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Page 1
                       GENTEX CORPORATION
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     META PLATFORMS, INC,
                                ) Patent Trial and
                                ) Appeals Board
                Plaintiff,
                                ) Case Nos.
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                                      IPR2022-01294,
                                      IPR2022-01298,
         VS.
                                      IPR2022-01301,
     THALES VISIONIX, INC.
                                      IPR2022-01302,
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                                      IPR2022-01303,
                Defendants.
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                                      IPR2022-01304,
                                      IPR2022-01305,
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                                      IPR2022-01308
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                   DEPOSITION OF Dr. Ulrich Neumann
12
                     Los Angeles, California
13
                      Thursday, June 1, 2023
14
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     Reported by:
22
     LORI M. BARKLEY
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     CSR No. 6426
     Job No. PA 5916379
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     PAGES 1 - 193
25
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Page 1 Gentex Corporation	2 Pag 1 APPEARANCES (Continued):
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22	23
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24 25	25
Page	Pag
1 APPEARANCES:	
1 ATTEAKANCES.	1 INDEX
2	1 INDEX 2 WITNESS
2 3 ADDYHART PC	
2	2 WITNESS
2 3 ADDYHART PC	2 WITNESS 3 Dr. Ulrich Neumann
2 3 ADDYHART PC 4 BY: Brandon Helms	2 WITNESS 3 Dr. Ulrich Neumann 4 PAGE
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law	2 WITNESS 3 Dr. Ulrich Neumann 4 PAGE 5 Examination by Ms. Collins 6
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1	2 WITNESS 3 Dr. Ulrich Neumann 4 PAGE 5 Examination by Ms. Collins 6
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568	2 WITNESS 3 Dr. Ulrich Neumann 4 PAGE 5 Examination by Ms. Collins 6 6 7 EXHIBITS
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611	2 WITNESS 3 Dr. Ulrich Neumann 4 PAGE 5 Examination by Ms. Collins 6 6 7 EXHIBITS 8 NUMBER DESCRIPTION PAGE
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com	2 WITNESS 3 Dr. Ulrich Neumann 4 PAGE 5 Examination by Ms. Collins 6 6 7 EXHIBITS 8 NUMBER DESCRIPTION PACE 9 Exhibit 1 '632 Neumann Declaration 10 10 Exhibit 2 '253 Neumann Declaration 11
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC	2 WITNESS 3 Dr. Ulrich Neumann 4 PAGE 5 Examination by Ms. Collins 6 6 7 EXHIBITS 8 NUMBER DESCRIPTION PACE 9 Exhibit 1 '632 Neumann Declaration 10 10 Exhibit 2 '253 Neumann Declaration 11
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver	2 WITNESS 3 Dr. Ulrich Neumann 4 PAGE 5 Examination by Ms. Collins 6 6 7 EXHIBITS 8 NUMBER DESCRIPTION PAC 9 Exhibit 1 '632 Neumann Declaration 10 10 Exhibit 2 '253 Neumann Declaration 11 11 12 PREVIOUSLY MARKED EXHIBITS
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law	2 WITNESS 3 Dr. Ulrich Neumann 4 PAGE 5 Examination by Ms. Collins 6 6 7 EXHIBITS 8 NUMBER DESCRIPTION PAC 9 Exhibit 1 '632 Neumann Declaration 10 10 Exhibit 2 '253 Neumann Declaration 11 11 12 PREVIOUSLY MARKED EXHIBITS 13 NUMBER PAGE
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law 14 10 Glenlake Parkway, Suite 130	2 WITNESS 3 Dr. Ulrich Neumann 4 PAGE 5 Examination by Ms. Collins 6 6 7 EXHIBITS 8 NUMBER DESCRIPTION PAC 9 Exhibit 1 '632 Neumann Declaration 10 10 Exhibit 2 '253 Neumann Declaration 11 11 12 PREVIOUSLY MARKED EXHIBITS 13 NUMBER PAGE 14 Exhibit 1001 9
