1 UNITED STATES PATENT AND TRADEMARK OFFICE
2 BEFORE THE PATENT TRIAL AND APPEAL BOARD
3
4
5 APPLE INC.,
6 Petitioner
7 v.
8 GEOSCOPE TECHNOLOGIES PTE. LTD,
9 Patent Owner.
10 _____
11 IPR2024-00259
12 _____
13 REMOTELY CONDUCTED DEPOSITION OF
14 KARTHIKEYAN SUNDARESAN, PHD
15 TUESDAY, AUGUST 13, 2024
16 12:01 P.M. CST
17
18
19
20
21
22 REPORTED BY: KARISA EKENSEAIR, CCR RPR RMR
23
24
25

1 DEPOSITION OF KARTHIKEYAN SUNDARESAN, PHD,
2 CONDUCTED VIA ZOOM VIDEOCONFERENCE.
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7
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9
10 Pursuant to notice, before Karisa J.
11 Ekenseair, Certified Shorthand Reporter in and for
12 the States of Arkansas, Oklahoma, Missouri,
13 Illinois, Tennessee, Georgia, New Mexico,
14 Washington, and California; National Registered
15 Professional Reporter; National Registered Merit
16 Reporter; Notary Public.
17
18
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25

1 A P P E A R A N C E S
2 ON BEHALF OF THE PETITIONER (VIA ZOOM):
3 RYAN CHOWDHURY, ESQUIRE
4 FISH & RICHARDSON P.C.
5 500 ARGUELLO STREET, SUITE 400,
6 REDWOOD CITY, CALIFORNIA 94063
7 650-839-5070
8 RCHOWDHURY@FR.COM
9
10 ON BEHALF OF THE PATENT OWNER (VIA ZOOM):
11 STEPHEN MCBRIDE, ESQUIRE
12 CARMICHAEL IP, PLLC
13 8607 WESTWOOD CENTER DRIVE, SUITE 270
14 TYSONS, VIRGINIA 22182
15 703-646-9247
16 STEVEMCBRIDE@CARMICHAELIP.COM
17
18 ALSO PRESENT:
19 ANNILIESE COLEMAN, BLUEBEAR SUPPORT
20
21
22
23
24
25

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1 EXHIBITS
2 (RETAINED BY COUNSEL)

NUMBER	DESCRIPTION	PAGE
EXHIBIT IPR-259/1001	UNITED STATES PATENT NUMBER 8,406,753	9
EXHIBIT IPR-259/1003	DECLARATION OF DR. KARTHIKEYAN SUNDARESAN	7
EXHIBIT IPR-259/2017	UNITED STATES PATENT NUMBER 9.097,784	12
EXHIBIT IPR-2059/2016	UNITED STATES PATENT NUMBER 7,561,104	12

1 P R O C E E D I N G S
2 KARTHIKEYAN SUNDARESAN
3 of lawful age, being first duly sworn, deposes and
4 says in reply to the questions propounded as
5 follows:
6 EXAMINATION
7 BY MR. McBRIDE:
8 Q Good afternoon, Dr. Sundaresan. Nice to
9 see you again.
10 A Good afternoon, Steve.
11 Q Earlier this morning, we did a prior
12 deposition for IPR2024-00031, 00032 and 000255.
13 Do you recall that?
14 A Yes.
15 Q And you understand that this is your
16 deposition for IPR2024-00259, correct?
17 A Correct.
18 Q In the interim since we've ended the
19 previous deposition, did you prepare further for
20 this deposition?
21 A No. I was out for lunch.
22 Q Did you speak with counsel in the interim?
23 A I did sync up with the counsel regarding
24 how long we think the deposition might go and to
25 plan maybe a debrief after.

1 Q I'm going to place your declaration for
2 the 259 IPR in the chat box. Give me a second.
3 (Exhibit IPR-259/1003 marked for
4 identification.)
5 THE WITNESS: Sure. Steve, do you need me
6 to have any of the prior patents open or -- I've
7 closed them.
8 BY MR. McBRIDE:
9 Q Actually, for now close them, I would ask.
10 If you need to refer to something, I can either
11 provide it in the chat box or you can open it back
12 up.
13 A Okay.
14 Q But I don't think there's much -- much
15 else you'll need. Just because of how many
16 documents were open previously, I would probably
17 close -- close that up.
18 A Yeah. I have the declaration.
19 Q Great. And just to confirm for the
20 record, what I've placed in the chat box is
21 Exhibit 1003 in IPR2024-000259, correct?
22 A Correct.
23 Q And this is your declaration in that IPR,
24 correct?
25 A Correct.

