

Page 1

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

CIRRUS LOGIC, INCORPORATED,
OMNIVISION TECHNOLOGIES, INCORPORATED, and
TEXAS INSTRUMENTS INCORPORATED,
Petitioners.

v.

GREENTHREAD, LLC,
Patent Owner

IPR2024-00017 (Patent No. 8,421,195)1
IPR2024-00018 (Patent No. 9,190,502)2
IPR2024-00019 (Patent No. 11,316,014)3
IPR2024-00020 (Patent No. 11,121,222)
IPR2024-00021 (Patent No. 11,121,222)4

CONFIDENTIAL

DEPOSITION OF ELIZABETH LEACH
APPEARING REMOTELY

July 29, 2025

9:00 a.m.

Reported by: Eileen Mulvenna, CSR/RMR/CRR/RDR

DIGITAL EVIDENCE GROUP
1730 M Street, N.W., Suite 812
Washington, DC 20036
202.232.0646

1 REMOTE DEPOSITION of ELIZABETH LEACH, a
2 witness on behalf of the Petitioners in the
3 above-titled action, held on July 29, 2025,
4 commencing at approximately 9:00 a.m., before
5 Eileen Mulvenna, CSR/RMR/CRR/RDR, Certified
6 Shorthand Reporter, Registered Merit Reporter,
7 Certified Realtime Reporter, Registered Diplomate
8 Reporter, and Notary Public of the State of New
9 York.

10

11

12

13

14

15

16

17

18

19

20

21

22

1 A P P E A R A N C E S:

2

3 BERT GREENE, ESQUIRE

4 Attorneys for Petitioners

5 Duane Morris LLP

6 Terrace 7

7 2801 Via Fortuna, Suite 200

8 Austin, Texas 78746-7567

9 512.277.2246

10 Greene@duanemorris.com

11

12

13 SCOTT W. HEJNY, ESQUIRE

14 BRANDON MERRILL, ESQUIRE

15 Attorneys for Patent Owner

16 MCKOOL SMITH, P.C.

17 300 Crescent Court, Suite 2100

18 Dallas, Texas 75201

19 214.978.4000

20 shejny@mckoolsmith.com

21

22 ALSO PRESENT: Michael Barrett, Esq. (Cirrus Logic)

1 I N D E X

2 WITNESS EXAMINATION BY PAGE

3 ELIZABETH LEACH

4 MR. HEJNY 6

5 MR. GREENE 66

6 MR. HEJNY 72

7 MR. GREENE 73

8

9 E X H I B I T S

10 PAGE

11 Exhibit 2020 No Bates numbers, August 2, 52

12 2023, Business Wire Article

13 Exhibit 2026 No Bates numbers, Cirrus 57

14 Logic Terms and Conditions

15

16

17

18

19

20

21

22

1 THE REPORTER: Before I swear in the
2 witness, do all counsel stipulate to the
3 witness being sworn in remotely?

4 MR. HEJNY: Yes.

5 MR. BARRETT: Yes.

6 THE REPORTER: Mr. Greene?

7 MR. GREENE: Yes.

8 THE REPORTER: Counsel, please state
9 your appearance and whom you represent for
10 the record.

11 MR. HEJNY: Scott Hejny, McKool Smith,
12 on behalf of Greenthread. And with me is my
13 colleague Brandon Merrill, also with McKool
14 Smith.

15 MR. GREENE: Bert Greene from Duane
16 Morris for Cirrus Logic. And also with us in
17 the room is Michael Barrett, who is in-house
18 at Cirrus Logic.

19 (Witness sworn.)

20

21

22

1 ELIZABETH LEACH,

2 having been duly sworn by Eileen Mulvenna,

3 a Notary Public of the State of New York,

4 was examined and testified as follows:

5 EXAMINATION

6 BY MR. HEJNY:

7 Q. Good morning, Ms. Leach.

8 Have you ever been deposed before?

9 A. Yes.

10 Q. How many times?

11 A. Once.

12 Q. And what type of case was that? Was
13 it a patent case?

14 A. It was.

15 Q. And about how long ago was that
16 deposition?

17 A. About a year ago.

18 Q. And do you recall the name of that
19 case, the parties involved?

20 A. It was the Greenthread.

21 Q. Got it.

22 In what capacity were you deposed in

1 the -- was it in the Greenthread district court
2 litigation?

3 A. I -- I'm not sure.

4 Q. What was the subject matter of your
5 testimony in that deposition?

6 A. Primarily our sales and billings.

7 Q. And what testimony did you provide
8 regarding sales and billings in that deposition?

9 A. I reviewed an Excel spreadsheet of our
10 billings from our SAP system and just went through
11 the various data points.

12 Q. And were there particular companies
13 that you did research on in preparing for that
14 deposition?

15 A. No, not for that deposition.

16 Q. Okay. So you understand the basic
17 parameters of the deposition. I'll ask you
18 questions. And if you don't understand, you know,
19 please don't hesitate to ask me to clarify. Okay?

20 A. Correct.

21 Q. And I'll try not to speak over you.
22 And if you'll do the same for me, that will make it

1 easier for Eileen to record the deposition.

2 Does that sound like a plan?

3 A. Yes.

4 Q. Okay. If you need a break -- we'll
5 try to take a break about every hour; but if you
6 need a break before then, just let me know. Okay?

7 A. Yes.

8 Q. Is there any reason that you believe
9 you can't testify truthfully and accurately in this
10 deposition this morning?

11 A. No.

12 Q. And you understand you're testifying
13 under oath as if you were before a judge and jury;
14 correct?

15 A. Yes.

16 Q. What did you do to prepare for your
17 deposition?

18 A. So for my deposition, I met with our
19 legal team, our in-house legal team, as well as I
20 reviewed the parts that were provided as part of the
21 documentation and -- and reviewed our billing system
22 for any sales regarding those parts as well as our

1 Model N opportunity tracking system to review if
2 there were any opportunities associated with those
3 parts.

4 Q. And when you say "those parts," are
5 you referring to the Intel accused products
6 identified in Exhibit 2021 that you reference in
7 your declaration?

8 A. Yes.

9 Q. And about how long did you meet with
10 the in-house legal team to prepare for your
11 deposition?

12 A. About an hour and a half.

13 Q. And when did you meet with them?

14 A. I met a few weeks ago and then once
15 yesterday.

16 Q. So when you say "an hour and a half,"
17 it was -- is that a -- is that a cumulative total of
18 the meeting a few weeks ago and yesterday?

19 A. Yes.

20 Q. And my understanding is that
21 Mr. Greene, your outside counsel, and Mr. Barrett,
22 in-house counsel at Cirrus, are in the room with you

1 today; is that correct?

2 A. That's correct.

3 Q. Do you have any documents with you in
4 the room in connection with the deposition?

5 A. Yes.

6 Q. And what documents do you have with
7 you?

8 A. We have -- I have my declaration as
9 well as the list of products.

10 Q. And the list of products -- you have a
11 copy of Exhibit 2021 --

12 A. Yes.

13 Q. -- with you?

14 And thank you for that, because it
15 will make it much easier than uploading a huge
16 document into the chat.

17 When were you first contacted about
18 preparing your declaration, which is entitled "The
19 Declaration of Elizabeth Leach"?

20 A. It was probably about a month ago.

21 Q. Okay. So your declaration, on the
22 last page, is dated July 9th, 2025.

1 So you were contacted sometime in late
2 June?

3 A. Yes.

4 Q. And what were you asked to do in
5 connection with the preparation of your declaration?

6 A. I worked with our legal team to review
7 the declaration and went over the list of products
8 to make sure that I was not aware of any sales
9 related to those products.

10 Q. Did you write the declaration
11 yourself?

12 A. I did not. I worked with our legal
13 team on the declaration.

14 Q. Did you draft any of the wording of
15 the declaration yourself?

16 A. I did not.

17 Q. Did you review the declaration before
18 you signed it?

19 A. Yes.

20 Q. How many times?

21 A. Five.

22 Q. And as you worked with your legal team

1 and went through the list of products that's in
2 Exhibit 2021, how long did it take you to complete
3 your investigation?

4 A. About an hour.

5 Q. And, cumulatively, how long did it
6 take you to complete and sign your declaration?

7 A. About an hour as well.

8 Q. And who did you speak with on your
9 legal team in connection with the preparation of
10 your declaration?

11 A. Michele Connors.

12 Q. And who is Michele Connors?

13 A. She is one of our in-house counsel at
14 Cirrus Logic.

15 Q. And who else did you speak with at
16 Cirrus Logic in connection with the preparation of
17 your declaration?

18 A. I didn't speak with anyone else.

19 Q. So the only person you spoke with was
20 Ms. Michele Connors?

21 A. Yes. In preparation of that
22 declaration, yes.

1 Q. And what is your current role at
2 Cirrus Logic?

3 A. I'm the manager of sales
4 administration.

5 Q. And what does your job entail as
6 manager of sales administration?

7 A. I am responsible for all of our
8 in-house sales systems, our billings and revenue
9 reporting systems, our forecasting -- our sales
10 forecasting systems, our sales funnel systems, as
11 well as I manage our relationships with our
12 distributors and our third-party sales reps.

13 Q. Who are Cirrus Logic's distributors?

14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]

19 Q. When you say "distributors," do they
20 resell Cirrus Logic parts?

21 A. Yes.

22 Q. Did you speak with any of your

1 distributors in connection with the preparation of
2 your declaration?

3 A. No.

■ ■ [REDACTED]
■ [REDACTED]
■ [REDACTED]
■ ■ [REDACTED]
■ ■ [REDACTED]
■ [REDACTED]
■ [REDACTED]
■ [REDACTED]
■ [REDACTED]
■ [REDACTED]
■ [REDACTED]
■ [REDACTED]
■ ■ [REDACTED]

14 Q. And how do you have information
15 related to sales made by distributors?

16 A. They provide that information to us.

17 Q. How do they provide that information?

18 A. They provide that information either
19 via a spreadsheet or via an EDI transmission.

20 Q. And what's an EDI transmission?

21 A. It is an electronic exchange of data
22 in which they send over their sales reports.

[illegible]

■ ■ ■
■ ■ ■
■ ■
■ ■
■ ■
■ ■
■ ■ ■
■ ■

8 Q. As part of your job, do you interface
9 with Intel?

10 A. No.

11 Q. Is there someone on your team that
12 interfaces directly with Intel?

13 A. No.

14 Q. Did you contact Intel in connection
15 with your investigation that led to the preparation
16 of your declaration?

17 A. No.

18 Q. So you don't know whether or not there
19 are engineers at Cirrus Logic that work with Intel
20 on a daily basis?

21 A. No.

22 Q. And you don't know whether there are

1 sales representatives within Cirrus Logic that work
2 with Intel on a daily basis?

