Page 1

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,
Petitioner

v.

REALTIME DATA, LLC D/B/A IXO,
Patent Owner

Case IPR2016-01737 Case IPR2016-01738 Case IPR2016-01739 Patent 8,880,862

ORAL DEPOSITION OF CHARLES J. NEUHAUSER, Ph.D. JUNE 2, 2017

ORAL DEPOSITION OF CHARLES J. NEUHAUSER, Ph.D., produced as a witness at the instance of the Patent Owner, taken in the above-styled and -numbered cause on the 2nd day of June, 2017, A.D., beginning at 8:56 a.m. to 6:19 p.m., before Kelly Hassell, RPR, CLR, CSR, in and for the State of Texas, in the offices of Winston & Strawn LLP, located at 2501 North Harwood, 17th Floor, Dallas, Texas, in accordance with the Federal Rules of Civil Procedure and the agreement hereinafter set forth.

DIGITAL EVIDENCE GROUP
1730 M Street, NW, Suite 812
Washington, D.C. 20036
(202) 232-0646

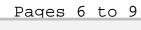


1	APPEARANCES	1	EXHIBITS
2	FOR THE PETITIONER: MR. MICHAEL BITTNER	2	EXHIBIT NO. DESCRIPTION PAGE
	Winston & Strawn LLP		Exhibit 2003 Patent office's trial practice guide 7
3	2501 North Harwood 17th Floor	'	Exhibit 2004 "Declaration of Dr. Charles J. 60
4	Dallas, Texas 75201	5	
5	(214) 453-6464 (214) 453-6400 (Fax)		Neuhauser," Docket No. 39521-0025IP1
6	mbittner@winston.com		Exhibit 2005 "Declaration of Dr. Charles J. 60
-	and	7	Neuhauser," Docket No. 39521-0025IP1
7	MR. ANDREW B. PATRICK	8]	Exhibit 2006 "Declaration of Dr. Charles J. 61
8	Fish & Richardson The McPherron Philiding	9	Neuhauser," Docket No. 39521-0025IP3
9	The McPherson Building 901 15th Street, Northwest	10]	Exhibit 2007 "Microsoft Computer Dictionary Fifth 275
10	Suite 700 Washington, D.C. 20005	11	Edition"
11	(202) 783-5070	12	
	(202) 783-2331 (Fax) patrick@fr.com	13	
12	FOR THE PATENT OWNER:	14	
13	MR. JOSEPH F. EDELL	15	
14	MR. ALAN M. FISCH MR. BILL SIGLER		
15	Fisch Sigler LLP 5301 Wisconsin Avenue, Northwest	16	
	Fourth Floor	17	
16	Washington, D.C. 20015 (202) 362-3527	18	
17	(202) 362-3501 (Fax)	19	
18	joe.edell.ipr@fischllp.com alan.fisch@fischllp.com	20	
19 20	bill.sigler@fischllp.com	21	
21		22	
22			
	Page 2		Page 4
1	INDEX	1	PROCEEDINGS
2	AppearancesPage 2	2	THE COURT REPORTER: Today is June 2, 2017.
3	Exhibit ListPage 4	3 7	The time is approximately 8:56 a.m.
4	Direct Examination by Mr. EdellPage 5	4	This is the deposition of Charles J.
5	Cross-Examination by Mr. Bittner Page 258	5 1	Neuhauser, Ph.D., in the matter of Realtime Data, LLC
6	Redirect Examination by Mr. Edell		versus Apple Inc.
7		7	* *
8	Stipulations		Will all counsel present please state their
	Reporter's Certificate		appearance and whom they represent.
9		9	MR. EDELL: Good morning. Joe Edell, of
10			Fisch Sigler, on behalf of the Patent Owner, Realtime Data,
11		11 I	LLC d/b/a IXO. Joining me is cocounsel Alan Fisch and Bill
12		12 5	Sigler, also of Fisch Sigler LLP.
13		13	MR. BITTNER: Michael Bittner, of Winston &
14		14 5	Strawn, on behalf of the Petitioner and Defendant Apple and
15		15 t	the witness. I have with me cocounsel Andrew Patrick of
16		16 H	Fish & Richardson.
17		17	CHARLES J. NEUHAUSER, Ph.D.,
18			naving been first duly cautioned and sworn to testify the
19			·
			truth, the whole truth and nothing but the truth, testified
20			on his oath as follows:
21		21	DIRECT EXAMINATION
22		1 22 -	
22		²² I	BY MR. EDELL:





1	Q Good morning.	direct examination shall not: (a) Consult or confer with
2	A Good morning.	the witness regarding the substance of the witness'
3	Q Will you please state and spell your name for the	testimony already given, or anticipated to be given, except
4	record.	4 for the purpose of conferring on whether to assert a
5	A I'm Charles J. Neuhauser. That's	5 privilege against testifying or on how to comply with a
6	N-E-U-H-A-U-S-E-R.	Board order; or (b) suggest to the witness the manner in
7	Q Dr. Neuhauser, how many times have you been	7 which any questions should be answered."
8	deposed?	8 A Uh-huh.
9	A Probably 30, 40, 50 times.	⁹ Q Do you understand those
10	Q And how many depositions for an inter partes	10 A I do.
11	review?	¹¹ Q information?
12	A I think probably someplace between 10 and 12.	So in other words, you cannot discuss the
13	Q What, if any, differences are there between a	deposition testimony with your attorneys while the
14	deposition involving a litigation and a deposition	deposition is ongoing; is that fair?
15	involving an inter partes review?	MR. BITTNER: Objection; form.
16	MR. BITTNER: Objection; form.	A Well, I understand that. Yeah.
17	A From my perspective, I don't think there's any.	Q (BY MR. EDELL) But you understand that?
18	Q (BY MR. EDELL) So are you aware of any	A I mean, is that what you're asking me is
19	differences between	that you're not asking me whether that's fair in some
20	A I'm not.	you're asking whether your summary of this is fair?
21	Q So I'm handing well, I've already handed the	21 Q Correct.
22	court reporter what has been marked as Realtime	A Yeah, that's my understanding.
	Page 6	Page 8
		-
1	Exhibit 2003. This is a the patent office's Trial	Q So you you're not going to confer with your
2	Practice Guide.	attorneys during breaks; is that correct?
3	(Exhibit 2003 marked.)	3 A That's correct.
4	MR. EDELL: One second a moment. I've got	4 Q You can set this document aside.
5	to find the copies.	5 Are you currently employed?
6	Q (BY MR. EDELL) Dr. Neuhauser, have you seen this	6 A Yes, I am.
7	document before?	⁷ Q Where are you employed?
8	A No, I have not.	8 A I well, self-referential, I work for myself.
9	Q Well, let me direct your attention to a section	⁹ My company name is called Neuhauser Associates,
10	beginning on the page in the upper left corner on	¹⁰ Incorporated.
11	Page 48772, Appendix D.	Q Is that your only employment?
12	A 48 oh, 772.	12 A Yes.
13	Q Yes, sir.	Q Okay. And where do you work?
14	A Appendix D, as in delta?	14 A Where do I work?
15	Q Correct.	¹⁵ Q Where?
16	A Okay.	A I well, 99 percent of the time I work out my
17	Q Okay. There's a number of paragraphs. I'll	17 office.
18	direct you to Paragraph 6. It's in the far right column.	Q And where is your office located?
19	A Uh-huh.	A The address? 525 West Remington Drive,
20	Q Paragraph 6 reads, "Once the cross-examination of	Suite 126, Sunnyvale, California 94087.
21	a witness has commenced, and until cross-examination of the	Q And what do you do?
22	witness has concluded, counsel offering the witness on	A What do I do? Well
	Page 7	Page 9
		<u> </u>





		-
1	Q What do you as through your job?	litigation is a patent; it's a software copyright or it's a
2	A Well, I tell people my job is to provide	² trade secret.
3	technical advice to folks, mostly about matters related to	³ Q Okay. In this case, how would you describe your
4	litigation.	4 role?
5	Q And that's the total scope of your work there?	5 MR. BITTNER: Objection to foundation.
6	MR. BITTNER: Objection; form.	⁶ A How would I describe my role? Well, evaluate
7	A Well, people come to me and ask me to do things,	7 prior art and determine whether or not that prior art
8	and I help them out as best I can. I mean, I can describe	applies to a well, this particular case, that there were
9	it in more detail, if you want, if that's what you're	9 three IPRs, but we're here concerned only with one set of
10	looking for.	10 IPRs today, right, the three that the deposition was
11	Q (BY MR. EDELL) I'm just looking to ensure that I	11 noticed on.
12	got the full scope of what you do at	Basically review prior art, determine
13	A Sure.	whether or not it applied and develop a declaration and
14	Q Neuhauser Associates.	14 testify about it.
15	And so to summarize your answer, you provide	Q (BY MR. EDELL) And you mentioned the IPR. So
16	consultation typically for litigation matters?	you're here today to testify regarding your opinions for
17	MR. BITTNER: Objection; form.	the IPRs involving U.S. Patent 8,880,862, correct?
18	A I provide technical advice, and I say "typically"	18 A '862 is what I call it, yes.
19	for litigation matters.	Q So I was correct? That's correct?
20	Q (BY MR. EDELL) What other examples of what	20 A That's correct.
21	are some of the other matters that you provide technical	MR. EDELL: So I'm going to hand the court
22	advice for?	reporter what has previously been marked as exhibit
	Page 10	Page 12
1	A Well, I've I've helped people out in some kind	¹ Apple Exhibit 1001. And this is Exhibit 1001.
2	of business negotiations, for example. But, you know, just	² In each of the IPR the 2016 IPR 01737,
3	a maybe I can help you out here.	³ 01738 and 01739, Exhibit 1001 is U.S. Patent 8,880,862
4	You know, with respect to litigation, I've	4 entitled "Systems and Methods for Accelerated Loading of
5	done work on patents, software copyrights, trade secrets.	5 Operating Systems and Application Programs."
6	Okay? So those are the kind of basic things people come to	6 MR. BITTNER: Objection; form.
7	me with. And then I've done some things on business	⁷ Q (BY MR. EDELL) Dr. Neuhauser, do you recognize
8	negotiations.	8 this document?
9	Q So about what percentage of your time is spent	9 A Yes, I do.
10	advising on litigation matters?	Q And if I refer to this as the '862 patent you'll
11	MR. BITTNER: I'll object to the form.	understand I'm referring to Exhibit 1001?
12	A Well, the clients, I would say, in the last few	12 A I will.
13	years, probably 90 percent.	Q And this is the patent with which you provided
14	Q (BY MR. EDELL) To round it out, when you say "in	opinions for the IPRs I mentioned before?
15	the last few years," what years what range are you	15 A That's right.
16	referring to?	MR. BITTNER: Objection; foundation.
17	A Well, over the last few years the last five	Q (BY MR. EDELL) How many times have you read the
18	years, let's say.	¹⁸ '862 patent?
19	Q So in the last five years your work has been	19 MR. BITTNER: Objection; form.
20	about 90 percent on advising for litigation matters?	A Well, I've probably I'll have to qualify this
21	A Yeah, giving people technical advice and	little part here (indicating), the front page and the
22	engineering things related to litigation, because usually a	actual this the figures and the text and the back, I
	Page 11	Page 13

