Deposition of Michael Stephen Lebby, Ph.D. Conducted on June 30, 2016

1 (Pages 1 to 4)

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	1	-	3 1
1 UNITED STATES PA	TENT AND TRADEMARK OFFICE	1	APPEARANCES
2		2	ON BEHALF OF THE PETITIONER:
3 BEFORE THE PATE	NT TRIAL AND APPEAL BOARD	3	BRIAN A. TOLLEFSON, ESQUIRE
4		4	SOUMYA P. PANDA, ESQUIRE
5 LG ELECTRONI	CS, INC., and	5	ROTHWELL, FIGG, ERNST & MANBECK, P.C.
6 LG ELECTRONIC	CS U.S.A., INC.,	6	607 14th Street, Northwest, Suite 800
7 Petitioner		7	Washington, D.C. 20005
8 v.		8	(202) 783-6040
9 TOSHIBA SAMS	SUNG STORAGE	9	` '
10 TECHNOLOGY K	OREA CORPORATION,	10	ON BEHALF OF THE PATENT OWNER:
11 Patent Owner		11	JOSEPH A. RHOA, ESQUIRE
12		12	NIXON & VANDERHYE P.C.
13 Case IPR2015-	01653	13	901 North Glebe Road, 11th Floor
14 Patent RE43,10	06	14	Arlington, Virginia 22203-1808
15		15	(703) 816-4000
16 Deposition of MICHA	EL STEPHEN LEBBY, PH.D.	16	
17 Arlington, Virgi	nia	17	ALSO PRESENT:
18 Thursday, June 30	0, 2016	18	Justin Burnam, Nixon Vanderhye
19 9:03 a.m.		19	
20 Job No. 115907		20	
21 Pages 1 - 212		21	
22 Reported by: Karen Your	ng	22	
	2	<u> </u>	4
1 Deposition of MICH	HAEL STEPHEN LEBBY, PH.D.,	1	CONTENTS
2 held at the offices of:	FALL STEITHEN LEBE 1, 111.D.,	2	EXAMINATION OF MICHAEL STEPHEN LEBBY, PH.D. PAGE
3 NIXON & VANI	OFRHYF P.C	3	By Mr. Tollefson 5
4 901 North Glebe		4	By Mr. Rhoa206
5 Arlington, Virgin		5	By Mr. Tollefson 207
6 (703) 816-4000	1000	6	•
7		7	
8		8	
9		9	
10		10	EXHIBITS
1	e, before Karen Young,	11	(No new exhibits were marked.)
1	ommonwealth of Virginia	12	PREVIOUSLY MARKED
13		13	Exhibit 1001 '106 reissued patent by Yoo et al 147
14		14	Exhibit 1002 Document 180
15		15	Exhibit 2002 Declaration 5
16		16	
17		17	
18		18	
19		19	
20		20	LG Electronics, Inc. et al.
21		21	EXHIBIT 1021
22		22	IPR Petition for
L Variable Val. Invit. Schools as a second research Color Val.		l North the particular	U.S. Patent No. RE43,106

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Deposition of Michael Stephen Lebby, Ph.D. Conducted on June 30, 2016

2 (Pages 5 to 8)

