	Page
1	UNITED STATES PATENT AND TRADEMARK OFFICE
2	BEFORE THE PATENT TRIAL AND APPEAL BOARD
3	
	THE GILLETTE COMPANY,
4	
	Petitioner,
5	Patent No. 8,125,155
	IPR 2014-00477
6	vs. IPR 2014-00479
7	ZOND, LLC, INC.,
8	Patent Owner.
9	
10	
11	
12	
13	VIDEOTAPED DEPOSITION OF LARRY D. HARTSOUGH, Ph.D.
14	Berkeley, California
15	Thursday, February 12, 2015
16	
17	
18	
19	
20	
21	
22 23	
24	REPORTED BY:
25	TAVIA MANNING, CSR No. 13294, CLR, CCRR, RPR
40	JOB NO. 90257

DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>. Renesas Exhibit 1326 IPR2014-00782

	Page 2	Page 3
1	February 12, 2015	¹ APPEARANCES:
2	9:00 A.M.	2
3		³ FOR TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY,
4		4 LIMITED and TSMC NORTH AMERICA and FUJITSU:
5		5 HAYNES AND BOONE
6	Deposition of LARRY D. HARTSOUGH, Ph.D.,	⁶ BY: DAVID McCOMBS, ESQ.
7	taken on behalf of Petitioners at 200	7 2323 Victory Avenue
8	Marina Boulevard, Berkeley, California,	⁸ Dallas, TX 75219
9	before Tavia Manning, Certified Shorthand	9
10	Reporter No. 13294, Certified LiveNote	10
11	Reporter, California Certified Realtime	11
12 13	Reporter, Registered Professional Reporter.	12
13		13 14 FOR THE GILLETTE COMPANY
15		
16		 ¹⁵ WILMERHALE ¹⁶ BY: COSMIN MAIER, ESQ.
17		 ¹⁷ 7 World Trade Center
18		¹⁸ 250 Greenwich Street
19		¹⁹ New York, NY 10007
20		20
21		21
22		22
23		23
24		24
25		25
	Page 4	
	i age i	Page 5
1	APPEARANCES (CONTINUED):	¹ BERKELEY, CALIFORNIA;
2		 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M.
2 3	APPEARANCES (CONTINUED):	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. 3
2 3 4	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC:	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning.
2 3 4 5	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of
2 3 4 5 6	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ.	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of the videotaped deposition of Dr. Larry D. Hartsough,
2 3 4 5 6 7	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of the videotaped deposition of Dr. Larry D. Hartsough, Ph.D., in the matter of the Gillette Company versus
2 3 4 5 6	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of the videotaped deposition of Dr. Larry D. Hartsough, Ph.D., in the matter of the Gillette Company versus Zond, LLC, in the U.S. Patent and Trademark Office
2 3 4 5 6 7 8	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of the videotaped deposition of Dr. Larry D. Hartsough, Ph.D., in the matter of the Gillette Company versus Zond, LLC, in the U.S. Patent and Trademark Office before the Patent Trial and Appeal Board, Cases
2 3 4 5 6 7 8 9	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of the videotaped deposition of Dr. Larry D. Hartsough, Ph.D., in the matter of the Gillette Company versus Zond, LLC, in the U.S. Patent and Trademark Office before the Patent Trial and Appeal Board, Cases 2014-00477 and 2014-00479.
2 3 4 5 6 7 8 9 10	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of the videotaped deposition of Dr. Larry D. Hartsough, Ph.D., in the matter of the Gillette Company versus Zond, LLC, in the U.S. Patent and Trademark Office before the Patent Trial and Appeal Board, Cases 2014-00477 and 2014-00479.
