 AND 13 KNOBBE MARTENS OLSON & BEAR, LLP 14 PAUL SPIEL, ESQUIRE 15 925 4th Avenue, #2500 16 Seattle, Washington 98104 17 206-405-2000 18 paul.spiel@knobbe.com 19 20 21 22	Page 4 1 INDEX TO EXAMINATION 2 WITNESS: R. JAMES DUCKWORTH, PH.D. 3 4 EXAMINATION BY PAGE 5 MR. JHURANI 5 6 7 8 INDEX TO EXHIBITS 9 DUCKWORTH 10 EXHIBIT DESCRIPTION PAGE 11 Exhibit 1 Notice of Deposition of 12 R. James Duckworth, Ph.D. 10 13 Exhibit 4 Dr. Duckworth's declaration 14 for the '783 patent 52 15 Exhibit 5 Dr. Duckworth's declaration 16 for the '491 patent 13 17 Exhibit 7 PCT Publication WO 2005/092182 63 18 Exhibit 8 U.S. Patent 6,265,789 29 19 20 21 22

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Page 5 1 WEDNESDAY, DECEMBER 13, 2023, 10:06 a.m. 2 PROCEEDINGS 3 * * * 4 Whereupon, 5 R. JAMES DUCKWORTH, PH.D., 6 a witness called for examination, having been 7 first duly sworn, was examined and testified as 8 follows: 9 * * * 10 EXAMINATION 11 12 BY MR. JHURANI: 13 Q. Good morning. Again, I am Karan 14 Jhurani, and I am with Fish & Richardson, and I 15 appearing today on behalf of patent owner, Apple 16 Incorporated. 17 Sir, could you, just for 18 completeness of the record, could you please 19 state your name again for the record. 20 A. Yes. Reginald James Duckworth. 21 Q. Thank you. I'm going to go over 22 some quick ground rules and then we will get	Page 7 1 otherwise, that you can't give truthful, complete 2 and accurate testimony today? 3 A. No. 4 Q. All right. And then just as -- just 5 from a logistic standpoint for today, I will try 6 to take breaks every hour, every hour for a 7 ten-minute break or a five-minute break, whatever 8 folks feel like. 9 I will ask though, if you do need to 10 take a break sooner than that, you will let me 11 know. All right? 12 A. Yes. 13 Q. On those lines, though, if we do 14 need -- if you do need to take a break sooner 15 than the hour and if there is a question pending 16 on the record, I will ask that you answer that 17 question before we take the break. 18 Is that fair? 19 A. Yes. 20 Q. All right. Great. All right. So, 21 sir, just to confirm, you received a set of 22 electronic deposition exhibits, correct?
Page 6 1 started. 2 You understand, sir, that you are 3 testifying under oath today? 4 A. Yes, I do. 5 Q. And you understand that in today's 6 deposition I'm going to ask you a series of 7 questions? 8 A. Yes, I do. 9 Q. Now, if you don't understand a 10 question that I pose, will you let me know that 11 you don't understand the question? 12 A. Yes, I will. 13 Q. All right. But if you answer a 14 question, is it fair for me to accept that you 15 understood the question I asked? 16 A. Yes, if I don't ask for 17 clarification. 18 Q. Thank you. Yes. And you understand 19 that you are to give truthful, complete and 20 accurate testimony today, correct? 21 A. Yes, I do. 22 Q. Is there any reason, sir, medical or	Page 8 1 A. I received a link titled Fish & 2 Richardson Exhibits. 3 I have opened that link up in my 4 browser. 5 MR. JHURANI: Okay. And, just to 6 then orient everyone, I think counsel has 7 this link as well. 8 Each of the exhibits has the 9 deposition exhibit number in the file name. 10 BY MR. JHURANI: 11 Q. Do you see that? 12 A. Yes, I do. One clarification. 13 Is this for the '783 or the '491, or 14 both sets of exhibits there? 15 Q. Correct. Good question. 16 It is a compilation of both 17 exhibits, both sets of -- there is a lot of 18 overlap between the two. So, yeah, the exhibits 19 are for both. 20 A. I didn't see -- I didn't see both 21 patents. I only had a quick look through, I must 22 admit.

Page 9 1 But I saw, for example, let me 2 see -- I see the '491 patent. 3 Q. Uh-huh. 4 A. But that would be -- yes, sorry. 5 Q. So, are you asking about whether 6 there is the '783 patent in the list of the 7 exhibits that were provided? 8 A. Yes, uh-huh. 9 Q. So, that should be Deposition 10 Exhibit 2. 11 A. Let me have a look at that then. 12 Oh, okay, yes. It is just titled differently. 13 Okay, I see now. Yes, okay. 14 Q. Okay. All right. So, when I refer 15 to a depo, a deposition exhibit, let's say 16 Deposition Exhibit 1, you can simply access the 17 file that begins with that name, Depo Exhibit 1. 18 And then we should be able to bring that up and 19 go from there. Okay? 20 A. Okay. 21 Q. Okay, great. 22 MR. JHURANI: So, let's bring up	Page 11 1 counsel. 2 BY MR. JHURANI: 3 Q. All right, sir. You said you had 4 Exhibit 1 in front of you, correct? 5 A. Yes. 6 Q. Okay. And on the first page of Depo 7 Exhibit 1, do you see the title, Notice of 8 Deposition of R. James Duckworth, Ph.D.? 9 A. Yes. 10 Q. And then on the same page, there is 11 a Case Number, IPR 2023-00634, followed by Patent 12 Number 10,627,783. 13 A. I do. 14 Q. And if I refer to Patent 10,627,783 15 as the '783 patent, will you understand that 16 reference? 17 A. Yes. 18 Q. Okay. Let's turn a few pages 19 forward, Page 4 of this exhibit. I guess this 20 would be a PDF Page 4. 21 A. Yes. 22 Q. And this page, similar title, Notice
Page 10 1 Deposition Exhibit 1. 2 (Duckworth Exhibit 1 marked for 3 identification.) 4 BY MR. JHURANI: 5 Q. And let me know when you have it. 6 A. That is the Notice of Deposition? 7 Q. Correct. 8 A. Yes, I have that. 9 Q. Okay. The -- 10 MR. EVERTON: Sorry, counsel. 11 Before you go any further, I just wanted to 12 make sure Lori has the information she needs 13 for us. 14 I am Ben Everton from Knobbe, and I 15 will be representing the witness and Masimo 16 today. 17 Also we have on line Paul Spiel from 18 Knobbe and Philip Nelson from Knobbe. I just 19 want to make sure you have that on the 20 record, Lori. 21 THE REPORTER: Thank you. 22 MR. JHURANI: Okay. Thank you,	Page 12 1 of Deposition of R. James Duckworth Ph.D. and 2 bears the Case Number 2023-00734, followed by 3 Patent Number 10,942,491. 4 Do you see that? 5 A. I do. 6 Q. And just for completeness then, if 7 we say, if I refer to the 10,942,491 patent as 8 the '491 patent, will you understand that 9 reference? 10 A. Yes, I will. 11 Q. Okay. And you understand, sir, that 12 today's deposition relates to two IPR 13 proceedings, one involving the '783, and the 14 other involving the '491 patent. Correct? 15 A. I do. 16 Q. Okay. All right, sir. Did you 17 prepare for today's deposition? 18 A. Yes, I did. 19 Q. What did you do to prepare? 20 A. I reviewed my declarations and the 21 exhibits. 22 Q. And about how long did you prepare

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Page 13 1 for the deposition? 2 A. Maybe approximate to say 40 hours. 3 I'm not sure exactly. 4 Q. Did you have any discussions with 5 any lawyers, non-lawyers, about today's 6 deposition? 7 MR. EVERTON: I will caution the 8 witness not to disclose any privileged 9 information. 10 But you can answer yes or no. 11 THE WITNESS: Yes. 12 BY MR. JHURANI: 13 Q. Did you speak with any non-lawyers 14 about today's deposition or in preparation for 15 today's deposition? 16 A. No. 17 Q. Great. We can put Exhibit 1 aside, 18 sir. 19 MR. JHURANI: And if you can bring 20 up Depo Exhibit 5. 21 (Duckworth Exhibit 5 marked for 22 identification.)	Page 15 1 A. In -- just a clarification, 2 counselor. 3 In the past someone has put exhibits 4 up on the screen and identified the appropriate 5 sections and highlighted them. 6 I assume that will not be happening 7 today, then? 8 Q. Right. No, we don't have a hot 9 seater for today. 10 A. Okay. I just wanted to make sure I 11 am going to go to the right place. 12 So, again, this was Paragraph 131 on 13 Page 71. 14 Q. That's correct. 15 A. Yes, okay. I am there. 16 Q. All right. And this paragraph 17 begins, I believe, your analysis of the Kotanagi 18 and Honda combination with respect to Claim 7 of 19 the '491 patent. Correct? 20 A. We are on Page 171. And this is 21 part of Ground 1, Claim 7, 11, 14 and 16, 22 unpatentable, because they would have been
Page 14 1 THE WITNESS: This is my declaration 2 for the '491 patent. 3 BY MR. JHURANI: 4 Q. That's right. Okay. So, you have 5 it open? 6 A. I do. 7 Q. Okay. If you could turn, sir, to 8 Paragraph 131 of the declaration, which I believe 9 is on Page 71. 10 A. I also have a paper copy of my 11 declaration that I will be looking at. This is a 12 clean copy of my declaration. I just find it 13 easier to work with paper copies than trying to 14 find things electronically. 15 So, I am reviewing that at the 16 moment. 17 Q. That is fine. 18 A. So, you said Page 131, I believe. 19 Q. Page 71. 20 A. Page 71, sorry. And what paragraph 21 again, please? 22 Q. 131.	Page 16 1 obvious over Kotanagi in view of Honda and then 2 where in independent Claim 7 and Paragraph 131 is 3 referring to a wearable electronic device 4 comprising. 5 Q. Correct. So, beginning with 6 Paragraph 131 and the sequence of paragraphs that 7 follow provides your Claim 7 analysis, correct? 8 MR. EVERTON: Objection, form. 9 THE WITNESS: When you -- can you be 10 more specific when you say Paragraphs 131 and 11 following, what do you mean by those 12 following paragraphs? 13 BY MR. JHURANI: 14 Q. Sure. So, your analysis, in view of 15 Kotanagi and Honda, for Claim 7 is provided in 16 Paragraphs 131 through 164, right? 17 A. Just one second, please. 164 also 18 includes depending Claim -- 19 Q. Oh, yes, you are right. 20 A. -- 11. 21 Q. Yes, I apologize. I meant 131 to 22 159. I misspoke.