		Ę	5	7
	1	PROCEEDINGS	1	routine. I'm going to refresh your memory on some
	2	MICHAEL STEPHEN LEBBY, PH.D.,	2	of the processes and ground rules. So this this
	3	having been duly sworn, was examined as follows:	3	deposition is a cross examination based on the
	4		4	declaration that you've submitted in the IPR, and
	5	EXAMINATION BY COUNSEL FOR THE PETITIONER	5	I'll be asking questions, and the court reporter
	6	BY MR. TOLLEFSON:	6	will be writing down everything we say, so I'll do
	7	Q Good morning.	7	my best not to ask a question, while you're in the
	8	A Morning.	8	middle of the answer, I'll try not to interrupt
	9	Q Could you please state your full name for	9	you, and I ask that you wait until I finish my
	10	the record?	10	question before you answer. Is that okay?
	11	A Michael Stephen Lebby. Stephen with a	11	A That's fine.
	12	P-H.	12	Q Okay. And since the printed record
	13	Q And could you please state your home	13	there's no videotape here, the printed record is
	14	address for the record?	14	going to be used in the proceeding, I ask that you
	15	A 680 Mission Street, 24F, San Francisco,	15	give audible answers, no uh-huhs and head nods,
	16	CA 94105.	16	that they won't be recorded properly, so yeses and
	17	Q I'm handing you what's previously been	17	nos or or full sentence answers. Is that okay?
	18	marked Exhibit 2002 to IPR2015-01653. Do you	18	A That's fine.
	19	recognize that document, Dr. Lebby?	19	Q Okay, good. Is there any reason such as
	20	A Yes, I do.	20	any medical conditions or any medicines or anything
	21	Q Okay, and what is that document I just	21	that you'd be on that would prevent you from
	22	handed to you?	22	answering truthfully and honestly today?
		6	5	8
	1	A That's my declaration.	1	A No.
	2	Q And this is the declaration that was	2	Q Okay. And if I ask a question and you
	3	submitted on behalf of Patent Owner Toshiba Samsung	3	don't understand the question, I ask that you
	4	Storage Technology Korea Corporation in an IPR	4	please let me know that, and if you answer a
	5	proceeding, correct?	5	question, I'll have to assume that you understood
	6	A That is correct.	6	the question, okay?
	7	Q And you've been retained by the patent	7	A That's correct.
	8	owner to assist in this matter?	8	Q Okay. If you could turn to page 16 of
	9	A That is correct.	9	your declaration, Exhibit 2002, are you there,
	10	Q Dr. Lebby, have you ever been retained to	10	Dr. Lebby?
	11	perform any expert consultation work in an IPR	11	A Yes, I'm there.
	12	proceeding before this current proceeding?	12	Q Okay. Is that your signature on that
	13	A Yes, I have.	13	page?
	14	Q About how many proceedings?	14	A That certainly looks like my signature.
	15	A I don't recall exactly, but probably	15	Q Do you recall signing the declaration?
	16	three to five.	16	A I recall signing a declaration a couple
	17	Q Have you ever had your deposition taken	17	months ago, yes.
	18	before?	18	Q Okay, and there's a date on that page.
	19	A Yes, I have.	19	Do you see that date?
	20	Q About how many times?	20	A Date says the 5th of May 2016.
	21	A Twelve, plus or minus a few.	21	Q Okay. Do you believe that you signed
- 1	22	O Okay great Then you understand the	122	this declaration on May 5th, 2016?



3 (Pages 9 to 12)