3 A. There are sales representatives that
4 work with Intel. I'm not sure on the cadence.

5 Q. Did you speak with any of those sales
6 representatives in connection with the investigation
7 you performed to prepare your declaration?

8 A. No.

9 Q. You mentioned in your direct
10 declaration that you're aware or have been informed
11 that Cirrus Logic is involved in a number of inter
12 partes review proceedings; is that correct?

13 A. Yes.

14 Q. And on the first page of your
15 declaration, the cover page -- it says "Declaration
16 of Elizabeth Leach" -- there are -- there are five
17 proceedings listed that all begin with the letters
18 IPR.

19 Do you see that?

20 A. Yes.

21 Q. Have you seen any of the briefs or
22 papers submitted by Greenthread in connection with

1 these IPR proceedings?

2 A. No.

3 Q. Have you seen any briefs submitted by
4 Cirrus Logic in connection with any of these IPR
5 proceedings?

6 A. No.

7 Q. As you were preparing your
8 declaration, were you informed by counsel that the
9 PTAB board had ordered discovery in these IPR
10 proceedings?

11 MR. GREENE: I'll caution the witness
12 here not to reveal specific conversations
13 that you've had with lawyers. If you can
14 answer the question without revealing that,
15 please do so.

16 THE WITNESS: Can you repeat the
17 question.

18 BY MR. HEJNY:

19 Q. Sure.

20 As you were preparing your
21 declaration, were you informed by counsel that the
22 PTAB board had ordered discovery in the IPR

1 proceedings that are listed on the front of your
2 declaration?

3 A. I am -- I don't recall.

4 Q. Were you provided with a copy of the
5 board's order regarding the discovery that had been
6 ordered in these proceedings?

7 A. I don't believe so.

8 Q. So as you were conducting your
9 investigation, were you provided with Exhibit 2021
10 and asked to determine whether or not Cirrus Logic
11 had ever made or sold any of the products listed in
12 Exhibit 2021?

13 A. Yes.

14 Q. Did you do any further investigation
15 other than just determining whether or not Cirrus
16 Logic made or sold any of the exhibits -- or any of
17 the products listed in Exhibit 2021 were sold to
18 Intel?

19 A. Yes.

20 Q. What did you do?

21 A. I reviewed all of the billings -- all
22 of our billings to Intel in our SAP system as well

1 as looked at any opportunities in our Model N system
2 for Intel.

3 Q. And what did those results tell you?

4 A. That we did not sell any of these
5 products to Intel.

6 Q. And you understand that the Intel
7 products listed in Exhibit 2021 are processors;
8 correct?

9 A. Correct.

10 Q. So what you did was you logged into
11 your financial system to determine whether or not
12 Cirrus Logic has sold any of these processors to
13 Intel?

14 A. Yes.

15 Q. Did you do any further investigation
16 other than checking to see whether or not Cirrus
17 Logic had sold any of those processors listed in
18 Exhibit 2021 to Intel?

19 A. I reviewed all of our billings to
20 Intel.

21 Q. And did you -- did you provide a list
22 of the billings to Intel in connection with your

1 declaration?

2 A. No.

■ ■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ ■ [REDACTED]

■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

Page 25

[illegible]

[illegible]

1 BY MR. HEJNY:

2 Q. Is Cirrus Logic a fabless
3 semiconductor company?

4 A. Yes.

5 Q. What does it mean to be a fabless
6 semiconductor company?

7 A. We do not manufacture our own parts.

8 Q. And what fabs or foundries does Cirrus
9 Logic work with to manufacture its products?

10 A. I'm not aware.

11 Q. Do those fab companies or foundries
12 sell products to entities like Intel, Apple, Google
13 or Xiaomi?

14 A. I'm not aware.

15 Q. Did you do any investigation as part
16 of the preparation of your declaration to determine
17 whether any of the fabs or foundries that Cirrus
18 Logic uses to make its products sell those products
19 to Intel?

20 A. No.

21 Q. Does Cirrus Logic track sales made by
22 third-party fabs and foundries in its financial

1 system?

2 A. No.

3 Q. What types of products do these fabs
4 and foundries make for Cirrus Logic?

5 A. What types -- can you repeat the
6 question.

7 Q. Sure.

11

103



5

8

5

11

11

114

10

Page 30

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

21 Q. Did you look into that as part of your
22 investigation?

1 A. No.

2 Q. Now, do you have a copy of
3 Exhibit 2021 in front of you?

4 A. Yes.

5 Q. And I believe the cover sheet -- what
6 pages of that exhibit do you have?

7 A. I have pages 1 through 8.

8 Q. Okay. Great.

9 And the first page has Exhibit 8 in
10 the center, right? In the bottom right-hand corner,
11 it says, "Greenthread Exhibit 2021, page 1 of 371"?

12 A. Yes.

13 Q. And the last page of the document you
14 have in front of you is page 8 of 371?

15 A. It's page 9.

16 Q. Got it.

17 And turn with me to page 5 of 371.

18 Are you with me? Ms. Leach, are you
19 on page 5?

20 THE REPORTER: Did we lose her?

21 MR. HEJNY: I think they froze.

22 THE REPORTER: Should I go off the

1 record?

2 MR. HEJNY: Let's go off the record
3 for a second.

4 (Pause.)

5 THE REPORTER: We're back on the
6 record.

7 BY MR. HEJNY:

8 Q. Ms. Leach, are you on page 5 of
9 Exhibit 2021?

10 A. Can I just clarify if it's page -- the
11 page 5 or page 6 of 371? Is that the page you're
12 referring to?

13 Q. So the page I'm referring to, I'm
14 using the numbering at the bottom right-hand corner.
15 It says "page 5 of 371."

16 A. Okay. I was looking at the other
17 page 5. Okay.

18 Q. I'll refer to the -- to the
19 Exhibit 2021 number just so that we're on the same
20 page.

21 Does that make sense?

22 A. Yes.

1 Q. And the first product listed under
2 Intel Atom processors is the Intel Atom C2308.

3 Do you see that?

4 A. Yes.

5 Q. Have you ever seen a parts list for
6 the Intel Atom C2308?

7 A. No.

8 Q. Did you ask for a parts list for the
9 Intel Atom C2308 as a part of your investigation?

10 A. No.

11 Q. Did you contact Intel to ask Intel
12 whether the Intel Atom C2308 contains any Cirrus
13 Logic amps, DACs, codecs or any other Cirrus Logic
14 products?

15 A. No.

16 Q. And you understand that the processors
17 are composed of many different parts; correct?

18 A. It's my understanding that these are
19 chips.

20 Q. And you understand that chips are made
21 on circuit boards; correct?

22 A. No.

1 Q. Well, do you understand that the chips
2 include more than one part?

3 MR. GREENE: Object to the form of the
4 question.

5 BY MR. HEJNY:

6 Q. Do you know how Intel Atom chips are
7 constructed?

8 A. No.

9 Q. Did you reach out to Intel to ask them
10 whether the Intel Atom C2316 processor includes any
11 parts made or sold by Cirrus Logic?

12 A. No.

13 Q. Did you reach out to Intel and ask
14 them whether any -- any of the Intel Atom C2338
15 processors include any parts made or sold by Cirrus
16 Logic?

17 A. No.

18 Q. And would the answer be the same for
19 any of the processors listed on pages 5 through 7 of
20 Exhibit 2021?

21 A. Yes.

22 Q. Did you ask anyone internally at

1 Cirrus Logic if they know what components are
2 included in an Intel Atom C2308 processor?

3 A. No.

4 Q. Now, turning back to your declaration,
5 if you'll turn with me to -- it's page 2. It's
6 paragraph 6.

7 Are you there?

8 A. Yes.

9 Q. And the first sentence says, "Cirrus
10 Logic does not currently and has never sold any of
11 the Intel accused products on pages 4 through 8 of
12 Exhibit 2021."

13 Do you see that?

14 A. Yes.

15 Q. And the products listed on pages 4 to
16 8 of Exhibit 2021 are Intel processors; correct?

17 A. Yes.

18 Q. Did you suspect, prior to your
19 investigation, that Cirrus Logic had actually sold
20 Intel processors to Intel?

21 A. No.

22 Q. You then state, "Moreover, Cirrus

1 Logic has never sold any component of the Intel
2 accused products to Intel."

3 Do you see that?

4 A. Yes.

5 Q. What do you mean by "any component"?

6 A. Any portion of those products.

7 Q. And what do you mean by "portion of
8 those products"?

9 A. Any piece of those products.

10 Q. And I think we established that you've
11 never seen a parts list for any of these processors;
12 correct?

13 A. Correct.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100		101		102		103		104		105		106		107		108		109		110		111		112		113		114		115		116		117		118		119		120		121		122		123		124		125		126		127		128		129		130		131		132		133		134		135		136		137		138		139		140		141		142		143		144		145		146		147		148		149		150		151		152		153		154		155		156		157		158		159		160		161		162		163		164		165		166		167		168		169		170		171		172		173		174		175		176		177		178		179		180		181		182		183		184		185		186		187		188		189		190		191		192		193		194		195		196		197		198		199		200		201		202		203		204		205		206		207		208		209		210		211		212		213		214		215		216		217		218		219		220		221		222		223		224		225		226		227		228		229		230		231		232		233		234		235		236		237		238		239		240		241		242		243		244		245		246		247		248		249		250		251		252		253		254		255		256		257		258		259		260		261		262		263		264		265		266		267		268		269		270		271		272		273		274		275		276		277		278		279		280		281		282		283		284		285		286		287		288		289		290		291		292		293		294		295		296		297		298		299		300		301		302		303		304		305		306		307		308		309		310		311		312		313		314		315		316		317		318		319		320		321		322		323		324		325		326		327		328		329		330		331		332		333		334		335		336		337		338		339		340		341		342		343		344		345		346		347		348
---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

18 Q. Do you communicate directly with Intel
19 as part of your job?

20 A. No.

21 Q. And I apologize if I asked that
22 question before.

1 But is there someone on the sales team
2 that communicates with Intel?

3 A. Yes.

4 Q. And did you ask that Intel liaison to
5 reach out to Intel to find out if they could give
6 you a definitive answer as to whether or not any of
7 the products listed on pages 5 through 8 of
8 Exhibit 2021 include Cirrus Logic products?

