## Exhibit A

	D STATES DISTRICT COURT TERN DISTRICT OF TEXAS LUFKIN DIVISION	
ANASCAPE, LTD.	DOCKET 9:06CV158	
	MAY 5, 2008	
VS.	10:36 A.M.	
MICROSOFT CORP.,	T AL   LUFKIN, TEXAS	
VOLUME (	OF, PAGES 1 THROUGH 198	
REPORTE	'S TRANSCRIPT OF JURY TRIAL	
ਾਜ਼ਾਹ	ORE THE HON. RON CLARK	
UNITED STA	ES DISTRICT JUDGE, AND A JURY	
UNITED STA		
	DOUGLAS A. CAWLEY ANTHONY M. GARZA JASON D. CASSADY STEVEN CALLAHAN CHRISTOPHER BOVENKAMP MCKOOL SMITH - DALLAS 300 CRESCENT COURT SUITE 1200	

		Page	e 2		Page 4
1	FOR THE PLAINTIFF (CONTINUED):		_	1	(REPORTER'S NOTES ANASCAPE VS. MICROSOFT,
2	CLAUDE E. WELCH LAW OFFICE OF CLAUDE E. WELCH			2	JURY TRIAL VOLUME 1, 10:36 A.M., MONDAY, 05/05/2008,
3	POST OFFICE BOX 1574			3	LUFKIN, TEXAS, HON. RON CLARK PRESIDING)
4	LUFKIN, TEXAS 75902			4	(OPEN COURT, ALL PARTIES PRESENT, PROSPECTIVE
5 6	FOR THE DEFENDANT NINTENDO OF AMERICA:			5	JURORS NOT PRESENT)
7	ROBERT J. GUNTHER, JR.			6	THE COURT: Good morning, ladies and
8	WILMER HALE - NEW YORK 399 PARK AVENUE			7	gentlemen. I'm Ron Clark, United States District Judge.
9	NEW YORK, NEW YORK 10022			8	Welcome to your courthouse in Lufkin.
9	LAWRENCE LOUIS GERMER			9	This morning we're starting the voir dire in
10	CHARLES W. GOEHRINGER, JR. GERMER GERTZ			10	a case to be tried this week and going into next week.
11	550 FANNIN			11	It's a patent case. And this part of the trial, the
12	SUITE 500 BEAUMONT, TEXAS 77701			12	voir dire, is an opportunity for me to ask you some
13	JAMES S. BLANK LATHAM & WATKINS			13	questions and then for the lawyers to ask you some
14	885 THIRD AVENUE			14	questions to determine who will sit on the jury.
15	NEW YORK, NEW YORK 10022			15	Now, we're not trying to pry into your
16	JOSEPH S. PRESTA ROBERT W. FARIS			16	private life; but we need you to give very honest
	NIXON & VANDERHYE			17	answers. If you're wondering whether a question applies
17	901 N. GLEBE ROAD 11TH FLOOR			18	to you, if you'll just raise your hand, we'll find out.
18 19	ARLINGTON, VIRGINIA 22203			19	If there is some question you really don't want to
20				20	answer in front of the entire panel, if you'll raise
21	COURT REPORTER: CHRISTINA L. BICKHAM, CRR, RMR FEDERAL OFFICIAL REPORTER			21	your hand and let me know, then at the end of the
22	300 WILLOW, SUITE 221 BEAUMONT, TEXAS 77701			22	questioning, I'll call you up and we'll question you
23	BEAUMONI, IEAAS 77701			23	separately here just in front of the lawyers.
24	PROCEEDINGS REPORTED USING COMPUTERIZED STENOTY	PE;		24	To start off with the case, we're going to
25	TRANSCRIPT PRODUCED VIA COMPUTER-AIDED TRANSCRIPT	PTION.		25	ask each of you to give some answers to some basic
		Page	e 3		Page 5
1	INDEX			1	information. It's these questions up here on the
2	PAGE			2	screen. They're also on that board there. So, I would
3	INTRODUCTION OF PROSPECTIVE JURORS	5 5		3	ask that you one at a time the court security officer
4	VOIR DIRE BY MR. CAWLEY	30		4	will hand Juror Number 1 a microphone, and if you'll
5	VOIR DIRE BY MR. GERMER 3	38		5	just go ahead and read off the answers. You don't have
6	JURY SEATED 57			6	to read out the question, but if you'll just go ahead
7				7	and read off the answers to the questions. We'll start
8	DIRECT EXAMINATION OF BRAD ARMSTR	RONG	138	8	with go ahead, sir.
9				9	PROSPECTIVE JUROR: My name is Shawn Lucena.
10	INDEX OF EXHIBITS			10	I live in Nacogdoches, Texas. I'm a middle school
11	Plaintiff's Exhibit 447 145			11	teacher for the Nacogdoches ISD. This is my first year
12	Plaintiff's Exhibit 426 146			12	to teach. My spouse's name is Robin. She's an LPC at
13	Plaintiff's Exhibit 428 149			13	the Rusk State hospital. She works for UTMB. She's
14	Plaintiff's Exhibit 425 150			14	worked there for three years, and I have never served on
15	Plaintiff's Exhibit 4 156			15	a jury before.
16	Plaintiff's Exhibit 4 156			16	THE COURT: Thank you.
17	Plaintiff's Exhibit 4 157			17	PROSPECTIVE JUROR: Linda Woods, Livingston,
18	Plaintiff's Exhibit 250 166			18	Texas, teacher, Cleveland Independent School District,
19	Plaintiff's Exhibit 2 191			19	29 years of service there.
20	Plaintiff's Exhibit 2 191			20	THE COURT: What grade, ma'am?
21	Plaintiff's Exhibit 1 192			21	PROSPECTIVE JUROR: Kindergartners.
22	Plaintiff's Exhibit 114 194			22	My husband is Bennie Woods. He works for
23 24	Plaintiff's Exhibit 114 194			23	Wal-Mart, mid management. He's been there 17 years. My
1 /4				24	prior jury service was criminal court in Livingston.
25	Defendant's Exhibit 1 120			25	THE COURT: Did they reach a verdict, ma'am?

