		1 (Pages 1 to 4
Page 1		Page 3
UNITED STATES PATENT AND TRADEMARK OFFICE	1	INDEX
BEFORE THE PATENT TRIAL AND APPEAL BOARD	2	PAGE
XILINX, INC.,)	3	Appearances 2
Petitioner,)	4	Exhibits 4
VS.) CASE: IPR2013-00112) Patent 5,779,334	5	Stipulations 5
INTELLECTUAL VENTURES I)	6	BRUCE BUCKMAN
LLC,	7	Examination by Mr. Quillin 5
Patent Owner.)	8	Examination by Mr. King 84
**********	9	Examination by Mr. Hunter
ORAL AND VIDEOTAPED DEPOSITION OF A. BRUCE BUCKMAN	10	Corrections Page 104
NOVEMBER 12, 2013	11	Reporter's Certificate 106
	12	
ORAL AND VIDEOTAPED DEPOSITION OF A. BRUCE BUCKMAN, produced as a witness at the instance of the Patent	13	
Owner, and duly swom, was taken in the above-styled and numbered cause on November 12, 2013, from 11:23 a.m. to	14	
5:38 p.m., before Lisa C. Hundt, CSR, RPR, CLR in and for the State of Texas, reported by machine shorthand,	15	
at the law offices of Haynes and Boone, located at 2505	16	
North Plano Road, Suite 4000, Richardson, Texas, in accordance with the Federal Rules of Civil Procedure and	17	
the provisions stated on the record or attached hereto.	18	-
	19	
	20	
	21	
	22	
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	25	
Page 2		Page 4
1 APPEARANCES	1	EXHIBITS
2 FOR THE PETITIONER: 3 Mr. Thomas King	2	NO. DESCRIPTION PAGE
HAYNES AND BOONE	3 4	2016 Reply Report of Dr. A. Bruce Buckman4:2017 Declaration of A. Bruce Buckman, Ph.D. Under
4 18100 Von Karman Suite 750	4	37 C.F.R. Section 168 Directed to the
5 Irvine, California 92612	5	Proposed Substitute Claims72
949.202.3059 6 949.202.33159 (Fax)	6	
thomas.king@haynesboone.com	7	
7 And Mr. Michael S. Parson	8 9	PREVIOUSLY MARKED EXHIBITS
8 HAYNES AND BOONE	10	1001 United States Patent 5,632,54510, 20
2505 N. Plano Road 9 Suite 4000	11	1002 U.S. Patent Number 5,264,95126, 62
Richardson, Texas 75082	12	1003 United States Patent 5,264,95134
10 972.739.8611 972.692.9003 (Fax)	13	1010 United States Patent 5,136,39777, 94
11 michael.parson@haynesboone.com	14	1011 Declaration of A. Bruce Buckman, Ph.D.
12 FOR THE PATENT OWNER: 13 Mr. George E. Quillin	15	Under 37 C.F.R. Section 1.68, Directed To the Proposed Substitute Claims74, 75, 77,
And	13	78, 80, 82, 88
14 Mr. Paul Hunter FOLEY & LARDNER	16	,,,
15 3000 K. Street, N.W.		1012 Declaration of A. Bruce Buckman, Ph.D.
Suite 600 16 Washington, DC 20007	17	Under 37 C.F.R. Section 1.68 Directed
	10	To Petitioner's Reply
202.672.5413	18	33, 38, 31, 65, 70, 72, 73, 89
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17 202.672.5399 (Fax) gquillin@foley.com 18 phunter@foley.com	19	,
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17 202.672.5399 (Fax) gquillin@foley.com 18 phunter@foley.com 19 20 ALSO PRESENT: Mr. Don Coulman, Intellectual Ventures Mr. Michael Barnes, Videographer		, ,
17 202.672.5399 (Fax) gquillin@foley.com 18 phunter@foley.com 19 20 ALSO PRESENT: Mr. Don Coulman, Intellectual Ventures Mr. Michael Barnes, Videographer	20 21 22	, , , , ,
17 202.672.5399 (Fax) gquillin@foley.com 18 phunter@foley.com 19 20 ALSO PRESENT: Mr. Don Coulman, Intellectual Ventures Mr. Michael Barnes, Videographer	20 21	

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12 (Pa	age	s 45 to 48)			
		Page 45			Page 47
01:56	1	(Exhibit Number 2016 was marked.)	02:02	1	multiplexing in time and multiplexing in space as some
01:56	2	Q. I want to hand you an exhibit from the other	02:02	2	of the other prior art references do. And someone of
01:56	3	IPR, IPR 2013-00029, and that IPR that had been	02:02	3	ordinary skill in the art would recognize the
01:56	4	previously marked as Exhibit 1013. We're going to give	02:02	4	interchangeability of those ideas.