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law 14 10 Glenlake Parkway, Suite 130 15 Atlanta, GA 30328	2 WITNESS 3 Dr. Ulrich Neumann 4 PAGE 5 Examination by Ms. Collins 6 6 7 EXHIBITS 8 NUMBER DESCRIPTION PAC 9 Exhibit 1 '632 Neumann Declaration 10 10 Exhibit 2 '253 Neumann Declaration 11 11 12 PREVIOUSLY MARKED EXHIBITS 13 NUMBER PAGE 14 Exhibit 1001 9 15 Exhibit 1003 9
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law 14 10 Glenlake Parkway, Suite 130 15 Atlanta, GA 30328 16 847-984-3020	2 WITNESS         3 Dr. Ulrich Neumann         4       PAGE         5 Examination by Ms. Collins       6         6       EXHIBITS         8 NUMBER DESCRIPTION PAC       PAC         9 Exhibit 1 '632 Neumann Declaration 10       10         10 Exhibit 2 '253 Neumann Declaration 11       11         12 PREVIOUSLY MARKED EXHIBITS       13         13 NUMBER PAGE       PAGE         14 Exhibit 1001 9       9         15 Exhibit 1003 9       9         16 Exhibit 1005 10       10
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law 14 10 Glenlake Parkway, Suite 130 15 Atlanta, GA 30328 16 847-984-3020 17 Gbgulliver@addyhart.com	2 WITNESS         3 Dr. Ulrich Neumann         4       PAGE         5       Examination by Ms. Collins       6         6       EXHIBITS       8 NUMBER       DESCRIPTION       PAC         9 Exhibit 1 '632 Neumann Declaration       10       10       Exhibit 2 '253 Neumann Declaration       11         11       12       PREVIOUSLY MARKED EXHIBITS       13       NUMBER       PAGE         14 Exhibit 1001       9       15       Exhibit 1003       9         16 Exhibit 1005       10       10         17 Exhibit 1007       46
3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law 14 10 Glenlake Parkway, Suite 130 15 Atlanta, GA 30328 16 847-984-3020 17 Gbgulliver@addyhart.com	2 WITNESS         3 Dr. Ulrich Neumann         4       PAGE         5       Examination by Ms. Collins       6         6       7       EXHIBITS         8 NUMBER       DESCRIPTION       PAC         9 Exhibit 1 '632 Neumann Declaration       10         10 Exhibit 2 '253 Neumann Declaration       11         11       12       PREVIOUSLY MARKED EXHIBITS         13 NUMBER       PAGE         14 Exhibit 1001       9         15 Exhibit 1003       9         16 Exhibit 1005       10         17 Exhibit 1007       46         18 Exhibit 1010       121
3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law 14 10 Glenlake Parkway, Suite 130 15 Atlanta, GA 30328 16 847-984-3020 17 Gbgulliver@addyhart.com 18 19 KIRKLAND & ELLIS LLP	2 WITNESS         3 Dr. Ulrich Neumann         4       PAGE         5       Examination by Ms. Collins       6         6       7       EXHIBITS         8 NUMBER       DESCRIPTION       PAC         9 Exhibit 1 '632 Neumann Declaration       10         10 Exhibit 2 '253 Neumann Declaration       11         11       12       PREVIOUSLY MARKED EXHIBITS         13 NUMBER       PAGE         14 Exhibit 1001       9         15 Exhibit 1003       9         16 Exhibit 1005       10         17 Exhibit 1007       46         18 Exhibit 1010       121         19
3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law 14 10 Glenlake Parkway, Suite 130 15 Atlanta, GA 30328 16 847-984-3020 17 Gbgulliver@addyhart.com 18 19 KIRKLAND & ELLIS LLP 20 BY: Josh Glucoft	2 WITNESS         3 Dr. Ulrich Neumann         4       PAGE         5       Examination by Ms. Collins       6         6       EXHIBITS       8 NUMBER       DESCRIPTION       PAC         9 Exhibit 1 '632 Neumann Declaration       10       10       10       11       11       12       PREVIOUSLY MARKED EXHIBITS       13       NUMBER       PAGE       14       Exhibit 1001       9       15       Exhibit 1003       9       16       Exhibit 1005       10       17       Exhibit 1007       46       18       Exhibit 1010       121       19         20