2 3 4 5 6 7 8 9 10 11	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of the videotaped deposition of Dr. Larry D. Hartsough, Ph.D., in the matter of the Gillette Company versus Zond, LLC, in the U.S. Patent and Trademark Office before the Patent Trial and Appeal Board, Cases 2014-00477 and 2014-00479. This deposition is being held at 200 Marina
2 3 4 5 6 7 8 9 10 11 12 13 14	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of the videotaped deposition of Dr. Larry D. Hartsough, Ph.D., in the matter of the Gillette Company versus Zond, LLC, in the U.S. Patent and Trademark Office before the Patent Trial and Appeal Board, Cases 2014-00477 and 2014-00479. This deposition is being held at 200 Marina Boulevard, Berkeley, California, on February 12th,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue New York, NY 10118 Also present: Sean McGrath, Videographer	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of the videotaped deposition of Dr. Larry D. Hartsough, Ph.D., in the matter of the Gillette Company versus Zond, LLC, in the U.S. Patent and Trademark Office before the Patent Trial and Appeal Board, Cases 2014-00477 and 2014-00479. This deposition is being held at 200 Marina Boulevard, Berkeley, California, on February 12th, 2015 at approximately 9:00 a.m. My name is Sean McGrath from TSG Reporting, Incorporated, and I am the legal video specialist.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue New York, NY 10118	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of the videotaped deposition of Dr. Larry D. Hartsough, Ph.D., in the matter of the Gillette Company versus Zond, LLC, in the U.S. Patent and Trademark Office before the Patent Trial and Appeal Board, Cases 2014-00477 and 2014-00479. This deposition is being held at 200 Marina Boulevard, Berkeley, California, on February 12th, 2015 at approximately 9:00 a.m. My name is Sean McGrath from TSG Reporting, Incorporated, and I am the legal video specialist. The court reporter is Tavia Manning in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue New York, NY 10118 Also present: Sean McGrath, Videographer	 BERKELEY, CALIFORNIA; THURSDAY, FEBRUARY 12, 2015; 9:00 A.M. THE VIDEOGRAPHER: Good morning. This is the beginning of Disk Number 1 of the videotaped deposition of Dr. Larry D. Hartsough, Ph.D., in the matter of the Gillette Company versus Zond, LLC, in the U.S. Patent and Trademark Office before the Patent Trial and Appeal Board, Cases 2014-00477 and 2014-00479. This deposition is being held at 200 Marina Boulevard, Berkeley, California, on February 12th, 2015 at approximately 9:00 a.m. My name is Sean McGrath from TSG Reporting, Incorporated, and I am the legal video specialist. The court reporter is Tavia Manning in association with TSG Reporting.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue New York, NY 10118 Also present: Sean McGrath, Videographer	1BERKELEY, CALIFORNIA;2THURSDAY, FEBRUARY 12, 2015; 9:00 A.M.334THE VIDEOGRAPHER: Good morning.5This is the beginning of Disk Number 1 of6the videotaped deposition of Dr. Larry D. Hartsough,7Ph.D., in the matter of the Gillette Company versus8Zond, LLC, in the U.S. Patent and Trademark Office9before the Patent Trial and Appeal Board, Cases102014-00477 and 2014-00479.11This deposition is being held at 200 Marina12Boulevard, Berkeley, California, on February 12th,132015 at approximately 9:00 a.m.14My name is Sean McGrath from TSG Reporting,15Incorporated, and I am the legal video specialist.16The court reporter is Tavia Manning in17association with TSG Reporting.18Will counsel please introduce yourselves
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue New York, NY 10118 Also present: Sean McGrath, Videographer	1BERKELEY, CALIFORNIA;2THURSDAY, FEBRUARY 12, 2015; 9:00 A.M.334THE VIDEOGRAPHER: Good morning.5This is the beginning of Disk Number 1 of6the videotaped deposition of Dr. Larry D. Hartsough,7Ph.D., in the matter of the Gillette Company versus8Zond, LLC, in the U.S. Patent and Trademark Office9before the Patent Trial and Appeal Board, Cases102014-00477 and 2014-00479.11This deposition is being held at 200 Marina12Boulevard, Berkeley, California, on February 12th,132015 at approximately 9:00 a.m.14My name is Sean McGrath from TSG Reporting,15Incorporated, and I am the legal video specialist.16The court reporter is Tavia Manning in17association with TSG Reporting.18Will counsel please introduce yourselves19starting with the questioning attorney.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue New York, NY 10118 Also present: Sean McGrath, Videographer	1BERKELEY, CALIFORNIA;2THURSDAY, FEBRUARY 12, 2015; 9:00 A.M.334THE VIDEOGRAPHER: Good morning.5This is the beginning of Disk Number 1 of6the videotaped deposition of Dr. Larry D. Hartsough,7Ph.D., in the matter of the Gillette Company versus8Zond, LLC, in the U.S. Patent and Trademark Office9before the Patent Trial and Appeal Board, Cases102014-00477 and 2014-00479.11This deposition is being held at 200 Marina12Boulevard, Berkeley, California, on February 12th,132015 at approximately 9:00 a.m.14My name is Sean McGrath from TSG Reporting,15Incorporated, and I am the legal video specialist.16The court reporter is Tavia Manning in17association with TSG Reporting.18Will counsel please introduce yourselves19starting with the questioning attorney.20MR. MAIER: Cosmin Maier, of WilmerHale, on