Page 17 1 A. Okay. So, now we have identified 2 those paragraphs. Can you ask me the question 3 again, then, please? 4 Q. Sure. These Paragraphs 131 to 159 5 provide your analysis in view of the Honda and 6 Kotanagi combination for Claim 7. Correct? 7 A. I summarize in Paragraph 159, "For 8 these reasons and those explained above, a POSITA 9 would have been motivated to combine Honda and 10 Kotanagi. These motivations to combine also 11 apply to the other Ground 1 combinations and 12 dependants from Claim 7. 13 "Further motivations to combine are 14 provided throughout this declaration." 15 Q. Okay. Yes, I understand. Thank 16 you. 17 If we can turn back to 18 Paragraph 132. 19 A. Yes, I am there. 20 Q. And here you note that, "Kotanagi 21 teaches the housing 2 is made of plastic or a 22 metal material such as aluminum."	Page 19 1 please? 2 Q. Sure. For purposes of the analysis 3 we are seeing here in Paragraphs 132 and 133, you 4 are opining that Kotanagi's device has a housing 5 made of the conductive metal such as aluminum, 6 correct? 7 A. That is what I state in 132, that, 8 "Kotanagi teaches the housing 2 is made of 9 plastic or metal material such as aluminum." 10 Q. So, if we can look at above 11 Paragraph 132, the claim limitation that you have 12 provided there is, "a housing formed from a 13 conductive material." 14 Do you see that? 15 A. I do, yes. 16 Q. And in the following paragraph you 17 note that, "Kotanagi teaches a housing that is 18 made of plastic or a metal material such as 19 aluminum." 20 Do you see that? 21 A. That is what I write in 22 Paragraph 132, yes.
Page 18 1 Do you see that? 2 A. That is what I state in 3 Paragraph 132, yes. 4 Q. Okay. And then if we go to the next 5 paragraph, Paragraph 133. 6 A. Yes. 7 Q. Here you note that, "A POSITA would 8 have understood that aluminum is a strongly -- is 9 strongly conductive." 10 Do you see that? 11 A. That is what I state, "A POSITA 12 would have understood that aluminum is strongly 13 conductive." 14 Q. And thus you go on to state, 15 "Kotanagi teaches a conductive housing." 16 Do you see that? 17 A. That is what I state there, yes. 18 Q. For purposes of the Kotanagi -- for 19 purposes of this analysis, you are opining that 20 Kotanagi's device has a housing made of the 21 conductive metal such as aluminum, correct? 22 A. Can you ask me the question again,	Page 20 1 Q. So, does Kotanagi -- strike that. 2 So, for purposes of this limitation, 3 is it your opinion that Kotanagi's housing is 4 formed of a plastic material or a metal material? 5 MR. EVERTON: Objection, form. 6 THE WITNESS: I state in 7 Paragraph 132 that the housing -- Kotanagi 8 teaches the housing is made of plastic or 9 metal material such as aluminum. 10 And then on Paragraph 133, a POSITA 11 would have understood that aluminum is 12 strongly conductive, thus Kotanagi teaches a 13 conductive housing. 14 BY MR. JHURANI: 15 Q. And so for purposes of the 16 combination that you are providing, Kotanagi's 17 housing would not have plastic; is that right? 18 Or would it have plastic? 19 MR. EVERTON: Objection, form. 20 THE WITNESS: All I state there is 21 that Kotanagi teaches the housing can be made 22 of plastic or metal material such as

Page 21 1 aluminum. And then in 133, a POSITA would 2 have understood that aluminum is strongly 3 conductive. 4 So, thus Kotanagi teaches a 5 conductive housing. And, moreover, Honda 6 explicitly describes its metal housing as 7 conductive. 8 BY MR. JHURANI: 9 Q. Okay. Is plastic a conductive 10 material? 11 A. Plastic is not a conductive 12 material. 13 Q. So, is it your view that the 14 combination of Kotanagi and Honda renders obvious 15 a housing formed around a conductive material? 16 A. So, please ask me the question 17 again? 18 Q. So, in your opinion, does the 19 combination of Kotanagi and Honda render obvious 20 a housing formed from a conductive material? 21 A. Yes. As I state, either Kotanagi 22 teaches that his housing can be made of aluminum,	Page 23 1 through-hole 22. 2 "A POSITA would have known that 3 glass is a nonconductive material and Honda 4 teaches this. Insulating body (glass, for 5 example) and cover glasses 211 and 111 may be 6 replaced with other insulating materials. 7 "Kotanagi's cover glass's position 8 as claimed and forms a portion of the exterior 9 surface as shown in the figures below." 10 And then I continue -- because I 11 think you asked me about the later paragraphs. I 12 continue in Paragraph 138. 13 "Moreover, Honda, which issued 14 in 2001, discloses a biosensing watch with a 15 metal case back and a nonconductive glass cover 16 as shown in this cross-section." 17 And I continue in Paragraph 139, 18 where I say, "Honda teaches in the first 19 embodiment the case back 212 (typically made of a 20 metal) and the cover glass 211 are arranged and 21 shown in Figure 2." 22 And, "Honda additionally teaches
Page 22 1 which is conductive, or Honda teaches its metal 2 housing is conductive. 3 Q. Okay. All right, sir. If we can 4 turn to Paragraph 137. 5 A. I am there. 6 Q. And just to be clear, I will be 7 asking you about the limitation that is written 8 above Paragraph 137 and, which entails your 9 opinion, I believe, between 137 and 139. 10 And so the limitation is, "A cover 11 comprising a nonconductive material and 12 positioned over the second opening. The cover 13 forming a portion of an exterior surface of the 14 wearable electronic device." 15 Do you see that limitation? 16 A. I see that, yes. 17 Q. Okay. What in the combination, the 18 Kotanagi and Honda combination, is the cover that 19 comprises a nonconductive material? 20 A. In the Paragraph 137, I state that 21 Kotanagi teaches that, "Cover glass 23 is fixed 22 to the housing so as to block the	Page 24 1 that the cover glasses 211 and 111 may be 2 replaced with other insulating materials." 3 And, "Finally, Honda teaches the 4 benefits of using an insulating non-conductive 5 body as a cover for the back side of the watch." 6 Q. Sir, thank you for that. 7 In view of these opinions, is it 8 fair that the cover glass at the back of 9 Kotanagi's device or Honda's device is the cover 10 comprising a nonconductive material? 11 MR. EVERTON: Objection, form. 12 THE WITNESS: Can you ask me the 13 question again, please, counselor? 14 BY MR. JHURANI: 15 Q. Sure. In view of the opinions that 16 you just read, is it fair that the cover glass at 17 the back of Kotanagi's device or Honda's device 18 is the cover comprising a nonconductive material 19 as required by the claim? 20 MR. EVERTON: Objection, form. 21 THE WITNESS: I believe I answered 22 that question with what I just read in my

Page 25 1 Paragraphs 137 through 139. 2 BY MR. JHURANI: 3 Q. Sir, I am not clear on what that 4 answer is. So, that is why I am asking, is the 5 cover glass, what is the cover comprising a 6 nonconductive material as you view it in the 7 context of the Honda and Kotanagi combination? 8 MR. EVERTON: Objection, form. 9 THE WITNESS: I'm sorry. I 10 interrupted you there. 11 I can't -- I don't think I can be 12 much clearer than what I state in my 13 paragraphs there. 14 You know, 137 again says, teaches 15 that cover glass 23 is fixed to the housing. 16 A POSITA would have known that glass is a 17 nonconductive material, and Honda teaches 18 this. 19 Continuing, Kotanagi's cover glass 20 is positioned as claimed. And moreover, 21 Honda discloses a biosensing watch with metal 22 case back and a nonconductive glass cover as	Page 27 1 MR. EVERTON: Objection, form. 2 THE WITNESS: That is what I state 3 there, to either modify Kotanagi to position 4 the wireless charging coil behind Kotanagi's 5 cover glass, LED and PD, or, two, enlarge 6 Kotanagi's cover glass to make room for a 7 coil behind the cover glass. 8 BY MR. JHURANI: 9 Q. Okay. And then the next sentence of 10 that Paragraph 149 reads, "In either case the 11 resulting magnetic flux would pass through the 12 cover glass, as taught by Honda." 13 Do you see that? 14 A. Yes, I do. 15 Q. And when you say in either case, is 16 that referring to the two configurations 17 enumerated in the previous sentence? 18 A. Yes, it is. 19 Q. Okay. And let's turn to 20 Paragraph 152, which is on Page 84. 21 A. Yes, I am there. 22 Q. Okay. In the first sentence there,
Page 26 1 shown in the, in the cross-section. 2 So, you know, I, I believe that has 3 answered your question. 4 BY MR. JHURANI: 5 Q. Got it. Okay. Thank you. Let's 6 reach Paragraph 149. 7 A. I'm sorry. Did you say 140? 8 Q. 149. 9 A. Oh, 149, okay. Okay, I am there. 10 Q. So, middle of the paragraph here you 11 note, "A POSITA would have used Honda's teachings 12 to either modify Kotanagi to position a wireless 13 charging coil behind Kotanagi's cover glass, LED 14 and PD, or, two, enlarge Kotanagi's opening and 15 cover glass to make room for a coil behind the 16 cover glass, surrounding the LED and PD." 17 Do you see that? 18 A. Yes, I do. 19 Q. Now, in both these provided 20 configurations here, the wireless charging coil 21 would be provided behind the cover glass, 22 correct?	Page 28 1 you note in view of Honda's teachings metal 2 covers are inferior for power transmission. 3 Do you see that? 4 A. I state, "Moreover, Honda's 5 Figure 15 and related text (see below) teach 6 metal covers are inferior for power 7 transmission." Yes. 8 Q. And then in the next paragraph, 9 Paragraph 153, you state that, "A POSITA would 10 have known from Honda's disclosure to wirelessly 11 charge through a nonconductive material as eddy 12 currents take place in electrically conductive 13 metal material, weakening the electromagnetic 14 coupling." 15 Do you see that sentence? 16 A. That is what I state there, yes. 17 Q. Okay. What are eddy currents? 18 A. Eddy currents are currents that will 19 take place in metal material as a result of the 20 electromagnetic coupling. 21 Q. And why do they weaken the 22 electromagnetic coupling?

