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

APPLE, INC.,

Petitioner,

vs.

PERSONALIZED MEDIA COMMUNICATIONS, LLC,

Patent Owner.

Case No. IPR2016-01520

Patent No. 8,559,635

- - - - - - - - - -

Videotaped Deposition of

Alfred C. Weaver, Ph.D.

Washington, D.C.

Wednesday, July 26, 2017

10:11 a.m.

Reported by:

Laurie Bangart Donovan, RPR, CRR

Job No. 19233

TransPerfect Legal Solutions 212-400-8845 - Depo@TransPerfect.com



	Page 2		Page 4
1	Videotaped Deposition of	1	EXAMINATION INDEX
2	ALFRED C. WEAVER, Ph.D.	2	PAGE
3	, , , , , , , , , , , , , , , , , , ,	3	EXAMINATION BY MR. SERNEL 6, 166
4	Held at the offices of:	4	EXAMINATION BY MR. SCHREINER 123
5	Kirkland & Ellis, LLP	5	
6	655 15th Street, NW	6	
7	Suite 1200	7	
8	Washington, D.C. 20005	8	
9	(202)879-5233	9	
10		10	
11		11	EXHIBITS
12		12	(None marked)
13		13	
14		14	
15		15	
16		16	
17	Taken pursuant to notice, before	17	
18	Laurie Bangart Donovan, Registered	18	
19	Professional Reporter, Certified Realtime	19	
20	Reporter, and Notary public in and for the	20	
21	District of Columbia.	21	
22		22	
23		23	
24		24	
25		25	7
	Page 3		Page 5
1	APPEARANCES	1	PROCEEDINGS
2	ON BEHALF OF THE PATENT OWNER, PERSONALIZED MEDIA COMMUNICATIONS:	2	THE VIDEOGRAPHER: This is media
4	Goodwin Procter, LLP	3	number 1 of the videotaped deposition of
5	901 New York Avenue, N.W.	4 5	Dr. Alfred Weaver in the matter of Apple, Inc. versus Personalized Media
6	Washington, D.C. 20001	6	Communications, LLC, in the United States
7	(202)346-4000	7	Patent & Tradmark Office before the Patent
8	By: Stephen T. Schreiner, Esq.	8	Trial and Appeal Board, number IPR
9	sschreiner@goodwinlaw.com	9	2016-01520.
10	ON BEHALF OF THE PETITIONER, APPLE, INC.:	10	This deposition is being held at
11	Kirkland & Ellis LLP	11	Kirkland & Ellis, 655 15th Street, Northwest,
12	300 North LaSalle Street	12	Suite 1200, Washington, D.C., 20005, on
13	Chicago, Illinois 60654	13	July 26, 2017, at approximately 10:11 a.m.
14	(312)862-2389	14	My name is David Campbell, and I am
15	By: Marcus E. Sernel, Esq.	15	the legal video specialist. The court
16	marc.sernel@kirkland.com	16	reporter is Laurie Donovan. Both of us are
17	ALSO PRESENT:	17	in association with TransPerfect.
18	David Campbell, Videographer	18	Counsel, will you please identify
19		19	yourself for the record, and the witness will
20		20	be sworn in.
21		21	MR. SERNEL: My name is Marc Sernel
22		22	with the law firm of Kirkland & Ellis, and I
23		23	represent Apple.
24		24	MR. SCHREINER: My name is Stephen
25		25	Schreiner, and I'm with the law firm of

2 (Pages 2 to 5)