01:56	5	it a new number in this IPR and we're going to call it	02:02	5	Q. Where does Lee teach that configuration?
01:56	6	Exhibit 2016. This is your declaration signed on	02:02	6	A. Which configuration?
01:57	7	September of 2013.	02:02	7	Q. Being configured to control the light panels
01:57	8	Have you had a chance to look through that	02:03	8	in relation to the beamed light?
01:57	9	exhibit?	02:03	9	A. Can you rephrase?
01:57	10	A. You want me to read through it?	02:03	10	Q. Sure. How are Elements 20 and 21 configured
01:57	11	Q. What I'd like you to focus on is page 19,	02:03	11	to control the LC panel?
01:58	12	paragraph 35, where you say that Circuit 20 in Lee is an	02:03	12	A. In terms of signal paths, they're configured
01:58	13	example of a video controller. Do you see that?	02:03	13	as shown in Figures 1 and 2. That is, signals were sent
01:58	14	A. Right.	02:04	14	from the video controller to the panel.
01:58	15	Q. Why are the video controllers in Lee different	02:04	15	Q. Anyplace else that Lee speaks to the control
01:58	16	for the '545 patent and the '334 patent?	02:04	16	of the LC panel?
01:58	17	A. I didn't say in either sentence of the	02:05		(Witness reviewed document.)
01:58	18	declaration that either Circuit 20 by itself or	02:06		A. Describes the result of a process, column 3,
01:58	19	Circuit 20 and 21 constitute the one and only depiction	02:06		line 59, "As a result the light beams of the colors red,
01:58	20	of a video controller. What I said in both declarations	02:06		green, and blue are successively reflected from the
i	21	was Circuit 20 is one example of a video controller.	02:06		reflection type LC panel 11, according to the color
	22	Circuits 20 and 21 are also one example of a video	02:06		driving signal" [as read].
01:59	23	controller. Those are examples. I did not state that	02:06		I think I mentioned earlier in another
]	24	either instance was the one and only one way to look at	02:06		deposition or in another declaration that there needed
01:59	25	a video controller. If I have to pick one as the best	02:07		to be synchronicity between the — the color hitting the
01.33		a video controller. Il i have to pick one as the best	02.07		to be synchronicity between the trace management
		Page 46			Page 48
01:59	1	or the optimal, I'll stick with the answer I gave you	02:07	1.	LC panel and the signal that was was going to the LC
01:59	2	in, I believe, my last deposition, where I said it was	02:07	2	panel. This is characteristic, someone of ordinary
01:59	3	20 and 21. But which answer you give depends on what	02:07	3	skill in the art would recognize, of any system where
01:59	4	functions you put inside the controller, as we have been	02:07	4	you're going to time multiplex the colors as opposed to
01:59	5	talking about at some length today.	02:07	5	having all the colors present all the time.
01:59	6	Q. What light shutter matrix system do	02:07	6	Q. (BY MR. QUILLIN) Would a person of ordinary
02:00	7	Elements 20 and 21 of Lee control?	02:07	7	skill in the art understand the term "successive" to
02:00	8	A. Elements 20 and 21 of Lee control Number 11 in	02:07	8	mean sequential?
02:00	9	Figures 1 and 2.	02:07	9	A. Yes.
02:00	10	Q. And how many of those LC panels do these	02:07	10	Q. Is Item 22 of Lee part of the video
02:00	11	Elements 20 and 21 control?	02:07	11	controller?