9 A. No.

10 Q. Are there any other ways in which
11 Cirrus Logic products make it to the market?

12 And let me -- let me ask a better
13 question.

█ [REDACTED]

█ [REDACTED]

█ [REDACTED]

█ [REDACTED]

█ [REDACTED]

█ [REDACTED]

█ [REDACTED]

█ [REDACTED]

█ [REDACTED]

█ [REDACTED]

[illegible]

[illegible]

[illegible]

1 A. Yes.

2 THE REPORTER: We're off the record.

3 (Recess from the record.)

4 THE REPORTER: We're back on the

5 record.

6 BY MR. HEJNY:

7 Q. Welcome back, Ms. Leach.

■

■

■

■

■

■

■

■

16 Q. I'm going to upload an exhibit into
17 the chat. Give me just a second.

18 Okay. I've uploaded an exhibit,
19 Exhibit 2020, into the chat.

20 Do you see it, Ms. Leach?

21 A. Yes.

22 Q. Could you download that for me. Let

1 me know when you have it up.

2 (Exhibit 2020, No Bates numbers,
3 August 2, 2023, Business Wire Article,
4 received and marked.)

5 THE WITNESS: Okay.

6 BY MR. HEJNY:

7 Q. Have you seen Exhibit 2020 before?

8 A. No.

9 Q. And at the bottom right-hand corner,
10 it says, "Greenthread Exhibit 2020, page 1 of 3."

11 Do you see that?

12 A. Yes.

13 Q. And there should be three pages. Let
14 me know if you've got all three pages.

15 A. Yes.

16 Q. If you go back to page 1, and the
17 title is "Cirrus Logic Helps Ease PC Industry
18 Transition to New MIPI SoundWire Interface."

19 Do you see that?

20 A. Yes.

21 Q. And in the first full paragraph, at
22 the last sentence, it references a CS35L56 smart

1 amplifier and CS42L43 Smart HIFI codec.

2 Do you see that?

3 A. Yes.

4 Q. What is the CS35L56 smart amplifier?

5 A. I'm not aware.

6 Q. Is that a Cirrus Logic product?

7 A. Yes.

8 Q. And you mentioned that you weren't
9 familiar with codecs; correct?

10 A. Correct.

11 Q. And it says that -- in that last full
12 sentence, it mentions that the CS35L56 smart
13 amplifier and CS42L43 Smart HIFI codec that are
14 included in the Intel SoundWire-ready reference
15 design aimed at helping laptop designers make a
16 smooth migration to the new specification.

17 Do you see that?

18 A. Yes.

19 Q. Are you aware that Cirrus Logic is
20 providing CS35L56 smart amplifiers to Intel?

21 A. No.

22 Q. And this is dated August 2nd, 2023;

1 correct?

2 A. Correct.

■ ■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ ■ [REDACTED]

■ ■ [REDACTED]

■ [REDACTED]

■ ■ [REDACTED]

14 Q. Are you aware that there's a business
15 unit at Cirrus Logic that was providing these smart
16 amplifier chips and codecs to Intel?

17 A. No.

18 Q. And this looks like this was a
19 Business Wire release related to Cirrus Logic.

20 Do you see that?

21 A. Yes.

22 Q. Were you aware that Cirrus Logic was

1 working with Intel to provide SoundWire-ready Intel
2 reference designs for scalable, frustration-free
3 migration into new audio specifications?

4 A. No.

5 Q. When Cirrus Logic makes sales of
6 products, do the sales agreement include standard
7 terms and conditions?

8 A. Can you rephrase the question.

9 Q. Sure.

10 Each sale of Cirrus Logic product,
11 does it include standard terms and conditions?

12 A. Yes.

13 Q. Do the terms and conditions vary on a
14 customer-by-customer basis?

15 A. In general, no, but we could have
16 separate sales agreements.

17 Q. Did you review Cirrus Logic sales
18 agreements in connection with the preparation of
19 your declaration?

20 A. Yes.

21 Q. And what sales agreements did you
22 review?

1 A. I reviewed whether we had any sales
2 agreements with Intel.

3 Q. And what did you find?

4 A. That we do not have any sales
5 agreements with Intel.

6 Q. Do any of your third-party
7 distributors have any sales agreements with Intel?

8 A. I'm not aware.

9 Q. Did you investigate whether any of
10 your third-party distributors have sales agreements
11 with Intel, as part of your investigation?

12 A. No.

13 Q. Are you familiar with the standard
14 terms and conditions of sale for Cirrus Logic
15 products?

16 A. Vaguely, yes.

17 Q. Did you review those terms and
18 conditions of sale as part of your preparation for
19 this deposition?

20 A. No.

21 Q. Do you know whether Cirrus Logic's
22 standard terms and conditions of sale agree to

1 indemnify customers against claims of patent
2 infringement?

3 A. I'm -- that's a legal conversation.
4 I'm not a lawyer.

5 Q. Well, do you understand what
6 "indemnity" means?

7 A. Yes.

8 Q. What does "indemnity" mean?

9 A. If there is an issue, then we would
10 have to work with that customer to either provide
11 compensation or information.

12 MR. HEJNY: I'm going to upload
13 another -- another exhibit. This will be
14 Exhibit 2026.

15 (Exhibit 2026, No Bates numbers,
16 Cirrus Logic Terms and Conditions, received
17 and marked.)

18 BY MR. HEJNY:

19 Q. Okay. It's showing as being uploaded.
20 It may take a second. It's like a 21-megabyte
21 document. Just let me know when you -- when you see
22 it and if you can then open it for me.

1 A. I see it.

2 Q. Let me know when you're able to open
3 that document.

4 A. I'm working on it.

5 Q. Sure. No problem.

6 A. Yes.

7 Q. Okay. In the bottom left-hand corner,
8 there's label that says, "Greenthread Exhibit 2026,
9 page 1 of 11."

10 A. Yes.

11 Q. And the title of the document is
12 "Cirrus Logic, Inc., Terms and Conditions of Sale."

13 Do you see that?

14 A. Yes.

15 Q. All right. Have you ever seen this
16 document before?

17 A. Yes.

18 Q. When did you see this document?

19 A. It's on our website.

20 Q. Do you recall --

21 A. I don't recall the specific date.

22 Q. Sure. No problem. I apologize for

1 talking over you.

2 So you -- you've seen it. You just
3 don't remember when?

4 A. Correct.

5 Q. And have you -- have you read through
6 this document before?

7 A. Yes.

8 Q. And if you'll turn to page 4 of 11, it
9 says "4 of 11" at the bottom. It should be PDF
10 page 4 as well.

11 A. Okay.

12 Q. Do you see Section 10?

13 A. Yes.

14 Q. And that section is entitled
15 "Intellectual Property Indemnification"; correct?

16 A. Yes.

17 Q. And the first sentence states, "Cirrus
18 Logic shall defend any proceeding brought against
19 buyer if and to the extent that the proceeding is
20 based on a claim that any products supplied by
21 Cirrus Logic to buyer directly infringe any duly
22 issued, valid and enforceable United States,

1 European Union country, United Kingdom or Japan
2 patent."

3 And I'm not going to read the rest of
4 the sentence, but do you see where it states that?

5 A. Yes.

6 Q. And do you understand that that "shall
7 defend any proceeding brought against buyer" relates
8 to indemnity for Cirrus Logic products against
9 claims of patent infringement?

10 A. I'm not comfortable with the legal
11 conversation.

12 Q. But do you understand the substance of
13 Section 10?

14 A. Yes.

15 Q. So it's your understanding that if a
16 buyer of a Cirrus Logic product is accused of patent
17 infringement, Cirrus Logic shall defend any
18 proceeding brought against that buyer?

19 A. I'm not a lawyer. I'm not comfortable
20 answering this question.

21 Q. Who did you speak to at Cirrus Logic
22 regarding issues related to indemnification?

1 A. Michele Connor.

2 Q. And what did you ask Ms. Connor?

3 A. I did not ask her anything.

4 Q. Did you -- did you have a conversation
5 with Ms. Connor?

6 A. Yes.

7 Q. And what was the substance of that
8 conversation?

9 MR. GREENE: And I'm going to instruct
10 the witness not to answer except as it
11 pertains to specific statements in her
12 declaration.

13 So, in other words, Liz, I'm not going
14 to let you testify about what you talked
15 about generally with Michele Connors. But to
16 the extent anything in your conversation is
17 reflected in your declaration about indemnity
18 or whatever, you can answer questions about
19 that.

20 THE WITNESS: Okay. Just what's
21 listed in my declaration.

22

1 BY MR. HEJNY:

2 Q. So you didn't ask Ms. Connor any
3 questions, but she provided you some information?

4 A. Correct.

5 Q. Did she write the portion of the
6 declaration related to indemnity?

7 A. Yes.

8 Q. Has Intel ever requested indemnity for
9 Cirrus Logic products for any product?

10 A. Not that I'm aware.

11 Q. I understand that your declaration
12 states that, to your knowledge, Intel has never
13 tendered any patent infringement indemnification
14 request to Cirrus Logic regarding the Intel accused
15 product.

16 Do you see that in paragraph 7?

17 A. Yes. That's correct.

18 Q. Did you investigate any other Intel
19 request for indemnity?

20 A. We have not received any request from
21 Intel for indemnity.

22 Q. Has Cirrus Logic ever received a

1 request for indemnity from a purchaser of a Cirrus
2 Logic product?

3 A. I'm not aware.

4 Q. You don't know?

5 A. I don't know.

6 Q. Do you know whether the language in
7 this, these standard terms and conditions of sale in
8 Exhibit 2026, are the terms and conditions of sales
9 from Cirrus Logic to Intel?

10 A. Yes.

11 Q. So it's your understanding that if
12 Intel were to purchase a Cirrus Logic product,
13 whether from Cirrus Logic or a distributor, it would
14 be subject to these terms and conditions of sale?

