1	UNITED STATES PATENT AND TRADEMARK OFFICE
2	BEFORE THE PATENT TRIAL AND APPEAL BOARD
3	
4	
5	APPLE, INC., HTC CORPORATION,
6	HTC AMERICA, INC., et al.,
7	Petitioners,
8	V.
9	MEMORY INTEGRITY, LLC,
10	Patent Owner.
11	
12	
13	
14	CONTINUED VIDEOTAPED DEPOSITION OF
15	VOJIN G. OKLOBDZIJA, PH.D.
16	VOLUME II
17	Redwood City, California
18	Tuesday, November 24, 2015
19	
20	
21	Reported by:
22	Kelli Combs, CSR No. 7705
23	Job No. 2188241
24	
25	PAGES 156 - 225
	Page 156
	rage 150

Veritext Legal Solutions

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	$\begin{vmatrix} 1\\ 2 \end{vmatrix}$	APPEARANCES OF COUNSEI	CONTINUED:
2 3		For the Patent Owner, Memory I	ntegrity LLC.
4	4	FARNEY DANIELS PC	integrity, EEC.
5	5	BY: MICHAEL D. SAUNDI	ERS ESO
6	6	411 Borel Avenue, Suite 350	
7	7	San Mateo, California 94402	
8 Continued Videotaped Deposition of VOJIN G.	8	(650) 833-2442	
9 OKLOBDZIJA, PH.D., Volume II, taken on behalf of	9	msaunders@farneydaniels.co	m
10 Petitioners, at FISH & RICHARDSON, 500 Arguello Road			
11 Suite 500, Redwood City, California, commencing at		ALSO PRESENT:	
12 9:23 a.m., Tuesday, November 24, 2015, before Kelli	12	Ramon Peraza, Videographer	
13 Combs, CSR No. 7705.	13	Robert Horst, Ph.D., Expert fo	or Petitioners
14	14	······, · ·····, · ······	
15	15		
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22	22		
23	23		
24	24		
25	25		
Page 157			Page 159
1 APPEARANCE OF COUNSEL:	1	I N D E X	
2	2		
3 For Petitioners Apple, Inc., HTC Corporation, HTC	3	EXAMINATION	PAGE
4 America, Inc., Samsung Electronics Company, Ltd.,	4	VOJIN G. OKLOBDZIJA, PH.D.	
5 Samsung Electronics America, Inc., Samsung	5		
6 Telecommunications America, LLC and Amazon.com, Inc.	: 6	(BY MR. BILLAH)	162
7 FISH & RICHARDSON	7	(BY MR. SAUNDERS)	187
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23 24	22 23 24		
23	22 23 24 25		Page 160

2 (Pages 157 - 160)

	1 We broke yesterday at about 4:30 in the 9:23:32AM
1 EXHIBITS 2 NUMBER DESCRIPTION PAC	
3	3 In that time period between when we broke
4 Exhibit 12 Curriculum vitae of 163	4 yesterday and right now, did you speak to anybody
5 Dr. Oklobdzija	
6 Exhibit 13 Document titled "A Primer 178	
7 on Memory Consistency and	6 A No.
· ·	7 Q You didn't speak to counsel?
	8 A No. About the substance of the
9 Exhibit 14 Declaration of Dr. Robert 187	9 deposition.
10 Horst in Case Numbers	10 Q You spoke to counsel about something other 9:23:50AN
11 IPR2015-00159,	11 than the deposition?
12 IPR2015-00161,	12 A Yeah. Perhaps, you know, about how long
13 IPR2015-00163 and	13 it will take to get there, et cetera, but not not
14 IPR2015-00172	14 about the deposition.
15 Exhibit 15 Document titled "Memory192	2 15 Q Okay. 9:23:59AM
16 Integrity, LLC's Patent	16 MR. BILLAH: What's the next exhibit, 12?
17 Owner Response Pursuant to	17 THE VIDEOGRAPHER: Yes.
18 37 CFR Section 42.120 in	18 (Deposition Exhibit 12 marked
19 IPR2015-00159"	19 for identification.)
20	20 MR. BILLAH: Mark this as 12, please. 9:24:12AM
21	21 BY MR. BILLAH:
22	22 Q Please take a look at what's been marked
23	23 as Exhibit 12.
24	24 Do you recognize this document?
25	25 A Yes. 9:24:37AM
Page	
1 Tuesday Nevember 24 2015; Deduced City, California	1 Q What is this document? 9:24:39AM
1 Tuesday, November 24, 2015; Redwood City, California 2 9:23 a.m.	
3	3 Q And looking at this document right now,
4	4 Exhibit 12, are you aware of anything that is
5 THE VIDEOGRAPHER: Good morning. Here 9:22:59AM	5 inaccurate about the document? Take your time. 9:24:51AN
6 begins Volume II of the videotaped deposition of	6 A No, but there may be no updates or there
7 Dr. Vojin Oklobdzija in the matter of Apple, Inc.,	7 may be some misses in terms of updating it, so
/ Di. vojili oklobuziju li ule mater or ripple, ile.,	
8 et al. versus Memory Integrity, et al. Today's date	8 Q And in the bottom left of the first page,
8 et al. versus Memory Integrity, et al. Today's date9 is November 24th, 2015. We are on the record at	8 Q And in the bottom left of the first page,
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 8 et al. versus Memory Integrity, et al. Today's date 9 is November 24th, 2015. We are on the record at 10 9:23 a.m. 9:23:15AM 11 VOJIN G. OKLOBDZIJA, PH.D., 12 having been previously duly sworn, testified as follows: 13o0o 14 15 EXAMINATION 9:23:15AM 16 BY MR. BILLAH: 17 Q Good morning, Dr. Oklobdzija. 18 A Good morning. 19 Q My name is Zaed Billah. I represent the 20 Sony Petitioners in the three cases. I'll be 9:23:23AM 21 continuing your deposition this morning. 22 Do you understand you're still under oath 	 8 Q And in the bottom left of the first page, 9 you see it says modified January 24, 2013? 10 A That is correct, but I think that is 9:25:19AM 11 inaccurate too because I think there were further 12 modifications from 2013. 13 Q Okay. 14 Do you know the approximate date that this 15 document was updated? 9:25:28AM 16 Let me rephrase that 17 A I think it may have been it must have 18 been updated 2014, maybe early 2015 when I submitted 19 it. 20 Q Okay. 9:25:47AM 21 So this document is up to date as of early 22 2015, late 2014, best of your estimate?

