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

APPLE INC.,

v.

Petitioner,

IPR2018-01140

Patent No. 9,402,032

COREPHOTONICS, LTD., IPR2018-01146

Patent No. 9,568,712

Patent Owner.

VIDEOTAPED DEPOSITION OF DUNCAN MOORE, PH.D.

June 7, 2019

Rochester, New York

Reported By:

MICHELLE MUNDT ROCHA

Job no: 25396

TransPerfect Legal Solutions



	Page 2		Page 4
1	Videotaped Deposition of Duncan Moore, Ph.D.	1	APPEARANCES
2	Date: June 7, 2019	2	ATTEARANCES
3	Time: 9:09 a.m.	3	Appearing as the Videographer:
4	Location: Regus Business Center	4	Tim McDonough
	510 Clinton Square	5	1 mm 11-02 ono wgu
5	Rochester, New York 14604	6	
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20 21		21	
22		22	
23		23	
24		24	
25		25	
	Page 3		Page 5
1	APPEARANCES	1	PROCEEDINGS
2	Appearing on Behalf of Petitioner:	2	FRIDAY, JUNE 7, 2019;
3	Jamie H. McDole, Esq.	3	(Proceedings in the above-titled matter
4	Haynes and Boone, LLP	4	commencing at 9:09 a.m.)
5	2323 Victory Avenue, Suite 700	5	* * *
6	Dallas, Texas 75219	6	THE VIDEOGRAPHER: We are about to begin
7 8	jamie.mcdole@haynesboone.com	7 8	the recorded deposition of Dr. Duncan Moore in the
9	Michael S. Parson, Esq. Haynes and Boone, LLP	9	matter of Apple, Incorporated versus Corephotonics, Limited in the United States Patent and Trademark
10	2505 North Plano Road, Suite 4000	10	Office, case IPR 2008-01140. This deposition is being
11	Richardson, Texas 75082-4101	11	held at Regus Rochester, 510 Clinton Square,
12	michael.parsons@haynesboone.com	12	Rochester, New York 14604 on Friday, June 7. The time
13	Priya B. Viswanath, Esq.	13	is 9:09.
14	Cooley LLP	14	My name is Tim McDonough, from the firm of
15	3175 Hanover Street	15	Alliance Court Reporting, and I am the legal video
16	Palo Alto, California 94304-1130	16	specialist. The court reporter is Michelle Rocha, in
17	Pviswanath@cooley.com	17	association with Alliance Court Reporting, East
18		18	Avenue, Rochester, New York.
19	Appearing on Behalf of Patent Owner:	19	Will counsel please introduce themselves
20	Neil A. Rubin, Esq.	20	and whom they represent.
21	Russ August & Kabat	21	MR. MCDOLE: Jamie McDole representing
22	12424 Wilshire Boulevard, 12th Floor	22	Petitioner. MB. BARSONS, Michael Bergang representing
23 24	Los Angeles, California 90025	23 24	MR. PARSONS: Michael Parsons representing Petitioner.
24 25	nrubin@raklaw.com	25	MS. VISWANATH: Priya Viswanath
43		ر ک	Mis. vis watvatti. Filya viswaliani

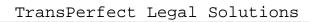
2 (Pages 2 to 5)