02:00	12	A. They control a single light shutter matrix	02:07	12	A. It's a frame-inducing circuit. It induces the
02:00	13	system, which adds in Lee's time multiplexing scheme of	02:08	13	respective light shutter. It induces the
02:01		producing color as 3, but it acts as 3 at separate times	02:08	14	terminology, the respective light shutter and the image
02:01		during its operation because of the time multiplexing	02:08	15	controlling circuit. Its connection with the image
02:01		that I described to you earlier that is effected by the	02:08	16	controlling circuit would be just to ensure this
02:01		color wheel and its rotation.	02:08	17	synchronicity.
02:01		Q. So how many single colored beams of light are	02:08	18	Q. Are there features of LC Panel 11 that make it
02:01		effected by the single LC panel of Lee?	02:08	19	a matrix?
02:01		A. One at a time and three in succession.	02:09		A. LC Panel 11 is an electrically addressed LCD.
02:01		Q. So in the system of Lee, elements of 20 and 21	02:09	21	And in an electrically addressed LCD, there is that bit
02:01		are not configured to control the same number of LC	02:09		of addressing is done in matrix fashion as it is with
02:01		panels as beams of light; is that correct?	02:09		optical.
02:01		A. There's one LC panel. It acts separated over	02:09		Q. And what is it about those features that make
02:02		time on three beams of light. That's a choice between	02:09		LC Panel 11 a matrix?
02:02	23	time on times beams of right. That's a choice between	02.03	23	DO I MINI II & HINNIA:



			27 (Tages 105 to 107)
	Page 105		Page 107
1	I, A. BRUCE BUCKMAN, have read the foregoing	1	I further certify that I am neither attorney
	deposition and hereby affix my signature that same is	2	nor counsel for, nor related to or employed by, any of
2	true and correct, except as noted above.	3	the parties to the action in which this deposition is
3		4	taken, and further, that I am not a relative or employee
4		5	of any attorney or counsel employed by the parties
		6	hereto, or financially interested in the action.
5	A. BRUCE BUCKMAN	7	I further certify that before the completion of the
6		8	deposition, X the Deponent, and/or the
7		9	Plaintiff/Defendant, X did did not request
8 9	THE STATE OF	10	to review the transcript.
10	COUNTY OF)	11	In witness whereof, I have hereunto set my hand and
11		12	affixed my seal this day of
12	Before me, , on	13	, A.D. 2013.
13	this day personally appeared A. BRUCE BUCKMAN, known to	14	
14	me (or proved to me under oath or through	15	
15) (description of identity	16	
16	card or other document)) to be the person whose name is	17	
17	subscribed to the foregoing instrument and acknowledged		LISA C. HUNDT, CSR, RPR, CLR
18	to me that they executed the same for the purposes and	18	Texas CSR No. 6533
19	consideration therein expressed.		Expiration Date: 12/31/14
20	Given under my hand and seal of office this day of, 2013.	19	
21 22	day bi, 2013.	20	
23		21	
	NOTARY PUBLIC IN AND FOR	22	
24	THE STATE OF	23	
	COMMISSION EXPIRES:	24	
25		25	
	Page 106		
1	STATE OF TEXAS)		
2	COUNTY OF DALLAS)		
3	I, LISA C. HUNDT, a Certified Shorthand Reporter in		
4	and for the State of Texas, hereby certify that,		
5	pursuant to the agreement hereinbefore set forth, there		
	•		
6	came before me on the 12th day of November, A.D, 2013,		
7	at 11:23 a.m., at the office of Haynes and Boone,		
8	located at 2505 North Plano Road, Suite 4000, in the		
9	City of Richardson, State of Texas, the following named		
10	person, to-wit: A. Bruce Buckman, who was by me duly		
11	cautioned and sworn to testify to the truth, the whole		
12	truth, and nothing but the truth of his knowledge		
13	touching and concerning the matters in controversy in		
14	this cause; and that he was thereupon carefully examined		
15	upon his oath and his examination reduced to writing		
16	under my supervision; that the deposition is a true		
17	record of the testimony given by the witness, same to be		
18	sworn and subscribed by said witness before any Notary		
19	Public, pursuant to the agreement of the parties; and		
20	that the amount of time used by each party at the		
21	deposition is as follows:		
22	Mr. Quillin - 3 hours, 49 minutes,		
23	Mr. King - 0 hours, 20 minutes,		•
24	Mr. Hunter - 0 hours, 23 minutes,		
25	Mr. Parsons 0 hours, 0 minutes;		
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