1 Q And you understand that IPR2024-00259 --
2 excuse me.
3 You understand that IPR2024-00259
4 challenges U.S. Patent Number 8,406,753, correct?
5 A Correct.
6 Q Let's go down to paragraphs 30 to 32 of
7 your declaration.
8 A Yes.
9 Q Are you there?
10 A Yes.
11 Q Great. This section is titled
12 Interpretation of the '753 Patent Claims, correct?
13 A Correct.
14 Q And this section provides your analysis on
15 the proper claim constructions to use in this IPR,
16 correct?
17 A Correct.
18 Q Just to be clear, you are applying the
19 district court's constructions in your analysis in
20 this IPR, right?
21 A Correct.
22 Q And when I say the district court's
23 constructions, I mean the constructions at
24 paragraph 31?
25 A Correct.

1 Q All right. So the claim terms there for
2 the record are calibrating point -- calibration
3 points; order of providing, generating, evaluating
4 and selecting steps; calibration data; network
5 measurement report; grid point; and evaluating
6 said at least one network measurement report which
7 each of said set of grid points as a function of
8 select ones of said characterizing parameters,
9 correct?
10 A Correct.
11 Q Do you agree with the district court's
12 constructions of these terms?
13 A I do.
14 Q Okay. I just added the '753 patent in the
15 chat box. That should be Exhibit 1001 in the
16 IPR2024-00259. Please let me know when you have
17 it open.
18 (Exhibit IPR-259/1001 marked for
19 identification.)
20 THE WITNESS: Yes. I have it.
21 BY MR. McBRIDE:
22 Q And just to confirm, this is the '753
23 patent that's being challenged in this IPR,
24 correct?
25 A Correct.

1 Q Let's turn to column 59 and lines 16
2 through 18. This is part of claim 1.
3 A Column 59. Yes.
4 Q Okay. So I'm talking about claim 1(a)
5 here, and that's the limitation providing
6 calibration data for each of one or more
7 calibration points in the geographic region, said
8 calibration data having one or more characterizing
9 parameters.
10 Do you see that?
11 A Yes.
12 Q I had a question for you about that
13 limitation. Do you see the term characterizing
14 parameter?
15 A Yes.
16 Q And it's characterizing parameters,
17 plural, in the claim to be -- to be clear. What
18 does the term characterizing parameter mean to
19 you?
20 A Based on the specification, it could refer
21 to one or more characteristic features of the
22 terminal. It could signal strength. It could be
23 other stat of the terminal, hand-over state, or
24 other measurements, angle of arrival, roundtrip
25 time. Any of those could be a characterizing

1 parameter.
2 Q In your opinion, how are characterizing
3 parameters different than calibration data if at
4 all?
5 A So calibration data, I think I would go
6 back to the claim construction, the definition of
7 calibration data. So it's data associated with
8 the measurement for a geographic point.
9 Q And is that different than a
10 characterizing parameter?
11 A Yes. Characterizing parameter is the
12 parameter. Calibration data is for a point for a
13 location, so it is the parameter for a location.
14 Q So is the distinction you're drawing that
15 calibration data consists of various
16 characterizing parameters for a particular
17 location?
18 A Yeah. So calibration data could be any of
19 these characterizing parameters.
20 Q Thank you. I just put in the chat
21 Exhibit 2017 in IPR2024-00259. Go ahead and open
22 that when you're able to and let me know when you
23 have it open.
24 A I have it.
25 (Exhibit IPR-259/2017 marked for

1 identification.)
2 BY MR. McBRIDE:
3 Q This is U.S. Patent Number 9,097,784,
4 correct?
5 A Right.
6 Q Did you consider the '784 patent in
7 preparing your declaration for this IPR?
8 A I did not consider the '784 patent.
9 Q Okay. I'll put Exhibit 2016 in the chat.
10 Please let me know when you are able to open that.
11 A Yes. I have it.
12 (Exhibit IPR-2059/2016 marked for
13 identification.)
14 BY MR. McBRIDE:
15 Q Great. And this is U.S. Patent Number
16 7,561,104, correct?
17 A Correct.
18 Q Did you consider the '104 patent in
19 preparing your declaration for the IPR?
20 A I looked at them as two separate families.
21 They're related in terms of the location system
22 that they are focusing on. But I looked at '753
23 separately and the trio of patents separately. To
24 the extent that they share a common spec where
25 relevant, that has incorporated in my