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue New York, NY 10118 Also present: Sean McGrath, Videographer	1BERKELEY, CALIFORNIA;2THURSDAY, FEBRUARY 12, 2015; 9:00 A.M.334THE VIDEOGRAPHER: Good morning.5This is the beginning of Disk Number 1 of6the videotaped deposition of Dr. Larry D. Hartsough,7Ph.D., in the matter of the Gillette Company versus8Zond, LLC, in the U.S. Patent and Trademark Office9before the Patent Trial and Appeal Board, Cases102014-00477 and 2014-00479.11This deposition is being held at 200 Marina12Boulevard, Berkeley, California, on February 12th,132015 at approximately 9:00 a.m.14My name is Sean McGrath from TSG Reporting,15Incorporated, and I am the legal video specialist.16The court reporter is Tavia Manning in17association with TSG Reporting.18Will counsel please introduce yourselves19starting with the questioning attorney.20MR. MAIER: Cosmin Maier, of WilmerHale, on21behalf of The Gillette Company.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue New York, NY 10118 Also present: Sean McGrath, Videographer	1BERKELEY, CALIFORNIA;2THURSDAY, FEBRUARY 12, 2015; 9:00 A.M.334THE VIDEOGRAPHER: Good morning.5This is the beginning of Disk Number 1 of6the videotaped deposition of Dr. Larry D. Hartsough,7Ph.D., in the matter of the Gillette Company versus8Zond, LLC, in the U.S. Patent and Trademark Office9before the Patent Trial and Appeal Board, Cases102014-00477 and 2014-00479.11This deposition is being held at 200 Marina12Boulevard, Berkeley, California, on February 12th,132015 at approximately 9:00 a.m.14My name is Sean McGrath from TSG Reporting,15Incorporated, and I am the legal video specialist.16The court reporter is Tavia Manning in17association with TSG Reporting.18Will counsel please introduce yourselves19starting with the questioning attorney.20MR. MAIER: Cosmin Maier, of WilmerHale, on21behalf of The Gillette Company.22MR. McCOMBS: David McCombs, with Haynes
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue New York, NY 10118 Also present: Sean McGrath, Videographer	1BERKELEY, CALIFORNIA;2THURSDAY, FEBRUARY 12, 2015; 9:00 A.M.334THE VIDEOGRAPHER: Good morning.5This is the beginning of Disk Number 1 of6the videotaped deposition of Dr. Larry D. Hartsough,7Ph.D., in the matter of the Gillette Company versus8Zond, LLC, in the U.S. Patent and Trademark Office9before the Patent Trial and Appeal Board, Cases102014-00477 and 2014-00479.11This deposition is being held at 200 Marina12Boulevard, Berkeley, California, on February 12th,132015 at approximately 9:00 a.m.14My name is Sean McGrath from TSG Reporting,15Incorporated, and I am the legal video specialist.16The court reporter is Tavia Manning in17association with TSG Reporting.18Will counsel please introduce yourselves19starting with the questioning attorney.20MR. MAIER: Cosmin Maier, of WilmerHale, on21behalf of The Gillette Company.22MR. McCOMBS: David McCombs, with Haynes23and Boone, on behalf of TSMC and Fujitsu.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	APPEARANCES (CONTINUED): FOR THE PATENT OWNER ZOND, LLC: RADULESCU BY: TIGRAN VARDANIAN, ESQ. The Empire State Building 350 Fifth Avenue New York, NY 10118 Also present: Sean McGrath, Videographer	1BERKELEY, CALIFORNIA;2THURSDAY, FEBRUARY 12, 2015; 9:00 A.M.334THE VIDEOGRAPHER: Good morning.5This is the beginning of Disk Number 1 of6the videotaped deposition of Dr. Larry D. Hartsough,7Ph.D., in the matter of the Gillette Company versus8Zond, LLC, in the U.S. Patent and Trademark Office9before the Patent Trial and Appeal Board, Cases102014-00477 and 2014-00479.11This deposition is being held at 200 Marina12Boulevard, Berkeley, California, on February 12th,132015 at approximately 9:00 a.m.14My name is Sean McGrath from TSG Reporting,15Incorporated, and I am the legal video specialist.16The court reporter is Tavia Manning in17association with TSG Reporting.18Will counsel please introduce yourselves19starting with the questioning attorney.20MR. MAIER: Cosmin Maier, of WilmerHale, on21behalf of The Gillette Company.22MR. McCOMBS: David McCombs, with Haynes23and Boone, on behalf of TSMC and Fujitsu.