TransPerfect Legal Solutions 212-400-8845 - Depo@TransPerfect.com



	Page 6		Page 8
1	Goodwin Procter, and I represent Personalized	1	A No.
2	Media Communications, LLC.	2	Q Okay. So I referenced the fact that
3	ALFRED C. WEAVER, Ph.D.,	3	you've given prior depositions with respect to
4	having been first duly sworn, testified	4	issues for PMC patents, including in matters
5	upon his oath as follows:	5	involving Apple, correct?
6	EXAMINATION BY COUNSEL FOR APPLE	6	A That's correct.
7	BY MR. SERNEL:	7	Q Do you recall off the top of your head
8	Q Good morning, sir.	8	how many depositions you've had with regard to
9	A Good morning.	9	your opinions regarding PMC patents?
10	Q Could we get your full name for the	10	A No.
11	record again?	11	Q Rough guess of five?
12	A Sure. Alfred Charles Weaver.	12	A Four.
13	Q What is your current home address?	13	Q Four?
14	A My home address is 1400 Ballard Woods	14	A But it's a guess.
15	Court, Charlottesville, Virginia, 22901.	15	Q Okay. In any of your prior depositions,
16	Q Now, I know you've been deposed several	16	do you strike that.
17	times before, and we've had the pleasure of being	17	Sitting here today, do you recall any
18	together for a deposition in the past. I want to	18	testimony you've provided regarding PMC patents in
19	go over a few of the sort of ground rules that	19	the past that you now believe to have been
20	will govern our deposition here today.	20	inaccurate in any way?
21	It's important that you understand each	21	A No, I, I don't recall.
22	of my questions and every part of the question.	22	Q Same question for any expert reports or
23	If for some reason you don't understand a question	23	declarations that you've submitted in prior
24	or a part of a question, you need to tell me that	24	proceedings regarding PMC's patents: Anything,
25	so that I can clarify the question for you. So.	25	sitting here today, that you would recall as being
	Page 7		Page 9
1	Will you agree to tell me if you don't	1	inaccurate that you've provided at a prior
2	understand a question or part of a question?	2	declaration or expert report?
3	A I will agree.	3	A Nothing that I recall.
4	Q It's also important that you hear each	4	Q Okay. Now, you understand today the
5	of my questions and every part of a question. If	5	focus of our discussion is going to be on the
6	for some reason you don't hear a question or you	6	PMC's '635 patent.
7	think you've missed part of a question, you need	7	Do you have that understanding?
8	to tell me that so that I can reask the question	8	A I do.
9	to you.	9	Q And do you understand that PMC is
10	So will you agree to tell me if you	10	alleging that the '635 patent has a priority date
11	don't hear a question or a part of a question?	11	dating back to a 1981 patent application that was
12	A I do.	12	filed by PMC, correct?
13	Q It's also important that we don't talk	13	A That is my understanding.
14	over one another, in part for the court reporter's	14	Q Okay, and so I'm going to ask you some
15	ability to take down everything that's said, but	15	questions about kind of what a person of skill in
16	also I don't want to cut you or prevent you from	16	the art knew in the 1981 time frame.
17	finishing an answer. I want full complete answers	17	Is that okay?
18	to my questions. So if I ever cut you off or	18	A Sure.
19 20	prevent you from finishing an answer, you need to	19 20	Q Now, did you consider yourself a person
21	tell me that.	21	of skill in the art of the technology of the '635 patent in 1981?
22	So will you agree to do that? A I will.	22	A Yes.
23	Q Is there any medication or illness that	23	Q And what do you consider to be the
24	would prevent from you testifying truthfully and	24	technology of the, of the '635 patent?
25	accurately today?	25	A I have a description of that in my
		~	I make a description of that in my

3 (Pages 6 to 9)

