Page 1

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. IPR2015-00533 Case No. IPR2015-00476 Case No. IPR2015-00396 Patent No. 7,218,313

DEPOSITION OF DR. GREGORY F. WELCH

VOLUME I, PAGES 1 - 87

AUGUST 19, 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 9:57 o'clock a.m., August 19, 2015.)

RM

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Page 2	Page 4
1 APPEARANCES: 1	A. That's correct.
2 On Behalf of the Petitioner: 2	Q. And you're here today to give your
3 Abran Kean 2 ERISE IP 3	deposition in connection with those three declarations
4 5600 Greenwood Plaza Boulevard, Suite 200 4	that you submitted in those three IPRs.
Greenwood Village, Colorado 80111 5	A. That's correct.
5	Q. And just for the record, by agreement of the
On Behalf of the Patent Owner:	parties we'll have one deposition and one transcript
Robert J. Gilbertson 8	for all three of those. All transcripts from the case
7 GREENE ESPEL PLLP	can be filed as exhibits in all of the IPRs. I think
Campbell Mithun Tower, Suite 2200 9 8 222 South Ninth Street 10	the idea was that that would reduce the burden on
Minneapolis, Minnesota 55402-3362	witnesses and reduce duplication. Many of the
9 12	references at issue in the '313 IPRs are the same as
ALSO APPEARING:	references that were at issue in the '245 and '692
10 13 Callie Pendergrass, Senior Technical 14	IPRs, so we don't necessarily have to cover everything
11 Advisor, Erise IP	
12	every time.
13 14 INDEX 16	Are you ready to begin, Dr. Welch?
15 EXHIBITS DESCRIPTION PAGE MARKED 18	A. Yes. Thank you.Q. Do you have in front of you the three
16 Ex 2006 Four-page excerpt of Willner	
17Patent 5,874,906 with handwritten1918notations7420	declarations? And for the record I'll note in the 00396 IPR it's Exhibit 1013, in the 00476 IPR it's
19 21	,
20	Exhibit 1009, and in the 00533 IPR it's Exhibit 1008.
21	Do you have all those? A. I do.
22	
24 24	Q. And do those declarations contain true and
25 25	complete statements of your testimony and opinions
Page 3	Page 5
1 PROCEEDINGS 1	relating to these IPRs?
2 (Witness sworn.) 2	A. Yes, they do, at the time of the writing for
3 DR. GREGORY F. WELCH 3	sure.
4 called as a witness, first duly sworn, 4	Q. And is there something that's come up since
5 was examined and testified as follows: 5	that's caused you to believe that there was an error
6 ADVERSE EXAMINATION 6	or something incomplete about them?
7 BY MR. GILBERTSON: 7	A. No.
8 Q. Welcome back, Dr. Welch. 8	Q. Who wrote those declarations?
9 A. Thank you. 9	MR. KEAN: Objection to the extent it calls
10Q. You've been retained as an expert witness by10	for protected information.
11 Sony Computer Entertainment America and have provided 11	A. So I don't know how much we can rely on the
12declarations or direct testimony in seven IPR12	previous deposition that we did back on the 18th, but,
13proceedings relating to APLIX; is that right?13	you know, my answer would be the same as then, which
14 A. That's correct. 14	is that the intellectual content certainly all the
15Q. That includes IPR proceedings relating to15	technical intellectual content came from the out of
16the '245 and '692 patents, and you gave your16	discussions. You know, some of it I may have
17deposition on those two declarations on July 28 and 2917	handwritten, some of it someone else may have hand-
18here in Orlando; is that correct?18	drafted, but it's all intellectually mine. The
19A. That sounds right. I don't remember the19	legal
20dates, but I'll take your word for it.20	And this is this is not specific to this
21 Q. Okay. And you also represent SDEA in 21	necessarily because I don't want to convey or break
22 connection with three different IPRs challenging U.S. 22	confidences in any way, but that's the way I typically
23Patent No. 7,218,313, and for the record I'll just23	work, is we talk, I respond to questions, I give
24 note those are IPR2015-00396, IPR2015-00476, and 24	ideas, and then we draft somehow together, and
25 IPR2015-00533; is that right? 25	that's I believe that's how we did it here.

