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

APPLE INC.,

Petitioner,

vs.

NO. IPR2016-01737 Patent No. 8,880,862

REALTIME DATA, LLC D/B/A IXO,

Patent Owner.

NO. IPR2016-01738
Patent No. 8,880,862

DEPOSITION OF CHARLES J. NEUHAUSER, PH.D.

Palo Alto, California

Wednesday, September 27, 2017

Reported By:

LINDA VACCAREZZA, RPR, CLR, CRP, CSR. NO. 10201 JOB NO. 19630



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1		1	INDEX
2		1 2	WITNESS: PAGE
3		3	CHARLES J. NEUHAUSER, PH.D.
4	September 27, 2017	4	EXAMINATION BY:
5	9:49 a.m.	5	MR. NOROOZI5
6	7.77 d.iii.	6	WK. NOKOOZI
7		7	EXHIBITS
8	Deposition of CHARLES J. NEUHAUSER, PH.D.,	8	(No exhibits were marked.)
9	held at Fish & Richardson, 500 Arguello Avenue,	9	(100 camons were marked.)
10	Redwood City, California, pursuant to Subpoena	10	
11	before Linda Vaccarezza, a Certified Shorthand	11	
12	Reporter of the State of California.	12	
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1	APPEARANCES:	1	CHARLES J. NEUHAUSER, PH.D.,
2	Representing the Petitioner:	2	having been duly sworn,
3	Fish & Richardon, P.C.	3	By the Certified Shorthand Reporter,
4	By: James Huguenin-Love, Esq.	4	Was examined and testified as follows:
5	Andrew Patrick, Esq.	5	EXAMINATION
6	500 Arguello Avenue, Suite 500	6	BY MR. NOROOZI:
7	Redwood City, California 94063	7	Q. Good morning, Dr. Neuhauser. How did you
8	Huguenin-love@fr.com	8	prepare for today?
9	Patrick@fr.com	9	A. I prepared for today? Well, leaving aside
10	Representing the Patent owner:	10	this particular declaration is part of a larger chain
11	NOROOZI PC	11	of events. I think you know that. And just leaving
12 13	By: Kayvan B. Noroozi, Esq.	12 13	that aside, let's see. I reviewed the patent. I reviewed the
14	1299 Ocean Avenue, Suite 450 Santa Monica, California 90401	$\begin{vmatrix} 13 \\ 14 \end{vmatrix}$	declarations that I've written previously, reviewed
15	Kayvan@noroozipc.com	15	the declaration that I just wrote, of course, and then
16	Kay van @noroozipc.com	16	the art I looked over Zwiegincew.
17		17	Let's see. What else did I do? I'm trying
18		18	to think of the other things that I've looked at. It
19		19	will probably come back to me. And then met with the
20		20	attorneys here, and let's see what else. That's about
21		21	it.
22		22	Q. How long did you spend in total preparing for
23		23	this deposition?
24		24	A. Leaving aside anything before the submission
		25	of the declaration, from that point, maybe 15 hours,

2 (Pages 2 to 5)



