UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD

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EXOCAD GMBH and EXOCAD

AMERICA, INC.,

Petitioner,

Case IPR2018-00788

vs.

Patent 9,336,336 B2

)

3SHAPE A/S,

Patent Owner.

Deposition of ELI SABER Ph.D.

Alexandria, Virginia

Monday, April 1, 2019 - 9:02 a.m.

Reported by:

Marjorie Peters

Job no: 24884



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1	DEPOSITION OF ELI SABER PhD,	1	INDEX
1 2	a witness herein, called by the Petitioner for	1 2	EXAMINATION PAGE
3	examination, taken pursuant to the	3	ELI SABER PhD
4	37 C.F.R. § 42.53(d)(1), by and before Marjorie	4	BY MR. LITTMAN 5
5	Peters, a Registered Merit Reporter, Certified	5	BY MR. LEE 257
6	Realtime Reporter and Notary Public in and for the	6	DT WIK. ELL 257
7	Commonwealth of Virginia, at Buchanan Ingersoll &	7	INDEX OF EXHIBITS
8	Rooney, 1737 King Street, Suite 500, Alexandria,	8	EXHIBIT PAGE
9	Virginia, on Monday, April 1, 2019, at 9:02 a.m.	9	Exhibit 2001 Saber declaration, 3Shape 13
10	v iigiina, on ivionaay, ripin 1, 2019, at 5.02 a.iii.	10	Exhibit 2001, IPR2018-00788
11		$\begin{vmatrix} 1 & 0 \\ 1 & 1 \end{vmatrix}$	Exhibit 1001 Deichmann U.S. Patent 14
12		12	9,336,336
13		13	Exhibit 1002 Mundy Declaration 23
14		14	Exhibit 1005 Sachdeva US Patent No. 26
15		15	7,156,655
16		16	Exhibit 2003 3Shape Blanz article 77
17		17	Exhibit 1013 Sachdeva US patent No. 79
18		18	7,234,937
19		19	Exhibit 1008 Kopelman US Patent 6,845,175 180
20		20	Exhibit 1007 Wiedman article 196
21		21	
22		22	
23		23	
24		24	
25		25	
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1	COUNSEL PRESENT:	1	PROCEEDINGS
2	For the Petitioner: Kevin M. Littman, Esquire	2	ELI SABER PhD,
	FOLEY & LARDNER LLP	3	a witness, having been first duly sworn, was
4	111 Huntington Avenue	4	examined and testified as follows:
5	Boston, MA 02199 (617) 342-4000	5	EXAMINATION
	klittman@foley.com	6	BY MR. LITTMAN:
6		7	Q. Good morning.
7	For the Patent Owner:	8	A. Good morning.
8	Roger H. Lee, Esquire Mytili Markowski, PhD, Esquire	9	Q. Can you state your name for the record?
9	Buchanan, Ingersoll & Rooney PC	10 11	A. Yes. Eli Saber.
1.0	Post Office Box 1404	12	Q. Okay. So have you ever been deposed before?
10	Alexandria, VA 22313-1404 roger.lee@bipc.com	13	A. I have.
11	mythili.markowski@bipc.com	14	Q. How many times?
12	-	15	A. Twice.
13 14		16	Q. What cases were those?
15		17	A. The first one was, was a case with
16		18	Canon. I was I vaguely remember now, it's been
17 18		19	such a long time. It's probably around 2010-2011, I
19		20	think it's somewhere. I can find the exact date if
20		21	you want.
21		22	And the second time was last year.
22 23		23	I want to say either July or August, but I don't
24		24	remember exactly. I can find the date if you want.
25		25	Q. The first case you were were you an

2 (Pages 2 to 5)