Page 29 1 A. It reduces -- I think Honda may have 2 a description of that. Let me just have a look 3 at Honda. 4 Q. And just for the record, sir, are 5 you looking at a paper copy of the Honda 6 reference? 7 A. Yes, I am. The 1006 exhibit for the 8 '783 IPR. 9 Q. Got it. 10 MR. JHURANI: Let's just introduce 11 that exhibit for the record, and then you can 12 carry on with the review. 13 So, if you can look up at least the 14 electronic exhibit. And then I will ask that 15 you confirm this for your paper exhibit as 16 well. This is Depo Exhibit 8. 17 (Duckworth Exhibit 8 marked for 18 identification.) 19 THE WITNESS: Okay. Just one 20 second, then. Okay, yes. This is 21 Exhibit 1006. 22 BY MR. JHURANI:	Page 31 1 A. Oh, okay. So, looking at Honda, 2 Column 248, he states -- or they state in this 3 case, "However, eddy currents take place in the 4 electrically conductive metal material, weakening 5 the electromagnetic -- excuse me, weakening the 6 electromagnetic coupling." 7 Q. What impact does weakening of the 8 electromagnetic coupling have on wireless 9 charging? 10 MR. EVERTON: Objection, form. 11 THE WITNESS: If you weaken the 12 electromagnetic coupling, then you will 13 reduce the amount of current that is induced 14 in the receive coil. 15 BY MR. JHURANI: 16 Q. And would that have a negative 17 impact on wireless charge efficiency or power 18 transmission? 19 A. Yes, if you weaken the 20 electromagnetic -- excuse me. 21 If you weaken the electromagnetic 22 coupling, then you will degrade the transfer of
Page 30 1 Q. All right. Depo Exhibit 8 listed at 2 the bottom is Masimo Exhibit 1006. And just for 3 the record this is U.S. Patent Number 6,265,789, 4 with inventors Katsuyuki, Honda and others. 5 A. Yes, I agree. 6 Q. Sir, is this the same exhibit that 7 you have a paper copy of? 8 A. Yes, it is. 9 Q. And does that paper copy have any 10 markings on it? 11 A. No, it does not. 12 Q. All right. So, let's go back to the 13 question I asked before we started looking at 14 Honda. 15 Why do eddy currents weaken the 16 electromagnetic coupling between the coils? 17 A. I believe I answered that question. 18 Sorry. As I said, I believe I answered that 19 question. 20 Q. Sorry, sir. I believe you were 21 wanting to look at Honda to answer that question. 22 So, I don't believe I have an answer for this.	Page 32 1 power from a transmit coil to a receive coil. 2 Q. Okay. So then positioning -- or, 3 strike that. 4 So, providing metal between two 5 wireless charging coils, a receive and a transmit 6 coil, would negatively impact wireless transmit 7 and power transmission, correct? 8 MR. EVERTON: Objection, form. 9 THE WITNESS: That was a long 10 question, counselor. Maybe I can provide an 11 answer by, you know, stating what I state in 12 Paragraph 153. 13 "A POSITA would have known from 14 Honda's disclosure to wirelessly charge 15 through a nonconductive material, as eddy 16 currents take place in the electrically 17 material, weakening the electromagnetic 18 coupling." 19 So, I believe that, that answers 20 your question. 21 BY MR. JHURANI: 22 Q. So, in view of -- given eddy

Page 33 1 currents, a POSITA would not have been motivated 2 to wirelessly charge through a conductive 3 material, correct? 4 MR. EVERTON: Objection, form. 5 THE WITNESS: Well, there is levels 6 of -- please ask the question again. 7 BY MR. JHURANI: 8 Q. So, given that eddy currents take 9 place in electrically conductive metal material, 10 a POSITA would not have been motivated to 11 wirelessly charge through a conductive material? 12 MR. EVERTON: Same objection. 13 THE WITNESS: It depends on the, on 14 what amount of metal you are talking about 15 there. 16 And the, that Paragraph 153 of my 17 declaration, I include Figure 15 from Honda, 18 which makes it clear that you can have glass, 19 but you can also have glass with various 20 platings. And so long as the amount of metal 21 is not too significant, you can still get 22 transmission of the electromagnetic coupling.	Page 35 1 And I am trying to understand what 2 you mean by not too significant. 3 A. Well, like I say, I think Honda has 4 got a great example there. You can have glass 5 with a 15-micrometer foil layer. And so we have 6 got some metal there. And you've still got a 7 transmission efficiency as shown by Honda, you 8 know, of 1,000 there. 9 Q. So, in the context of Honda, I 10 think, if I understand the opinion, it is glass 11 with some amount of metal on it may not 12 significantly impact transmission efficiency; is 13 that right? 14 MR. EVERTON: Objection, form. 15 THE WITNESS: No. It doesn't have 16 to be that the foil is on the glass. You 17 could have equivalent amount of metal equal 18 to that 15-micrometer coating there, and it 19 would still result in the same transmission 20 efficiency. 21 So, the way you asked the question 22 seemed too specific -- was describing too
Page 34 1 BY MR. JHURANI: 2 Q. So, I believe you said so long as 3 the amount of metal is not too significant, you 4 can still get transmission of electromagnetic 5 coupling. 6 What would not be too significant? 7 MR. EVERTON: Objection, form. 8 THE WITNESS: That is a very general 9 question, counselor. 10 I have cited some examples from 11 Honda there, comparing some metal placed on 12 the glass, and we just lose a few percent 13 efficiency there. 14 So, you would have to be more 15 specific about, you know, what application or 16 what setup you are referring to. 17 BY MR. JHURANI: 18 Q. Well, I am just trying to understand 19 your testimony in which you said as long as the 20 amount of metal is not too significant, you can 21 still get transmission of the electromagnetic 22 coupling.	Page 36 1 specific a setup. 2 BY MR. JHURANI: 3 Q. So, would eddy currents take place 4 in the example that you gave with the glass with 5 a foil, with a 15-micrometer foil coating on it? 6 MR. EVERTON: Objection, form. 7 THE WITNESS: Eddy currents will 8 still take place in electrically conductive 9 metal material, as I state in 153. 10 But if you have small amounts of 11 metal, it is not going to substantially 12 weaken the electromagnetic coupling. 13 BY MR. JHURANI: 14 Q. What -- at what point then would the 15 amount of metal be so large that it would weaken 16 the electromagnetic coupling? 17 MR. EVERTON: Objection, form. 18 THE WITNESS: That is a very general 19 question, counselor. 20 You will -- adding some conductive 21 material will weaken the electromagnetic 22 coupling.