	Page 6		Page 8
1	DUNCAN MOORE, PH.D.	1	DUNCAN MOORE, PH.D.
2	representing Petitioner.	2	that sound fair?
3	MR. RUBIN: And Neil Rubin of Russ	3	A. Sounds reasonable.
4	August & Kabat representing the Patent Owner and	4	Q. And if at any point I cut off one of your
5	defending the witness.	5	answers you know, sometimes there's a pause, and
6	THE VIDEOGRAPHER: The court reporter will	6	I'll start a new question. If at any point you
7	please swear in the witness, and we may begin.	7	haven't finished an answer, will you please let me
8	DUNCAN MOORE, PH.D.,	8	know, so I can allow you to finish?
9	called herein as a witness, first being sworn,	9	A. I will.
10	testified as follows:	10	Q. It's also important that you understand
11	EXAMINATION BY MR. MCDOLE:	11	all of my questions today, to make sure we have a
12	Q. Good morning, Dr. Moore. My name is Jamie	12	complete and accurate record. If you don't understand
13	McDole. I represent Apple in the IPRs that were just	13	a question, will you let me know?
14	listed.	14	A. I will.
15	Can we start by stating your full name for	15	Q. And if you answer a question, I'm going to
16	the record?	16	assume that you understood the question. Does that
17	A. Duncan Thomas Moore.	17	sound fair?
18	Q. And do you go are you Ph.D.? Do you go	18	A. Okay.
19	by Dr. Moore?	19	Q. In the three or four depositions that you
20	A. I go mostly by Duncan.	20	have provided testimony, how many of them were IPRs?
21	Q. Duncan, okay. Well, for formality sake,	21	A. None.
22	I'm not going to call you "Duncan" today until the	22	Q. Can you identify what litigations you were
23	deposition is over. But if I call you "Dr. Moore,"	23	an expert in where you were deposed?
24	will you know who I'm referring to?	24	A. You mean the litigants or the I'm not
25	A. I will.	25	sure that I understand the question. You want to know
	Page 7		Page 9
1	DUNCAN MOORE, PH.D.	1	DUNCAN MOORE, PH.D.
2	Q. Have you ever been deposed before?	2	what cases?
3	A. I have.	3	Q. Yes.
4	Q. How many times?	4	A. One involved a case involving the
5	A. Three or four.	5	backlighting of large screen TVs.
6	Q. Were those in patent cases?	6	Q. Okay.
7	A. Yes.	7	A. In particular the lenses that are behind
8	Q. You understand you're under oath today;	8	them. Another was in the issue associated with the
9	correct?	9	security stripe that's on the hundred-dollar-bill
10	A. I do.	10	currency.
11	Q. And do you understand that the oath	11	Q. Okay.
12	requires you to answer truthfully and completely to	12	A. And I don't remember the others. They've
13	the questions asked today?	13	been too far in the past. Those two are the most
14	A. I do.	14	recent ones.
15	Q. Is there any reason why you cannot give	15	Q. Who did you represent with respect to the
16	truthful and complete answers today?	16	backlight litigation?
17	A. There is no reason.	17	A. I'd have to look that up. It was a Korean
18	Q. As you can see, we have a court reporter	18	company.
19	, , ,		
13	taking down everything we say, as well as a	19	Q. Was it Samsung?
20	taking down everything we say, as well as a videographer. But for the court reporter's sake, it's	19 20	Q. Was it Samsung? A. It was not Samsung.
	taking down everything we say, as well as a videographer. But for the court reporter's sake, it's important that you and I do not speak over each other,		
20	taking down everything we say, as well as a videographer. But for the court reporter's sake, it's	20	A. It was not Samsung.
20 21 22 23	taking down everything we say, as well as a videographer. But for the court reporter's sake, it's important that you and I do not speak over each other,	20 21 22 23	A. It was not Samsung.Q. How about with respect to the security
20 21 22	taking down everything we say, as well as a videographer. But for the court reporter's sake, it's important that you and I do not speak over each other, to make her life much easier.	20 21 22	A. It was not Samsung. Q. How about with respect to the security strip on the hundred dollar bill, who did you

3 (Pages 6 to 9)