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 from that time that you would want to tell us about? 9:26:01AM MR. SAUNDERS: Objection; form. 	1 THE WITNESS: Yes, as part of my teaching, 9:29:23AN 2 I was teaching cache and architecture and
3 THE WITNESS: No.	3 multiprocessors, supercomputing, et cetera.
4 BY MR. BILLAH:	4 BY MR. BILLAH:
5 Q Okay. 9:26:23AM	5 Q Well, apart from teaching, I'm talking 9:29:33AM
6 The bottom of page 1 there, Exhibit 12, it	6 about research. Did you do research in cache
7 says "Employment History."	7 coherent technology?
8 Do you see that?	8 A Not particular in cache coherence.
9 A Yes, I do.	9 Q Please turn to page 12 of your
10 Q And then your employment history seems to 9:26:28AM	10 declaration sorry, your CV. 9:29:47AM
11 go up until the middle of page 4; is that right?	11 A But I did I must qualify. I did work
12 A That is correct.	12 in industry with cache coherence.
13 Q Do any of these positions that you list	13 Q On page 12 it says it starts at the
14 here have to do with research and development?	14 top, "U.S. Patents."
15 A Yes. Several. 9:26:48AM	15 Do you see that? 9:30:05AM
16 Q Which ones?	16 A Yes, I do.
17 A Okay. So they start from the beginning.	17 Q And then continues to the bottom, it says
17 A Okay. So they start from the beginning. 18 Q Yes.	17 Q And then continues to the bottom, it says 18 "European Patents."
19 A So 1971 and '73, I was employed as a	19 Do you see that?
· · · · · · · · · · · · · · · · · · ·	20 A Yes, I do. 9:30:11AM
20 physicist in the Institute of Physics, which is a 9:26:58AM 21 research institution.	
22 '73 to '74, the Institute for Automation	21 Q And the next page, page 13, it says 22 "Japanese Patents."
,	
23 and Telecommunications, also a research institution.	23 A Yes, I do.
24 University of Belgrade is a university research	24 Q And then it seems that the patent section 25 of server CV and a many 14
25 institution, '74 to '76. 9:27:22AM Page 165	25 of your CV ends on page 14. 9:30:19AM Page 10
 research institution, '77 to '82. IBM, Watson Research Center is a research institutions and still is. University of California Berkeley is a research 	 A That's correct. Q Do any of these patents strike that. Are any of these patents in the field of
5 institution. 9:27:50AM	5 cache coherent technology? 9:30:30AM
6 The time I spent in Korea was at the	6 A They're not directly related to cache
7 University. Also I consulted for Samsung, and I did	7 coherence.
8 research in Korea. Ecole Polytechnique in	8 Q Please turn to page 15 of your CV.
9 Switzerland, 2004, is a research it's university	9 Below "Education," there's a bolded entry
10 and the research institution, and I did research 9:28:12AM	10 for "Publications." 9:30:45AM
11 there too. I did research, performed research or	11 Do you see that?
12 was engaged in research.	12 A I do.
13 Sidney University is a research	13 Q And the publications appear to go through
14 university, so is University of Texas at Dallas,	14 books, book chapters, journal papers, and it ends at
15 University of California Davis. 9:28:42AM	15 the bottom of page 20; is that correct? 9:30:58AM
16 Now, the research I maintained from the	16 A That's correct.
17 University of California at Davis, and I continue as	17 Q Do any of these publications deal
18 Emeritus Professor. It's a research group called	18 specifically with cache coherence technology?
19 Axel. And I think that ends it.	19 A Okay. So let's say Reference Number 2,
20 Q Thank you. 9:29:11AM	20 "Computer Engineering," I think it has sections, I 9:31:17AM
21 And in these positions that you have that	21 believe, on cache. Reference 5, "Digital Systems
22 have to do with research and/or development, did you	22 and Applications," I believe has reference on cache.
23 ever do any research specifically in cache coherent	23 "Arithmetic"
24 technology?	24 Okay. I have written computer
25 MR. SAUNDERS: Objection; form. 9:29:21AM Page 166	25 organization architecture. I don't believe there's 9:31:51AM Page 10