15 A. Yes.

16 MR. HEJNY: Why don't we take a short
17 break? I think I'm getting close. Let's --
18 let's break for 10 minutes. We'll be back at
19 9:34 Central.

20 THE WITNESS: Okay.

21 THE REPORTER: We're off the record.

22 (Recess from the record.)

1 THE REPORTER: We're back on the
2 record.

3 BY MR. HEJNY:

■ ■ ■
■
■
■ ■ ■

8 Q. But you didn't attach any of the
9 records of your searches to your declaration;
10 correct?

11 A. Correct.

12 Q. And you didn't write the declaration
13 yourself; correct?

14 A. Correct.

15 Q. Did you write any of the substance of
16 the declaration?

17 A. No.

18 Q. Who wrote the substance of your
19 declaration?

20 A. Michele Connors.

21 Q. Does Cirrus Logic have a good working
22 relationship with Intel?

1 A. I'm not aware.

2 Q. Did you contact anyone internally at
3 Cirrus Logic to find out who regularly interfaces
4 with Intel in connection --

5 A. No.

6 Q. -- with the accused products?

7 A. No.

8 Q. So you didn't ask them to e-mail or
9 call Intel to try and confirm the substance of your
10 testimony in your declaration?

11 A. No.

12 Q. And wouldn't Intel know best about
13 what is included and not included in its own
14 products?

15 A. Yes.

16 MR. HEJNY: No further questions.

17 I'll pass the witness.

18 MR. GREENE: All right. I've got some
19 follow-up.

20

21

22

1 EXAMINATION

2 BY MR. GREENE

3 Q. Ms. Leach, do you recall being asked
4 earlier by Mr. Hejny whether Cirrus sells products
5 directly to Intel?

6 A. Yes.

7 Q. Do you recall testifying that you're
8 not sure whether Cirrus sells products directly to
9 Intel?

10 A. Correct.

11 Q. Is it fair to say, though, that you do
12 know that Cirrus doesn't sell the Intel accused
13 products in Exhibit 2021 directly to Intel?
14 Correct?

15 A. Correct.

16 Q. And is it fair to say that Cirrus does
17 not sell those Intel accused products indirectly to
18 Intel? Right?

19 A. Correct.

20 MR. HEJNY: Objection, form, leading.

21 BY MR. GREENE:

22 Q. Do you recall testifying earlier,

1 Ms. Leach, regarding whether any Cirrus Logic
2 products would be included in the Intel accused
3 products specifically?

4 A. Yes.

5 Q. And what was your answer to that?

6 A. No.

7 Q. And how do you know that?

■ ■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ ■ [REDACTED]

■ [REDACTED]

■ ■ [REDACTED]

14 Q. Do you recall being asked earlier
15 whether you know that any of the Intel accused
16 products in Exhibit 2021 have been sold to Intel
17 affiliates?

18 A. Yes.

19 Q. And what was your answer to that
20 question?

21 A. No.

22 Q. How do you know that?

1 A. Because we didn't sell any of those
2 parts to anyone.

3 Q. Including Intel?

4 A. Including Intel.

5 Q. And so if you didn't sell them to
6 anyone, you didn't sell them to Intel affiliates
7 either?

8 A. That's correct.

9 MR. HEJNY: Objection, form, leading.

10 BY MR. GREENE:

11 Q. Do you recall being asked earlier
12 whether you investigated whether Cirrus's fabs or
13 foundries sell its products to third parties?

14 A. Yes.

15 Q. And what was your testimony on that?

16 A. That I did not investigate.

17 Q. And why didn't you investigate that?

18 A. Because the nature of our relationship
19 is not that our OSATs or fabs would sell any
20 products to any customers. That's -- that's not the
21 relationship. They do not sell products to anyone.

22 Q. Is it fair to say that when Cirrus's

■ [REDACTED]

■ [REDACTED]

3 Q. And that was your definitive answer?

4 A. Yes.

5 Q. How do you know, Ms. Leach, whether
6 any Cirrus products would have been included as a
7 component of the Intel accused products in
8 Exhibit 2021?

■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

■ [REDACTED]

19 Q. Let's look at Exhibit 2020 that
20 Mr. Hejny showed you earlier.

21 A. Yes.

22 Q. And there was some discussion about a

1 couple of Cirrus parts that are mentioned there,
2 CS35L56 and CS42L43.

3 You see those?

4 A. Yes.

5 Q. In your reading of this press release,
6 does it say that Cirrus sold those products to
7 Intel?

8 A. No.

9 Q. And if those parts were sold to Intel,
10 would that have shown up in your investigation on
11 SAP and Model N?

12 A. Yes.

13 Q. Mr. Hejny asked you about the
14 preparation of your declaration.

15 Do you recall that?

16 A. Yes.

17 Q. And you testified that you did not
18 write the declaration.

19 A. That is correct.

20 Q. Is it fair to say you reviewed the
21 substance of the declaration and you commented on
22 it?

1 A. Yes.

2 Q. And you had a chance to revise any
3 parts that you felt like needed to be revised?

4 A. Yes.

5 MR. GREENE: I have no further
6 questions.

7 EXAMINATION

8 BY MR. HEJNY:

9 Q. Ms. Leach, you just testified that you
10 commented on the declaration.

11 What -- what comments did you make?

12 A. I did not make any comments. I had
13 the ability to provide comments, but I reviewed the
14 document and signed.

15 Q. So you didn't make any substantive
16 input into the declaration other than reviewing what
17 was there and signing?

18 A. Yes.

19 Q. And I think you testified earlier,
20 Ms. Leach, that you've never seen a parts list for
21 any of the Intel processors that were listed in
22 Exhibit 2021; is that correct?

1 A. Correct.

2 Q. And you didn't contact Intel to find
3 out whether or not any of those products include a
4 Cirrus Logic product; correct?

5 A. Correct.

6 MR. HEJNY: No further questions.

7 EXAMINATION

8 BY MR. GREENE:

9 Q. All right. So just one quick
10 follow-up, Ms. Leach.

11 So regarding your declaration, you
12 said you didn't make any comments or specific
13 revisions to the declaration?

14 A. Correct.

15 Q. Is it fair to say you confirmed it was
16 accurate as drafted?

17 A. Yes.

18 Q. And you wouldn't have signed your name
19 to it if it wasn't accurate as drafted?

20 A. That is correct.

21 MR. HEJNY: Objection, form, leading.

22 MR. GREENE: Pass the witness.

Page 74

1 MR. HEJNY: I think we're done.

2 MR. GREENE: Great.

3 THE REPORTER: Okay. We're off the
4 record.

5 (The examination concluded. The time
6 is 10:44 a.m.)

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

1 STATE OF NEW YORK)
2)
3 COUNTY OF WESTCHESTER)
4)

5 I, EILEEN MULVENNA, CSR/RMR/CRR/RDR, a
6 Certified Court Reporter, Registered Merit Reporter,
7 Certified Realtime Reporter, Registered Diplomate
8 Reporter, and Notary Public in and for the State of
9 New York, do hereby certify:

10 That I reported the taking of the
11 deposition of the witness, ELIZABETH LEACH,
12 commencing on the 29th day of July, 2025, at the
13 hour of 9:00 a.m.

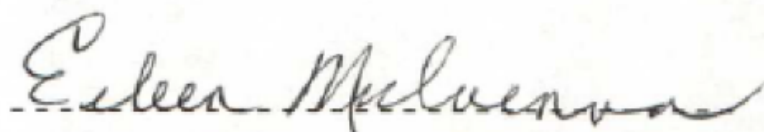
14 That prior to being examined, the witness
15 was duly sworn by me to testify to the truth, the
16 whole truth, and nothing but the truth.

17 That I thereafter transcribed my said
18 shorthand notes into typewriting and that the
19 typewritten transcript of said deposition is a
20 complete, true and accurate transcription of my
21 said shorthand notes taken down at said time, and
22 that a request has been made to review the
transcript.

I further certify that I am not a relative
or employee of an attorney or counsel of any of the
parties, nor a relative or employee of any attorney
or counsel involved in said action, nor a person
financially interested in the action.

IN WITNESS WHEREOF, I have hereunto
set my signature this 29th day of July, 2025.

18
19
20
21
22



EILEEN MULVENNA, CSR/RMR/CRR/RDR

1 Elizabeth Leach, c/o

2 MCKOOL SMITH, P.C.

3 300 Crescent Court, Suite 2100

4 Dallas, Texas 75201

5

6 Case: Cirrus Logic, Inc., et al. v. Greenthread, LLC

7 Date of deposition: July 29, 2025

8 Deponent: Elizabeth Leach

9

10

11 Please be advised that the transcript in the
12 above-referenced matter is now complete and
ready for signature.

13 The deponent may come to this office to sign the
14 transcript, a copy may be purchased for the
witness to review and sign, or the deponent
15 and/or counsel may waive the option of
signing. Please advise us of the option
selected.

16 Please forward the errata sheet and the original
signed signature page to counsel noticing the
deposition, noting the applicable time period
17 allowed for such by the governing Rules of
Procedure. If you have any questions, please do
18 not hesitate to call our office at 202.232.0646.

19 Sincerely,

Digital Evidence Group

20 Copyright 2025 Digital Evidence Group

21 Copying is forbidden, including electronically,
22 absent express written consent.

Page 77

1 Digital Evidence Group, L.L.C.
2 1730 M Street, NW, Suite 812
3 Washington, D.C. 20036
202.232.0646

4

SIGNATURE PAGE

5 Case: Cirrus Logic, Inc., et al. v. Greenthread, LLC
Witness Name: Elizabeth Leach

6 Deposition Date: July 29, 2025

7 I do hereby acknowledge that I have read
8 and examined the foregoing pages of the
9 transcript of my deposition and that:

10 (Check appropriate box):

11 () The same is a true, correct and
12 complete transcription of the answers given by
13 me to the questions therein recorded.

14 () Except for the changes noted in the
15 attached Errata Sheet, the same is a true,
16 correct and complete transcription of the
17 answers given by me to the questions therein
18 recorded.

