UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SONY COMPUTER ENTERTAINMENT AMERICA LLC
Petitioner

v.

APLIX IP HOLDINGS CORPORATION

Patent Owner

Case No. IPR2015-00229

Patent 7,667,692

Case No. IPR2015-00230

Patent 7,463,245

DEPOSITION OF DR. GREGORY F. WELCH

VOLUME I, PAGES 1 - 230

JULY 28 and 29, 2015

(The following is the deposition of DR. GREGORY F. WELCH, taken pursuant to agreement of counsel, at the Hyatt Regency Orlando International Airport Hotel, Orlando, Florida, commencing at approximately 9:02 o'clock a.m., July 28, 2015)



	Page 2		Page 4
1	APPEARANCES:	1	A. That's correct.
2	On Behalf of the Petitioner:	2	Q. Have you heard patents referred to by their
3	Abran Kean	3	last three numbers, "the '245 patent," for example?
4	ERISE IP 5600 Greenwood Plaza Boulevard, Suite 200	4	A. Yes.
_	Greenwood Village, Colorado 80111	5	Q. And will it work for you today if we refer
5	-	6	to the '245 and the '692 patents?
_	On Behalf of the Patent Owner:	7	A. Yes.
6	Robert J. Gilbertson	8	
7	GREENE ESPEL PLLP		Q. All right. I don't necessarily intend to
	Campbell Mithun Tower, Suite 2200	9	refer to the IPR number every time. I'll probably
8	222 South Ninth Street Minneapolis, Minnesota 55402-3362	10	refer to the '245 petition and the '692 petition.
9	Millineapons, Millinesota 33402-3302	11	Will we be communicating if I do that?
	ALSO APPEARING:	12	A. Yes.
10		13	MR. GILBERTSON: Okay. So just for the
11	Callie Pendergrass, Senior Technical Advisor, Erise IP	14	record, I'll note we will have one transcript for this
12	Advisor, Litise II	15	deposition for these two IPR proceedings and that
13		16	transcript can be submitted in connection, per our
14		17	agreement, with any of the IPR proceedings.
15 16		18	MR. KEAN: Yeah. Just to be clear, that
17		19	works for me, and the only thing I'd ask is that we
18		20	try to be clear about which declaration we're
19 20		21	referring to just so the record's clear as we go
21		22	through it.
22		23	MR. GILBERTSON: Makes sense.
23		24	BY MR. GILBERTSON:
24 25		25	Q. Dr. Welch, when were you retained by SCEA,
	Page 3		Page 5
1	Page 3	1	Page 5
1	PROCEEDINGS	1	Sony Computer Entertainment America?
2	PROCEEDINGS (Witness sworn.)	2	Sony Computer Entertainment America? A. I don't recall.
2	PROCEEDINGS (Witness sworn.) DR. GREGORY F. WELCH	2 3	Sony Computer Entertainment America? A. I don't recall. Q. What's your best estimate?
2 3 4	PROCEEDINGS (Witness sworn.) DR. GREGORY F. WELCH called as a witness, being first duly sworn,	2 3 4	Sony Computer Entertainment America? A. I don't recall. Q. What's your best estimate? A. Probably three, four months prior to the
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2 (Pages 2 to 5)



	Page 6		Page 8
1	retained somewhere around July or August of 2014?	1	A. I don't recall. I think
2	A. It's not a recollection, that would just be	2	Is it stated in my declaration? I think
3	a guess. I really don't remember. So I know we	3	it's I think it's 500, but I don't recall. Could
4	worked on these for a few months, as I recall, so	4	be 450, could be 500 per hour.
5	I don't remember. You know, could have	5	Q. Have you done expert witness work before?
6	been I could have been retained a year before and	6	A. Yes.
7	only worked on them right before. I really don't	7	Q. How much of that have you done?
8	remember.	8	A. Since 2008, it's hard to say. I've
9	Q. You don't remember whether you were retained	9	testified in probably seven or eight cases maybe
10	in 2014 as opposed to 2013?	10	might be more, might be less, I don't recall and
11	A. Again, I don't remember. I mean it seems	11	then done research for some clients on cases where I
12	reasonable that I would have been retained in 2014. I	12	did not testify or submit any reports or declarations
13	find it hard to imagine it would have been earlier.	13	or anything.
14	Q. How much time have you spent on this project	14	Q. What type of research?
15	of working on the declarations in the '245 and the	15	A. Research related to a variety of matters
16	'692 IPRs?	16	that are related to my areas of expertise.
17	A. So again, I don't remember precisely. Yeah,	17	Q. The seven or eight matters in which you've
	• •	18	-
18	I don't remember precisely.	1	testified, what kinds of cases were those?
19	Q. Okay. If you don't remember precisely,	19	A. Let's see. The first was Nintendo versus
20	what's your best estimate of how much time you've	20	Hillcrest. It was an International Trade Commission
21	spent?	21	matter.
22	A. Again, I think it may have been a few months	22	Some were civil cases and some have been
23	of work off and on, some numbers of hours per week, so	23	IPRs.
24	it could be anywhere from, I don't know, 50 hours to a	24	Q. Have they all involved patents?
25	hundred to more or probably not less. But I really	25	A. They have all involved patents, yes. I'm
	Page 7		Page 9
1	don't recall. I don't recall it being an inordinate	1	working on a case right now that does not involve a
2	amount of work for me. I have another full-time job,	2	patent, but I have not yet testified in that matter.
3	so I do this on the side.	3	Q. The seven or eight patent-related cases in
4	Q. What's your other full-time job?	4	which you have testified, can you give me a sense of
5	A. A professor at the University of Central	5	the technology involved in those cases?
6	Florida.	6	A. Sure. And to be clear, seven or eight is a
7	Q. And what are you a professor of?	7	guess. I could tell you, I do have records, but
8	A. I have three appointments: I'm a professor	8	sitting here right now I don't remember.
9	in the College of Nursing, in Computer Science, and	9	The technology would involve various
10	the Institute for Simulation and Training.	10	handheld devices and everything from the user-
11	Q. Do you have records somewhere that would	11	interface aspects to motion-tracking aspects, so
12	show you how much time you've spent on the '245 and	12	everything from mobile phones to game controllers
13	'692 proceedings?	13	to
14	A. Certainly. At least certainly for the IPRs	14	I guess in testifying, that's probably it,
15	as a whole, and probably they are specific to the	15	actually.
16		16	Q. Besides the matters involving APLIX and
17	patents, yes.	17	SCEA, what other cases have you testified in relating
18	Q. And how have you been compensated for your work in this case?	18	to game controllers?
			_
19	A. Pardon me?	19 20	A. Again, I'm only going from memory here. As
20	Q. How have you been compensated for your work?		I mentioned, the first case, that I remember because
21	A. I don't understand. How I've been paid, on	21	it was really the first substantial case I had ever
22	an hourly basis, is that what you're asking?	22	worked on, that was Hillcrest versus Nintendo, and
23	Q. Sure.	23	that was, again, an ITC case. For Nintendo I've also
24	A. Yeah.	24	testified on a case that was UltimatePointer versus
25	Q. And what's the hourly rate?	25	Nintendo, ThinkOptics versus Nintendo, Motion Games
		1	