TransPerfect Legal Solutions 212-400-8845 - Depo@TransPerfect.com



Page 12 Page 10 1 1 report. Why don't I just -the subscriber station, or it's also called an 2 2 Q And just so we'll -- and I, I understand "end-user station." 3 and we can note for the record, in front of you 3 Q In that sentence I just read, it refers to an "analog or digital information transmission 4 you have a marked-up copy of your declaration, 4 5 5 which I believe is PMC Exhibit 2023, that it system." 6 6 contains some, some of your notes; is that Do you see that? 7 7 correct? A I do. 8 8 A That's right. Q What would be a digital information 9 Q Okay. I'm also going to hand you a 9 transmission system? 10 clean copy of PMC Exhibit 2023. I may -- I'm 10 A Digital information can be transmitted 11 11 going to refer to that, but certainly if you need over analog or digital transmission media, so I 12 to refer to your notes, you can go ahead and do 12 give some examples later on of, of how that's 13 13 so, so I'll hand you that. accomplished. 14 1 4 A Okay. Q And can you provide one example for me? 15 15 Q So you've said that you -- you A Sure. So analog information could be 16 referenced, I believe, Exhibit 2023, your 16 transmitted -- sorry. You asked about digital 17 17 declaration, as describing the general technology information. 18 18 of the '635 patent? Q Yep. 19 19 A Yes. I do that in section 5. A Digital information could be transmitted 2.0 Q Okay, and I'm looking now. Is that 20 over an analog medium, and just as one example, by 21 starting at paragraph 37 of Exhibit 2023? 21 modulating a carrier wave, digital information can 22 A That is correct. 22 be transmitted over digital media. An example --23 23 Q If we look at paragraph 38, next page, one example would be laser technology or telephone which is page 21 of Exhibit 2023, you talk about 24 technology, and there are others that are 24 25 25 the '635 patent "describes a novel specifically described later on. Page 11 Page 13 1 Q So you said "laser technology." What, 1 signal-processing system having multiple layers of 2 2 transmitter station devices that are able to what are you referring to? 3 control addressable receiver devices in large 3 A So one of the examples in the '635 is a 4 networks." 4 laserdisc communication system which can both 5 Do you see that? 5 record and play, and so the information stored on 6 6 A I do. That's the first sentence. a laserdisc system in the embodiments in the '635 7 7 Q Okay, and then the next sentence says, is digital information, and so it's a digital path 8 8 "For example, the '635 patent specification in between the videodisc player and, and an 9 9 discloses, among other things, an end-to-end intermediate transmitter station or receiver 10 1.0 networked system that can distribute digital station. 11 information over an analog or digital information 11 Q Okay. So in your opinion, the laserdisc 12 transmission system from transmitter stations to 12 communication system that's mentioned in the '635 13 receiver stations." 13 patent would be a digital information transmission 14 14 Do you see that? system? 15 15 A I do. A Yes, that's right. 16 16 Q And then you say that a receiver station Q You also mentioned telephone. Is that 17 17 is sometimes interchangeably referred to in your another example of a digital information 18 18 declaration as a "subscriber station," correct? transmission system? 19 A Correct. 19 MR. SCHREINER: Objection. Form. 20 Q So essentially receiver stations and 20 THE WITNESS: Yes. It's one 21 subscriber stations are referring to the same 21 example. 22 22 BY MR. SERNEL: thing? 23 23 A The -- there are, there are also -- just Q And just so I understand, in the 24 to be clear, there are also intermediate receiver 24 sentence you say that digital information can be 25 25 transmitted either over an analog information stations, but an example of a receiver station is

4 (Pages 10 to 13)