	Page 6		Page 8
1	expert in that case?	1	patents involved that I was asked to provide expert
2	A. I was.	2	opinion on.
3	Q. What party were you representing?	3	Q. Were your opinions about
4	A. I was asked to serve as an expert	4	non-infringement?
5	representing well, serve as an expert on a Canon	5	A. I was asked to serve as an expert in a
6	case.	6	non-infringement portion of the case.
7	Q. For Canon?	7	Q. Did you provide opinions on invalidity
8	A. For Canon.	8	as well?
9	Q. What was that case about?	9	A. No.
10	A. It was image processing technologies, I	10	Q. Do you recall what the patents were?
11	think, versus Canon, but don't quote me on the exact	11	A. Not off the top of my head. No.
12	name of the other company.	12	Q. Do you recall what the technology in the
13	The attorney was Mr. Ryan Clark from	13	patents were?
14	Fitzpatrick or something. He could provide you with	14	A. Yes. It was about modelling of teeth.
15	all of the details that you are looking for, but I	15	Gingival models of tissue and teeth, which Align
16	vaguely remember the stuff from that case.	16	held a couple of patents on, and they were asserting
17	Q. Do you remember if it was a district	17	claims against 3Shape.
18	court litigation?	18	Q. Your opinions were that the various
19	A. I don't recall.	19	claims were not infringed; is that right?
20	Q. Was it a patent case, do you recall?	20	MR. LEE: Objection. 402.
21	A. Yes. There were two patents, two	21	A. Well, I provided opinions I mean, I
22	patents, I believe involved, or maybe one patent	22	can't I don't know what is confidential, what is
23	involved in the case that I came in where Image	23	not confidential, so I would prefer to if you
24	Processing Technologies I think that's the name	24	wanted to know the details, just contact Pepper
25	of the company; I'm not 100 percent sure anymore	25	Hamilton. I think the attorney was Mr. Colton
	Page 7		Page 9
1	but Image Processing Technologies asserted that	1	Petnik [PH], and he can provide you all of the
2	Canon is infringing on such-and-such claims from the	2	details.
3	patent.	3	But I served as an expert for
4	Q. Do you recall, were your opinions about	4	non-infringement. It was an ITC case.
5	non-infringement?	5	Q. Do you know if the case is ongoing?
6	A. I was asked to provide an opinion on	6	A. I testified in September, and after
7	invalidity. This was before the IPR process.	7	that, I kind of dropped off. I haven't kept in
8	So I was asked to provide an opinion	8	touch.
9	on invalidity, and then an opinion on	9	So I wasn't needed anymore.
10	non-infringement.	10	Q. Right. And you haven't testified at
11	Q. Then you said you were deposed last	11	trial in that case?
12	year, maybe July or August 2018; right?	12	MR. LEE: Objection, 402, 611(b).
13	A. Right. I think more or less I think	13	A. I testified in the ITC court for that
14	it might have been August, but I don't remember	14	case.
15	exactly. Maybe it was July. Somewhere in there.	15	Q. Okay. So you also testified in the ITC
16	Q. What was that case called?	16	court in that case. Do you remember when that was?
17	A. This was a case Align v. 3Shape.	17	MR. LEE: Objection 402, 611(b).
18	Q. And which party asked you to let me	18	A. It was sometime in September. I don't
19	ask you, did you prepare an expert opinion in that	19	exactly recall the exact date, but it was last
20	case?	20	September.
21	A. Yes. I was asked to serve as an expert	21	Q. Have you testified in court in any other
22	on behalf of 3Shape.	22	matters?
23	Q. And that was a patent case also, I	23	A. No, I have not.
24	assume?	24	Q. So I know you have been deposed a couple
25	A. Yes. There were two patents three	25	of times. I just want to go through a couple of the
			3 (Pages 6 to 9)