	Page 6		Page 7
1	THE VIDEOGRAPHER: Will the court reporter	1	with that yesterday, but happens in all all
2	please swear in the witness and then we can proceed.	2	depositions.
3	r in	3	But is that fair that we try to do that?
4	LARRY D. HARTSOUGH, Ph.D.,	4	A. I'll try to do that.
5	having been first duly sworn by the reporter,	5	Q. And then, is there any reason that you
6	testified as follows:	6	can't give your best testimony today?
7		7	A. No.
8	EXAMINATION	8	Q. You're you're ready to give truthful and
9	BY MR. MAIER:	9	accurate testimony?
10	Q. Good morning, sir.	10	A. Yes.
11	A. Good morning.	11	Q. Okay.
12	Q. Now, you were deposed yesterday in	12	Now, did you do anything to prepare for
13	connection the '184 patent; is that right?	13	today's deposition in connection with the '155
14	A. That's correct.	14	patent?
15	Q. And you went over some ground rules at the	15	MR. VARDANIAN: Objection; form.
16	beginning about how to do a deposition?	16	Caution the witness not to reveal
17	A. Correct.	17	privileged information. To the extent you can
18	Q. Would you like me to repeat those or do you	18	answer without revealing such information, you can
19	remember them from yesterday?	19	go ahead and do so.
20	A. You can help remind me.	20	THE WITNESS: I I spent some time
21	Q. So I think the main, most important thing	21	reviewing the patent and my declaration
22	is that we don't talk over each other so the court	22	BY MR. MAIER:
23	reporter could could, you know, write everything	23	Q. Okay.
24	down that we say and your attorney can have a chance	24	A and I met briefly with Mr. Vardanian
25	to object. I think that we had a bit of a problem	25	this morning for about an hour.
	Page 8		Page 9
1	Q. And you you testified yesterday that you	1	preparation for this deposition as well.
2	prepared, in in preparation for yesterday's	2	BY MR. MAIER:
3	deposition, you had met with Zond's attorneys as	3	Q. So I'm going to hand you your declaration
4	well; right?	4	in connection with the '155 patent.
5	MR. VARDANIAN: Objection; form, relevance.	5	I'm going to give you this red pen as well.
6	THE WITNESS: In preparation for	6	A. Could you hand me the the '155 patent as
7	yesterday's testimony, I testified that I had met	7	well? I'm sure I'll be wanting to refer to it.
8	with Zond's attorneys for that; is that what you're	8	Q. Well, let's wait until we get there.
9	asking?	9	Could you take the red pen and put a big
10	BY MR. MAIER:	10	"A" on the front page of your declaration?
11	Q. Right.	11	MR. VARDANIAN: Objection; form.
12	So the preparation in connection with	12	THE WITNESS: Is that what's the reason
13	yesterday's deposition did not involve preparation	13	for that?
14	for the '155 patent?	14	BY MR. MAIER:
15	A. Well	15	Q. Well, it doesn't matter the reason, but
16	MR. VARDANIAN: Objection; form.	16	could you could you comply?
17	Caution the witness not to reveal any	17	I'm just asking you we're going to have
18	privileged information	18	a lot of papers that don't have exhibit numbers, so
19	THE WITNESS: That's	19	I feel like it's going to be easier for us to
		20	identify them if we can just say "the one with the
20	MR. VARDANIAN: to the extent you can		••••••••••••••••••••••••••••••••••••••
21	answer without revealing such information, you can	21	big 'A' on it," "the one with the big 'B' on it."