Page 37 1 BY MR. JHURANI: 2 Q. So, in Paragraph 153, you are 3 pointing to Honda's experiments that show that 4 wireless charging through a glass surface was at 5 least an order of magnitude more efficient than 6 charging through stainless steel. Do you see 7 that? 8 A. That is what I believe I state 9 there. "Honda's experiments in this setting 10 confirmed this arrangement, as Honda shows 11 wireless charging through a glass surface is at 12 least an order of magnitude more efficient than 13 charging through stainless steel." Yes. 14 Q. And even still, if you look at the 15 glass with foil at 10 micrometers 16 or 15 micrometers, is it your opinion that eddy 17 currents would take place in those settings as 18 well? 19 A. Yes, they would to a much reduced 20 magnitude. 21 Q. And because they would be taking 22 place at a much reduced magnitude, they wouldn't	Page 39 1 Around about 100 percent, yes. 2 Q. So, in this context and the 3 stainless steel with a thickness of 1 millimeter, 4 would the eddy currents take place in the 5 material and weaken the electromagnetic coupling 6 relative to a glass with a foil of 7 15 micrometers? 8 MR. EVERTON: Objection, form. 9 THE WITNESS: I think I would like 10 to respond just by my statement in 11 Paragraph 153 where I summarize that, 12 "Honda's experiments in this setting confirm 13 this arrangement, as Honda shows wireless 14 charging through a glass surface is at least 15 an order of magnitude more efficient than 16 charging through stainless steel." 17 BY MR. JHURANI: 18 Q. So, in view of Honda's teachings, 19 does the Kotanagi and Honda combination that you 20 proposed provide for wireless charging through 21 the glass cover on the back of Kotanagi's device? 22 A. I think I summarize that in
Page 38 1 weaken the electromagnetic coupling, is that 2 fair? 3 MR. EVERTON: Objection, form. 4 THE WITNESS: No, and I think I have 5 answered that question already. 6 That if you have electrically 7 conductive metal material, it will weaken the 8 electromagnetic coupling. The amount of 9 metal will determine how much. 10 So, as I point out there, if you 11 have a small amount of metal, you only have a 12 small weakening of electromagnetic coupling. 13 BY MR. JHURANI: 14 Q. So, if we look at the stainless -- 15 looking at Figure 15 that you have provided under 16 Paragraph 153. And we look at the first, first 17 item listed which is the stainless steel at a 18 thickness of 1 millimeter. Do you see that? 19 A. I do, yes. 20 Q. And in that case, the transmission 21 efficiency is, I believe, 100 percent? 22 A. It seems like that is -- yes.	Page 40 1 Paragraph 154. "Thus, a POSITA would have 2 aligned Honda's coil with Kotanagi's opening, 3 such that inductive coupling occurs through the 4 nonconductive material of the cover as claimed." 5 Q. And we spoke earlier that the coil 6 would be provided behind the cover glass in both 7 configurations that we previously discussed, 8 correct? 9 MR. EVERTON: Objection, form. 10 THE WITNESS: I will go back to 11 Paragraph 149 where I say, "A POSITA would 12 have used Honda's teachings to either modify 13 Kotanagi to position a wireless charging coil 14 behind Kotanagi's cover glass, LED and PD, or 15 to enlarge Kotanagi's opening and cover glass 16 to make room for a coil behind the cover 17 glass surrounding the LED and PD." 18 BY MR. JHURANI: 19 Q. Correct. And in both those cases, 20 the coil is provided behind the cover glass, 21 correct? 22 MR. EVERTON: Objection, form.

Page 41 1 THE WITNESS: I believe I answered 2 that with my description in Paragraph 149. 3 Counselor, we have been going for 4 nearly an hour, would it be okay if we took a 5 break now? 6 MR. JHURANI: Sure. Could we do 7 just a couple more questions and then we can 8 round out? Or if you need to take a break, 9 we can take a break absolutely right now. 10 THE WITNESS: That would be great, 11 if you don't mind. 12 MR. JHURANI: Sure. That is fine. 13 We can go off the record. 14 (Recess taken -- 10:56 a.m.) 15 (After recess -- 11:06 a.m.) 16 BY MR. JHURANI: 17 Q. Welcome back, sir. 18 A. Thank you. 19 Q. So, we were talking about 20 Paragraphs 153 and 154 in Depo Exhibit 5. And 21 going back to Paragraph 153, it is noted there 22 that a POSITA would have known from Honda's	Page 43 1 coil still behind the cover glass." 2 BY MR. JHURANI: 3 Q. And if the coil were to expand 4 beyond the cover glass such that it would be 5 positioned behind portions of Kotanagi's metal 6 housing, that would result in the types of 7 electromagnetic coupling weakening that we were 8 talking about earlier, correct? 9 MR. EVERTON: Objection, form. 10 THE WITNESS: I haven't provided an 11 opinion on that setup in my declaration. 12 BY MR. JHURANI: 13 Q. Well, would there be any 14 electromagnetic coupling weakening if the coil 15 was expanded beyond the cover glass? 16 MR. EVERTON: Same objection. 17 BY MR. JHURANI: 18 Q. Due to the -- 19 MR. JHURANI: Let me say that again 20 and then, counsel, please interpose the 21 objection after that. 22 BY MR. JHURANI:
Page 42 1 disclosure to wirelessly charge through a 2 nonconductive material. 3 Do you have that, still? 4 A. I do, yes. 5 Q. In the Honda and Kotanagi 6 combination, would the coil expand beyond the 7 cover? 8 MR. EVERTON: Objection, form. 9 THE WITNESS: No, I don't describe 10 that. 11 BY MR. JHURANI: 12 Q. So, in the Honda/Kotanagi 13 combination, the coil would only be provided 14 behind the cover glass but would not expand 15 beyond it? 16 MR. EVERTON: Objection, form. 17 THE WITNESS: Again, I refer back to 18 my Paragraph 149, where I think I make it 19 clear that, "modify Kotanagi to position a 20 wireless charging coil behind Kotanagi's 21 cover glass, or, two, enlarge Kotanagi's 22 opening and cover glass to make room for a	Page 44 1 Q. Would there be any electromagnetic 2 coupling weakening if the coil was expanded 3 beyond the cover glass? 4 A. Was the -- 5 MR. EVERTON: Sorry. I was going to 6 put in my objection there. I didn't know if 7 you were finished with the question. 8 But, objection to form if that was 9 the question. 10 THE WITNESS: Yes. What is the -- 11 are you asking a hypothetical question here 12 that is, you know, beyond my opinions in my 13 declaration, counselor? 14 BY MR. JHURANI: 15 Q. I am just asking a question about, 16 and I am trying to understand Paragraph 153, 17 where you state, "Eddy currents take place in 18 electrically conductive metal material, weakening 19 the electromagnetic coupling." 20 And, in view of that you note 21 Honda's disclosure -- "Based on Honda's 22 disclosure a POSITA would have known to charge

Page 45 1 through a nonconductive material." 2 And so my question is, would -- 3 well, let's strike that. 4 Kotanagi's housing is made of a 5 metal material, correct? At least as provided in 6 the combination? 7 MR. EVERTON: Objection, form. 8 THE WITNESS: So, I was just 9 checking a couple of things, counselor. 10 So, sorry. But could you ask the 11 question again? 12 BY MR. JHURANI: 13 Q. Sure. Kotanagi's housing, as 14 provided in the combination, is made of a metal, 15 correct? 16 MR. EVERTON: Same objection. 17 THE WITNESS: In Paragraph 133, I 18 say yes, Kotanagi teaches a conductive 19 housing. 20 BY MR. JHURANI: 21 Q. Okay. So then when we come to -- 22 and if we can come back to Paragraph 153.	Page 47 1 combination would not allow for the coil to 2 expand beyond the cover glass and overlap 3 portions of Kotanagi's housing, correct? 4 A. Well, no. All I am saying is in 5 Paragraph 149, a POSITA would view Honda's 6 teachings to either modify Kotanagi to position 7 wireless charging coil behind Kotanagi's cover 8 glass or enlarge the Kotanagi's opening and cover 9 glass to make room for a coil behind the cover 10 glass. 11 You are, I believe, asking me a 12 hypothetical question that I have not covered in 13 my declaration. 14 And so, I can, you know, try and 15 answer that, but it is not what I am describing 16 in these paragraphs related to Claim 7. 17 Q. Sir, I am just -- I understand that. 18 So, let's take this in pieces, then. 19 I want to understand what the extent 20 of the coil is in the Honda/Kotanagi combination. 21 Is it just behind the cover glass or 22 does it extend beyond the cover glass to overlap
Page 46 1 "A POSITA would have known from 2 Honda's disclosure to wirelessly charge through a 3 nonconductive material as eddy currents take 4 place in electrically conductive material." 5 Do you see that? 6 A. That is what I state in 153, yes. 7 Q. And Kotanagi's housing being made of 8 metal would be an electrically conductive metal 9 material, correct? 10 A. As related to this claim in -- as I 11 state in Paragraph 133, yes. 12 Q. And if the coil is expanded beyond 13 the cover glass such that it overlies this 14 electrically conductive metal material that would 15 weaken the electromagnetic coupling? 16 MR. EVERTON: Objection, form. 17 THE WITNESS: Counselor, you are 18 asking me a hypothetical case that is not, 19 not part of my combination and my description 20 there. 21 BY MR. JHURANI: 22 Q. So, just so I am clear. So your	Page 48 1 portions of the housing? 2 MR. EVERTON: Objection, form. 3 THE WITNESS: Again, I am sorry to 4 keep stating this, but I think my description 5 in Paragraph 149 is that it is just behind 6 the Kotanagi's cover glass. 7 BY MR. JHURANI: 8 Q. Okay. And if the coil were to 9 expand beyond the cover glass, it would be 10 subject to eddy currents due to the presence of 11 electrical -- electrically conductive material of 12 the metal housing in Kotanagi, correct? 13 MR. EVERTON: Objection to form. 14 THE WITNESS: So, if I understand 15 correctly, you are asking me a hypothetical 16 case, different to what I have described in 17 my declaration. And I am happy to attempt to 18 answer that. But it is a hypothetical case. 19 If you were to take a coil and 20 extend it and put it behind a conductive 21 material, then as Honda teaches, you will get 22 weakening of the electromagnetic coupling.