	Page 10		Page 12
1	basics that perhaps you understand already.	1	signal processing umbrella.
2	A. Please. Please.	2	Q. Do you have any experience in the dental
3	Q. So today I'm going to be asking you a	3	field?
4	series of questions. Do you understand that?	4	A. I'm sorry.
5	A. Yes.	5	Q. Do you have any experience in the dental
6	Q. And your answers to those questions are	6	field?
7	under oath; do you understand that?	7	A. What can you clarify what you mean by
8	A. I do.	8	experience in the dental field?
9	Q. And if you don't understand a question,	9	Q. Have you ever designed any dental
10	can you ask that I clarify it; does that make sense?	10	products?
11	A. I will.	11	A. You mean like a dental go in and do a
12	Q. Also, since we have a court reporter	12	dental restoration on a patient?
13	taking a written record, I'll just ask you that if	13	Q. Let's start there. Have you ever done
14	the answer is a yes or no that you actually answer	14	that?
15	it orally instead of a nod of the head; does that	15	A. No, I'm not a dentist.
16	make sense as well?	16	Q. Have you designed any other products in
17	A. Yes. Thank you.	17	the dental area?
18	Q. Then just kind of as a general matter,	18	A. Again, are you asking me if I went in on
19	you know, a reminder that both of us should try not	19	to a patient and did some dental work? No, I have
20	to talk too fast and not try to speak over each	20	not.
21	other. I will do my best at that, and if you can as	21	Q. Broader this time. Have you done
22	well, that will be helpful for everyone as well.	22	anything in the dental area beyond that?
23	A. I will be as quiet as possible.	23	A. No, I have not. I worked on the 3Shape
24	Q. Okay. Is there anything that prevents	24	case with Yeah.
25	you from testifying truthfully today that you can	25	Q. Okay. But aside from your work as an
	Page 11		Page 13
1	think of?	1	expert witness in the case, you haven't; is that
2	A. No.	2	right?
3	Q. Okay.	3	A. I haven't designed any dental products.
4	So are you a Professor at the Kate	4	Q. Okay. And you haven't taught any
5	Gleason College of Engineering; is that right?	5	classes on dental products specifically; right?
6	A. Yes. I'm a Professor at the Kate	6	A. I taught classes on obviously computer
7	Gleason College of Engineering at the Rochester	7	vision quite a bit but not specifically on designing
8	Institute of Technology.	8	a dental product.
9	Q. You have been there since 2004; is that	9	(Exhibit 2001, Saber declaration, 3Shape Exhibit
10	right?	10	2001, IPR2018-00788, was marked for identification.)
11	A. Well, I started at RIT as an adjunct	11	Q. So I have handed you what's marked as
12	faculty in 1997, and I taught courses along the way.	12	Exhibit 2001. Do you recognize this document?
13	I joined full time in 2004.	13	A. Yes.
14	Q. I see.	14	Q. What is it?
15	A. Just to be	15	A. It's my declaration.
16	Q. Right.	16	Q. It's the declaration you prepared in the
17	A. Careful. Precise and accurate.	17	Exocad v. 3Shape IPR 2018-00788; right?
18	Q. What's your area that you teach?	18	A. That's correct.
19	A. I teach I'm an electrical engineer by	19	Q. So if you could turn to Paragraph 25.
	training. My Ph.D. is in electrical engineering,	20	If you could just read Paragraph 25, and like my
20		101	question after you read it is, if there's anything
21	and I teach in the I mean, I can teach a variety	21	
21 22	of electrical engineering courses, but my specialty,	22	beyond what's in that paragraph that you used to
21 22 23	of electrical engineering courses, but my specialty, or I'm specialized in the image video and computer	22 23	beyond what's in that paragraph that you used to form the basis of your opinion?
21 22 23 24	of electrical engineering courses, but my specialty, or I'm specialized in the image video and computer vision area, which is normally under what we call	22 23 24	beyond what's in that paragraph that you used to form the basis of your opinion? A. You want me to read it out loud?
21 22 23	of electrical engineering courses, but my specialty, or I'm specialized in the image video and computer	22 23	beyond what's in that paragraph that you used to form the basis of your opinion?