2 (Pages 2 to 5)

	Page 154		Page 156
1	moves around.	1	Q. Okay. Do you have Plaintiff's Exhibit 4 in a
2	And, so, the final one if the handle turns	2	binder in front of you?
3		3	MR. CAWLEY: Or I guess I still have it, your
4		4	Honor, if I can approach.
5	yaw. It's a rotating motion. When that happens, this	5	THE COURT: You may.
6	rocker here you can see this one here is moving and	6	MR. CAWLEY: And there's a couple more I can
7	none of the others are moving.	7	take up while I'm at it.
8	<b>, , ,</b>	8	A. Thank you.
9		9	MR. CAWLEY: If you could bring up the first
10		10	page of Plaintiff's Exhibit 4.
11		11	A. Yes, sir.
12		12	BY MR. CAWLEY:
13		13	Q. What is that?
14	8	14	A. This is a patent application I filed in 1996.
15	8, ,	15	Q. All right. Is that one of your early applications
16		16	relating to video games?
17		17	A. Yes, sir.
18	Ð	18 19	Q. And did you file a large patent application in 1996?
19 20		20	A. Yes, sir, I did.
21		21	Q. Is that what has been referred to before in this
22		22	case as your "warehouse"?
23		23	A. Yes, sir.
24		24	Q. And tell us why you call it that.
25		25	A. Well, it was just it was really a lot of
	Page 155	—	Page 157
1	thinking about it. And as I said, you know, I'd go to	1	technology. It had rumble. It had proportional
2		2	sensors, proportional buttons. It had 6 degrees of
3		3	freedom. It had 3-D graphics control. It had the
4	-	4	sheet-connected sensors I was telling you about. It was
5	•	5	just it was a wealth of inventions in that patent
6		6	filing.
7		7	Q. Now, when you filed that application, this
8	two-ways like this (demonstrating); so, each one was	8	Plaintiff's Exhibit 4 that has an application in it, did
9	going left and right and up and down like that. And	9	you file claims?
10	5	10	A. Yes, sir, I did.
11		11	Q. Did you claim everything you could think of in the
12	5 5 7 5		application, the claims that you filed in 1996?
13	, 0	13	A. No, sir.
14	0 50	14	Q. Why not?
15	<i>y b y i</i>	15	A. Well, I just filed enough to get a good start. My
16		16	understanding is that the Patent Office allows you to
17	· · · ·	17	write claims at any later date so long as they are the
18 19	0 5 5	18 19	original invention that you filed in that original
20	1 11 5	20	patent application. Q. Did you claim everything you could think of in
21		20	the
22		22	A. No, sir.
23		23	$Q_{\text{o}} = -\frac{1}{96}$ application?
24		24	Why not?
25			A. Well, it was just I just was trying to get a

40 (Pages 154 to 157)