Page 49 1 So, in the context that, you know, 2 you are describing something that is 3 hypothetical here, not what I have described 4 in my declaration, then I would agree that 5 placing a coil behind electrically conductive 6 material would weaken the electromagnetic 7 coupling. 8 BY MR. JHURANI: 9 Q. Okay. Thank you, sir. And if we 10 can go back to Paragraph 153. 11 A. Yes. 12 Q. The second sentence again reads, 13 "Honda's experiments in this setting confirmed 14 this arrangement as Honda shows wireless charging 15 through a glass surface is at least an order of 16 magnitude more efficient than charging through 17 stainless steel." 18 Do you see that? 19 A. Yes. 20 Q. Why is the order of magnitude of 21 more efficiency relevant to this analysis that 22 you are providing here?	Page 51 1 Q. And that is because that particular 2 configuration has an order of magnitude more 3 efficiency than another configuration such as 4 when you use stainless steel for example, 5 correct? 6 MR. EVERTON: Objection to form. 7 THE WITNESS: Well, I think I am a 8 little bit confused about your question. 9 I think it is very clear that Honda 10 teaches that your wireless charging is more 11 efficient through the glass surface, through 12 a nonconductive material. 13 And that is why then a POSITA would 14 have aligned Honda's coil with Kotanagi's 15 opening so that the inductor coupling does 16 occur through the nonconductive material of 17 the cover. 18 I think it is as simple as that. 19 BY MR. JHURANI: 20 Q. So, it is just any magnitude of 21 higher efficiency would be sufficient, or is 22 something about at least an order of magnitude
Page 50 1 MR. EVERTON: Objection -- 2 THE WITNESS: Sorry. I cut you off, 3 counselor. I'm sorry. 4 MR. EVERTON: No problem. I was 5 late in my objection. But, yes, objection to 6 the form. 7 THE WITNESS: I think summarize that 8 in Paragraph 154, based on those preceding 9 paragraphs and the teachings, "Thus a POSITA 10 would have aligned Honda's coil with 11 Kotanagi's opening such that an inductive 12 coupling occurs through the nonconductive 13 material of the cover as claimed." 14 BY MR. JHURANI: 15 Q. So, achieving an order of magnitude 16 more efficiency for a particular configuration 17 would motivate that particular configuration; is 18 that right? 19 A. I think a POSITA looking at Honda's 20 descriptions there would want the inductive 21 coupling to occur through the nonconductive 22 material of the cover.	Page 52 1 more efficient, as you state here in 2 Paragraph 153, relevant to the motivation and 3 combination analysis you are presenting? 4 MR. EVERTON: Objection, form. 5 THE WITNESS: I think a POSITA looks 6 at Honda's teachings and knows that the 7 inductor coupling should occur through the 8 nonconductive material of the cover. 9 BY MR. JHURANI: 10 Q. Okay, thank you. 11 MR. JHURANI: Let's bring up Depo 12 Exhibit 4, which is your '783 declaration. 13 (Duckworth Exhibit 4 marked for 14 identification.) 15 THE WITNESS: The '783 one, okay. 16 BY MR. JHURANI: 17 Q. Let me know when you have that up. 18 A. I've got that. This is Depo 19 Exhibit 4, Masimo's Exhibit 1003, in the '783 20 patent. 21 Q. Right. 22 A. Yes.

Page 53 1 Q. Okay. And if we can turn to 2 Paragraph 132 of your declaration here. 3 A. Yes, I am at Paragraph 132. 4 Q. And I think it is similar to 5 your '491 declaration. You note here, "Moreover, 6 Honda's Figure 15 and related text teach metal 7 covers are inferior for power transmission due to 8 eddy currents." 9 Do you see that? 10 A. That is what I state there, yes. 11 Q. And, then you again conclude that, 12 "A POSITA would have aligned Honda's coil with 13 Kotanagi's opening such that power could pass 14 through the cover." 15 A. That is what I state there, yes. 16 Q. And, again, that is because the 17 cover is not conductive and relative to the 18 housing which is metal, and that is why -- or, 19 strike that. 20 And the reason that the coil is 21 aligned with the opening is so that it doesn't 22 encounter any eddy currents from the metal	Page 55 1 BY MR. JHURANI: 2 Q. And then with respect to Exhibit 4, 3 Depo Exhibit 4, again the coil would only be 4 provided behind the nonconductive cover, right? 5 A. Well, let me -- you are referring to 6 depo Exhibit 4. I believe we are now part of 7 Ground 1, independent Claim 9. 8 So, I just want to make sure that 9 I'm not confusing, you know, what we were talking 10 about before. 11 So, this is part of independent 12 Claim 9, Element F, "Whereas, the cover was 13 configured to pass wireless power to the wireless 14 charging receive coil." 15 So, would you mind asking your 16 question again, then, please, regarding that 17 Paragraph 132? 18 Q. Sure. It -- well, let me ask it 19 differently. 20 In your proposed Kotanagi and Honda 21 combination, the charge coil would be provided 22 behind the cover glass and would not extend again
Page 54 1 housing that is around it. 2 Is that fair? 3 MR. EVERTON: Objection to form. 4 THE WITNESS: I really can't say 5 much more than I state in Paragraph 132. 6 Just what you read out there, 7 "Moreover, Honda's Figure 15 and related text 8 teach metal covers are inferior for power 9 transportation, due to, e.g., eddy currents." 10 And then, "A POSITA would thus have 11 aligned Honda's coil with Kotanagi's opening 12 such that power could pass through the 13 cover." 14 BY MR. JHURANI: 15 Q. Now, again, we spoke earlier that 16 Honda's housing is made of metal, correct? 17 MR. EVERTON: Objection, form. 18 THE WITNESS: If I refer back to 19 Paragraph 133 in the previous exhibit, 1003, 20 from the '491, I say, "Moreover, Honda 21 explicitly describes its metal housing as 22 conductive."	Page 56 1 to the housing in Kotanagi, right, as we 2 previously discussed? 3 A. Well, in Paragraph 129, yeah, I 4 think I make that clear. The POSITA would have 5 known to modify Kotanagi's device based on 6 Honda's teachings to include a charging receive 7 coil behind this cover glass. 8 Q. Okay. Then, sticking with Depo 9 Exhibit 4, which is your declaration for the '783 10 patent, can we turn to Paragraph 126? 11 A. Yes. 12 Q. So, in Paragraph 126 you note, "A 13 POSITA would have understood from this context 14 that because Kotanagi's cover glass 23 is fixed 15 to the housing so as to block the 16 through-hole 22, its LED and photodetector work 17 by passing optical signals through the cover 18 glass." 19 Do you see that? 20 A. Excuse me, yes, I do. 21 Q. All right. So, this sentence 22 confirms that the cover glass 23 in Kotanagi is

Page 57 1 fixed to the housing 2. Correct? 2 A. That is what I state there because 3 Kotanagi's cover glass 23 is fixed to the 4 housing 2. 5 Q. Yes. And then if you could turn to 6 Paragraph 116. 7 A. Yes. 8 Q. Here I believe you provided pictures 9 showing the rear portion of Kotanagi's device. 10 Do you see that? 11 A. We are in Paragraph 116. And I say 12 that, "Kotanagi teaches a housing with an opening 13 in the bottom." 14 Q. Right. And then you provided two 15 images of Kotanagi's device there, correct? 16 A. That's correct, yes. 17 Q. Okay. And then in both the shown 18 images, you annotate to show housing 2. Correct? 19 A. Yes. 20 Q. Okay. And now the quoted text under 21 those images reads in part, "A through-hole 22 22 passing through the outside and inside of the	Page 59 1 protruding part 4. Correct? 2 MR. EVERTON: Objection, form. 3 THE WITNESS: I would describe it 4 slightly different. 5 If you look at the paragraph, 6 beneath the figures in my Paragraph 117, it 7 says, "and the cover glass 23 is fixed to the 8 housing 2 so as to block the 9 through-hole 22." 10 BY MR. JHURANI: 11 Q. What is the part number 4a? 12 A. In that same paragraph I was just 13 referring to, it says, "is formed in the center 14 of the lower surface 4a of the protruding 15 part 4." 16 Q. Okay. And so the cover glass is 17 provided over the through-hole 22 that is formed 18 in that lower surface 4a, correct? 19 A. I am not sure about the total 20 accuracy of that statement, counselor. 21 I would just rather, you know, refer 22 to Kotanagi's description which is, I think, well
Page 58 1 housing 2 is formed in the center of the lower 2 surface 4a of the protruding part 4." 3 Do you see that? 4 A. Yes, I do. 5 Q. And then in the images, if we look 6 above, it shows the cover glass 23. Do you see 7 it in the image? 8 A. I'm sorry, no. Where are you 9 looking now? 10 Q. I am looking at the image on the 11 left, under paragraph -- under the Number 116. 12 A. Okay. So, you are referring to 13 part 23 is that correct? 14 Q. Correct. 15 A. Yes, okay. 16 Q. And so that part 23 is the cover 17 glass in Kotanagi, correct? 18 A. If we look, for example, on the next 19 page of my declaration, I highlight 23 and 20 annotate it with cover glass. 21 Q. And as you see there in -- on 22 Page 71 that cover glass 23 is attached to the	Page 60 1 described in that paragraph there. "The cover 2 glass 23 is fixed to the housing 2 so as to block 3 the through-hole 22." 4 Q. What surface is the cover glass 23 5 on? 6 MR. EVERTON: Objection to form. 7 THE WITNESS: I don't understand 8 your question. 9 BY MR. JHURANI: 10 Q. Is the cover glass 23 not on the 11 same surface as the protruding part's lower 12 surface 4a? 13 MR. EVERTON: Objection to form. 14 THE WITNESS: Well, that is a little 15 bit more -- I think we are more accurate to 16 state it how Kotanagi states it that, "A 17 through-hole 22," -- this is the paragraph 18 beneath those figures there. 19 "A through-hole 22 passing through 20 the outside and the inside of the housing 2 21 is formed in the lower -- sorry, is formed in 22 the center of the lower surface 4a of the