21 22	answer without revealing such information, you can go ahead and do so.	22	A. So
21 22 23	answer without revealing such information, you can go ahead and do so. THE WITNESS: To the extent that many of	22 23	A. So MR. VARDANIAN: Well, I'm going to object
21 22 23 24	answer without revealing such information, you can go ahead and do so. THE WITNESS: To the extent that many of the documents are the same references and and	22 23 24	A. So MR. VARDANIAN: Well, I'm going to object to this. There is a court reporter willing to mark
21 22 23	answer without revealing such information, you can go ahead and do so. THE WITNESS: To the extent that many of	22 23	A. So MR. VARDANIAN: Well, I'm going to object

DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

Deere	1	-
Page	1	_

	Page 10		Page 11
1	MR. MAIER: Do you want to mark his	1	Q. And you refer to two sputter deposition
2	declaration?	2	systems about the middle of the paragraph?
3	MR. VARDANIAN: Huh?	3	A. Right.
4	MR. MAIER: You want to mark his	4	MR. VARDANIAN: Which paragraph are we
5	declaration?	5	talking about?
6	MR. VARDANIAN: So there is a court	6	MR. MAIER: Seven.
7	reporter that typically that you know, marks	7	BY MR. MAIER:
8	well, what's what's the point of having	8	Q. Do you see where you refer to two sputter
9	MR. MAIER: To make it easier when there's	9	deposition systems?
10	a bunch of papers.	10	A. Yes.
11	BY MR. MAIER:	11	Q. Which systems are you referring to there?
12	Q. All right. Let's leave it at this. Let's	12	A. When we the system that that was
13	leave it at this: You have your declaration;	13	developed by Griffin Products, when I was the
14	correct?	14	engineering manager for them. That was our start-up
15	A. This you can refer to as my declaration.	15	company.
16	Q. And you'll you'll know what I'm talking	16	And the system for General Signal ThinFilm,
17	about?	17	we they shut the I did that for two years, and
18	A. Yeah.	18	it was not released to manufacturing because they
19	Q. Okay. So turn to Paragraph 7 of your	19	shut the whole they had shut the whole division
20	declaration.	20	down.
21	A. Yes.	21	Q. So the system that you worked on for
22	Q. Now, you're talking about some of the work	22	General Signal ThinFilm did not eventually become a
23	that you've done in your career in, you know, plasma	23	commercial product; correct?
24	processes and equipment here; is that correct?	24	MR. VARDANIAN: So I just just want to
25	A. That's correct.	25	caution the witness not to reveal any confidential
	Page 12		Page 13
1	information that's owed to third parties.	1	Q. Do you recall the type of power supply used
2	To the to the extent you can answer	2	with the General Signal ThinFilm sputtering unit?
3	without doing so, you can go ahead and do so.	3	
4			MR. VARDANIAN: Objection; form.
4	THE WITNESS: It it did it did not	4	MR. VARDANIAN: Objection; form. And caution the witness not to reveal
5	THE WITNESS: It it did it did not become a commercial product.		
		4	And caution the witness not to reveal
5	become a commercial product.	4 5	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so.
5 6	become a commercial product. BY MR. MAIER:	4 5 6	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without
5 6 7	become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at	4 5 6 7	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply.
5 6 7 8	become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product?	4 5 7 8 9 10	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER:
5 6 7 8 9	become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER:	4 5 7 8 9	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply?
5 6 7 8 9 10 11 12	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin 	4 5 7 8 9 10 11 12	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form.
5 6 7 8 9 10 11 12 13	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? 	4 5 7 8 9 10 11 12 13	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No.
5 6 7 8 9 10 11 12 13 14	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to 	4 5 7 8 9 10 11 12 13 14	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER:
5 6 7 8 9 10 11 12 13 14 15	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to refresh tell you the accurate dates by referring 	4 5 7 8 9 10 11 12 13 14 15	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. Have you ever worked with a pulsed power
5 6 7 8 9 10 11 12 13 14 15 16	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to refresh tell you the accurate dates by referring back here. 	4 5 7 8 9 10 11 12 13 14 15 16	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. Have you ever worked with a pulsed power supply?