19

20

DATE

WITNESS SIGNATURE

21

22

DATE

NOTARY

1 Digital Evidence Group, LLC
2 1730 M Street, NW, Suite 812
3 Washington, D.C. 20036
4 202.232.0646

5 ERRATA SHEET

6

7 Case: Cirrus Logic, Inc., et al. v. Greenthread, LLC

8 Witness Name: Elizabeth Leach

9 Deposition Date: July 29, 2025

10 Page No. Line No. Change

11

12

13

14

15

16

17

18

19

20

21

22

Signature

Date

A	al 76:6 77:5 78:7	Atom 40:2,2,6,9	69:14,18	cadence 20:4
a.m 1:16 2:4	allowed 76:17	40:12 41:6,10	Bert 3:3 5:15	call 65:9 76:18
74:6 75:8	amp 49:22	41:14 42:2	best 32:19 65:12	called 25:20
ability 72:13	amplifier 49:17	43:19	better 46:12	capacity 6:22
able 58:2	53:1,4,13	attach 64:8	biggest 27:10	18:19 27:3
above-referen...	54:16	attached 77:15	billing 8:21 70:1	capital 30:12,12
76:11	amplifiers 30:4	attorney 75:15	billings 7:6,8,10	case 6:12,13,19
above-titled 2:3	48:1 53:20	75:15	13:8 22:21,22	76:6 77:5 78:7
absent 76:21	amps 30:7 31:20	Attorneys 3:4,15	23:19,22 24:4	catalog 32:9
AC 30:12	40:13 48:1,3,7	audio 55:3	31:7,9 32:17	caution 21:11
access 35:20	48:12	August 4:11	bit 27:1	center 38:10
accurate 73:16	analogue 30:15	52:3 53:22	board 1:3 21:9	Central 63:19
73:19 75:12	30:18	Austin 3:8	21:22 24:9,10	Certified 2:5,7
accurately 8:9	and/or 76:14	Avnet 13:15	24:10	75:5,5
accused 9:5	answer 21:14	14:6,11	board's 22:5	certify 75:6,14
42:11 43:2,16	35:15 41:18	aware 11:8	boards 18:17,18	cetera 16:7
45:6 60:16	46:6 50:5,13	20:10 26:4,7	24:7,15,17,20	chance 72:2
62:14 65:6	61:10,18 67:5	28:10,14 32:21	25:4 26:16	Change 78:10
66:12,17 67:2	67:19 69:9,18	33:19 34:14	40:21 54:9	changes 77:14
67:15 69:11	69:19 70:3	36:7,10,11	bottom 38:10	chat 10:16 51:17
70:7,13,16	answering 60:20	37:15,19 48:4	39:14 52:9	51:19
acknowledge	answers 77:12	53:5,19 54:14	58:7 59:9	Check 77:10
77:7	77:17	54:22 56:8	box 77:10	checking 23:16
action 2:3 75:16	apologize 45:21	62:10 63:3	Brandon 3:14	chip 24:11,13,13
75:16	58:22	65:1	5:13	49:12
actively 15:22	APPEAL 1:3	B	break 8:4,5,6	chips 24:14,16
activities 47:2	appearance 5:9	B 4:9 32:5	50:21 63:17,18	24:19 25:1,6
actual 16:8	APPEARING	back 39:5 42:4	briefs 20:21 21:3	26:17 27:2,4
administration	1:14	51:4,7 52:16	brought 59:18	40:19,20 41:1
13:4,6 14:5,9	Apple 27:12	63:18 64:1	60:7,18	41:6 54:16
advise 76:14	28:12 48:7,12	Barrett 3:22 5:5	building 49:8,10	67:10
advised 76:11	51:9	5:17 9:21	business 4:12	circuit 40:21
affiliates 33:18	applicable 76:16	based 45:5 59:20	16:2,3 44:8,9	Cirrus 1:5 3:22
34:1,7,10,14	appropriate	basic 7:16	44:11,18 45:10	4:13 5:16,18
67:17 68:6	77:10	basically 24:10	45:12,15 52:3	9:22 12:14,16
ago 6:15,17 9:14	approximately	basis 15:3 19:20	54:14,19	13:2,13,20
9:18 10:20	2:4	20:2 26:22	buyer 59:19,21	14:10 15:5,9
agree 56:22	Article 4:12 52:3	55:14	60:7,16,18	15:10,18,20,22
agreement 25:21	Asian 35:6	Bates 4:11,13	C	16:2,4,13,16
55:6	asked 11:4 22:10	52:2 57:15	C 3:1	17:6,11,16
agreements	45:21 66:3	behalf 2:2 5:12	c/o 76:1	18:2,5,8,11,15
55:16,18,21	67:14 68:11	30:1	C2308 40:2,6,9	19:3,19 20:1
56:2,5,7,10	69:8,9 71:13	believe 8:8 18:10	40:12 42:2	20:11 21:4
ahead 27:18	aspect 36:22	22:7 31:11	C2316 41:10	22:10,15 23:12
aimed 53:15	associated 9:2	38:5 47:1	C2338 41:14	23:16 24:4
	assuming 30:11			25:3,8,11,14

25:19 26:2,5,8 26:12,14,17 27:2,8,10 28:2 28:8,17,21 29:4,9 30:2,8 30:19 31:3,10 31:13,21 32:2 32:19,22 33:10 33:13,17,21 34:6,9,13,15 34:16,21 35:3 35:5,13,15,18 35:21 37:1,4,9 37:16 40:12,13 41:11,15 42:1 42:9,19,22 43:15 44:14 45:5,10,13,16 46:8,11,14,15 46:19,19 47:3 47:8,11,12,14 47:19 48:2,3,6 48:11,17 49:2 49:3,5,11,16 49:19 51:9,12 51:14 52:17 53:6,19 54:15 54:19,22 55:5 55:10,17 56:14 56:21 57:16 58:12 59:17,21 60:8,16,17,21 62:9,14,22 63:1,9,12,13 64:5,21 65:3 66:4,8,12,16 67:1 69:10 70:6 71:1,6 73:4 76:6 77:5 78:7 Cirrus's 68:12 68:22 69:1 claim 59:20 claims 57:1 60:9 clarify 7:19 39:10	close 63:17 codec 53:1,13 codecs 30:5,22 31:1,3,10,13 31:20 40:13 53:9 54:16 colleague 5:13 combination 34:10 come 76:12 comfortable 60:10,19 commencing 2:4 75:8 commented 71:21 72:10 comments 72:11 72:12,13 73:12 communicate 37:4,9,16 45:18 communicates 37:19 46:2 communication 37:13 companies 7:12 15:19 28:11 company 28:3,6 34:18 compensation 57:11 complete 12:2,6 75:12 76:11 77:12,16 completing 16:20 component 43:1 43:5,16 70:7 components 42:1 45:6 composed 40:17 computer 27:12 concluded 74:5 conditions 4:14 55:7,11,13 56:14,18,22	57:16 58:12 63:7,8,14 conducting 22:8 confidential 1:13 27:19 confirm 65:9 confirmed 73:15 connection 10:4 11:5 12:9,16 14:1 16:9 17:3 19:14 20:6,22 21:4 23:22 24:20 29:20 37:1,5,10,17 45:2 50:1 55:18 65:4 Connor 61:1,2,5 62:2 Connors 12:11 12:12,20 61:15 64:20 consent 76:21 consider 34:9 constructed 41:7 contact 17:2 19:14 40:11 65:2 73:2 contacted 10:17 11:1 contains 40:12 contract 49:6,7 49:9 conversation 57:3 60:11 61:4,8,16 conversations 21:12 converters 30:15 30:19 copy 10:11 22:4 38:2 76:13 Copying 76:20 Copyright 76:20 corner 38:10 39:14 52:9 58:7	correct 7:20 8:14 10:1,2 17:3,4 18:3,6 20:12 23:8,9 31:21 31:22 40:17,21 42:16 43:12,13 45:8 46:21 47:12,16 50:5 50:10,18 51:10 53:9,10 54:1,2 59:4,15 62:4 62:17 64:6,10 64:11,13,14 66:10,14,15,19 67:13 68:8 69:20 70:18 71:19 72:22 73:1,4,5,14,20 77:11,16 correctly 17:15 counsel 5:2,8 9:21,22 12:13 21:8,21 75:15 75:16 76:14,16 country 60:1 COUNTY 75:3 couple 24:14,15 71:1 court 3:17 7:1 75:5 76:3 cover 20:15 38:5 Crescent 3:17 76:3 CS35L56 52:22 53:4,12,20 71:2 CS42L43 53:1 53:13 71:2 CSR/RMR/C... 75:22 CSR/RMR/C... 1:19 2:5 75:4 cumulative 9:17 cumulatively 12:5 current 13:1	26:8 44:15 currently 42:10 custom 32:22 33:4,10,13,16 customer 26:12 27:7,11 33:6 49:6,15,15 51:12,14 57:10 69:2 customer-by-c... 55:14 customers 15:20 16:14 18:3,6 29:18 33:15 37:5 44:12 47:18,21 48:2 48:6,11 50:15 51:8 57:1 68:20 customers' 37:10
D				
D 4:1 30:12				
D.C 77:3 78:3				
DAC 49:20,22				
DACs 30:4,11 31:20 40:13				
daily 19:20 20:2				
Dallas 3:18 76:4				
data 7:11 14:21				
date 58:21 76:7 77:6,20,22 78:9,22				
dated 10:22 53:22				
day 75:8,17				
DC 1:21				
declaration 9:7 10:8,18,19,21 11:5,7,10,13 11:15,17 12:6 12:10,17,22 14:2 16:21 19:16 20:7,10 20:15,15 21:8				