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Page 61 1 protruding part 4." 2 And, "A cover glass 23 is fixed to 3 the housing so as to block the 4 through-hole 22." 5 So, when you asked me what surface 6 it is on, I don't think that is an 7 appropriate question. It doesn't reflect how 8 Kotanagi describes that structure. 9 BY MR. JHURANI: 10 Q. Sir, I'm just asking based on your 11 understanding of Kotanagi and the image that you 12 are seeing, what surface is the cover glass 23 13 provided on? 14 MR. EVERTON: Objection to form. 15 THE WITNESS: I think I have 16 answered that by describing how Kotanagi 17 describes that. A cover glass 23 is fixed to 18 the housing 2. 19 BY MR. JHURANI: 20 Q. Is the lower surface 4a of the 21 protruding part 4, part of the housing? 22 A. I am sorry. Can you ask the	Page 63 1 BY MR. JHURANI: 2 Q. Thank you. 3 MR. JHURANI: Let's bring up 4 Deposition Exhibit 7. 5 (Duckworth Exhibit 7 marked for 6 identification.) 7 THE WITNESS: One second. 7. That 8 is Kotanagi? 9 BY MR. JHURANI: 10 Q. Correct, yes. And just for the 11 record Exhibit 7, it is a PCT publication with 12 publication number WO 2005/092182. And it is 13 titled Biological Information Measuring Device. 14 A. I am having a problem trying to 15 access that. 16 MR. EVERTON: Yes, I am as well. It 17 says that the preview didn't load. The 18 document may be protected. 19 MR. JHURANI: Oh, no. 20 MR. EVERTON: Is that the same for 21 you? 22 THE WITNESS: That is what I am
Page 62 1 question again, please? 2 Q. Sure. Is the lower surface 4a in 3 Kotanagi's protruding part 4, formed as part of 4 the housing? 5 MR. EVERTON: Objection to form. 6 THE WITNESS: All I can say, 7 counselor, is how Kotanagi describes that 8 which, you know, is described quite well I 9 think in that paragraph. 10 BY MR. JHURANI: 11 Q. Sorry, I don't follow. I am asking 12 a different question now, sir. 13 So, is the lower surface 4a in 14 Kotanagi's protruding part 4, formed as part of 15 the housing? 16 MR. EVERTON: Same objection. 17 THE WITNESS: Well, I can again 18 state is that a cover glass 23 is fixed to 19 the housing 2. 20 So, that part 4a is part of the 21 housing -- or I should say the protruding 22 part 4 is part of the housing.	Page 64 1 seeing, too, counselor. When I try and 2 download it, it says you can't download this 3 file. 4 BY MR. JHURANI: 5 Q. Sorry to hear that. Do you have a 6 paper copy of Kotanagi in front of you? What I 7 can do is we can refer to that and I can send the 8 Kotanagi exhibit to the reporter at the next 9 break. 10 A. Yes, I do have a paper copy of 11 Kotanagi. 12 MR. JHURANI: Counsel, does that 13 work for you, if you have a Kotanagi copy? 14 MR. EVERTON: I do not have a 15 Kotanagi copy. Let me try to reopen the link 16 and see. 17 It was letting me open other 18 documents, so let's see. 19 MR. JHURANI: Why don't we take a 20 quick break and -- 21 MR. EVERTON: Actually, it just let 22 me open it.

Page 65 1 MR. JHURANI: Oh, okay. 2 MR. EVERTON: I closed the window 3 and reopened the window using the link in the 4 e-mail. And now it just opened right up to 5 Kotanagi. 6 So, maybe that is a solution if you 7 are having issues. 8 THE WITNESS: I will just go with my 9 paper copy here. 10 MR. EVERTON: Okay. 11 BY MR. JHURANI: 12 Q. Okay. All right. So then real 13 quick, sir, just to orient it for the record, 14 Exhibit 7, Depo Exhibit 7 is the PCT publication 15 WO 2005/092182. And is titled Biological 16 Information Measuring Device. 17 Do you have that? 18 A. I do, yes. 19 Q. Okay. And if I refer to this 20 document as Kotanagi, will you understand that? 21 A. I will. 22 Q. And you have reviewed Kotanagi,	Page 67 1 right sides." 2 Do you see that? 3 A. I do. 4 MR. EVERTON: And counsel, you said 5 within, and I think it just says with a 6 central circle. 7 MR. JHURANI: Okay, thank you. 8 BY MR. JHURANI: 9 Q. And, sir, if you can look at 10 Figure 5 of Kotanagi as well. And I think that 11 is on Page 26. 12 A. Yes. 13 Q. And here we are seeing the three 14 circle configuration that Paragraph 54 is talking 15 about, correct? 16 A. Paragraph 54, yes, refers to 17 Figure 5, yes. 18 Q. Okay. And so here in Figure 5, we 19 have a central circle and then two circles of 20 smaller diameter on the left and right of that 21 central circle, correct? 22 A. Yes. The way Kotanagi describes it,
Page 66 1 correct? 2 A. Yes. 3 Q. Okay. All right. Let's turn to 4 Paragraph 54 of Kotanagi. 5 A. Okay. 6 Q. So, I will read the first sentence, 7 "As illustrated in Figure 5, the protruding 8 part 4 is formed into a shape combining three 9 circles." 10 A. I'm sorry, counselor. Didn't you 11 say Paragraph 55? 12 Q. I think I said 54. So, 54. If I 13 said 55, I misspoke. 14 A. Okay, so, 54, okay. 15 Q. Yes, so, reading from Paragraph 54 16 in Kotanagi, "As illustrated in Figure 5, the 17 protruding part 4 is formed into a shape 18 combining three circles when viewed from below. 19 That is a keyhole-like shape formed by combining 20 within a central circle, two circles having a 21 smaller diameter than the central circle so as to 22 sandwich the central circle from the left and the	Page 68 1 it is "A keyhole-like shaped formed by combining 2 with a central circle, two circles having a 3 smaller diameter than a central circle so as to 4 sandwich the central circle from the left and 5 right sides." 6 Q. Right. And then looking at 7 Figure 5, the protruding part 4 includes the 8 electrodes 7a and 7b and the cover glass 23, 9 correct? 10 A. Are you reading from Kotanagi there? 11 Q. I am asking whether the 12 protruding -- as you can see on the image that 13 protruding part 4 includes the electrode 7a, 7b, 14 and the cover glass 23. 15 A. When you say include, I would rather 16 go with Kotanagi's description in Paragraph 55, 17 where it talks about "a through-hole 22 passing 18 through the outside and inside of the housing 2 19 is formed in the center of the lower surface 4a 20 of the protruding part 4. 21 "And the cover glass 23 is fixed to 22 the housing 2 so as to block the

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Page 69 1 through-hole 22." 2 And then he talks about the LED 5 3 and PD 6. And continues so as to touch the 4 inside of the glass cover 23. 5 That is, "The LED 5 and PD 6 are 6 configured so as to be dropped into the 7 protruding part 4." 8 Q. And if we can go down to 9 Paragraph 58 of Kotanagi. 10 A. Yes. 11 Q. And feel free to read that. And 12 once you are done I will ask my question. 13 A. Reading Paragraph 58, is that what 14 you say? 15 Q. Yes. 16 A. Do you want me to read it out loud? 17 Q. If you would like. You can read it 18 to yourself, and then I will ask you a question. 19 A. Okay, excuse me. Yes, I have read 20 that. 21 Q. All right. So, the electrodes 7a 22 and 7b are exposed on the lower surface of 4a of	Page 71 1 he states, "That is, the LED 5 and PD 6 are 2 configured so as to be dropped into the 3 protruding part 4." 4 Q. Okay. So then looking back to 5 Figure 5. The protruding part has disposed on it 6 the electrodes 7a, 7b, as well as the cover 7 glass 23, right? 8 MR. EVERTON: Objection. 9 THE WITNESS: Can you ask the 10 question again, please, counselor? 11 BY MR. JHURANI: 12 Q. Sure. So looking back at Figure 5 13 of Kotanagi, the protruding part 4 has disposed 14 on it the electrodes 7a and 7b, as well as the 15 cover glass 23. Correct? 16 MR. EVERTON: Same objection. 17 THE WITNESS: Again are you reading 18 from part of Kotanagi? Because I don't see 19 that. 20 BY MR. JHURANI: 21 Q. I am asking, based on what we have 22 read and based on looking at the Figure 5 of
Page 70 1 the protruding part. Correct? 2 A. Where are you reading? 3 Q. I am still reading from 58. 4 A. Okay. So, it says in 58, "In 5 addition, the pair of electrodes 7a and 7b are 6 provided so that the tips thereof protrude 7 slightly more than the lower surface 4a of the 8 protruding part 4." 9 Q. Right. Let me ask a question and 10 feel free to read the paragraph. I'm interested 11 to know what your thought is on this. 12 The pair of electrodes in 13 Kotanagi 7a and 7b are disposed on the lower 14 surface 4a of the protruding part, correct? 15 A. I believe that is what I described, 16 "The pair of electrodes 7a and 7b are provided so 17 that the tips thereof protrude slightly more than 18 the lower surface 4a of the protruding part 4." 19 Q. And the LED and -- LED 5 and PD 6 20 are dropped into the protruding part 4 as well, 21 correct? And this is from Paragraph 55. 22 A. Let me go back to 55 then. In 55,	Page 72 1 Kotanagi, whether the protruding part 4 has 2 disposed on it electrodes 7a and 7b and cover 3 glass 23? 4 MR. EVERTON: Same objection. 5 THE WITNESS: Yeah, I don't -- I 6 wouldn't want to describe it any differently 7 than we have just been looking at in those 8 Paragraphs 54, 55, and 58. 9 It seems like you are describing 10 something that is not quite accurate to how 11 Kotanagi describes it. 12 BY MR. JHURANI: 13 Q. Looking at Figure 5, what structures 14 are provided on the protruding part 4? 15 MR. EVERTON: Objection to form. 16 THE WITNESS: What structures are 17 provided on protruding part 4? 18 In Paragraph 58, Kotanagi states 19 that, "The pair of electrodes 7a and 7b are 20 disposed on the lower surface 4a of the 21 protruding part 4." 22 BY MR. JHURANI:

Page 73 1 Q. So, the electrodes are provided -- 2 are on the lower surface 4a of protruding part 4. 3 Correct? 4 MR. EVERTON: Objection to form. 5 THE WITNESS: Again, I would rather 6 go with the language Kotanagi where it 7 states, "The pair of electrodes 7a and 7b are 8 disposed on the lower surface 4a of the 9 protruding part 4." 10 BY MR. JHURANI: 11 Q. Okay. So the lower surface has 12 disposed on it electrodes 7a and 7b. Fair? 13 A. Well, if you continue in 14 Paragraph 58, it says, "In addition, the pair of 15 electrodes 7a and 7b are provided so that the 16 tips thereof protrude slightly more than the 17 lower surface 4a of the protruding part 4." 18 THE WITNESS: Counsel, I'm sorry to 19 interrupt but it is getting close to 20 noontime, which is my lunchtime. And I could 21 do with a break soon. 22 MR. JHURANI: Sure, yes. We can	Page 75 1 Depo Exhibit 4. And that is your declaration in 2 support of the '783 patent. 3 A. Okay. 4 Q. And, in particular, I want to draw 5 your attention to Paragraph 244. Let me know 6 when you are there. 7 A. I am there, yes. This is part of 8 dependent Claim 12? 9 Q. Correct. And then if you go to the 10 next page, I believe Paragraph 244 begins on 11 Page 151 and goes into 152, Page 152. 12 A. Yes. 13 Q. And looking at Page 152, the first 14 sentence reads, "Kotanagi elsewhere includes a 15 cover glass within a protruding part 4." 16 Do you see that? 17 A. I do. 18 Q. Okay. And then dispose on the lower 19 surface 4a of the protruding part 4 are the 20 electrodes 7a and 7b, correct? 21 A. Sorry, where are you reading now? 22 Q. I'm just asking based on the earlier
Page 74 1 break for lunch. How long would you like? 2 THE WITNESS: I would like an hour, 3 please. 4 MR. JHURANI: Sure, that is fine 5 with me. 6 THE WITNESS: So, would it be okay 7 if we reconvene at 1 o'clock then? Will that 8 work for you? 9 MR. JHURANI: Yes, that's fine. 10 THE WITNESS: Thank you. 11 MR. EVERTON: That works. Okay. 12 So, we will see you all in an hour from now. 13 THE WITNESS: Thank you. 14 MR. JHURANI: Thank you. 15 (Recess taken -- 11:56 a.m.) 16 (After recess -- 1:02 p.m.) 17 BY MR. JHURANI: 18 Q. Welcome back, Dr. Duckworth. 19 We were talking about the protruding 20 part 4 of Figure 5, before we adjourned for 21 lunch. 22 If I could draw your attention to	Page 76 1 discussion we were having. 2 A. Well, let me go back to Kotanagi 3 then. 4 So, can you ask the question again, 5 please, counselor? 6 Q. Sure. The lower surface 4a of 7 protruding part 4 has disposed on it 8 electrodes 7a and 7b, correct? 9 MR. EVERTON: Objection to form. 10 THE WITNESS: So, Paragraph 58 of 11 Kotanagi says the contact detection means 7 12 as a pair of electrodes 7a and 7b, and the 13 pair of electrodes 7a and 7b are disposed on 14 the lower surface 4a of the protruding 15 part 4. Yes. 16 BY MR. JHURANI: 17 Q. Okay. Let's turn to Paragraph 76 of 18 Kotanagi. 19 A. 76. Okay. 20 Q. All right. And here it says that 21 "The protruding part may be formed so that the 22 outer periphery is circular."

Page 77 1 Do you see that? 2 A. I do. 3 Q. And that is in reference to Figure 8 4 of Kotanagi? 5 A. That is what Paragraph 76 says, yes. 6 "For example, as illustrated in Figure 8." 7 Q. Okay. And if we can take a look at 8 Figure 8 of Kotanagi, which is on Page 29. 9 A. Figure 8 is on -- 10 Q. Page 28, I apologize. 11 A. Yes, I see Figure 8 on Page 28, yes. 12 Uh-huh. 13 Q. Okay. And it shows -- in Figure 8, 14 it shows that protruding part 4 forms an outer 15 periphery is a circle as discussed in 16 Paragraph 76, correct? 17 A. So, let me just go back. So, 76 18 says, "For example, as illustrated in Figure 8, 19 the protruding part 4 may be formed so that the 20 outer periphery is circular." Yes. 21 Q. Okay. Would the protruding part 4 22 shown in Figure 8 include the cover glass?	Page 79 1 protruding part 4 shown in Figure 8 include the 2 cover glass? 3 MR. EVERTON: Objection to form. 4 THE WITNESS: I just answered that 5 Kotanagi elsewhere includes a cover glass 6 within a protruding part 4. 7 So, doesn't that answer your 8 question? 9 BY MR. JHURANI: 10 Q. I am sorry, sir. I don't 11 understand. 12 So are you saying that the 13 protruding part 4 in Figure 8 would include the 14 cover glass? 15 MR. EVERTON: Same objection. 16 THE WITNESS: I believe so, that the 17 cover glass would be within that protruding 18 part 4. 19 BY MR. JHURANI: 20 Q. Okay. And would electrodes 7a 21 and 7b be disposed on the lower surface 4a of 22 protruding part 4, as shown in Figure 8?
Page 78 1 MR. EVERTON: Objection to form. 2 THE WITNESS: So, please ask your 3 question again, counselor? 4 BY MR. JHURANI: 5 Q. Would the protruding part 4 shown in 6 Figure 8 include the cover glass? 7 MR. EVERTON: Same objection. 8 THE WITNESS: At 55, Kotanagi -- if 9 I understand your question correctly, you are 10 saying it is the cover glass -- 11 So, referring back to my 12 Paragraph 244, I say that, "Kotanagi 13 elsewhere includes a cover glass with a 14 protruding part 4." 15 And "A POSITA would have understood 16 from Kotanagi's Figure 10 that the entire 17 protruding part can form a convex cover glass 18 that spans the through-hole 22." 19 So, does that answer your question? 20 BY MR. JHURANI: 21 Q. No. I don't think it does. 22 The question is, would the	Page 80 1 MR. EVERTON: Objection to form. 2 THE WITNESS: Kotanagi does not 3 provide that level of detail for Figure 8. 4 BY MR. JHURANI: 5 Q. So, you can't say based on the 6 descriptions of Figure 5 and Figure 8, whether 7 the electrodes 7a and 7b would be disposed on 8 protruding part 4 of Figure 8? 9 MR. EVERTON: Objection to form. 10 THE WITNESS: So, Figure 8 is 11 showing a different embodiment and so the 12 electrodes may be similar to shown in the 13 embodiment of Baker 5. 14 But Kotanagi does not show the 15 details of that. 16 BY MR. JHURANI: 17 Q. So, as you understand Kotanagi, sir, 18 would the electrodes be disposed on protruding 19 part 4 of Figure 8, just like they are in 20 protruding part 4, Figure 5? 21 MR. EVERTON: Objection to form. 22 THE WITNESS: Well, in the absence

Page 81 1 of Kotanagi showing that detail, like I said 2 in my previous answer, they may or may not be 3 included in a similar fashion to what is 4 shown in Figure 5. 5 BY MR. JHURANI: 6 Q. Sir, if we could bring up the Depo 7 Exhibit 8, which is the Honda reference that we 8 previously introduced. 9 A. Yes, got that. 10 Q. All right. If you could turn to 11 Column 6. And I will direct your attention to 12 Lines 41 to 45. 13 A. I am in Column 6 and what lines? 14 Did you say 41? 15 Q. 41 to 45. 16 A. Yes, I am there. 17 Q. Okay. And I will just read it for 18 the record. "The station-side coil 110 and the 19 watch-side coil 210 are of a air-core type 20 without any core, to limit the magnetization of a 21 watch mechanism, to avoid an increase in the 22 weight of the watch, and to prevent exposure of a	Page 83 1 Why does the air-core type coil 2 prevent exposure of a magnetic metal? 3 A. Because if it had magnetic metal in 4 the core, then it could be exposed. 5 Q. What impact would magnetization of 6 the watch mechanism have on wireless power 7 transmission or wireless charging? 8 MR. EVERTON: Objection to form. 9 THE WITNESS: Can you ask the 10 question again, please? 11 BY MR. JHURANI: 12 Q. What impact would magnetization of 13 the watch mechanism have on wireless power 14 transmission or wireless charging? 15 MR. EVERTON: Same objection. 16 THE WITNESS: Yes, I don't 17 understand the question, because as Honda 18 describes, it is not affecting the wireless 19 transmission of the power transfer. He is 20 describing other bad effects. 21 BY MR. JHURANI: 22 Q. Sorry. Are you finished with the
Page 82 1 magnetic metal." 2 Do you see that sentence? 3 A. Yes, I do. 4 Q. Why does having an air-core type 5 coil limit magnetization of the watch? 6 MR. EVERTON: Objection to form. 7 THE WITNESS: Just what it says in 8 those lines there. Without any core, you are 9 not going to get magnetization of the watch 10 mechanism. So, he is using an air core 11 without any magnetic material inside the, 12 inside the core there. 13 BY MR. JHURANI: 14 Q. So, then to be clear, the air core, 15 because it does not have any core, by extension 16 it would not have any magnetic materials within 17 that core. Is that fair? 18 A. As Honda describes it in that 19 particular section, yes. Of an air type -- of an 20 air-core type without any core. 21 Q. And why does the air-core type air 22 core -- strike that.	Page 84 1 answer there? 2 A. I am, yes. 3 Q. Okay. What do you mean by other bad 4 effects? 5 A. Well, as Honda describes, it is 6 designed as an air-core type without any core. 7 And as a result then, that is limiting potential 8 magnetization of a watch mechanism, to avoid an 9 increase in the weight of the watch and to 10 prevent the exposure of a magnetic material. 11 Q. So, is it fair then by using the 12 air-core type coil, Honda avoids magnetization 13 which would impair or negatively impact wireless 14 charging? 15 MR. EVERTON: Objection, form. 16 THE WITNESS: I found your question 17 a little bit confusing. 18 Would you mind just stating that 19 again? 20 BY MR. JHURANI: 21 Q. Sure. Does -- well, let me back up 22 a little bit.