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	9		11
1	A Yes.	1	consulting services?
2	Q Okay. And if you could turn the page to	2	A I believe the answer's no.
3	the next page, which is appears to be page 1 of	3	Q If I refer to Toshiba Samsung Storage
4	your resume, if you wouldn't mind, could you flip	4	Technology Corporation Korea as TSSTK, will that
5	through that and confirm for me that that is your	5	work for you for the deposition?
6	resume, Dr. Lebby?	6	A Yes.
7	A Yes, I confirm this is my resume.	7	Q Okay, so when I say TSSTK, I mean the
8	Q Okay. Do you happen to know when this	8	patent owner in this case. Prior to your
9	copy of the resume was last updated? Let me let	9	engagement in this matter, IPR2015-01653, have you
10	me reask the question. I'm not asking about this	10	been asked or been engaged by TSSTK to provide
11	exact copy. I mean the version of the resume	11	expert consulting services?
12	that's attached to your declaration, can you let me	12	A No.
13	know whether you recall the last time that was	13	Q When did you when were you engaged by
14	updated?	14	TSSTK in this matter?
15	A It was probably April or May this year.	15	A I believe it was the first quarter of
16	Q Are you aware of anything any	16	this year, but I don't know exactly.
17	inaccuracies in the resume that you'd like to	17	Q Were you engaged by a law firm or were
18	correct?	18	you engaged directly by TSSTK?
19	A Not at this time.	19	A In this particular case, I believe it was
20	Q Okay. Have you ever been engaged to work	20	a referral from the previous law firm that
21	in excuse me, rephrase my question. Have you	21	represented TSSK TSSTK.
22	ever been engaged by Samsung in the past to provide	22	Q Do you remember the law firm?
	10		12
1	expert consulting services?	1	A DLA Piper.
2	A Yes, I have.	2	Q So DLA Piper hired you?
3	Q And in connection with patent litigation?	3	A Yes. Well, "hired" is an interesting
4	A Correct.	4	term. I got approved, but there was no work until
5	Q Are those engagements listed in your	5	the law firm was changed.
6	resume?	6	Q Okay. So you didn't begin working on
7	A Page 5 of my resume, looks like case 10,	7	your declaration until the law firm changed to
8	I represented Samsung as the respondent to Optical	8	current counsel?
9	Devices, and also I believe page 4, case 4, I	9	A That is correct.
10	represented Samsung as a respondent for another ITC	10	Q Do you have representation today? Are
11	case.	11	you being represented by a lawyer?
12	Q Are there any other engagements that	12	A No, unless my counsel well, I don't
13	you're aware of where you were asked to provide	13	understand the question. I mean, I don't have a
14	expert consulting services to Samsung?	14	personal lawyer, but I'm represented by my counsel
15	A I believe that is it.	15	here.
16	Q So there's no engagements that you're	16	Q Do you have an understanding whether Mr.
17	aware of where you provided expert services	17	Rhoa's representing you today for the purpose of
18	expert consulting services to Samsung that are not	18	this deposition?
19	listed in your resume?	19	A Yes, he is.
20	A That's correct.	20	Q Are you paying Mr. Rhoa to represent you
21	Q How about Toshiba? Have you ever been	21	today in this deposition?
22	engaged by Toshiba before to provide expert	2.2	A No.

4 (Pages 13 to 16)

			+ (Lages 15 to 10)
	13		15
1	Q Do you know who's paying Mr. Rhoa to	1	this deposition today?
2	represent you today?	2	A Yes, I had discussions with my counsel
3	A I don't know the answer to that question.	3	yesterday.
4	Q Were you asked to pay Mr. Rhoa for his	4	Q About how long were your discussions with
5	time today?	5	counsel yesterday?
6	A No.	6	A The majority of the day yesterday.
7	Q Did you do anything to prepare for this	7	Q And what does that what does that
8	deposition?	8	mean, majority of the day?
9	A I read documents over the last two days.	9	A From 9:00 a.m. to 4:00 p.m.
10	Q What documents did you review?	10	Q Did you have any other discussions with
11	A I don't know if I can list them by	11	counsel besides the ones that you had yesterday in
12	memory, but certainly my declaration, and also my	12	preparation for this deposition?
13	counsel's declaration and petition on behalf of the	13	A No.
14	patent owner. I also read the deposition of your	14	Q And when you said someone showed you
15	expert, and I read the APA section of the '106	15	copies, who showed you copies of documents?
16	patent, the '106 patent, and the '750 patent.	16	A My counsel.
17	Q Do you recall any more documents?	17	Q And that was in the meeting yesterday?
18	A There was a couple of other documents,	18	A Correct.
19	but I don't recall their titles.	19	Q Did you review any documents outside of
20	Q Do you recall whether they were patent	20	your meeting yesterday in preparation for this
21	documents or other kinds of documents?	21	deposition today?
22	A No, they were legal documents.	22	A Only last night and this morning.
	14		16
1	Q Did any of these legal documents refresh	1	Q And the documents that you read last
2	your memory as to anything that you may anticipate	2	night and this morning do you recall which
3	testifying about today?	3	documents those were?
4	A No.	4	A My declaration, my counsel's petition,
5	Q These legal documents were they big	5	and the two patents in question.
6	thick documents, legal documents?	6	Q If you could turn back to page 4 of your
7	A I believe one of them was your expert's	7	resume, at the very top is a reference to a
8	report, which I did not read in total, but I was	8	Ziptronix, Inc. V OmniVision Technologies, Inc. and
9	certainly shown a copy of it, and I believe another	9	some other companies. That's a description of a
10	one of the documents may have been an LG petition I	10	litigation where you were engaged to provide expert
11	believe.	11	consulting services to Ziptronix; is that correct?
12	Q Okay, so when you said that you had read	12	A Yes.
13	the petition on behalf of the patent owner, is it	13	Q And the subject matter of the litigation
14	possible you meant to say the patent owner's reply?	14	was CMOS-based image sensor materials, devices,
15	A It was filed by my counsel, yes, I	15	optics and products?
16	believe it might be the right phrase.	16	A Correct.
17	Q And then you also read the petition filed	17	Q Is CMOS-based image sensor materials,
18	by LG that initiated the challenge against the	18	devices, optics and products an area that you would
19	patent in this IPR; is that right?	19	consider yourself an expert in?
20	A That's correct.	20	A I believe so, yes.
			11 1 believe so, yes.
21	Q Okay. Other than reading these	21	Q Is there do you recall precisely what