	Page 14		Page 16
1	A. Okay.	1	A. Well, it's hard to see what's exactly is
2	Yeah. That pretty much sums it up.	2	shown in this figure, but I will look at the
3	Q. So you didn't talk to any other person	3	description.
4	with experience in the dental field; is that right?	4	Q. Yeah. I was going to say, I'll refer
5	A. No.	5	you to column 25, lines 7 through 16, I think. Look
6	Q. Did you speak with anyone with knowledge	6	at that as well if that helps you answer the
7	of the market for digital dentistry products?	7	question.
8	A. No.	8	A. What was the question again, sir?
9	Q. And did you speak with anyone with	9	Q. So does Figure 11J and its corresponding
10	knowledge of what dental lab technicians seek in	10	description at column 25, lines 7 through 16, is
11	digital dental products?	11	that an example of the claim limitation I read about
12	A. No.	12	arranging the at least one 2D image in the 3D
13	Q. Did you speak with anyone with knowledge	13	virtual model?
14	about what any users of dental products seek with	14	MR. LEE: Objection, 403.
15	dental digital products?	15	A. Well, let's look at a description of the
16	A. No.	16	figure. So it says, 11J shows the 2D image 1101,
17	(Exhibit 1001, Deichmann U.S. Patent 9,336,336, was	17	which obviously is not easy to see here because of
18	marked for identification.)	18	the poor xerography, with the cut-out area, 1130, so
19	Q. I'll hand you this. This is another	19	that's your cut-out area 1130, along the line 1131,
20	relevant document.	20	which is looks like the line around more or less
21	So I have handed the witness a	21	the oral cavity, of the lips. And the 3D virtual
22	document that's marked Exhibit 1001. Do you	22	model 1102 is now visible in the cut-out area of the
23	recognize this document?	23	2D image. That is the description.
24	A. I do.	24	Q. Right. So does that meet the claim
25	Q. What is it?	25	limitation?
	Page 15		Page 17
1	_		
1 2	A. It's the patent 9,336,336.	1	MR. LEE: Objection, 403.
2	A. It's the patent 9,336,336.Q. This is the patent that's the subject	1 2	MR. LEE: Objection, 403. A. In what sense are you asking? Can you
2 3	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today?	1 2 3	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is.
2 3 4	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is.	1 2 3 4	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's
2 3 4 5	 A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped 	1 2 3 4 5	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that
2 3 4	 A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview 	1 2 3 4	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation.
2 3 4 5 6 7	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview questions about the '336 patent. So if you turn to	1 2 3 4 5 6 7	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation. MR. LEE: Objection, 403.
2 3 4 5 6 7 8	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview questions about the '336 patent. So if you turn to Claim 1 which is on page 42, columns 25 and 26.	1 2 3 4 5 6 7 8	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation. MR. LEE: Objection, 403. A. Well, like I as I said, the
2 3 4 5 6 7 8	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview questions about the '336 patent. So if you turn to Claim 1 which is on page 42, columns 25 and 26. If you see at the top of column 26	1 2 3 4 5 6 7	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation. MR. LEE: Objection, 403. A. Well, like I as I said, the description is there. It shows the 2D image of the
2 3 4 5 6 7 8	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview questions about the '336 patent. So if you turn to Claim 1 which is on page 42, columns 25 and 26. If you see at the top of column 26 starting around line 12, there's this claim	1 2 3 4 5 6 7 8	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation. MR. LEE: Objection, 403. A. Well, like I as I said, the
2 3 4 5 6 7 8 9	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview questions about the '336 patent. So if you turn to Claim 1 which is on page 42, columns 25 and 26. If you see at the top of column 26	1 2 3 4 5 6 7 8 9	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation. MR. LEE: Objection, 403. A. Well, like I as I said, the description is there. It shows the 2D image of the cut-out area along the lines, and it shows a 3D
2 3 4 5 6 7 8 9 10	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview questions about the '336 patent. So if you turn to Claim 1 which is on page 42, columns 25 and 26. If you see at the top of column 26 starting around line 12, there's this claim limitation that says, "Arranged the at least one 2D	1 2 3 4 5 6 7 8 9 10	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation. MR. LEE: Objection, 403. A. Well, like I as I said, the description is there. It shows the 2D image of the cut-out area along the lines, and it shows a 3D virtual model that is now visible in the cut-out