Page 85 1 Does magnetization of a watch 2 mechanism negatively effect wireless charging? 3 A. No. 4 MR. EVERTON: Objection to form. 5 BY MR. JHURANI: 6 Q. So, why -- what benefit does 7 limiting magnetization of a watch mechanism -- 8 strike that. 9 What benefit -- what is the benefit 10 of achieving limited magnetization of the watch 11 mechanism by using an air-core type coil? 12 MR. EVERTON: Objection, form. 13 THE WITNESS: Well, I think Honda 14 describes it quite well there, if you look at 15 the continuation of those sentences. 16 "When the present invention is 17 applied to electronic apparatus in which 18 these concerns are not important, a core 19 having a core can be used." 20 So, he is referring to the case 21 where magnetic material could affect a watch 22 mechanism.	Page 87 1 am trying to understand how -- what you mean by 2 could be affected by the magnetic material. 3 A. Again, I -- 4 MR. EVERTON: Objection. 5 THE WITNESS: Sorry. This is not an 6 opinion I provided in my declaration. I 7 believe it is outside the scope of the 8 electronic type of devices we're covering. 9 But I will try to answer your question. 10 Depending on what the metal 11 materials are in that moving mechanism of the 12 watch, magnetic, magnetization could affect 13 maybe the accuracy of that watch mechanism. 14 BY MR. JHURANI: 15 Q. Can you give me an example? I don't 16 follow what you mean by accuracy of that watch 17 mechanism. 18 A. Again, this is outside the scope of 19 the opinions that I provided in my declarations. 20 You are now asking me, it appears, 21 about moving parts in a watch for time keeping. 22 And all I can think of is that those
Page 86 1 BY MR. JHURANI: 2 Q. How would a magnetic material affect 3 a watch mechanism? 4 A. If you have -- this is not something 5 I have formed an opinion on in my declaration, 6 but I will try to answer that. 7 I think this is outside the scope of 8 the IPR where we are talking about electronic 9 devices. 10 I think what he is referring to is 11 if you've got a traditional watch mechanism with 12 moving parts, maybe having a magnetic material in 13 there might, might affect the watch mechanism. 14 Q. How would it affect the watch 15 mechanism? 16 MR. EVERTON: Objection, form. 17 THE WITNESS: I believe I have 18 answered that by stating that a traditional 19 watch mechanism with moving parts could be 20 affected by the magnetic, magnetic material. 21 BY MR. JHURANI: 22 Q. And I understand that, sir. And I	Page 88 1 moving metal parts could be affected. And when I 2 say by accuracy, it may slow down the mechanical 3 moving parts. 4 Again, you are asking me about a 5 hypothetical case that I haven't considered in my 6 declaration. And to give you a complete accurate 7 answer, I would need some more time to analyze 8 and think through that. 9 Q. Would your answer be the same with 10 respect to the impact of exposure of magnetic 11 metal -- strike that. 12 Are you able to tell me what impact 13 the presence or exposure of the magnetic metal 14 would have on Honda's watch with respect to its 15 disclosure of an air-core type without any core? 16 MR. EVERTON: Objection, form. 17 THE WITNESS: I have found that 18 question confusing, counselor. Would you 19 mind asking it again? 20 BY MR. JHURANI: 21 Q. Yeah. What impact would the 22 presence or exposure of a magnetic metal have on

Page 89 1 Honda's watch? 2 MR. EVERTON: Objection, form. 3 THE WITNESS: So, again, this is 4 outside the scope of my declaration. It is 5 not an opinion I provided. 6 So, you are asking me a question 7 specific to Honda. This is outside of the 8 scope of my Kotanagi and Honda combinations 9 on what would be the impact of the exposure 10 of a magnetic material specifically on 11 Honda's watch. Is that what you are saying? 12 BY MR. JHURANI: 13 Q. Yes. 14 A. Again, this is not something I 15 provide an opinion on in my declarations. And 16 you are asking me again outside the scope of my 17 combinations and opinions of Kotanagi and Honda. 18 All I can see from how Honda 19 describes that, he just wants to prevent the 20 exposure of magnetic material. 21 I can't provide an answer on how 22 that would impact the operation of Honda's watch.	Page 91 1 device, what impact would that have on the 2 device? 3 MR. EVERTON: Objection, form. 4 THE WITNESS: I don't understand 5 what you mean by what impact that would have 6 on the device. 7 BY MR. JHURANI: 8 Q. Well, what -- why is it that -- 9 What benefit does preventing the 10 exposure from magnetic metal imbue to Honda's 11 watch? 12 A. Again, I am confused by your 13 question. I think Honda is very clear that it 14 says if you have an air-core type without any 15 core, you will limit the magnetization of a watch 16 mechanism, avoid an increase to the weight of the 17 watch and prevent the exposure of magnetic 18 material. 19 I don't see anything I can say 20 beyond that. 21 Q. Okay. I understand. 22 MR. JHURANI: Okay, thank you. I
Page 90 1 Q. So, sir, and maybe I can short 2 circuit this. 3 So, sitting here today, you are not 4 able to tell me what impact -- strike that. 5 So, sitting here today, you are 6 unable to answer how Honda's use of an air-core 7 type core would prevent exposure from magnetic 8 metal, is that fair? 9 A. No, I don't think that is fair. He 10 says if you don't have a core, it would prevent 11 the exposure of magnetic material. 12 Q. And so, let me ask it again, then. 13 Why is it that Honda's use of an air-core type 14 core would prevent exposure from a magnetic 15 metal? 16 MR. EVERTON: Objection, form. 17 THE WITNESS: Because if there is no 18 core there with magnetic material, it is 19 going to prevent the exposure of that 20 magnetic material. 21 BY MR. JHURANI: 22 Q. And in the context of a Honda-like	Page 92 1 have no further questions at this time. 2 MR. EVERTON: So, you have no 3 further questions for either IPR? 4 MR. JHURANI: Correct. 5 MR. EVERTON: Yes, if you just want 6 to give us a few minutes. Let's take maybe a 7 ten-minute break to discuss. And then we can 8 go back on the record. 9 MR. JHURANI: That is fine. 10 (Recess taken -- 1:34 p.m.) 11 (After recess -- 1:44 p.m.) 12 MR. EVERTON: Okay. Petitioner 13 Masimo does not have any questions for the 14 witness. 15 So, I think that completes this 16 deposition for these two IPRs. 17 THE WITNESS: Thank you. 18 MR. JHURANI: Thank you. 19 (Whereupon, signature not having been waived, 20 the deposition suspended at 1:44 p.m.) 21 * * * 22

Page 93 1 CERTIFICATE OF NOTARY I, LORI J. GOODIN, RPR, CLR, CRR, 2 CA CSR # 13959 the Notary for this deposition, do hereby certify that the witness whose testimony 3 appears in the foregoing deposition was sworn by me; that I am neither counsel for, related to, 4 nor employed by any of the parties to the action in which this deposition was taken; and, further, that I am 5 not a relative or employee of any attorney or counsel employed by the parties hereto, or 6 financially or otherwise interested in the outcome of this action. 7 8 <u>LORI J. GOODIN, RPR, CLR, CRR</u> Notary Public in and for: 9 STATE OF FLORIDA, COUNTY OF SARASOTA 10 Notary Commission Number: GG987804 My Commission expires: May 12, 2024 11 STATE OF CALIFORNIA, CA CSR# 13959 12 My Commission expires: February 22, 2024 13 14 STATE OF MARYLAND, COUNTY OF ANNE ARUNDEL 15 My Commission expires: August 2, 2025 16 DISTRICT OF COLUMBIA, WASHINGTON DC 17 My Commission expires: June 1, 2026 18 19 STATE OF DELAWARE: COUNTY OF KENT 20 My Commission expires: September 9, 2025 21 STATE OF PENNSYLVANIA, COUNTY OF LEHIGH 22 My Commission expires: April 5, 2025	Page 95 1 Digital Evidence Group, L.L.C. 1730 M Street, NW, Suite 812 2 Washington, D.C. 20036 (202) 232-0646 3 4 SIGNATURE PAGE Case: Masimo Corporation v. Apple Inc. 5 Witness Name: R. James Duckworth, Ph.D. Deposition Date: December 13, 2023 6 7 I do hereby acknowledge that I have read and examined the foregoing pages of the transcript of my deposition and that: 8 9 (Check appropriate box): () The same is a true, correct and 10 complete transcription of the answers given by me to the questions therein recorded. 11 () Except for the changes noted in the attached Errata Sheet, the same is a true, 12 correct and complete transcription of the 13 answers given by me to the questions therein 14 recorded. 15 16 _____ 17 DATE WITNESS SIGNATURE 18 19 _____ 20 DATE NOTARY 21 22
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