3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law 14 10 Glenlake Parkway, Suite 130 15 Atlanta, GA 30328 16 847-984-3020 17 Gbgulliver@addyhart.com 18 19 KIRKLAND & ELLIS LLP 20 BY: Josh Glucoft 21 Attorney at Law	2 WITNESS         3 Dr. Ulrich Neumann         4       PAGE         5       Examination by Ms. Collins       6         6       EXHIBITS       8 NUMBER       DESCRIPTION       PAC         9 Exhibit 1 '632 Neumann Declaration       10       10       Exhibit 2 '253 Neumann Declaration       11       11         12       PREVIOUSLY MARKED EXHIBITS       13 NUMBER       PAGE       14 Exhibit 1001       9       15 Exhibit 1003       9       16 Exhibit 1005       10       17 Exhibit 1007       46       18 Exhibit 1010       121       19       20         20       21       21       20       21
2 3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law 14 10 Glenlake Parkway, Suite 130 15 Atlanta, GA 30328 16 847-984-3020 17 Gbgulliver@addyhart.com 18 19 KIRKLAND & ELLIS LLP 20 BY: Josh Glucoft 21 Attorney at Law 22 2049 Century Park East, 37th Floor	2 WITNESS         3 Dr. Ulrich Neumann         4       PAGE         5       Examination by Ms. Collins       6         6       7       EXHIBITS         8 NUMBER       DESCRIPTION       PAC         9 Exhibit 1 '632 Neumann Declaration       10         10 Exhibit 2 '253 Neumann Declaration       11         11       12       PREVIOUSLY MARKED EXHIBITS         13 NUMBER       PAGE         14 Exhibit 1001       9         15 Exhibit 1003       9         16 Exhibit 1005       10         17 Exhibit 1007       46         18 Exhibit 1010       121         19       20         21       22
3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law 14 10 Glenlake Parkway, Suite 130 15 Atlanta, GA 30328 16 847-984-3020 17 Gbgulliver@addyhart.com 18 19 KIRKLAND & ELLIS LLP 20 BY: Josh Glucoft 21 Attorney at Law 22 2049 Century Park East, 37th Floor 23 Los Angeles, CA 90067	2 WITNESS         3 Dr. Ulrich Neumann         4       PAGE         5 Examination by Ms. Collins       6         6       EXHIBITS         8 NUMBER DESCRIPTION       PACE         9 Exhibit 1 '632 Neumann Declaration       10         10 Exhibit 2 '253 Neumann Declaration       11         11       12         12 PREVIOUSLY MARKED EXHIBITS         13 NUMBER       PAGE         14 Exhibit 1001       9         15 Exhibit 1003       9         16 Exhibit 1005       10         17 Exhibit 1007       46         18 Exhibit 1010       121         19       20         21       22         23
3 ADDYHART PC 4 BY: Brandon Helms 5 Attorney at Law 6 401 North Michigan Avenue, Suite 1200-1 7 Chicago, IL 60611 8 312-731-6568 9 Bhelms@addyhart.com 10 11 ADDYHART PC 12 BY: Gregory B. Gulliver 13 Attorney at Law 14 10 Glenlake Parkway, Suite 130 15 Atlanta, GA 30328 16 847-984-3020 17 Gbgulliver@addyhart.com 18 19 KIRKLAND & ELLIS LLP 20 BY: Josh Glucoft 21 Attorney at Law 22 2049 Century Park East, 37th Floor	2 WITNESS         3 Dr. Ulrich Neumann         4       PAGE         5       Examination by Ms. Collins       6         6       7       EXHIBITS         8 NUMBER       DESCRIPTION       PAC         9 Exhibit 1 '632 Neumann Declaration       10         10 Exhibit 2 '253 Neumann Declaration       11         11       12       PREVIOUSLY MARKED EXHIBITS         13 NUMBER       PAGE         14 Exhibit 1001       9         15 Exhibit 1003       9         16 Exhibit 1005       10         17 Exhibit 1007       46         18 Exhibit 1010       121         19       20         21       22