5 6 7 8 9 10 11 12 13 14 15 16 17	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to refresh tell you the accurate dates by referring back here. I worked on the system between basically 	4 5 6 7 8 9 10 11 12 13 14 15 16 17	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. Have you ever worked with a pulsed power supply? MR. VARDANIAN: Objection; form.
5 6 7 8 9 10 11 12 13 14 15 16 17 18	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to refresh tell you the accurate dates by referring back here. I worked on the system between basically between 1981 and '84, when that was in the initial 	4 5 7 8 9 10 11 12 13 14 15 16 17 18	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. Have you ever worked with a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to refresh tell you the accurate dates by referring back here. I worked on the system between basically between 1981 and '84, when that was in the initial phases of Griffin Products. And it it's 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. Have you ever worked with a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER:
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to refresh tell you the accurate dates by referring back here. I worked on the system between basically between 1981 and '84, when that was in the initial phases of Griffin Products. And it it's described there as I led the engineering, the 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. Have you ever worked with a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. So it would follow that you've never worked
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to refresh tell you the accurate dates by referring back here. I worked on the system between basically between 1981 and '84, when that was in the initial phases of Griffin Products. And it it's described there as I led the engineering, the prototyping and the initial testing of the 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. Have you ever worked with a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. So it would follow that you've never worked with a power supply that allowed you to change
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to refresh tell you the accurate dates by referring back here. I worked on the system between basically between 1981 and '84, when that was in the initial phases of Griffin Products. And it it's described there as I led the engineering, the prototyping and the initial testing of the magnetron's sputtering system. 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. Have you ever worked with a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. So it would follow that you've never worked with a power supply that allowed you to change voltage amplitude; correct?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to refresh tell you the accurate dates by referring back here. I worked on the system between basically between 1981 and '84, when that was in the initial phases of Griffin Products. And it it's described there as I led the engineering, the prototyping and the initial testing of the magnetron's sputtering system. Q. And the same question for General Signal 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. Have you ever worked with a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. So it would follow that you've never worked with a power supply that allowed you to change voltage amplitude; correct? MR. VARDANIAN: Objection; form,
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to refresh tell you the accurate dates by referring back here. I worked on the system between basically between 1981 and '84, when that was in the initial phases of Griffin Products. And it it's described there as I led the engineering, the prototyping and the initial testing of the magnetron's sputtering system. Q. And the same question for General Signal ThinFilm, when did you work on that product? 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. Have you ever worked with a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. So it would follow that you've never worked with a power supply that allowed you to change voltage amplitude; correct? MR. VARDANIAN: Objection; form, mischaracterizes testimony.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 become a commercial product. BY MR. MAIER: Q. What about the one that you worked on at Griffin Products; was it a commercial product? A. It was. MR. VARDANIAN: Same caution. BY MR. MAIER: Q. When did you work on the system for Griffin Products? A. Well, in terms of my I just want to refresh tell you the accurate dates by referring back here. I worked on the system between basically between 1981 and '84, when that was in the initial phases of Griffin Products. And it it's described there as I led the engineering, the prototyping and the initial testing of the magnetron's sputtering system. Q. And the same question for General Signal 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	And caution the witness not to reveal confidential information that's owed to third parties. To the extent that you can answer without doing so, you can go ahead and do so. THE WITNESS: It was a DC magnetron sputtering supply. BY MR. MAIER: Q. Was it a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. Have you ever worked with a pulsed power supply? MR. VARDANIAN: Objection; form. THE WITNESS: No. BY MR. MAIER: Q. So it would follow that you've never worked with a power supply that allowed you to change voltage amplitude; correct? MR. VARDANIAN: Objection; form,

DOCKET ALARM Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

1 2			Page 15
2	BY MR. MAIER:	1	Now, when you were developing the system
	Q. You've never worked with a pulsed power	2	for General Signal ThinFilm, what did your work
3	supply; correct?	3	involve? What did you do to develop that system?