1	Page 10		Page 12
1	DUNCAN MOORE, PH.D.	1	DUNCAN MOORE, PH.D.
2	miniature lens assemblies?	2	Exhibit 1001. If I refer to that exhibit as the "032
3	A. I have.	3	patent," will you understand what I'm referring to?
4	Q. In what case?	4	A. I will.
5	A. The case goes back at least ten years. I	5	Q. Okay. And with respect to your
6	can remember the law firm, but I can't remember the	6	declaration marked as Exhibit 2013, if I refer to that
7	cases. The law firm was Nixon Peabody.	7	as "your declaration," will you understand that we're
8	Q. Did that involve lens assembly specific to	8	referring to Exhibit 2013?
9	mobile devices?	9	A. I will.
10	A. It did.	10	Q. What documents did you review in preparing
11	(The following exhibits were marked at a	11	your declaration?
12	previous deposition: EXH Number 1, 1001,	12	A. They're listed in my declaration. There's
13	2013 and 2014.)	13	quite a few of them. Obviously these two patents
14	Q. I'm going to hand you a few documents	14	involved, and then the list is on page.
15	here. The first one is United States Patent Number	15	Q. Paragraph 3?
16	9,402,032 marked as Apple Exhibit 1 in IPR2018-01140.	16	A. Paragraph 3, yeah.
17	I'm also going to hand you United States	17	Q. I think the page numbers are cut off a
18	Patent Number 9,568,712, which is Apple Exhibit 1001	18	little bit on the bottom, so we probably have to refer
19	in IPR2018-01146.	19	by paragraph number
20	I'm also going to hand you a copy of the	20	A. Okay.
21	declaration of Duncan Moore, Ph.D. in the two	21	Q as much as we can today. Is that okay?
22	previously stated IPRs, which was marked as Exhibit	22	A. Yep.
23	2013.	23	Q. Did you review the '032 and '712 patents
24	And for the sake of completeness at this	24	in their entirety?
25	point, I'm going to hand you a copy of the CV of	25	A. I did.
	Page 11		Page 13
1	DUNCAN MOORE, PH.D.	1	DUNCAN MOORE, PH.D.
2	Duncan Moore, which was submitted as Exhibit 2014 in	2	Q. Did you review all the exhibits in
3	both of the previously stated IPRs.	3	paragraph 3 of your declaration in their entirety?
4	MR. MCDOLE: Counsel, I believe I've	4	A. I can't say that.
5	handed those to you already.	I –	
6	nanaca mose to you aneady.	5	Q. Which documents listed in paragraph 3 did
1	A. Can I ask you a question?	5 6	Q. Which documents listed in paragraph 3 did you not review in their entirety?
7	· · · · · · · · · · · · · · · · · · ·		1 0 1
	A. Can I ask you a question?	6	you not review in their entirety?
7 8 9	A. Can I ask you a question?Q. Sure.	6 7	you not review in their entirety? A. Well, I would not have read through all of
7 8 9 10	 A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. 	6 7 8 9	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book.
7 8 9 10 11	 A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? 	6 7 8 9 10	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read
7 8 9 10 11	 A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the 	6 7 8 9 10 11 12	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I
7 8 9 10 11 12	 A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on 	6 7 8 9 10 11 12	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole
7 8 9 10 11 12 13 14	 A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on there as well. 	6 7 8 9 10 11 12 13	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole thing.
7 8 9 10 11 12 13 14 15	 A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on there as well. A. Okay. So they refer to different okay. 	6 7 8 9 10 11 12 13 14	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole thing. Q. Why didn't you review Exhibit 1011?
7 8 9 10 11 12 13 14 15	A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on there as well. A. Okay. So they refer to different okay. Q. That's correct.	6 7 8 9 10 11 12 13 14 15	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole thing. Q. Why didn't you review Exhibit 1011? A. What is 1011?
7 8 9 10 11 12 13 14 15 16	A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on there as well. A. Okay. So they refer to different okay. Q. That's correct. So if I can have you first look if we	6 7 8 9 10 11 12 13 14 15 16	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole thing. Q. Why didn't you review Exhibit 1011? A. What is 1011? Q. Well, if we go through your list of
7 8 9 10 11 12 13 14 15 16 17	A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on there as well. A. Okay. So they refer to different okay. Q. That's correct. So if I can have you first look if we can get some nomenclature out of the way here. If I	6 7 8 9 10 11 12 13 14 15 16 17	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole thing. Q. Why didn't you review Exhibit 1011? A. What is 1011? Q. Well, if we go through your list of materials you reviewed in preparing your declaration,