	Page 158		Page 160
1	good start as	1	the key features of your invention as it's described in
2	Q. Okay.	2	this 2000 application. Just so we're all clear, is it
3	A a practical matter.	3	the 2000 application that the Patent Office examined and
4	Q. How did you start? What did you claim first in	4	eventually granted you a patent on that's the '700
5	your '96 application?	5	patent in this lawsuit today?
6	A. There was some 6-degree-of-freedom, single input	6	A. Yes, sir.
7	member controllers.	7	Q. And is that in front of you, that patent?
8	Q. All right. And taking some of the things in this	8	A. It probably is, yes, sir.
9	application you filed in 1996, did you file another	9	Q. I think I gave you the original of it, didn't I?
10	application in the year 2000?	10	A. Are you talking about this?
11	A. Yes, sir, I did.	11	Q. Yes.
12	Q. And what did that include?	12	A. Yes, sir.
13	A. It's the same technology. It's a daughter	13	Q. Is that the original
14	application of the original parent that I filed in 1996.	14	A. Yes, this is
15	Q. What's the relationship between the 1996	15	Q copy?
16	application and the 2000 application? Explain that to	16	A. This is a certified copy of that patent.
17	us again.	17	Q. Let's talk about some of the key aspects of your
18	A. The 2000 application is based on the 1996	18	invention, Mr. Armstrong. Tell us about the first one.
19	application.	19	A. Rumble is rumble is a technology that I
20	Q. Okay. And you talked about "parent" and	20	invented. It's a way of getting a sense of touch into
21	"daughter."	21	this world because, you know, it's all just graphic
22	A. Yes.	22	images, all visual. And we use our visual sense and
23	Q. What do you mean by that?	23	that's an important sense, but I wanted to make it more
	A. Well, an originally-filed patent application like I	24	compelling. And, so, I came up with a way to make a
25	filed in 1996 is called a "parent patent application."	25	sense of touch into that world and
	Page 159		Page 161
1	And, then, in the future inventors file patent	1	Q. Have you brought anything to court with you today
2	applications that are called "daughters" or "children	2	to be able to demonstrate to the jury how this rumble
3	application"; and it's the same patent application, in	3	works?
4	essence.	4	A. Yes, sir, I do have something.
5	Q. Is that daughter or child application what Judge	5	MR. CAWLEY: May I approach, your Honor?
6	Clark has told us is called a "continuation	6	THE COURT: You may.
7	application"?	7	A. Thank you.
8	A. Yes, sir, it is.	8	BY MR. CAWLEY:
9	Q. Why is it called that "continuation"?	9	Q. Mr. Armstrong, let's start with the unit that you
	A. Because it's just a way that the Patent Office	10	can see most clearly that you have in your hand there.
11 12	rules are. You're allowed to continue your patent	11 12	MR. CAWLEY: And, your Honor, since this
13	application, to write more claims at a later time that	13	again is small, can the witness THE COURT: You may.
$14^{13}$	are still based in the original 1996 or the original parent patent application.	$14^{15}$	MR. CAWLEY: step down again?
15	Q. And why did you file this continuation application	15	THE COURT: Go ahead and step down, sir.
16	in 2000?	16	Go ahead and put that microphone back up
17	A. I wanted to have more pull more of my inventions	17	there, too, please.
18	out of the warehouse.	18	THE WITNESS: Yes, sir.
19	Q. Are there any differences between the 1996	19	THE COURT: And, ladies and gentlemen, let me
20	application and the 2000 application?	20	mention. If you've been in a court before or you've
21	A. Yes, there are.	21	seen on TV, the lawyers will go through this procedure
22	Q. What are those differences?	22	by asking to have an exhibit admitted and the court
23	A. I made some language changes just to clarify and to	23	formally admits it. To save you time, I've done almost
24	kind of get to the heart of the invention sooner.	24	all of that ahead of time. So, if a lawyer mentions an
25	Q. Okay. Now I'd like to talk to you about some of	25	exhibit number, it's in; and you'll get to see it. If