TransPerfect Legal Solutions 212-400-8845 - Depo@TransPerfect.com



	Page 14		Page 16
1	transmission system or a digital information	1	BY MR. SERNEL:
2	transmission system, correct?	2	Q Any television signal that was
3	A That's correct.	3	transmitted consistent with the NTSC standard in
4	Q So the transmission system is not	4	1981 would have been an analog information
5	defined by what it's necessarily carrying. A	5	transmission, correct?
6	digital information transmission system can carry	6	MR. SCHREINER: Objection. Form.
7	analog information, it can carry digital	7	THE WITNESS: If, if, as you say,
8	information, or it can carry some of both; is that	8	we restrict the conversation to NTSC-
9	fair?	9	compliant broadcast transmissions, then yes,
10	MR. SCHREINER: Object to the form.	10	that's true. That is an analog transmission
11	Vague and ambiguous.	11	standard.
12	THE WITNESS: An analog medium can	12	BY MR. KLINE:
13	carry analog information, or, if that analog	13	Q And to comply with the NTSC standard in
14	information has been digitized, can carry	14	1981, the transmission would have to include
15	digital information. Digital media can carry	15	things like analog synchronization signals,
16	digital information, or if, if analog	16	correct?
17	information has been digitized, it can carry	17	A NTSC does require some analog
18	digital information.	18	synchronization signals as part of the standard.
19	BY MR. SERNEL:	19	Q Now, you understand that some of the
20	Q Now, in 1981, transmission of television	20	claims in the '635 patent that we're talking about
21	signals would have been pursuant to an analog	21	here today include a limitation that requires a
22	information transmission system, correct?	22	digital information transmission unaccompanied by
23	MR. SCHREINER: Object to the form.	23	any non-digital information transmission, correct?
24	Foundation.	24	A Yes. Four of the claims do have that
25	THE WITNESS: That is one example.	25	limitation.
	Page 15		Page 17
1	BY MR. SERNEL:	1	Q You would agree that any transmission
2	Q Would you agree that in 1981, the	2	conducted pursuant to the NTSC standard would not
3	conventional way of transmitting television	3	meet that requirement of the '635 patent claims
4	signals would have been pursuant to an analog	4	that the transmission would be unaccompanied by
5	information transmission system, correct?	5	any non-digital information transmission, correct?
6	A In the, in the particular example of	6	A No.
7	NTSC, broadcast television, that would be true.	7	Q You disagree with my statement?
8	However, digital television was known and could be	8	A I disagree with your statement.
9	transmitted over either analog or digital	9	Q And can you explain that disagreement?
10	carrier media.	10	A Mm-hmm, because the information that is
11	Q You said "NTSC." What is that?	11	carried over NTSC is allowed to be digital.
12	A That was the broadcast standard in	12	Q Right, but we already agreed that any
1		112	
13	America for broadcast TV.	13	communication transmitted pursuant to the NTSC
	America for broadcast TV. Q In 1981?	$\begin{vmatrix} 1 & 3 \\ 1 & 4 \end{vmatrix}$	communication transmitted pursuant to the NTSC standard in 1981 would have contained analog
13			
13 14	Q In 1981?	14	standard in 1981 would have contained analog
13 14 15	Q In 1981? A In 1981.	14 15	standard in 1981 would have contained analog synchronization signals, correct?
13 14 15 16	Q In 1981?A In 1981.Q And any television signal that was	14 15 16	standard in 1981 would have contained analog synchronization signals, correct? A The analog synchronization signals are
13 14 15 16 17	Q In 1981? A In 1981. Q And any television signal that was transmitted consistent with the NTSC standard in	14 15 16 17	standard in 1981 would have contained analog synchronization signals, correct? A The analog synchronization signals are not part of the information. They're part of the
13 14 15 16 17 18	Q In 1981? A In 1981. Q And any television signal that was transmitted consistent with the NTSC standard in 1981 would have contained analog information and	14 15 16 17 18	standard in 1981 would have contained analog synchronization signals, correct? A The analog synchronization signals are not part of the information. They're part of the media, the delivery system. Q Dr. Weaver, you recall submitting a
13 14 15 16 17 18 19	Q In 1981? A In 1981. Q And any television signal that was transmitted consistent with the NTSC standard in 1981 would have contained analog information and would have been an analog information	14 15 16 17 18 19	standard in 1981 would have contained analog synchronization signals, correct? A The analog synchronization signals are not part of the information. They're part of the media, the delivery system.
13 14 15 16 17 18 19 20	Q In 1981? A In 1981. Q And any television signal that was transmitted consistent with the NTSC standard in 1981 would have contained analog information and would have been an analog information transmission, correct?	14 15 16 17 18 19 20	standard in 1981 would have contained analog synchronization signals, correct? A The analog synchronization signals are not part of the information. They're part of the media, the delivery system. Q Dr. Weaver, you recall submitting a prior declaration in an earlier IPR proceeding
13 14 15 16 17 18 19 20 21	Q In 1981? A In 1981. Q And any television signal that was transmitted consistent with the NTSC standard in 1981 would have contained analog information and would have been an analog information transmission, correct? MR. SCHREINER: Objection. Form.	14 15 16 17 18 19 20 21	standard in 1981 would have contained analog synchronization signals, correct? A The analog synchronization signals are not part of the information. They're part of the media, the delivery system. Q Dr. Weaver, you recall submitting a prior declaration in an earlier IPR proceeding where you've taken a position that the presence of analog synchronization signals in a transmission
13 14 15 16 17 18 19 20 21 22	Q In 1981? A In 1981. Q And any television signal that was transmitted consistent with the NTSC standard in 1981 would have contained analog information and would have been an analog information transmission, correct? MR. SCHREINER: Objection. Form. Compound.	14 15 16 17 18 19 20 21 22	standard in 1981 would have contained analog synchronization signals, correct? A The analog synchronization signals are not part of the information. They're part of the media, the delivery system. Q Dr. Weaver, you recall submitting a prior declaration in an earlier IPR proceeding where you've taken a position that the presence of

TransPerfect Legal Solutions 212-400-8845 - Depo@TransPerfect.com



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.