2 3 4 5 6 7 8 9 10 11	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview questions about the '336 patent. So if you turn to Claim 1 which is on page 42, columns 25 and 26. If you see at the top of column 26 starting around line 12, there's this claim limitation that says, "Arranged the at least one 2D image relative to the 3D virtual model in a virtual	1 2 3 4 5 6 7 8 9 10 11	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation. MR. LEE: Objection, 403. A. Well, like I as I said, the description is there. It shows the 2D image of the cut-out area along the lines, and it shows a 3D virtual model that is now visible in the cut-out area.
2 3 4 5 6 7 8 9 10 11 12	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview questions about the '336 patent. So if you turn to Claim 1 which is on page 42, columns 25 and 26. If you see at the top of column 26 starting around line 12, there's this claim limitation that says, "Arranged the at least one 2D image relative to the 3D virtual model in a virtual 3D space such that the at least one 2D image and the	1 2 3 4 5 6 7 8 9 10 11 12 13	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation. MR. LEE: Objection, 403. A. Well, like I as I said, the description is there. It shows the 2D image of the cut-out area along the lines, and it shows a 3D virtual model that is now visible in the cut-out area. Q. Right. So does that meet the claim
2 3 4 5 6 7 8 9 10 11 12 13	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview questions about the '336 patent. So if you turn to Claim 1 which is on page 42, columns 25 and 26. If you see at the top of column 26 starting around line 12, there's this claim limitation that says, "Arranged the at least one 2D image relative to the 3D virtual model in a virtual 3D space such that the at least one 2D image and the 3D model are aligned when viewed from a viewpoint	1 2 3 4 5 6 7 8 9 10 11 12 13	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation. MR. LEE: Objection, 403. A. Well, like I as I said, the description is there. It shows the 2D image of the cut-out area along the lines, and it shows a 3D virtual model that is now visible in the cut-out area. Q. Right. So does that meet the claim limitation?
2 3 4 5 6 7 8 9 10 11 12 13 14	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview questions about the '336 patent. So if you turn to Claim 1 which is on page 42, columns 25 and 26. If you see at the top of column 26 starting around line 12, there's this claim limitation that says, "Arranged the at least one 2D image relative to the 3D virtual model in a virtual 3D space such that the at least one 2D image and the 3D model are aligned when viewed from a viewpoint and remain separate representations after being	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation. MR. LEE: Objection, 403. A. Well, like I as I said, the description is there. It shows the 2D image of the cut-out area along the lines, and it shows a 3D virtual model that is now visible in the cut-out area. Q. Right. So does that meet the claim limitation? MR. LEE: Objection, 403.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. It's the patent 9,336,336. Q. This is the patent that's the subject matter of the IPR that we're here to discuss today? A. It is. It is. Q. So I just wanted to, before I jumped into your report, ask you a couple of overview questions about the '336 patent. So if you turn to Claim I which is on page 42, columns 25 and 26. If you see at the top of column 26 starting around line 12, there's this claim limitation that says, "Arranged the at least one 2D image relative to the 3D virtual model in a virtual 3D space such that the at least one 2D image and the 3D model are aligned when viewed from a viewpoint and remain separate representations after being arranged, whereby the 3D virtual model and the at	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. LEE: Objection, 403. A. In what sense are you asking? Can you be more specific of what your question is. Q. I'm just trying to get an idea if that's one example of something that is described in that claim limitation. MR. LEE: Objection, 403. A. Well, like I as I said, the description is there. It shows the 2D image of the cut-out area along the lines, and it shows a 3D virtual model that is now visible in the cut-out area. Q. Right. So does that meet the claim limitation? MR. LEE: Objection, 403. A. So the claim limitation says a range
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