Page 6 Page 8 1 if possible. 1 Los Angeles, California; Thursday, June 1, 2023 2 9:05 a.m. Q. So I think we're going to try to do that and 3 3 refer to exhibits that have been previously marked in 4 Dr. Ulrich Neumann, 4 the IPR proceeding that this deposition relates to. But if you any confusion over what I'm 5 having been administered an oath, was examined and 6 testified as follows: 6 referring to let me know and we can share a screen. 7 A. Okay, thank you. 8 8 **EXAMINATION** Q. Okay, you understand you're under oath 9 9 today? 10 MS. COLLINS: Good morning. I'm Melissa 10 A. Yes, I understand that. 11 Q. Is there anything preventing you from 11 Collins from Williams and Connolly on behalf of 12 patent owner Thales and real party of interest 12 testifying fully and truthfully today? 13 Gentex. 13 A. No. 14 Q. Okay. And it's important in this deposition 14 With me on this video also from Williams and 15 as if I were there as well that we not speak over 15 Connolly is Shayon Ghosh on behalf of Thales and 16 each other so that the court reporter can take down 16 Gentex. 17 And then also on the line, I think, we've 17 what we're both saying. 18 So please give spoken answers rather than a 18 got Greg Gulliver and Brandon Helms of the Addyhart 19 firm on behalf of Thales. 19 gesture like nodding your head. And also, if you can 20 do your best to let me finish my questions before you 20 I think -- go ahead. I think. You've got 21 begin to answer, I will do my best to let you finish 21 your own counsel there as well? 22 MR. GLUCOFT: Sorry, was someone else 22 your answer before starting my next question. 23 Does that make sense? 23 speaking? 24 24 MS. COLLINS: Can you hear me. A. Okay, I understand that. MR. GLUCOFT: We can hear you. Josh Glucoft 25 Q. Great. And you're here today as an expert 25 Page 9 Page 7 1 of Kirkland and Ellis on behalf of petitioner Meta. 1 witness on behalf of Meta Technology? 2 And I'm here with the witness Dr. Ulrich Neumann. A. That's correct. 3 BY MS. COLLINS: Q. And you understand your deposition today is Q. Good morning, Dr. Neumann. Thank you for 4 about your opinions regarding the '632 patent and the 5 joining us today? 5 '253 patent? A. Yes, that's my understanding. A. Good morning. Q. I believe you have just discussed some of Q. Do you understand what I'm referring to with 8 this with the court reporter but I'll go over it a 8 the '632 patent and the '253 patent using the 9 little bit myself as well. 9 shorthand? 10 I understand you have been deposed before? 10 A. Yes, I do. Q. So the '632 patent was Meta Exhibit 1001 in 11 A. That's correct. 11 Q. And you were deposed by my colleague just 12 the related IPR proceedings. And the '253 patent is 13 last week; is that right? With respect to a 13 Meta Exhibit 1003. 14 14 different patent? Do you see that, do you have those exhibits? 15 15 A. If you say so, yes. A. Yes, I do. Q. Okay. Have you ever participated in a Q. And you're offering opinions about those two 17 remote deposition? 17 patents in connection with three different IPR 18 A. No. 18 proceedings; is that correct? 19 Q. Okay, so it should hopefully work the same 19 You don't need to know the numbers. It's 20 way as if I were there in person. There's a camera 20 the 1304, the 1305, and the 1308. I just want to 21 make sure it's clear on the record. 21 on me, a camera on you. You've got a court reporter 22 22 there in the room with you and your counsel. A. Yes, I believe that's correct. 23 I understand you have hard copies of a 23 Q. And you understand this deposition is going 24 number of documents in front of you; is that correct? 24 to address all three of those proceedings in one A. That's correct. I prefer to work from those 25 consolidated deposition, correct?