21:21 22:2	24:15,16 33:15	documentation	entire 32:17	expand 27:1
24:1 28:16	40:17	8:21	35:14	Explain 27:2
29:20 36:19	Digi-Key 13:15	documents 10:3	entities 14:12	express 76:21
37:2 42:4	14:6,11	10:6 25:18	28:12 35:6,21	extent 59:19
43:15 44:21	digital 1:20	doing 69:2	46:18 48:12	61:16
45:2 54:5	30:14,18 76:19	download 51:22	51:9	
55:19 61:12,17	76:20 77:1	draft 11:14	entitled 10:18	F
61:21 62:6,11	78:1	drafted 73:16,19	59:14	fab 28:11 50:16
64:9,12,16,19	Diplomate 2:7	Duane 3:5 5:15	entity 35:4 48:7	fabless 28:2,5
65:10 71:14,18	75:5	duly 6:2 59:21	errata 76:15	30:2
71:21 72:10,16	direct 16:13 20:9	75:10	77:15 78:5	fabricators 30:2
73:11,13	directly 16:16	E	Esq 3:22	fabs 28:8,17,22
defend 59:18	17:17 18:3,9	E 3:1,1 4:1,9	ESQUIRE 3:3	29:3,9,15,17
60:7,17	18:12,16 19:4	e-mail 65:8	3:13,14	30:8,19 36:4,5
definition 33:4	19:12 24:5	earlier 14:12	established	36:12,15,20
definitive 46:6	29:16 45:18	16:11 34:5	43:10	45:16 50:9,14
69:9,19 70:3	46:19 47:12	36:6 46:15,21	et 16:7 76:6 77:5	68:12,19 69:1
Dell 51:14	59:21 66:5,8	50:4 51:8 66:4	78:7	fact 36:17
demonstrates	66:13	66:22 67:14	European 60:1	fair 66:11,16
24:11,12	discovery 21:9	68:11 69:8	evidence 1:20	68:22 71:20
deponent 76:8	21:22 22:5	70:20 72:19	70:15 76:19,20	73:15
76:12,13	discussed 17:1	Ease 52:17	77:1 78:1	familiar 33:8
deposed 6:8,22	36:6 47:11,14	easier 8:1 10:15	examination 4:2	53:9 56:13
deposition 1:13	51:8 64:4	EDI 14:19,20	6:5 66:1 72:7	far 19:7
2:1 6:16 7:5,8	discussion 70:22	15:2 47:7	73:7 74:5	felt 72:3
7:14,15,17 8:1	distributing	Eileen 1:19 2:5	examined 6:4	financial 15:6
8:10,17,18	46:18	6:2 8:1 75:4,22	36:1 75:9 77:8	23:11 28:22
9:11 10:4	distributor 16:6	either 14:18	example 29:22	47:3
56:19 75:7,12	17:19 48:21	57:10 68:7	35:2 48:1	financially 75:16
76:7,16 77:6,9	63:13	70:1	Excel 7:9	find 31:17 46:5
78:9	distributors	electronic 14:21	exchange 14:21	49:2 56:3 65:3
design 53:15	13:12,13,17,18	electronically	exhibit 4:11,13	70:15 73:2
designate 27:18	13:19 14:1,6	76:20	9:6 10:11 12:2	first 10:17 20:14
designers 53:15	14:11,15 15:10	Elizabeth 1:13	22:9,12,17	38:9 40:1 42:9
designs 55:2	16:10 17:2,6	2:1 4:3 6:1	23:7,18 31:15	52:21 59:17
69:2	17:11 18:6,12	10:19 20:16	32:5 38:3,6,9	five 11:21 20:16
details 18:20	18:16,22 24:6	75:7 76:1,8	38:11 39:9,19	flow 17:22
determine 22:10	25:3,11 34:4,6	77:5 78:8	41:20 42:12,16	follow-up 65:19
23:11 28:16	45:13 46:14	employee 75:15	46:8 51:16,18	73:10
30:7,18 31:3,6	47:7,15 48:18	75:15	51:19 52:2,7	follows 6:4
32:12 33:21	56:7,10	enforceable	52:10 57:13,14	forbidden 76:20
determining	district 7:1	59:22	57:15 58:8	forecasting 13:9
22:15	document 10:16	engineers 19:19	63:8 66:13	13:10
development	38:13 57:21	37:4,9,16	67:16 70:8,19	foregoing 77:8
37:6,11,18	58:3,11,16,18	entail 13:5	72:22	form 41:3 66:20
different 24:14	59:6 72:14		exhibits 22:16	68:9 69:5,15

73:21 formed 33:22 Fortuna 3:7 forward 76:15 foundation 69:16 foundries 28:8 28:11,17,22 29:4,9,15,17 30:8,20 36:5,5 36:12,15,21 45:16 50:9,14 68:13 69:1 foundry 50:17 front 22:1 38:3 38:14 froze 38:21 frustration-free 55:2 full 52:21 53:11 funnel 13:10 further 22:14 23:15 65:16 72:5 73:6 75:14	64:21 Google 27:16 28:12 49:10 51:10 gotten 27:20 governing 76:17 Great 38:8 74:2 Greene 3:3 4:5,7 5:6,7,15,15 9:21 21:11 27:17 41:3 50:11 61:9 65:18 66:2,21 68:10 69:7,17 72:5 73:8,22 74:2 Greene@duan... 3:10 Greenthread 1:8 5:12 6:20 7:1 20:22 38:11 52:10 58:8 76:6 77:5 78:7 Group 1:20 76:19,20 77:1 78:1	helping 53:15 Helps 52:17 hereunto 75:17 hesitate 7:19 76:18 HIFI 53:1,13 history 32:18 hour 8:5 9:12,16 12:4,7 50:21 75:8 huge 10:15	57:8 60:8 61:17 62:6,8 62:19,21 63:1 indicate 31:9 indirectly 66:17 Industry 52:17 information 14:14,16,17,18 15:5 47:7 48:14 54:3 57:11 62:3 informed 20:10 21:8,21 infringe 59:21 infringement 57:2 60:9,17 62:13 input 72:16 installed 44:14 instruct 61:9 INSTRUMEN... 1:6 Intel 9:5 16:17 17:6,11,17,20 18:8,9,12,16 18:22 19:4,9 19:12,14,19 20:2,4 22:18 22:22 23:2,5,6 23:13,18,20,22 24:5,5 25:3,9 25:12,15,19 26:3,6,9,12,15 26:18 27:3,7 28:12,19 29:16 30:9,20 31:4 31:10,13 32:3 32:3,13,17 33:11,18 34:2 36:14 37:17,20 40:2,2,6,9,11 40:11,12 41:6 41:9,10,13,14 42:2,11,16,20 42:20 43:1,2 43:16,16 45:6	45:6,18 46:2,4 46:5 47:19 48:7,12 49:10 50:8 53:14,20 54:8,16 55:1,1 56:2,5,7,11 62:8,12,14,18 62:21 63:9,12 64:22 65:4,9 65:12 66:5,9 66:12,13,17,18 67:2,15,16 68:3,4,6 69:9 69:11,11,19 70:7,13,16 71:7,9 72:21 73:2 Intellectual 59:15 inter 20:11 interested 75:16 interface 19:8 52:18 interfaces 19:12 26:6 65:3 internally 14:4 41:22 65:2 investigate 17:5 17:10 29:19 31:12 32:1,16 36:18,22 49:22 50:16 56:9 62:18 68:16,17 investigated 50:7 54:4 68:12 investigation 12:3 16:20 17:3,7,12 19:15 20:6 22:9,14 23:15 28:15 30:6,17 31:2 32:11 33:20,22 36:2 37:22 40:9 42:19 50:1,17
G	H	I		
general 55:15 generally 61:15 getting 63:17 give 29:22 35:2 46:5 48:15 51:17 given 27:19 77:12,17 global 34:20 35:3,5,21 globally 34:15 34:18 35:6 go 27:18 38:22 39:2 52:16 going 50:20 51:16 57:12 60:3 61:9,13 67:10 good 6:7 50:22	H H 4:9 half 9:12,16 happens 16:4 Hejny 3:13 4:4,6 5:4,11,11 6:6 21:18 27:21 28:1 38:21 39:2,7 41:5 50:12 51:6 52:6 57:12,18 62:1 63:16 64:3 65:16 66:4,20 68:9 69:5,8,15 70:20 71:13 72:8 73:6,21 74:1 held 2:3	idea 54:11 identified 9:6 16:9 47:15 51:9 54:8 70:10 identify 15:20 16:1,3,6 17:21 24:3 25:2 31:7 49:7,14 important 27:7 in-house 5:17 8:19 9:10,22 12:13 13:8 include 13:15 41:2,15 46:8 55:6,11 73:3 included 30:9,20 31:4,14 32:3 32:13 42:2 43:20 53:14 65:13,13 67:2 70:6 includes 32:9 41:10 including 68:3,4 76:20 incorporated 1:5 1:5,6 47:8 indemnification 59:15 60:22 62:13 indemnify 57:1 indemnity 57:6		