4	MR. VARDANIAN: Objection; form, asked and	4	A. That really gets into some areas that are
5	answered.	5	proprietary, but I managed a team of it included
6	THE WITNESS: That's correct.	6	a physicist, engineers, software engineers, you
7	BY MR. MAIER:	7	know, technical people, and so on, to develop the
8	Q. And, therefore, you've never worked with a	8	concepts, which some of which were, you know,
9	pulsed power supply that could control the amplitude	9	unusual and new and I I can't talk about. But
10	of a voltage pulse?	10	and to let me see if I mentioned it in here, even
11	MR. VARDANIAN: Objection; form,	11	in the yeah, I did mention that it was a cluster
12	mischaracterizes testimony.	12	tool.
13	THE WITNESS: I've never worked with a	13	The concept of cluster tools was brand new
14	pulsed power supply.	14	in the late 1980s, and so the development of the
15	BY MR. MAIER:	15	concept and actual actualizing of it was part of the
16	Q. Including a pulsed power supply that could	16	challenge as well.
17	generate power pulses; correct?	17	Q. So, yeah, I'm I'm not interested in any
18	MR. VARDANIAN: Objection; form,	18	confidential details or anything, I am mostly
19	mischaracterizes testimony.	19	focused on the word "development" in your
20	THE WITNESS: It follows. I mean, if I	20	declaration.
21	haven't worked with a pulsed power supply, I haven't	21	What did you mean what do you mean by
22	worked with a pulsed power supply, I have a company to the supply of the	22	"developing"
23	BY MR. MAIER:	23	A. That's part
24	Q. Understood. I'm just trying to get the	24	MR. VARDANIAN: Objection; form.
25	clear record.	25	THE WITNESS: It was new technology, which
	Page 16		Page 17
1		1	
1 2	needed to be developed.	2	MR. MAIER: Let me let me start a new
3	BY MR. MAIER: Q. And how do you develop technology?	4	
5	\mathbf{U} And now do you develop lechnology /	3	question. Let me just start over.
4	· · · · ·	3	BY MR. MAIER:
4	MR. VARDANIAN: Objection; form, relevance.	4	BY MR. MAIER: Q. Sir, how do you go about developing the
5	MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a	4 5	BY MR. MAIER: Q. Sir, how do you go about developing the product?
5 6	MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do,	4 5 6	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form.
5 6 7	MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes,	4 5 6 7	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance.
5 6 7 8	MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do.	4 5 6 7 8	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you
5 6 7 8 9	MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly	4 5 7 8 9	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps?
5 6 7 8 9 10	MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process.	4 5 7 8 9 10	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you get the
5 6 7 8 9 10 11	MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER:	4 5 7 8 9 10 11	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the
5 6 7 8 9 10 11 12	MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how	4 5 7 8 9 10 11 12	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up
5 6 7 8 9 10 11 12 13	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? 	4 5 7 8 9 10 11 12 13	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that,
5 6 7 8 9 10 11 12 13 14	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? MR. VARDANIAN: Objection; form. 	4 5 6 7 8 9 10 11 12 13 14	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that, conceptualize the technology.