2 (Pages 2 to 5)

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	Page 6		Page
1	Q. And just so you know, the testimony from the	1	you analyzed in connection with your work on the 003
2	'245 and '692 IPRs will be available in this	2	declaration; is that right?
3	proceeding as well.	3	A. That's correct.
4	It sounds like the process you used to	4	Q. And I'm going to have some questions for you
5	create the three declarations for the '313 patent is	5	today about Pallakoff and Ishihara. They're listed in
6	about the same as the process you used for the '245	6	the 00396 declaration as Exhibits 1006 and 1007; is
7	and '692 declarations.	7	that right?
8	A. That's correct, yeah. As I as I said,	8	Are you having trouble finding them?
9	that's the way I typically work and I believe that's	9	A. I'm having trouble finding Ishihara.
10	the way we did it here, yeah.	10	Q. It's the next one right below Pallakoff.
11	Q. So as with the '245 and '692 IPRs, am I	11	A. Yes, I see it. Okay. It doesn't
12	right that your declarations in the '313 patent IPRs	12	"Certified English Translation" I got
13	do not include opinions about how particular claim	13	it. Thank you.
14	terms in the '313 patent should be construed?	14	Q. And just for the record, I'll note that
15	A. I don't think that they do. I don't recall	15	Pallakoff is Exhibit 1004 in the 00476 IPR and also
16	that. I think I refer to proposed constructions,	16	Exhibit 1004 in the 00533 IPR, and Ishihara is not
17	maybe, in the if I could refer to the 00533	17	used in the 00476 IPR but is Exhibit 1005 in the 0053
18	declaration as the 00533 declaration, I think in there	18	IPR.
19	I refer to proposed constructions by the petitioner,	19	Dr. Welch, how did Pallakoff initially come
20	and it's my understanding that since then that the	20	to your attention?
21	board has adopted those constructions. But beyond	21	MR. KEAN: Objection to the extent it calls
22	that, I have not, that I recall, offered an opinion on	22	for privileged information and protected information.
23	any claim construction.	23	A. I don't recall, as I think I've said before.
24	MR. GILBERTSON: This is a question for	24	I looked at and discussed a lot of art which is
25	counsel for SDEA. It occurred to me that the	25	typical for me if I do something like this with the
	Page 7		Page
1		1	
1 2	transcripts might be more usable for the judges if,	1 2	petitioner, and together decided that some was bett
	transcripts might be more usable for the judges if, when we refer to the 396, 476 and 533, that the		
2	transcripts might be more usable for the judges if, when we refer to the 396, 476 and 533, that the transcript would show those with the two zeroes	2	petitioner, and together decided that some was bett than others for this purpose. But specifically, I don't recall.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>transcripts might be more usable for the judges if, when we refer to the 396, 476 and 533, that the transcript would show those with the two zeroes preceding the numbers so it doesn't look like three different patents.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 don't recall. Q. Same answer for Ishihara? A. That's correct. Q. Let me ask you to turn in Actually, please turn to the 00533 declaration to paragraph 33. A. Okay. Q. And this paragraph appears within the section of your 00533 declaration on Background of th Technology. You cite a couple of exhibits in well let me back up. Paragraph 33 of your 00533 declaration has to do with touchscreens generally; right? A. Generally, yes, I believe that's correct. Q. And you cite a couple of exhibits in that paragraph, one of which is referred to as Sears, Exhibit 1026; is that right? A. That's correct. Q. If you could have a look at the third sentence of your declaration that begins, "The use

3 (Pages 6 to 9)

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	Page 10		Page 12
1	A. Okay.	1	allow users to draw shapes or letters which are used
2	Q. And just so it's easy for someone reading	2	as input." So just as one example, you know, those
3	the testimony, I'll read that sentence into the	3	would all involve sliding gestures, as would the I
4	record. Quote, "The use of sliding gestures on touch	4	guess it's the fourth sentence, which says, "Free hand
5	surfaces for various applications, including games,	5	input includes tasks like drawing in a graphics
б	was common at least as early as 1990, and was	6	package," and so on, which would all involve
7	understood to offer 'a more powerful method of input	7	sliding your finger across the screen.
8	than either target selection or direct manipulation."	8	Q. The part from Sears that you quoted includes
9	Did I read that correctly?	9	the phrase "target selection." Do you see that in the
10	A. Yes.	10	first full paragraph on intrinsic page 17 of the Sears
11	Q. And for that proposition you cite both of	11	reference, Exhibit
12	the exhibits noted in that paragraph, the first of	12	A. I do.
13	which is Sears, Exhibit 1026, at page 17; is that	13	Q 1026?
14	right?	14	A. I do.
15	A. I believe that is correct.	15	Q. That's not referring to targets of a game;
16	Q. That's what it says on the page; right?	16	is it? That's talking about something you find on a
17	A. That's right.	17	screen that you want to do something with.
18	Q. Okay. Let me hand you just now a copy of	18	A. I don't recall. And I could look further
19	Exhibit 1026, which is Sears, and ask you to look at	19	through Sears for a definition, but what I say, that
20	page 17 that you cited in the declaration. Let me	20	seems plausible. So it could include something in a
21	know when you're there.	21	game but more generally would be as you described, I
22	A. Okay.	22	think, just you know, sitting here right now just
23	Q. And the part of Sears that you quote in the	23	reading that sentence without looking further in the
24	sentence I read from your declaration appears in the	24	Sears exhibit.
25	first full paragraph on internal page 17 of the Sears	25	Q. And the paragraph we're talking about, the
25 1	Page 11 reference the Sears article; is that right?	1	Page 13 first full paragraph on intrinsic page 17 of Sears,
25 1 2	Page 11 reference the Sears article; is that right? A. "Internal" means the	1 2	Page 13 first full paragraph on intrinsic page 17 of Sears, Exhibit 1026 in the 00533 IPR, that comes up in the
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4 (Pages 10 to 13)