56:11 71:10 investigations 64:5 involved 6:19 20:11 75:16 IPR 20:18 21:1,4 21:9,22 IPR2024-00017 1:9 IPR2024-00018 1:10 IPR2024-00019 1:10 IPR2024-00020 1:11 IPR2024-00021 1:11 issue 29:19 57:9 issued 59:22 issues 60:22	66:12 67:7,15 67:22 70:5 knowledge 62:12	23:17 31:14 40:1 41:19 42:15 43:18 46:7 61:21 72:21 litigation 7:2 little 27:1 Liz 61:13 LLC 1:8 76:6 77:5 78:1,7 LLP 3:5 Loan 13:16 located 35:6,8 36:5,8,9,13 locations 34:15 34:16,21 35:3 logged 23:10 Logic 1:5 3:22 4:14 5:16,18 12:14,16 13:2 13:20 14:10 15:9,11,20,22 16:2,4,13,16 17:16 18:2,6,8 18:11,15 19:3 19:19 20:1,11 21:4 22:10,16 23:12,17 24:4 25:3,8,14,19 26:2,5,12,14 26:17 27:2,8 28:2,9,18,21 29:4,9 30:2,8 30:19 31:3,10 31:13,21 32:2 32:22 33:10,13 33:17,21 34:6 34:9,13,15,16 34:21 35:3,5 35:13,16,18,21 37:1,4,9,16 40:13,13 41:11 41:16 42:1,10 42:19 43:1,15 44:14 45:5,13 45:16 46:8,11	46:14,15,19,19 47:8,12,12,14 47:19 48:2,3,7 48:12,17 49:2 49:3,5,11,17 49:19 51:9,12 51:14 52:17 53:6,19 54:15 54:19,22 55:5 55:10,17 56:14 57:16 58:12 59:18,21 60:8 60:16,17,21 62:9,14,22 63:2,9,12,13 64:21 65:3 67:1 73:4 76:6 77:5 78:7 Logic's 13:13 15:5,18 17:6 17:11 25:11 26:8 27:10 32:19 45:10 47:3 56:21 64:5 long 6:15 9:9 12:2,5 13:16 13:17 look 16:19 37:14 37:21 70:19 looked 23:1 70:12 looking 39:16 looks 54:18 lose 38:20 lower 30:12	manufactured 30:1,8,19 manufacturer 49:6,7,9 manufacturers 30:3 manufacturing 37:1 69:1 marked 52:4 57:17 market 46:11 49:17,20 matter 7:4 27:19 76:11 McKool 3:16 5:11,13 76:2 mean 15:15 26:20 28:5 29:11 43:5,7 44:9 57:8 means 57:6 meet 9:9,13 meeting 9:18 mentioned 14:12 15:13 16:11 20:9 34:5 46:15,20 47:1 53:8 54:7 71:1 mentions 53:12 Merit 2:6 75:5 Merrill 3:14 5:13 met 8:18 9:14 Michael 3:22 5:17 Michele 12:11 12:12,20 61:1 61:15 64:20 migration 53:16 55:3 minutes 63:18 MIPI 52:18 Model 9:1 23:1 43:18,22 44:3 44:5,6,7,13,20 45:2,4,9 47:4,5	
J	Japan 35:10,16 60:1 job 13:5 19:8 45:19 judge 8:13 July 1:15 2:3 10:22 75:8,17 76:7 77:6 78:9 June 11:2 jury 8:13	leading 66:20 68:9 69:6 73:21 led 19:15 left-hand 58:7 legacy 44:17 legal 8:19,19 9:10 11:6,12 11:22 12:9 34:11 57:3 60:10 Lestina 13:15 let's 39:2 63:17 63:18 70:19 letters 20:17 liaison 46:4 limited 27:5 Line 78:10 list 10:9,10 11:7 12:1 13:16,17 23:21 40:5,8 43:11 72:20 listed 20:17 22:1 22:11,17 23:7			
K	Kaga 13:15 kinds 31:7 Kingdom 60:1 know 7:18 8:6 18:20 19:18,22 25:22 29:14 36:17 41:6 42:1 44:22 48:5,10 49:8 52:1,14 56:21 57:21 58:2 63:4,5,6 65:12				
			M		
			M 1:21 77:2 78:2 M-O-D-E-L 44:5 manage 13:11 manager 13:3,6 14:5,9 manufacture 28:7,9		

54:4,12 64:5 67:9,12 70:1,9 70:12,17 71:11 Mono 44:4 month 10:20 morning 6:7 8:10 Morris 3:5 5:16 Mouser 13:15 Mulvenna 1:19 2:5 6:2 75:4,22 N N 3:1 4:1 9:1 23:1 43:18,22 44:3,4,7,13,20 45:2,4,9 47:4,5 54:4,12 64:5 67:9,12 70:1,9 70:12,17 71:11 N.W 1:21 name 6:18 34:19 44:1 73:18 77:5 78:8 names 43:19 nature 68:18 need 8:4,6 50:5 needed 72:3 neither 43:18 never 42:10 43:1 43:11,15 45:5 62:12 72:20 new 2:8 6:3 44:11 48:16 52:18 53:16 55:3 75:1,6 Notary 2:8 6:3 75:6 77:22 noted 77:14 notes 75:11,13 noticing 76:16 noting 76:16 number 20:11 27:4 39:19 numbering 39:14	numbers 4:11,13 52:2 57:15 NW 77:2 78:2 O oath 8:13 17:16 Object 41:3 objection 27:21 50:11 66:20 68:9 69:5,15 73:21 occasionally 26:19,20 OEM 25:20,21 26:2 office 1:1 76:12 76:18 Oh 44:6 Okay 7:16,19 8:4,6 10:21 38:8 39:16,17 44:6 47:5 48:1 48:22 51:18 52:5 57:19 58:7 59:11 61:20 63:20 74:3 OMNIVISION 1:5 once 6:11 9:14 16:3 27:5 open 57:22 58:2 opportunities 9:2 23:1 43:17 44:8,10,12,18 45:10,12,15 opportunity 9:1 43:20,21,22 70:2,9 option 76:14,14 order 22:5 ordered 21:9,22 22:6 orders 16:7 original 76:15 OSATs 68:19	outside 9:21 31:20 34:4 46:14 50:9 overseas 36:9,13 Owner 1:8 3:15 P P 3:1,1 P.C 3:16 76:2 page 4:2,10 10:22 20:14,15 38:9,11,13,14 38:15,17,19 39:8,10,11,11 39:11,13,15,17 39:20 42:5 52:10,16 58:9 59:8,10 76:16 77:4 78:10 pages 38:6,7 41:19 42:11,15 46:7 52:13,14 77:8 papers 20:22 paragraph 42:6 52:21 62:16 parameters 7:17 part 8:20 15:10 16:19 17:7,12 19:8 28:15 33:22 34:18 36:1,18,20 37:21 40:9 41:2 45:19 50:17 56:11,18 partes 20:12 particular 7:12 parties 6:19 15:22 68:13 75:15 parts 8:20,22 9:3 9:4 13:20 15:22 16:1 28:7 29:10,12 32:10,12,15 40:5,8,17	41:11,15 43:11 68:2 71:1,9 72:3,20 party 48:22 49:3 pass 65:17 73:22 patent 1:1,3,8,9 1:10,10,11,11 3:15 6:13 57:1 60:2,9,16 62:13 Pause 39:4 PC 52:17 PDF 59:9 performed 20:7 period 76:16 person 12:19 75:16 pertains 61:11 Petitioners 1:6 2:2 3:4 piece 43:9 plan 8:2 please 5:8 7:19 21:15 76:11,14 76:15,17 point 27:17 points 7:11 portfolio 29:13 29:16 35:14 portion 43:6,7 62:5 position 44:15 potential 44:11 preparation 11:5 12:9,16 12:21 14:1 19:15 28:16 36:18 37:2 54:5 55:18 56:18 71:14 prepare 8:16 9:10 20:7 preparing 7:13 10:18 21:7,20 PRESENT 3:22 press 71:5	pricing 16:7 Primarily 7:6 prior 42:18 75:9 probably 10:20 32:9 47:20 problem 58:5,22 Procedure 76:17 proceeding 59:18,19 60:7 60:18 proceedings 20:12,17 21:1 21:5,10 22:1,6 process 16:6 37:14 70:12 processor 41:10 42:2 processors 23:7 23:12,17 40:2 40:16 41:15,19 42:16,20 43:11 72:21 product 19:3,3,5 19:6,7 29:13 29:15,18 32:9 32:20 33:4,5,7 35:14 36:16,21 37:5,10,11,11 37:17,18 40:1 43:16 48:17,22 49:3,6 50:7 53:6 54:11 55:10 60:16 62:9,15 63:2 63:12 73:4 products 9:5 10:9,10 11:7,9 12:1 15:11 17:6,11,17,19 18:8,11,15,21 22:11,17 23:5 23:7 24:3 25:2 25:9,12,14 26:6,14 28:9 28:12,18,18 29:3,8 30:1,5,9
---	---	---	--	---

30:20 31:4,8 31:14,20 32:2 32:3,7,13 33:1 33:10,14,16,17 33:21 34:1 35:12 36:13 40:14 42:11,15 43:2,6,8,9,18 45:6 46:7,8,11 46:19 47:12,15 47:19,22 54:8 55:6 56:15 59:20 60:8 62:9 65:6,14 66:4,8,13,17 67:2,3,16 68:13,20,21 69:11 70:6,7 70:13,16 71:6 73:3 project 43:19 projects 67:10 Property 59:15 provide 7:7 14:16,17,18 23:21 26:5,15 26:17 34:1 45:1 55:1 57:10 72:13 provided 8:20 22:4,9 24:18 26:22 27:2,5 32:5 62:3 providing 53:20 54:15 PTAB 21:9,22 Public 2:8 6:3 75:6 pulled 32:17 purchase 47:19 48:3 63:12 purchased 76:13 purchaser 63:1 purchasing 49:15	Q quantities 27:6 question 21:14 21:17 25:16 26:10 29:6 37:7 41:4 45:22 46:13 48:8,16 55:8 60:20 67:20 questions 7:18 61:18 62:3 65:16 72:6 73:6 76:17 77:13,17 queue 69:3 quick 73:9 R R 3:1 reach 41:9,13 46:5 read 59:5 60:3 77:7 reading 71:5 ready 76:12 Realtime 2:7 75:5 reason 8:8 recall 6:18 16:22 17:15 22:3 24:22 58:20,21 66:3,7,22 67:14 68:11 71:15 receive 15:1 33:16 received 52:4 57:16 62:20,22 Recess 51:3 63:22 record 5:10 8:1 39:1,2,6 51:2,3 51:5 63:21,22 64:2 74:4 recorded 77:13 77:18	records 35:20 36:1 45:1 54:4 54:12 64:9 refer 39:18 reference 9:6 18:17,18 24:7 24:9,10,17,20 25:4,20 26:16 44:20 53:14 54:9 55:2 references 52:22 referring 9:5 24:13,21 25:22 39:12,13 48:1 reflected 61:17 regarding 7:8 8:22 22:5 60:22 62:14 67:1 73:11 region 15:19 Registered 2:6,7 75:5,5 regular 25:8 26:22 regularly 25:12 65:3 related 11:9 14:15 25:18 54:19 60:22 62:6 relates 60:7 relationship 25:19 26:9 34:22 36:20 64:22 68:18,21 relationships 13:11 34:12 relative 75:14,15 release 54:19 71:5 remember 59:3 69:12 REMOTE 2:1 remotely 1:14 5:3 repeat 17:8	18:13 21:16 29:5 rephrase 14:7 25:16 26:10 37:7 48:8 55:8 reported 1:19 75:7 Reporter 2:6,6,7 2:8 5:1,6,8 38:20,22 39:5 51:2,4 63:21 64:1 74:3 75:5 75:5,5,6 reporting 13:9 reports 14:22 represent 5:9 representative 15:19 representatives 20:1,3,6 reps 13:12 15:14 15:16,21 16:10 request 62:14,19 62:20 63:1 75:13 requested 62:8 research 7:13 resell 13:20 15:10 resellers 46:16 46:20 47:2 responsible 13:7 rest 60:3 results 23:3 reveal 21:12 revealing 21:14 revenue 13:8 review 9:1 11:6 11:17 20:12 24:4 55:17,22 56:17 75:13 76:13 reviewed 7:9 8:20,21 22:21 23:19 43:17 56:1 71:20	72:13 reviewing 72:16 revise 72:2 revised 72:3 revisions 73:13 right 30:12 38:10 49:14,14 58:15 65:18 66:18 73:9 right-hand 38:10 39:14 52:9 role 13:1 room 5:17 9:22 10:4 roughly 34:5 Rules 76:17 S S 3:1 4:9 30:12 sale 44:12 55:10 56:14,18,22 58:12 63:7,14 sales 7:6,8 8:22 11:8 13:3,6,8,9 13:10,12 14:5 14:5,9,10,15 14:22 15:7,14 15:15,17,21 16:6,7,8,10,13 17:22 18:2,5 20:1,3,5 28:21 35:20 37:5,11 37:17 46:1 47:2,9,11,14 49:12 50:1,7 50:17 55:5,6 55:16,17,21 56:1,4,7,10 63:8 Samsung 49:10 SAP 7:10 22:22 70:1 71:11 says 20:15 38:11 39:15 42:9 52:10 53:11
--	---	---	---	---