Page 10

Page 11

Page 12

- 1 A. That's my understanding.
- 2 Q. Great. And you provided one declaration
- 3 regarding your opinions on the '632 patent, correct?
- 4 A. Correct, that's the Exhibit 1005.
- 5 MR. GLUCOFT: One second, the declaration is
- 6 here.
- 7 BY MS. COLLINS:
- 8 Q. So that was I think you were saying Exhibit
- 9 1005 to the 1304 and 1305 IPR proceedings?
- 10 A. That's correct. That's what's written on
- 11 the sheet that I'm looking at.
- 12 Q. So I have marked that as Exhibit 1 to the
- 13 deposition, to differentiate it from the declaration
- 14 I'm about to ask you about, which is also has a
- 15 similar exhibit number.
- So that -- I'll refer to that as the '632
- 17 declaration, if there's any confusion. But it's
- 18 marked as Exhibit 1 for this deposition.
- 19 (Exhibit 1 was marked for identification by
- 20 the court reporter and is attached hereto.)
- 21 BY MS. COLLINS:
- 22 Q. You also provided a declaration regarding
- 23 your opinions on the '253 patent; is that correct?
- 24 A. That's correct.
- 25 O. And that is marked as Exhibit 1005 to IPR

- 1 A. That's right.
- 2 Q. Do you agree that the specifications of
- 3 those patents are substantively identical?
- 4 A. My recollection is that there was a lot of
- 5 similarity, yes.
- Q. Are you aware of any differences?
- A. I haven't made special note of differences
- 8 since I made the declarations so I can't speak to
- 9 that right now.
- 10 Q. Okay, I'm just trying to make sure the
- 11 record is clear so that I don't have to, you know,
- 12 refer to both patents.
- 13 Or that I understand your opinions regarding
- 14 one patent will sort of apply to the other one as
- 15 well.
- 16 So for that purpose, if you could take a
- 17 look at paragraph 32 of your '253 declaration.
- 18 A. '253.
- 19 Q. That paragraph 32 starts the background
- 20 section of the shared '632/'253 specification
- 21 provides; is that right?
- A. I see that, yes.
- 23 Q. So do you understand that the patents
- 24 substantively share a specification?
- 25 A. Yes, they're very similar.

Page 13

- 1 proceeding ending in 1308; is that right?
- 2 A. That's correct.
- 3 Q. Okay, and I've marked that as Exhibit 2 to
- 4 this deposition.
- 5 (Exhibit 2 was marked for identification by
- 6 the court reporter and is attached hereto.)
- 7 BY MS. COLLINS:
- 8 Q. And you have hard copies of both of those
- 9 declarations now in front of you?
- 10 A. Yes.
- 11 Q. And you don't have any notes or markings or
- 12 anything on those declarations, correct?
- 13 A. I didn't print them. But I don't see any
- 14 markings on them.
- 15 Q. Okay, great. So the '632 declaration states
- 16 all of the opinions you offer with respect to the
- 17 '632 patent and its claims; is that right?
- 18 A. That's correct.
- 19 Q. And the '253 declaration states all of the
- 20 opinions you offer with respect to the '253 patent
- 21 and its claims, correct?
- 22 A. That's correct.
- 23 Q. Great. In the course of developing and
- 24 providing your opinions, you reviewed both patents,
- 25 the '632 and the '253, right?