7 8 9 10 11 12 13 14 15 16 17 18	A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on there as well. A. Okay. So they refer to different okay. Q. That's correct. So if I can have you first look if we can get some nomenclature out of the way here. If I can have you look at United States Patent 9,568,712.	6 7 8 9 10 11 12 13 14 15 16 17 18	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole thing. Q. Why didn't you review Exhibit 1011? A. What is 1011? Q. Well, if we go through your list of materials you reviewed in preparing your declaration, it goes from Exhibit 1001 to 1002, 1003; you skip
7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on there as well. A. Okay. So they refer to different okay. Q. That's correct. So if I can have you first look if we can get some nomenclature out of the way here. If I can have you look at United States Patent 9,568,712. If I refer to Apple Exhibit 1001, which is United	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole thing. Q. Why didn't you review Exhibit 1011? A. What is 1011? Q. Well, if we go through your list of materials you reviewed in preparing your declaration, it goes from Exhibit 1001 to 1002, 1003; you skip 1004. Then we have 1005, 1006, 1007, 1008, 1009,
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on there as well. A. Okay. So they refer to different okay. Q. That's correct. So if I can have you first look if we can get some nomenclature out of the way here. If I can have you look at United States Patent 9,568,712. If I refer to Apple Exhibit 1001, which is United States Patent 9,586,712, as the "'712 patent," will	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole thing. Q. Why didn't you review Exhibit 1011? A. What is 1011? Q. Well, if we go through your list of materials you reviewed in preparing your declaration, it goes from Exhibit 1001 to 1002, 1003; you skip 1004. Then we have 1005, 1006, 1007, 1008, 1009, 1010; and then 1011 is missing.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on there as well. A. Okay. So they refer to different okay. Q. That's correct. So if I can have you first look if we can get some nomenclature out of the way here. If I can have you look at United States Patent 9,568,712. If I refer to Apple Exhibit 1001, which is United States Patent 9,586,712, as the "'712 patent," will you understand what I'm referring to?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole thing. Q. Why didn't you review Exhibit 1011? A. What is 1011? Q. Well, if we go through your list of materials you reviewed in preparing your declaration, it goes from Exhibit 1001 to 1002, 1003; you skip 1004. Then we have 1005, 1006, 1007, 1008, 1009, 1010; and then 1011 is missing. A. I do not know.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on there as well. A. Okay. So they refer to different okay. Q. That's correct. So if I can have you first look if we can get some nomenclature out of the way here. If I can have you look at United States Patent 9,568,712. If I refer to Apple Exhibit 1001, which is United States Patent 9,586,712, as the "'712 patent," will you understand what I'm referring to? A. I will.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole thing. Q. Why didn't you review Exhibit 1011? A. What is 1011? Q. Well, if we go through your list of materials you reviewed in preparing your declaration, it goes from Exhibit 1001 to 1002, 1003; you skip 1004. Then we have 1005, 1006, 1007, 1008, 1009, 1010; and then 1011 is missing. A. I do not know. Q. That's the file history for the Ogino
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Can I ask you a question? Q. Sure. A. These have the same exhibit number. Q. That is correct. That's because there's two IPRs. A. Oh, I see. There's two different cases? Q. That's correct. So if you look at the front of your declaration, there's two IPRs stated on there as well. A. Okay. So they refer to different okay. Q. That's correct. So if I can have you first look if we can get some nomenclature out of the way here. If I can have you look at United States Patent 9,568,712. If I refer to Apple Exhibit 1001, which is United States Patent 9,586,712, as the "'712 patent," will you understand what I'm referring to?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you not review in their entirety? A. Well, I would not have read through all of Warren Smith's book. I would not have read through Born's book, which is about four or 500 pages, or Walker's book or Fischer's book. And the others I some of them I've read in entirety, some I didn't. The ones I use that I actually cited in my declaration I did read the whole thing. Q. Why didn't you review Exhibit 1011? A. What is 1011? Q. Well, if we go through your list of materials you reviewed in preparing your declaration, it goes from Exhibit 1001 to 1002, 1003; you skip 1004. Then we have 1005, 1006, 1007, 1008, 1009, 1010; and then 1011 is missing. A. I do not know.