Page 8 Page 6 1 declarations? Which packets and proceedings are they 18 hours, something like that. 1 2 Q. And is that all for prep for this deposition, 2 in relation to? 3 or is it also partially for the work leading up to 3 A. I would have to look at them to tell you. I 4 4 mean, they are all related to the same base patent. your declaration? 5 A. No, no. That just includes from the time 5 I'm trying to remember. I believe they are all 6 6 that the declaration was submitted. I think that's related to the '862, with various subsets of claims. 7 7 O. You're also familiar with '608 and '906 8 8 Q. So about two, two and a half days of work? patents? 9 9 A. It could have been more, but I would have to MR. HUGUENIN-LOVE: Object to form. 10 THE WITNESS: '608 and '906? I believe those 10 think about it a little bit more to get a more 11 are the numbers for the -- they have the same 11 accurate idea. 12 specifications as the '862. So I'm familiar with them 12 Q. Did you review anything not cited in your 13 in that sense. I used, actually, the '609 for a while 13 declaration? 14 A. Let's -- is the declaration here some place? 14 instead of the '862, just as a reference, so... 15 15 O. I think it's in that stack of -- there are BY MR. NOROOZI: 16 16 two of your declarations, I believe one for the 1737 Q. All right. So did you take a look at Apple's 17 proceeding and one for the 1738. 17 response to Realtime's motion to amend? 18 A. Does it have -- do you want a number or 18 A. That does remind me of one other thing. I 19 19 looked at -- I can see the document. I looked at something? Q. So if you could just tell me --20 20 Dr. Back's declarations, and I believe the Patent 21 A. What it is? Office's -- not the Patent Office, but the patent 21 22 22 Q. -- which IPR proceeding's declaration you're owner's motion to amend -- and there were two of 23 23 those. And I think I probably looked at their Fish & looking at. 24 Richardson's -- I don't know what you call it, 24 One of them ends in --25 25 response or whatever. I probably looked at that. A. One of them should have a '37 or a '38. Page 7 Page 9 1 Q. Right. 1 Q. Okay. 2 A. I'll let you --2 A. I don't remember for sure, but I probably 3 MR. HUGUENIN-LOVE: I think if you look at 3 did. 4 the bottom right there. 4 Q. Now, you've submitted one declaration for the 5 5 1737 IPR and another one for the 1738, right? THE WITNESS: Oh, is that it? Okay. 6 MR. HUGUENIN-LOVE: There's a numbering. It 6 A. That's correct. 7 7 Q. Both of them are quite long. I think over says 17. 8 THE WITNESS: This is 38. 8 100 pages, right? BY MR. NOROOZI: 9 A. It seems that way, yes. 9 10 10 O. So --O. And --11 11 A. It so much nicer now that it's double-sided. A. Let's look at the --Q. You understand there's no particular page 12 Q. You have a list of materials considered at 12 13 the -- in your declaration, right? 13 limit on how long your declaration can be? 14 14 A. I do. Your question, did I review anything MR. HUGUENIN-LOVE: Object to form. 15 other than what's on this list? 15 THE WITNESS: I have some vague understanding 16 16 Q. Yes, that's right. of that, but I don't really know what the rules are. 17 A. Well, I don't see Zwiegincew on this list, 17 BY MR. NOROOZI: but I did look at Zwiegincew, just to refresh my Q. In putting together your declaration, you 18 18 19 memory as to what it was. didn't feel the need to leave certain opinions that 19 20 Q. Anything else? 20 you thought were important out because of a page limit 21 A. Well, I don't think this list lists the other 21 constraint, right? 22 22 declarations that I submitted, but I already told you MR. HUGUENIN-LOVE: Object to form. that, right, that I looked at the previous three 23 THE WITNESS: I never thought that I had a 23 24 page limit constraint. Nobody ever told me I did. So 24 declarations. 25 25 Q. And just to be clear, which are those three I just wrote what I wrote. 3 (Pages 6 to 9)

Page 10 Page 12 1 BY MR. NOROOZI: They certainly seemed appropriate to Dr. Back, I 1 2 2 Q. And your goal for your declaration was to think his name is, and so those were the ones I 3 address what you thought was the closest prior art 3 looked at because I thought they were good art. 4 4 in response to the proposed amendments that BY MR. NOROOZI: 5 Realtime has put forth? 5 Q. You considered other art as a part of the 6 6 MR. HUGUENIN-LOVE: Object to form. analysis that led you to those two particular 7 7 THE WITNESS: Well, I think that's generic references? 8 8 goal. I think that's correct. A. I considered other art. Prior to doing 9 9 BY MR. NOROOZI: this, previous declarations, I probably thought 10 10 Q. In preparing your declaration, did you about where other art might be found. I probably review or consider Apple's invalidity contentions 11 -- I don't think I took under -- undertook any 11 12 12 in the district court litigation? systematic search. I was just kind of curious 13 13 A. I have no idea what they are. Their what? about mostly what a person of under -- ordinary 14 14 skill would understand, what they might know. But I'm sorry. 15 15 Q. Invalidity --I don't think I undertook any systematic look. A. Invalidity? 16 16 Q. Did you, at any point in your work in 17 O. -- contentions. 17 relation to the common specification of the '862 18 A. I don't believe so. 18 patent, the '608 patent, and I believe the '936 19 19 O. And it's fair to say that your declaration patent, come across the Esfahani prior art 20 does not discuss all of the different prior art 20 reference? 21 references that are listed in the approximately 29 21 MR. HUGUENIN-LOVE: Objection. 22 pages of prior art listed on the cover -- on the 22 Foundation. 23 23 front of the '862 patent? MR. NOROOZI: And please just keep your 24 24 MR. HUGUENIN-LOVE: Object to form. objections to form. 25 THE WITNESS: Do I discuss all of those? 25 THE WITNESS: Estafani? Page 11 Page 13 1 I do not. 1 BY MR. NOROOZI: 2 BY MR. NOROOZI: 2 O. I believe it's Esfahani. 3 3 Q. Did you go about reviewing those A. Esfahani. I'm aware that there exists, 4 references, and trying to identify whether any of 4 but from the previous declaration that I wrote. I 5 5 them were relevant to the amendments sought in the don't remember whether I looked at it depth or not. 6 6 motion to amend? I know it exists. 7 7 A. Did I review any of them or all of them? Q. You don't have any --8 8 Or --A. Dr. Back mentioned it, too, so... 9 9 Q. Did you systematically go through the list Q. You don't have any opinion in the two 10 10 of the prior art cited in the '862 patent to see if declarations that you submitted in response to 11 11 there were references other than Settsu and Realtime's motion to amend with respect to the 12 12 Zwiegincew that you thought were relevant to the Esfahani reference, right? 13 amendments sought? 13 MR. HUGUENIN-LOVE: Object to form. 14 14 A. I did not. THE WITNESS: I think the best way to --15 15 do you have "Estafani"? Q. At some point, a process was undertaken, 16 whether by you directly or in conjunction with 16 BY MR. NOROOZI: 17 17 Apple's lawyers, to identify what you and Apple Q. Esfahani. 18 believe is the best and strongest and most relevant 18 A. Esfahani. Do you have it here? 19 19 prior art for demonstrating in your views the O. I do not. 20 20 unpatentability of the claims of the '862 patent, A. Okay. I mean, I can't exclude the 21 right? 21 possibility that I might have remembered something 22 from that that might have influenced me in some 22 MR. HUGUENIN-LOVE: Object to form. 23 23 THE WITNESS: Well, I don't know what way, but I didn't look at it specifically to 24 24 Apple has done with respect to that. The two produce this declaration. I would have put it in 25 pieces of prior art I used seemed appropriate. front if I had.