4 (Pages 165 - 168)

1 cache in there. 9:31:53AM	1 Q Okay. 9:36:27AM
2 Q Sorry, which one?	2 Let's flip to page 20 of your CV.
3 A That Number 2 on page 16. Okay. There's	3 A Okay.
4 a publication 27 on page 23; it does deal with	4 Q So there's a heading at the bottom; it's
5 cache. It's not particularly on coherency, but it's 9:33:20AM	5 titled "Conference Proceedings." 9:36:42AM
6 cache related. I think that is about it.	6 Do you see that?
7 Q Okay.	7 A Yeah.
8 So let me see if I can summarize the	8 Q And those conference proceedings are
9 answer. I'm not sure I got it.	9 listed and they seem to go to page 32; is that
10 We're talking about the publications, so 9:34:25AM	10 correct? 9:36:57AM
11 the section of your CV that's from page 15 to the	11 A That is correct.
12 bottom of page 20, of all of these publications,	12 Q Did any of these conferences take that
13 there are two publications that you're aware of that	13 back.
14 discuss cache coherency technology specifically; is	14 Do I understand it correctly that at all
15 that correct? 9:34:48AM	15 of these conference proceedings you actually spoke 9:37:10AN
16 A If if I mention two, then that's	16 at these conferences?
17 correct. I didn't count how many I mentioned.	17 A I cannot say 100 percent, but most of them
18 Q Okay.	18 I did.
19 I think those two, if you look at page 15,	19 Q And if you didn't speak at one of the
20 were item numbers 2 and 5 listed under the "Books" 9:34:58AM	20 conferences, why did you list them here in your CV? 9:37:28A
21 section of your CV; is that correct?	21 A Because this is how the conference
A Okay. 2 and 5 in the "Book," right.	22 publications are listed. I'm an author of those
23 Q Yes.	23 are not presentations. Those are papers that were
24 A And then further in "Publications," I	24 published.
25 think I mentioned one or two. 9:35:13AM	25 Q I understand. Okay. 9:37:44AM
Page 169	Page 17
1 Q On that point on the further publications, 9:35:16AM	1 A Those are they're papers published in 9:37:46AM
2 did any of the publications have to do with cache	
• •	2 journals and papers published in the conference
3 coherency technology as opposed to just cache?	2 journals and papers published in the conference 3 proceedings, books.
3 coherency technology as opposed to just cache?4 A Well, you cannot separate the two, but	3 proceedings, books.
4 A Well, you cannot separate the two, but	3 proceedings, books.4 Q Okay.
4 A Well, you cannot separate the two, but 5 I I don't have publications that I would 9:35:28AM	 3 proceedings, books. 4 Q Okay. 5 So actually where you said "Conference 9:37:55AM
 4 A Well, you cannot separate the two, but 5 I I don't have publications that I would 9:35:28AM 6 specifically target cache coherence. That's 	 3 proceedings, books. 4 Q Okay. 5 So actually where you said "Conference 9:37:55AM 6 Proceedings," these are actually all under the
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 4 A Well, you cannot separate the two, but 5 I I don't have publications that I would 9:35:28AM 6 specifically target cache coherence. That's 7 that's correct. 8 Q Okay. 9 So let's talk about this book, Number 2, 	 3 proceedings, books. 4 Q Okay. 5 So actually where you said "Conference 9:37:55AM 6 Proceedings," these are actually all under the 7 "Publication" sections? 8 A They're all publications, right. 9 Q Okay.
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