- Q. And sitting here right now, you're not aware
- 2 of any substantive differences?
- 3 A. I cannot recall any at this time.
- 4 Q. Okay. I'll note the '253 specification has
- 5 a few extra sentences or extra sentence at the top
- 6 saying it's a continuation of the prior patent and
- 7 that throws the line numbers off.
- 8 But beyond that, you're not aware right now
- 9 of any differences?
- 10 A. That's correct, I don't recall any.
- 11 Q. Do you understand that the patents claim
- 12 priority to a provisional application filed on August
- 13 9th, 2002?
- 14 A. I'm sorry, repeat the question.
- 15 Q. Do you understand that the patents claim
- 16 priority to a provisional application filed on August
- 17 9th, 2002?
- 18 A. You're saying they both do that?
- 19 O. Yes
- 20 A. I see that for the '632. And I see that for
- 21 the '253.
- Q. So is that the date you used when you were
- 23 evaluating whether a reference was in the prior art?
- 24 A. Yes.
- 25 Q. And I'm not asking to you to take a legal



Page 14 Page 16 1 position on the priority date. I'm not taking a 1 different sensors have different measurement 2 legal position on the priority date. 2 characteristics. But if I use the shorthand before the 3 I guess what do you understand a measurement 4 priority date or in the prior art today, do you 4 characteristic to be? 5 understand that that means before August 9th, 2002? 5 MR. GLUCOFT: Objection, scope. 6 THE WITNESS: Well, its from one single A. Yes, that's my understanding. Q. Okay, great. There were many different 7 sentence without further context it could mean a lot. 8 types of sensors that existed in the prior art, 8 I would look to the text for further clarification of 9 that. 9 correct? A. If you're speaking relating to tracking 10 Are you asking me to do that or do you want 11 me just to -- what are you asking me to do here? 11 sensors, yes, yes. Q. Can you give some examples? 12 BY MS. COLLINS: 12 A. The documents speak of many. But off the Q. I'm asking for your understanding of this 14 top of my head I would recall magnetic, ultrasonic, sentence that says (as read): 14 15 optical, inertial -- those were main ones. 15 There may have been others. 16 Different sensors may have 17 different measurement 17 Q. If you can take a look at the '632 patent, 18 column one. And when you're there, I'll give you the 18 characteristics that affect the 19 19 line number. mapping between the relative pose of 20 A. Okay. 20 a sensor and a target and the 21 21 Q. Line number 31 -- arguably 30 or 31, it says measurement values provided by the 22 sensor. 23 23 24 24 Different sensors may have And what you understand based on your 2.5 different measurement 25 experience that this is referring to with respect to Page 15 Page 17 characteristics that affect the 1 1 measurement characteristics. 2 mapping between the relative pose of A. So for example, an optical sensor -- I'll 3 the sensor and the target and the 3 give you some examples. 4 measurement value provided by the Q. Great. 5 sensor. A. An optical sensor would look at a target for 6 6 something that is observed and a location on the 7 Do you see that? 7 sensor would be the type of measurement it would 8 A. Yes, I see that. 8 produce. 9 Q. What do you understand that to mean? Location isn't an image, it's two 10 A. Well, it's a broad statement. It's 10 dimensional so the nature of the measurement has to 11 basically sort of suggesting and making sure that the 11 do with a projection. 12 reader understands that not all sensors are alike. 12 An acoustic sensor might just produce a 13 range value without a particular location associated 13 There's some differences between them. 14 with it. Q. What sorts of differences? 15 15 A. Well, specifically it's suggesting or A magnetic sensor might do all of those. 16 telling us that they measure different aspects of the 16 This is a very broad question so that's why 17 relative pose of the sensor and a target, and those 17 I initially wasn't sure what you were asking me. 18 aspects are arranged direction or orientation. 18 Q. Okay. If you look a little further down on Q. You're looking at the sentence above? What 19 column 1, about line 39 or 40. You can read the full 20 I just read for that? 20 paragraph for the context. 21 21 A. Yes, that's right, there's a sentence above, The sentence I'm looking at is says (as 22 okay. 22 read): 23 Q. So that sentence is saying, "different 24 sensors may measure different things." 24 The implementation of such common 25 25 But then the sentence I read talks about filtering techniques is often



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