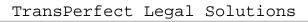
4 (Pages 10 to 13)





	Page 14		Page 16
1	DUNCAN MOORE, PH.D.	1	DUNCAN MOORE, PH.D.
2	Q. Did you request that material in preparing	2	change?
3	your opinion?	3	A. Are you asking if my signature changed?
4	A. I did not.	4	Q. No. After applying your electronic
5	Q. Do you understand that that material was	5	signature to the declaration, how do you know that the
6	cited in the petition for IPR in the matter?	6	declaration was not changed before being submitted to
7	A. I don't remember.	7	the United States Patent Office?
8	Q. Do you think it would have been important	8	A. My signature was applied on the very last
9	to review all the material supporting the IPR in this	9	day at the last hour. So I assume it did not change.
10	material or in this case before rendering your	10	Q. So it was an assumption on your part?
11	opinions?	11	A. I often use electronic signatures for
12	A. I don't I don't know what's in 1011.	12	doing information, especially when I'm on travel.
13	Q. That's because you haven't reviewed it,	13	Q. Have you done anything to confirm that the
14	though; right?	14	final version that you submitted your electronic
15	A. That's correct.	15	signature to is the same version that was submitted to
16	Q. So it could have information that would be	16	the United States Patent and Trial Trademark Office?
17	material to you opinion; correct?	17	A. I can only say that this is what I
18	A. I don't know.	18	submitted. This is the document that I authored, but
19	Q. Did you intentionally not review Exhibit	19	I don't know I can't be sure what was actually
20	1011?	20	submitted.
21	A. I did not. I did not review it.	21	Q. Did you apply your electronic signature to
22	Q. Did you make the choice not to review	22	your declaration on or about March 4, 2019?
23	Exhibit 1011, or was that a choice of counsel?	23	A. Yes.
24	A. I don't I don't remember. I don't	24	Q. Are there any errors in your declaration
25	remember any discussion regarding that.	25	that you're aware of?
	Page 15		Page 17
1	DUNCAN MOORE, PH.D.	1	DUNCAN MOORE, PH.D.
2	Q. Were the materials in paragraph 3 of your	2	A. I'm aware of three.
3	declaration provided to you by counsel?	3	Q. Okay. What are those?
4	A. Sorry. Restate.	4	A. In the in paragraph 109.
5	Q. Were the materials cited in paragraph 3 of	5	Q. Okay.
6	your declaration provided to you by counsel?	6	A. The third line, the word "increases"
7	A. Yes, except for the books, which I already	7	should be "decreases."
8	owned.	8	Q. Okay.
9	Q. Were there any other materials that you	9	A. I can't find the exact paragraph, but it
10	requested from counsel that were not provided to you?	10	involves the aperture stop, and it's
11 12	A. No.	11 12	I can remember the third one.
13	Q. If I can have you turn to the last paragraph of your declaration, which is going to be	13	Q. All right. Let's go to the third one
14	exhibit or paragraph 119. If you can see the page	14	first. A. The third one is that in some of the
15	number, it's page 67.	15	figures of the ray fans the units indicate they're in
16	A. You said paragraph 119?	16	inches, and they should be in millimeters. Some are
17	Q. Yes. At the bottom of page 67 under	17	in millimeters, some are in inches; but they all
18	paragraph 119, there is a signature at the bottom of	18	should be in millimeters.
19	the page. Is that your signature?	19	Q. Okay. With respect to the second one with
20	A. Yes, it is.	20	respect to I think you said it related to the
21	Q. Is that an electronic signature or	21	aperture stop size?
22	physical signature?	22	A. It had to do with in one place I state
23	A. I believe that's electronic.	23	that the aperture stop size changed it, when in fact
24	Q. How do you know since supplying your	24	it moved it. I can't find it sitting here.
25	electronic signature to the document that it did not	25	Q. Okay.

5 (Pages 14 to 17)



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