5 6 7 8 9 10 11 12 13 14 15	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? MR. VARDANIAN: Objection; form. Objection; relevance. 	4 5 6 7 8 9 10 11 12 13 14 15	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that, conceptualize the technology. That's why I have engineers and physicists,
5 6 7 8 9 10 11 12 13 14 15 16	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? MR. VARDANIAN: Objection; form. Objection; relevance. BY MR. MAIER: 	4 5 6 7 8 9 10 11 12 13 14 15 16	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that, conceptualize the technology. That's why I have engineers and physicists, and so on, on the team, and not that I didn't do it
5 6 7 8 9 10 11 12 13 14 15 16 17	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? MR. VARDANIAN: Objection; form. Objection; relevance. BY MR. MAIER: Q. Do you consult reference materials? 	4 5 6 7 8 9 10 11 12 13 14 15 16 17	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that, conceptualize the technology. That's why I have engineers and physicists, and so on, on the team, and not that I didn't do it myself, but I'm saying that it can be a a fairly
5 6 7 8 9 10 11 12 13 14 15 16 17 18	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? MR. VARDANIAN: Objection; form. Objection; relevance. BY MR. MAIER: Q. Do you consult reference materials? MR. VARDANIAN: Sorry. Are you withdrawing 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that, conceptualize the technology. That's why I have engineers and physicists, and so on, on the team, and not that I didn't do it myself, but I'm saying that it can be a a fairly complicated effort.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? MR. VARDANIAN: Objection; form. Objection; relevance. BY MR. MAIER: Q. Do you consult reference materials? MR. VARDANIAN: Sorry. Are you withdrawing the previous question or 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that, conceptualize the technology. That's why I have engineers and physicists, and so on, on the team, and not that I didn't do it myself, but I'm saying that it can be a a fairly complicated effort. BY MR. MAIER:
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? MR. VARDANIAN: Objection; form. Objection; relevance. BY MR. MAIER: Q. Do you consult reference materials? MR. VARDANIAN: Sorry. Are you withdrawing the previous question or MR. MAIER: Yeah, it didn't sound like he 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that, conceptualize the technology. That's why I have engineers and physicists, and so on, on the team, and not that I didn't do it myself, but I'm saying that it can be a a fairly complicated effort. BY MR. MAIER: Q. I think you mentioned yesterday that you
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? MR. VARDANIAN: Objection; form. Objection; relevance. BY MR. MAIER: Q. Do you consult reference materials? MR. VARDANIAN: Sorry. Are you withdrawing the previous question or MR. MAIER: Yeah, it didn't sound like he understood it, so 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that, conceptualize the technology. That's why I have engineers and physicists, and so on, on the team, and not that I didn't do it myself, but I'm saying that it can be a a fairly complicated effort. BY MR. MAIER: Q. I think you mentioned yesterday that you consulted certain textbooks to bring yourself up to
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? MR. VARDANIAN: Objection; form. Objection; relevance. BY MR. MAIER: Q. Do you consult reference materials? MR. VARDANIAN: Sorry. Are you withdrawing the previous question or MR. MAIER: Yeah, it didn't sound like he understood it, so THE WITNESS: Well 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that, conceptualize the technology. That's why I have engineers and physicists, and so on, on the team, and not that I didn't do it myself, but I'm saying that it can be a a fairly complicated effort. BY MR. MAIER: Q. I think you mentioned yesterday that you consulted certain textbooks to bring yourself up to speed in the field. Do you recall that?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? MR. VARDANIAN: Objection; form. Objection; relevance. BY MR. MAIER: Q. Do you consult reference materials? MR. VARDANIAN: Sorry. Are you withdrawing the previous question or MR. MAIER: Yeah, it didn't sound like he understood it, so THE WITNESS: Well MR. MAIER: just okay. 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that, conceptualize the technology. That's why I have engineers and physicists, and so on, on the team, and not that I didn't do it myself, but I'm saying that it can be a a fairly complicated effort. BY MR. MAIER: Q. I think you mentioned yesterday that you consulted certain textbooks to bring yourself up to speed in the field. Do you recall that? A. Well, it's
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 MR. VARDANIAN: Objection; form, relevance. THE WITNESS: Well, it can take a a a lot of work to conceptualize what you want to do, figure out how you're going do it, build prototypes, test them, see if they do what you want to do. So it's a fairly in this case, fairly long process. BY MR. MAIER: Q. So how do you go about figuring out how you're going to do it, to use your words? MR. VARDANIAN: Objection; form. Objection; relevance. BY MR. MAIER: Q. Do you consult reference materials? MR. VARDANIAN: Sorry. Are you withdrawing the previous question or MR. MAIER: Yeah, it didn't sound like he understood it, so THE WITNESS: Well 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 BY MR. MAIER: Q. Sir, how do you go about developing the product? MR. VARDANIAN: Objection; form. Objection; relevance. THE WITNESS: What do you mean "How do you go about"? You mean, all the steps? Well, you know, you you you get the marketing people to tell you what they think the market wants, you consult with your team, come up with the ideas of the ways to deliver that, conceptualize the technology. That's why I have engineers and physicists, and so on, on the team, and not that I didn't do it myself, but I'm saying that it can be a a fairly complicated effort. BY MR. MAIER: Q. I think you mentioned yesterday that you consulted certain textbooks to bring yourself up to speed in the field. Do you recall that?

DOCKET ALARM Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

DOCKET A L A R M



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.