	Page 14		Page 10
1	just discussing. Do you have that in front of you?	1	touchscreens, if you put the touchscreen on the back
2	A. I do.	2	of a device, would I be right that that might do
3	Q. The first sentence of your paragraph 34	3	something about fingers obscuring detail on the screer
4	reads, quote, "It was generally recognized that using	4	and screen smudging, but wouldn't in itself do
5	touchscreen input mechanisms with any computing device	5	anything about the lack of precision, the high error
6	created usability issues, including lack of precision,	6	rates or the arm fatigue? Is that correct?
7	high error rates, figures obscuring detain on the	7	A. That's a you know, that's a very broad
8	screen, and the screen smudging." Did I read that	8	question, so I would say broadly that all of those
9	correctly?	9	things depend on every aspect of the system, not an
10	A. You did.	10	one thing, so and, you know, I think Preece woul
11	Q. And you cite for that the Preece document	11	agree that those are very broad, general
12	that's Exhibit 1011 in the 00533 IPR; is that right?	12	characterizations. So it would depend on what was
13	A. That is correct.	13	drawn on the screen, you know, how the device wa
14	Q. Let me show you a copy of that exhibit. The	14	meant to be held and all sorts of other things. So
15	one I'm handing you happens to be from the it	15	it's hard to answer with any definitive answer. It's
16	happens to be an exhibit in the 00396 matter, which is	16	a very broad question, it depends on a lot of
17	Exhibit 1016, but it's the same document. And you	17	different factors, some of which are listed here, but
18	cited page 218 of Preece. Can you turn to that page	18	not all of them.
19	within the Preece exhibit, please.	19	Q. Well it's easy to say that if you put the
20	A. Okay.	20	touchscreen on the back, you won't have fingers
21	Q. So I think the material we're talking about	21	obscuring the detail on the screen; right?
22	appears in the second paragraph on intrinsic page 218	22	Isn't that issue one where you've got a
23	of the Preece exhibit, 00533 IPR Exhibit 1011.	23	finger between your eyes and the screen?
24	And I think we've figured out the typo that	24	A. That's true. Your physical finger,
25	we talked about in connection with the other IPRs	25	absolutely, would not be in front of the screen. If
	Page 15		Page 1
1	where your declaration uses the word "detain." Am I	1	there's a screen on the front of the device and your
1 2	where your declaration uses the word "detain." Am I right that you meant to say "detail?"	1 2	there's a screen on the front of the device and your hands are on the back of the device, then obviously
	right that you meant to say "detail?"		hands are on the back of the device, then obviously
2	right that you meant to say "detail?" A. That sounds entirely plausible. Where is	2	hands are on the back of the device, then obviously your fingers would not be obscuring anything on the
2 3	right that you meant to say "detail?" A. That sounds entirely plausible. Where is that in my declaration?	2 3	hands are on the back of the device, then obviously your fingers would not be obscuring anything on the display. If the display is opaque that is; you know,
2 3 4	 right that you meant to say "detail?" A. That sounds entirely plausible. Where is that in my declaration? Q. It's in that sentence I just read, first 	2 3 4	hands are on the back of the device, then obviously your fingers would not be obscuring anything on the display. If the display is opaque that is; you know, for example, is not transparent.
2 3 4 5	right that you meant to say "detail?"A. That sounds entirely plausible. Where is that in my declaration?Q. It's in that sentence I just read, first sentence of paragraph 34.	2 3 4 5	hands are on the back of the device, then obviously your fingers would not be obscuring anything on the display. If the display is opaque that is; you know, for example, is not transparent. Q. But that step of taking a touchscreen and
2 3 4 5 6	 right that you meant to say "detail?" A. That sounds entirely plausible. Where is that in my declaration? Q. It's in that sentence I just read, first sentence of paragraph 34. A. Oh. Yes. Absolutely. It must be "detail." 	2 3 4 5 6	 hands are on the back of the device, then obviously your fingers would not be obscuring anything on the display. If the display is opaque that is; you know, for example, is not transparent. Q. But that step of taking a touchscreen and putting it on the back instead of the front, you can't
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5 (Pages 14 to 17)

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