4 (Pages 10 to 13)

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Page 14 Page 16

- Q. In your list of materials considered, you don't mention the Esfahani reference, right?
 - A. No. I don't.

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Q. And when you came to prepare your declarations that you submitted in response to the motions to amend that we are talking about today, you did not rely on Esfahani as relevant prior art that you thought demonstrated unpatentability with respect to the requested amended claims. True?

MR. HUGUENIN-LOVE: Object to form.

THE WITNESS: I don't -- I don't think I relied on Esfahani in preparing this declaration. BY MR. NOROOZI:

- Q. You also did not rely on the Sukegawa reference in preparing the declarations that you submitted in response to the motions to amend. True?
 - A. Yes. That's correct.
- O. You do not offer an opinion in your declarations that the sought amended claims would be unpatentable over Sukegawa, whether alone or in combination with any other reference, right?
- A. Sukegawa alone or in combination with any other reference? I don't believe I made any use of Sukegawa.

Q. And in your declaration, you do not dispute that the amendments that Realtime is seeking are responsive to the arguments and assertions that Apple has put forth in the underlying inter partes review proceedings; is that right?

MR. HUGUENIN-LOVE: Objection. Form. THE WITNESS: I'm not sure I understand the question.

Keep subdividing it, maybe. I'm not sure I understand what you mean by "responsive to" and so forth. So let me hear it again or break it down.

BY MR. NOROOZI:

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Q. Well, it's fair to say that you don't have an opinion in your declaration that the amendments that Realtime is seeking are unrelated to anything that is being discussed and debated in the underlying inter partes Review Proceeding; is that fair?

MR. HUGUENIN-LOVE: Objection. Form. THE WITNESS: Say it again. I don't understand the question well enough to determine whether or not I have an opinion or no opinion about it. That's the problem.

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Page 15

- Q. You also don't dispute in your declarations that the amendments that Realtime has sought are responsive to the grounds of unpatentability that are at issue in the underlying IPRs themselves, right?
- A. Well, you're going to have to give that back to me again. There's a lot kind of technical terms in there I might have to ask you about. So not my technology, yours. Just say it one more time or have it read back.
 - O. Let me break it down.
 - A. Yeah, yeah. That will help a lot.
- Q. You understand that these motions to amend have been filed in the course of inter partes review proceedings?
 - A. Yes, I understand that.
- Q. And you're aware that in the inter parte review proceedings, Apple has put forth grounds of unpatentability based on which it contends that the existing claims of the '862 patent are unpatentable?
- A. The existing claims; not the claims -- the amended claims, the existing claims?
 - Q. Right.
 - A. Yes, I believe I have that understanding.

BY MR. NOROOZI:

- Q. You understand the concept of someone making an argument and someone else making a responsive argument, right?
 - A. I understand that.
- O. And you also understand the converse, where someone makes an argument, and someone else makes an unresponsive kind of irrelevant response to the argument, right?
 - A. I've seen that. Yes, I understand that.
- O. Now, in the underlying inter partes review proceedings, there are questions as to whether the prior art teaches the various limitations of the '862 claims with respect to loading and the appropriate type of memory and so forth, right?
 - A. Just say it again.
- Q. Let me withdraw that and ask a different one.
- A. Or just read it back. When it gets long like that, I kind of lose track of the beginning is the problem.
 - Q. Let me withdraw.
- 23 A. Sure.
- 24 Q. You do not offer an opinion in your 25 declaration that a person of skill in the art would

5 (Pages 14 to 17)



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