58:8 59:9 scalable 55:2 scenario 48:15 Scott 3:13 5:11 27:17 searches 64:9 second 39:3 51:17 57:20 section 59:12,14 60:13 see 20:19 23:16 40:3 42:13 43:3 51:20 52:11,19 53:2 53:17 54:20 57:21 58:1,13 58:18 59:12 60:4 62:16 71:3 seen 20:21 21:3 25:18,20 40:5 43:11 52:7 58:15 59:2 72:20 selected 76:15 sell 15:22 16:1 16:16 17:6,11 17:19 18:8,12 18:16,17,22 23:4 28:12,18 29:16 33:10,13 33:17 36:15,21 46:16 48:6,11 49:5 50:14 66:12,17 68:1 68:5,6,13,19 68:21 selling 29:18 32:19 sells 17:16 48:17 48:21 66:4,8 semiconductor 28:3,6 semicustom 33:1 33:7,8 send 14:22	sense 39:21 sentence 42:9 52:22 53:12 59:17 60:4 separate 55:16 set 16:5 75:17 sheet 38:5 76:15 77:15 78:5 shejny@mcko... 3:20 short 63:16 shorthand 2:6 75:11,13 show 67:12 70:16 showed 70:20 showing 57:19 shown 54:3,12 67:8 69:22 71:10 sign 12:6 76:12 76:13 signature 75:17 76:12,16 77:4 77:20 78:22 signed 11:18 72:14 73:18 76:16 significance 25:7 signing 72:17 76:14 Sincerely 76:19 Singapore 35:10 35:13 sit 17:15 18:20 small 27:4 smart 52:22 53:1 53:4,12,13,20 54:15 Smith 3:16 5:11 5:14 76:2 smooth 53:16 sold 19:4,5,6 22:11,16,17 23:12,17 24:5 24:8 25:3 31:8	31:10,13,21 32:2 33:6,22 35:13 36:13 41:11,15 42:10 42:19 43:1,15 45:5 49:3,17 49:20 54:8 67:16 69:10 71:6,9 Sony 51:12 sorry 44:2 sound 8:2 26:5 50:22 SoundWire 52:18 SoundWire-re... 53:14 55:1 speak 7:21 12:8 12:15,18 13:22 20:5 60:21 specific 18:21 19:2 21:12 24:19 25:1 58:21 61:11 69:2 73:12 specifically 30:21 33:5 67:3 specification 53:16 specifications 55:3 spoke 12:19 spreadsheet 7:9 14:19 spreadsheets 15:2 47:7 ss 75:2 staff 15:18 standard 55:6 55:11 56:13,22 63:7 Star 13:16 start 48:16 started 44:15 state 2:8 5:8 6:3	42:22 43:14 75:1,6 statement 45:5,7 statements 61:11 states 1:1 36:9 59:17,22 60:4 62:12 stipulate 5:2 stops 49:13 Street 1:21 77:2 78:2 subject 7:4 27:19 63:14 submitted 20:22 21:3 subsidiaries 34:7 34:10,14 substance 60:12 61:7 64:15,18 65:9 71:21 substantive 72:15 Suite 1:21 3:7,17 76:3 77:2 78:2 supplied 59:20 supplier 25:8,21 26:2 supply 25:12,21 25:21 sure 7:3 11:8 14:8 16:18 17:9,14 18:14 18:19 20:4 21:19 25:17 26:11 27:21 29:7 34:11 35:11 37:8 48:9 55:9 58:5 58:22 66:8 suspect 42:18 swear 5:1 sworn 5:3,19 6:2 75:10 system 7:10 8:21 9:1 15:6 22:22 23:1,11 29:1	43:18,20,21,22 44:13,17,21 45:2,4,9 47:4,5 47:6 64:6 67:9 70:1,2,9 systems 13:8,9 13:10,10 47:3 T T 4:9 Taiwan 35:10,18 take 8:5 12:2,6 50:21 57:20 63:16 taken 75:13 talked 61:14 talking 32:7 59:1 targets 16:9 team 8:19,19 9:10 11:6,13 11:22 12:9 15:5,17 19:11 46:1 teams 37:10 TECHNOLO... 1:5 tell 19:4 23:3 31:1 Telsys 13:16 ten-minute 50:21 tendered 62:13 term 33:9 69:10 terms 4:14 55:7 55:11,13 56:14 56:17,22 57:16 58:12 63:7,8 63:14 Terrace 3:6 testified 6:4 71:17 72:9,19 testify 8:9 61:14 75:10 testifying 8:12 17:16 66:7,22 testimony 7:5,7
--	---	--	--	--

65:10 67:11 68:15 Texas 1:6 3:8,18 76:4 thank 10:14 think 17:1 38:21 43:10 63:17 69:9 72:19 74:1 thinking 17:18 third 15:22 48:22 49:3 68:13 third-party 13:12 14:6,11 15:6,13,15,18 15:21 16:9 28:22 29:9 30:2 36:4,12 56:6,10 thousand 32:10 three 52:13,14 time 74:5 75:13 76:16 times 6:10 11:20 title 52:17 58:11 today 10:1 17:15 18:21 Topaz 13:16 total 9:17 track 14:4,10 15:6 28:21 44:7 45:9,12 45:15 47:8 48:14 67:9 tracked 47:3 49:12 tracking 9:1 49:13 tracks 44:17 TRADEMARK 1:1 transcribed 75:11 transcript 27:18 75:12,14 76:11	76:13 77:9 transcription 75:12 77:12,16 Transition 52:18 transmission 14:19,20 transmissions 15:2 transmit 16:7 TRIAL 1:3 true 75:12 77:11 77:15 truth 75:10,10 75:10 truthfully 8:9 try 7:21 8:5 65:9 trying 17:21 49:12 turn 38:17 42:5 48:6,11 59:8 turning 42:4 type 6:12 types 18:18 29:3 29:5,8 30:1 35:12 typewriting 75:11 typewritten 75:12 typically 47:2	63:11 Union 60:1 unit 54:15 United 1:1 36:8 59:22 60:1 upload 15:5 51:16 57:12 uploaded 51:18 57:19 uploading 10:15 use 24:11,12 26:6 uses 28:18	75:3 whatsoever 70:16 WHEREOF 75:17 wide 30:5 31:19 32:2,6 Wire 4:12 52:3 54:19 witness 2:2 4:2 5:2,3,19 21:11 21:16 52:5 61:10,20 63:20 65:17 73:22 75:7,9,17 76:13 77:5,20 78:8 wording 11:14 words 61:13 work 15:19 19:19 20:1,4 28:9 57:10 worked 11:6,12 11:22 working 55:1 58:4 64:21 wouldn't 36:11 65:12 73:18 write 11:10 62:5 64:12,15 71:18 written 76:21 wrote 64:18	Z 0 1 1 38:7,11 52:10 52:16 58:9 1,000 32:12,15 10 59:12 60:13 63:18 10:44 74:6 11 58:9 59:8,9 11,121,222 1:11 11,121,222)4 1:11 11,316,014)3 1:10 1730 1:21 77:2 78:2
U U.S 36:13 Uh-huh 18:1 49:1 UK 35:4 understand 7:16 7:18 8:12 17:14 23:6 33:3 40:16,20 41:1 57:5 60:6 60:12 62:11 70:11 understanding 9:20 40:18 49:13 60:15	V v 1:7 76:6 77:5 78:7 vague 50:11 Vaguely 56:16 valid 59:22 variety 30:5 31:20 32:2,6 various 7:11 vary 55:13	W W 3:13 waive 76:14 Washington 1:21 77:3 78:3 wasn't 73:19 ways 46:10 we'll 8:4 63:18 we're 39:5,19 51:2,4 63:21 64:1 74:1,3 we've 13:16 47:11 50:20 website 58:19 weekly 15:3 weeks 9:14,18 Welcome 51:7 went 7:10 11:7 12:1 weren't 53:8 WESTCHES...	X X 4:1,9 Xiaomi 27:14 28:13	Y yeah 13:17 year 6:17 27:5 yesterday 9:15 9:18 York 2:9 6:3 75:1,6

57:15 58:8	8			
63:8	8 38:7,9,14			
21-megabyte	42:11,16 46:7			
57:20	8,421,195)1 1:9			
2100 3:17 76:3	812 1:21 77:2			
214.978.4000	78:2			
3:19	9			
2801 3:7	9 38:15			
29 1:15 2:3 76:7	9,190,502)2 1:10			
77:6 78:9	9:00 1:16 2:4			
29th 75:8,17	75:8			
2nd 53:22	9:34 63:19			
3	9th 10:22			
3 52:10				
3,000 47:20				
30 13:14 14:12				
34:4,5 46:15				
46:20 47:2,16				
300 3:17 76:3				
371 38:11,14,17				
39:11,15				
4				
4 42:11,15 59:8				
59:9,10				
5				
5 38:17,19 39:8				
39:11,15,17				
41:19 46:7				
512.277.2246 3:9				
52 4:11				
57 4:13				
6				
6 4:4 39:11 42:6				
66 4:5				
7				
7 3:6 41:19				
62:16				
72 4:6				
73 4:7				
75201 3:18 76:4				
78746-7567 3:8				