5 (Pages 17 to 20)

17 19 1 in more detail than this general description? 1 optical storage area; is that --2 A CMOS-based image sensor is typically you 2 A Correct. 3 3 would see as a camera on a cell phone, so it's an Q What sort of work were you doing in the 4 array of photo detectors made out of silicon. 4 optical storage area? 5 5 Q Okay. Did it involve the actual sensor A Typically the association represents 6 or did it involve the lens? 6 industry for work in government. And also at this 7 7 A In this particular case it was the actual time, we arranged workshops and conferences in the 8 sensor that was made out of the silicon 8 field, and we also did technical road maps or 9 semiconductor. 9 technology road maps of the field. 10 10 Q Did it have anything to do with focusing Q And when you say we, are you referring to 11 laser light on an optical disk? 11 OIDA or are you referring to yourself? 12 12 A In this particular case it did not use A I'm referring to both. 13 laser light. 13 Q Is there anything else you did in the 14 Q Okay. Item number 2 says testimony for 14 optical storage area for OIDA? 15 U.S.-China Economic and security review commission 15 A We wrote monthly reports, we gave 16 on the optoelectronics industry. What was the 16 technical updates to the industry, so there's a lot 17 17 subject matter of your statement? of things that the industry association did. 18 18 Q Okay. And these technical reports, or A The U.S. optoelectronics industry that 19 19 encompasses all different types of optoelectronics, excuse me. These technical updates -- what sort of 20 ranging from consumer optoelectronics to fiber 20 things in the optical storage area did you update 21 21 the industry on? optics displays. It's a very broad definition. 22 22 Q What is optoelectronics? A Technologies such as laser diodes, some 18 20 1 1 of the optics that's used in the storage systems, A Optoelectronics is the subject matter to 2 2 do with both the optical and the electronics side photo detectors used in storage systems, even to 3 of things in terms of devices and optics. 3 the extent of forecasting disks, the growth of the 4 4 Q Now, can you state a little bit more industry, cost of DVDs, CD, Blu-ray type players, 5 5 how many units were sold, who was buying the units, about that? I don't really understand what you mean, the optical and electronics sides of things 6 6 typical market data as well. 7 7 Q Okay. Did you design products at that in terms of devices and optics. 8 8 A Part of the responsibilities of OIDA, time? 9 9 A OIDA is a trade association. It doesn't which is the optoelectronics association that I 10 10 worked for at that time, included work on optical design products. 11 storage, fiber optics, displays, optics in general, 11 Q Okay. So you -- at this time, you did 12 laser diodes, LEDs. 12 not design products? 13 13 Q So what kind of work did you do with A That is correct. Q So when you say you're updating the 14 14 optical storage at this time? Let me reask the 15 15 industry on all this sort of laundry list of question for you. So at this time, which is March 16 16 things, did OIDA do research and then provide the 24th, 2009, you were working for the 17 17 optoelectronics association; is that correct? industry results of the research? 18 A OIDA stands for Optoelectronics Industry 18 A That's correct. 19 19 **Development Association.** Q So what kind of research did you do in 20 Q And you were working for OIDA? 20 the optical storage area? 21 21 A Looking at publications, talking to A Correct. 22 Q And you said you were doing work in the industry, talking to companies that produce these

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