1 representative declarations.
2 Q Okay. Just to be clear, when you say the
3 trio of patents, you are referring to the '104,
4 '358, and '494 patents we discussed in the prior
5 deposition, correct?
6 A Correct.
7 Q And to the extent the '104, '358, and '494
8 patents specifications are not in common with the
9 '753 patent, you did not consider those portions
10 of the specifications, correct?
11 A I did not, yeah, analyze the '753 as part
12 of the '104 declaration, but if they shared
13 specification or claim constructions that are
14 common, then that automatically gets incorporated
15 in my declaration for the '104 and, likewise, for
16 the '753.
17 MR. McBRIDE: Okay. Thank, you Dr.
18 Sundaresan. I have no further questions on this
19 one.
20 David, do you have any --
21 MR. HOLT: I do not.
22 MR. McBRIDE: -- follow-up? You have no
23 redirect?
24 MR. HOLT: No.
25 MR. McBRIDE: Okay. I think we can go off

1 the record then.
2 THE REPORTER: Okay. And same orders for
3 this, rough draft with two-day expedite?
4 MR. McBRIDE? Yeah. And when does the
5 final come in?
6 THE REPORTER: It will be Thursday.
7 MR. McBRIDE: This Thursday, two days?
8 THE REPORTER: Yes, sir.
9 MR. McBRIDE: Oh, okay. The rough draft
10 will be, like, tonight or something and --
11 THE REPORTER: Yes. The rough draft will
12 be this afternoon and then the final will be
13 Thursday.
14 MR. McBRIDE: Okay. That's perfect. That
15 will be fine. That works.
16 THE REPORTER: Mr. Holt, Mr. Chowdhury
17 ordered the same orders this morning. Is that
18 what you would like to do as well?
19 MR. HOLT: I don't think we need the
20 rough, so the final is fine.
21 (Whereupon the proceedings were concluded at
22 12:17 p.m. CST)
23
24
25

1
2 ERRATA SHEET
3 Witness Name: KARTHIKEYAN SUNDARESAN
4 Case Name: APPLE v. GEOSCOPE TECHNOLOGIES
5 Date Taken: August 13, 2024
6 Page #_____ Line #_____
7 Should read: _____
8 Reason for change: _____
9
10 Page #_____ Line #_____
11 Should read: _____
12 Reason for change: _____
13
14 Page #_____ Line #_____
15 Should read: _____
16 Reason for change: _____
17
18 Page #_____ Line #_____
19 Should read: _____
20 Reason for change: _____
21
22 Page #_____ Line #_____
23 Should read: _____
24 Reason for change: _____
25

1 Witness Signature: _____

2 ACKNOWLEDGMENT OF DEPONENT

3 I, KARTHIKEYAN SUNDARESAN, PHD, do hereby
4 acknowledge that I have read and examined the
5 foregoing testimony and the same is a true,
6 correct, and complete transcription of the
7 testimony given by me and any corrections appear
8 on the attached errata sheet signed by me.
9
10 _____ _____
11 (SIGNATURE) (DATE)
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1 CERTIFICATE OF SHORTHAND REPORTER-NOTARY PUBLIC
2 I, Karisa Ekenseair, Certified Reporter and
3 Notary Public within and for the State of Arkansas
4 do hereby certify: That KARTHIKEYAN SUNDARESAN,
5 the witness whose deposition is hereinbefore set
6 forth, was duly sworn by me before the
7 commencement of such deposition and that such
8 deposition was taken before me and is a true
9 record of the testimony given by such witness.
10 I further certify that the adverse party,
11 Petitioner, was represented by counsel at
12 the deposition.
13 I further certify that the deposition of
14 KARTHIKEYAN SUNDARESAN, occurred virtually on
15 August 13, 2024, commencing at 8:01 a.m. to 10:14
16 a.m.
17 I further certify the inspection, reading and
18 signing of said deposition was waived off the
19 record by agreement of all parties.
20 I further certify that I am not related to any
21 of the parties to this action by blood
22 or marriage, I am not employed by or an attorney
23 to any of the parties to this action, and that I
24 am in no way interested, financially or otherwise,
25 in the outcome of this matter.

1
2 IN WITNESS WHEREOF, I have hereunto set my hand
3 and affixed my seal this 15th day of August, 2024.
4
5 My commission expires: 6-18-2028
6
7
8 Karisa Ekenseair, CCR, RPR RMR LS #802
9 Notary Public in and for
10 Pulaski County, Arkansas
11 Commission No. 12704567
12
13
14
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