1	probably read that I mean, you know, putting aside just	1	Q Okay. So in Claim 1 in the loading step of
2	referring to it probably five or six times cover	2	Claim 1 it states explicitly "boot data in a compressed
3	cover to cover. The references here, I haven't really	3	form"; is that correct?
4	studied those. I mean, there's thousands of them. Well,	4	A It it states that, yes.
5	maybe not thousands, but hundreds.	5	Q And this means the boot data being loaded into
6	Q (BY MR. EDELL) So you're referring to Pages 2	6	memory has already been compressed?
7	through	7	MR. BITTNER: I'll object to the form.
8	A Probably 22 or something, 27, 29.	8	A I just have to get my mind warmed up here. It's
9	Q So setting aside the references cited on Pages 2	9	early in the morning, so let me review this for a minute.
10	through 29 of the '862 patent, you've read the remaining	10	Do you have my declaration for this?
11	pages approximately five or six times, correct?	11	Q (BY MR. EDELL) I do.
12	A That that's that	12	A May I have it?
13		13	Q We'll get to that.
14	MR. BITTNER: Objection; form.	14	But I'm asking you what you know, what
15	A seems right to me.	15	
	Q (BY MR. EDELL) I want to direct you to Claim 1	16	the words on the page of '862 are describing.
16	of '862, so we'll skip over those	17	A Well, I mean, it's in my declaration, so if you
17	A Okay.	18	would just present it to me that would probably shorten
18	Q (inaudible) pages.		things.
19	And this is in Column 26 of the '862 patent,	19	Q Well, let me ask you a question that maybe you
20	correct, sir?	20	can answer without having to defer to your declaration.
21	A That's correct.	21	A Without deferring to my declaration? I'd just
22	Q So Claim 1 of the '862 patent begins, "A method	22	like to refer to it.
	Page 14		Page 16
1	for providing accelerated loading of an operating system in	1	Q Okay. Well, we're going to talk about Claim 1
2	a computer system, the method comprising"	2	for now.
3	That's correct?	3	So Claim 1, Step 1, a person of skill in the
4	A That's correct.	4	art when they read the step understands that the data
5	Q And then that's followed by the first step, which	5	the boot data is compressed when it's loading it, correct?
6	reads, "Loading a portion of boot data in a compressed form	6	MR. BITTNER: I'll object to the form.
7	that is associated with a portion of a boot data list for	7	A I'm not I'm not sure I quite understand your
8	booting the computer system into a memory."	8	-
9			question. Do you think compression is part of the step; is
10	Correct?	10	that what you're trying to say? You said it is compressed?
11	A That's correct.		Q (BY MR. EDELL) What I'm asking is, when a person
12	Q So Step 1 describes loading boot data; is that a	11	of skill in the art reads so when I
	fair description?	12	A Okay. Yeah.
13	MR. BITTNER: Objection; form.	13	Q have just read that phrase, the common phrase
14	A Well, I don't think that describes the step. I	14	I'm sure you're familiar with, if I refer to that as
15	mean, that just I mean, you can refer to it that way, if	15	POSITA, will you understand that refers to a person of
16	you want, but that it has more words than that. Words	16	ordinary skill in the art?
17	are important, they're there for a purpose.	17	A Yeah. It's a dreadful term, but, yeah, I
18	Q (BY MR. EDELL) For purposes of of Claim 1, if	18	understand it.
1.0	I refer to the loading step, you'll at least understand	19	Q Do you prefer that or POSITA or which one
19	• • •		
20	what I'm referring to? That's the first step that I just	20	do you
	• • •	20	do you A The same, a person of ordinary skill in the art.
20	what I'm referring to? That's the first step that I just		·

DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