3 (Pages 6 to 9)



	Page 10		Page 12
1	versus Nintendo, and I think there were some IPRs	1	conversations, that the content is all mine
2	probably in the same matters related to the same to	2	intellectually. Aside from who actually typed the
3	those civil cases. Apple or I'm sorry, I guess it	3	words in different places, it's it all is from my
4	was HTC versus Apple, and one case at least with	4	head, likely based on questions, I don't recall, from
5	also with Sony, a previous case, that was G GTC	5	the Sony attorneys, I guess petitioner's attorneys,
6	versus Sony.	6	but would have been questions and answers, and I would
7	Q. In all of those cases that you just	7	have given my point of view. And I don't recall
8	mentioned, were you representing a company accused of	8	You know, I wrote some. They may have
9	patent infringement?	9	drafted some if I had asked them to. As I said, I'm a
10	A. I believe the answer is yes. I am working	10	busy, busy guy.
11	on and have worked on cases where I've been on the	11	Q. Did you write them?
12	plaintiff or complainant's side, but I don't think I	12	MR. KEAN: Same objection.
13	have testified in any of those cases, at least not	13	A. If if this were an academic paper, I
14	yet.	14	would put my name as the lead author on these. These
15	Q. The exhibits that are in front of you, your	15	are intellectually
16	declarations in the '245 and '692 matters, would I be	16	Again, the content is all mine.
17	right in assuming that they contain a true and	17	Q. But you didn't necessarily write them.
18	complete recitation of your testimony and opinions	18	MR. KEAN: Same objection.
19	A. Yes.	19	A. I didn't say that.
20	Q in those matters?	20	Q. Did you write them?
21	A. Yes.	21	MR. KEAN: Same objection, asked and
22	Q. Have you reviewed them in preparation for	22	answered.
23	today's deposition?	23	A. I mean I would say in
24	A. Yes.	24	Yes, I wrote them. I mean there are pieces
25	Q. Did you find any errors or changes that you	25	that were drafted, as I said, by someone else because
	Page 11		Page 13
1	want to point out?	1	I asked them to for a variety of reasons, but
2	A. Nothing that comes to mind at the moment,	2	intellectually everything in there is mine. The
3	no.	3	background, the opinions, everything is based on my
4	Q. How were those declarations prepared?	4	my thoughts.
5	MR. KEAN: Objection to the extent it calls	5	Q. Which pieces were drafted by someone else?
6	for privileged information.	6	MR. KEAN: Same objection, and instruct the
7	A. So that's a broad question. Do you mean	7	witness not to answer to the extent it calls for
8	What do you mean, logistically,	8	privileged information.
9	mechanically, intellectually?	9	A. I don't recall. Even if I even if I were
10	Q. Who wrote them?	10	allowed to answer, I I don't recall. As I said, I
11	MR. KEAN: Objection, calls for privileged	11	think I said, they may have been drafted and likely
12	information.	12	were, but I don't recall.
13	MR. GILBERTSON: Let's pause there. Are you	13	MR. GILBERTSON: I'll note for the record
14	asserting an attorney-client privilege over your work	14	that I don't think it's a proper objection or
15	with Dr. Welch?	15	instruction, but we don't have to try to agree on that
16	MR. KEAN: I have a work-product privilege	16	today.
17	under Rule 26, and it's also captured by 27 CFR 4251.	17	Q. With whom did you work in the preparation of
18	MR. GILBERTSON: Well we'll go back to the	18	your declarations in the '245 and '692 matters?
19	question.	19	A. Mostly with in fact probably exclusively
20	Q. Who wrote the declarations in the '245 and	20	with Callie Pendergrass, who is in this room.
21 22	the '692 matters?	21 22	Q. How do you spell her name?
23	MR. KEAN: Same objection, and instruct the witness not to answer to the extent it calls for	23	A. Hope I get it right or she's going to be upset. C-a-l-l-i-e, P-e-n-d-e-r-g-r-a-s-s.
23	privileged information.	24	Q. Does she work with you at the University of
25	A. I think I can answer, without compromising	25	Q. Does she work with you at the University of Central Florida?
ر ک	A. I think I can answer, without compromising	23	Contai i fortua:

4 (Pages 10 to 13)



5 (Pages 14 to 17)



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