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	Page 162		Page 164
1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16	there's going to be objection, you'll hear it. But if there's no objection, we've already covered that earlier just to save time so that all those words are cut out. So, if you're wondering why I haven't been saying that's admitted or that's not admitted, it's because we did that before you got here to save your time. There will be a few that there may have to be some discussion like that. When that comes up, you'll see it. But, otherwise, if it's mentioned in front of you, it will come back to the jury room for you, if it is an admitted exhibit and not just a demonstrative. A demonstrative is something that you're shown to look at, but it's not a formal exhibit. Those generally are not numbered, or they don't have either a plaintiff's number or defendant's number. Go ahead, counsel.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>Q. Now, in the controller that you described to the Patent Office, Mr. Armstrong, was that weight sitting out in the open like it is there?</li> <li>A. Yes, sir, it was.</li> <li>Q. And did it produce that kind of vibration like the one you have in your hand?</li> <li>A. Yes, sir. This is just like what I told the Patent Office about.</li> <li>Q. All right. Have you looked for that kind of device in a Nintendo GameCube controller?</li> <li>A. Yes, sir, I have.</li> <li>Q. Do you have something that can demonstrate that?</li> <li>A. Yes, sir, I can. This is I take apart everything. I always have, and I always will probably. And especially if I think that it's my invention that somebody else is</li></ul>
17 18 20 21 22 23 24 25	MR. CAWLEY: Thank you, your Honor. BY MR. CAWLEY: Q. Now, Mr. Armstrong, now that you're there with the microphone, do you have something that you can use to demonstrate to the jury rumble and how it works? A. Yes, sir, I do. This is a very simple thing. This is just a clear plastic box with a battery inside of it, a 9-volt battery, just like we have and everybody has them.	17 18 19 20 21 22 23 24 25	making. This is a motor that's out of a Nintendo GameCube controller. Now, you don't see the weight because the weight is built into the inside. But you can tell that it's doing the same thing (demonstrating) when I turn it on. It's vibrating. And the reason why it vibrates is because there is a weight inside this motor that's off to the side and it's just I mean, they kind of hid it inside, but it's that's exactly
	Page 163		Page 165
1 2 3 4 5 6 7 8 9 10	And then I have a switch here, and that's all just to demonstrate. The important part is right up here on top (indicating), and that is just a little electric motor. There's nothing fancy. It's the same electric motor that you can see in any kid's toy or all kinds of things. But the really interesting part is that it has a weight, and you can see the weight is kind of hanging down there. I'll turn it. It's a weight off to one side. And that's what I would call an "offset weight."	9 10	<ul> <li>what's happening.</li> <li>Q. Mr. Armstrong, that microphone seems to be going on and off. So</li> <li>A. Maybe the battery's low.</li> <li>Q. Why don't you put that down and return to the stand so</li> <li>A. I'll try to speak up. I hope you don't feel like I'm yelling at you.</li> <li>Q. Well, since there is one to go, maybe you better speak up.</li> </ul>
2 3 4 5 6 7 8 9	And then I have a switch here, and that's all just to demonstrate. The important part is right up here on top (indicating), and that is just a little electric motor. There's nothing fancy. It's the same electric motor that you can see in any kid's toy or all kinds of things. But the really interesting part is that it has a weight, and you can see the weight is kind of hanging down there. I'll turn it. It's a weight off to one	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>what's happening.</li> <li>Q. Mr. Armstrong, that microphone seems to be going on and off. So</li> <li>A. Maybe the battery's low.</li> <li>Q. Why don't you put that down and return to the stand so</li> <li>A. I'll try to speak up. I hope you don't feel like I'm yelling at you.</li> <li>Q. Well, since there is one to go, maybe you better</li> </ul>

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	Page 166		Page 168
1 2 3 4 5 6 7 8	<ul> <li>A. Okay. So, it's can you hear it? It's vibrating in my fingers. And this is the it's a motor and it has a weight off to the side inside the shell and, so, when it runs, it vibrates and that gives the tactile sensation that is in the Wii remote.</li> <li>BY MR. CAWLEY:</li> <li>Q. Wait a minute. You say you got that out of the Nintendo Wii?</li> </ul>	1 2 3 4 5 6 7 8	<ul><li>BY MR. CAWLEY:</li><li>Q. Can you use that pointer to explain to the jury what we're looking at in this page from your inventor's notebook?</li><li>A. Yes. I would point first to this (indicating), the image here on the upper left. And that is a right in the top part of it, it says "motor." And then here it says "offset weight." And that is the line is shown</li></ul>
9 10 11 12 13	<ul> <li>A. Yes, sir.</li> <li>Q. That's the device that we heard so much about in opening statement?</li> <li>A. Yes, sir.</li> <li>Q. Did you take that little button-looking thing, the</li> </ul>	9 10 11 12 13	to this little this is the weight that's offset on the motor, and that is to provide a vibration just like we saw. And, of course, this is, you know, 1989 when I conceived of this for 3-D graphics controllers. Q. Was this 1989 the date on this page of your
14 15 16 17	<ul><li>motor on the top of that, apart to see if it has a weight in it?</li><li>A. Yes, sir, I did.</li><li>Q. Was it offset like the weight you described?</li></ul>	14 15 16 17	<ul><li>inventor's notebook?</li><li>A. Yes, sir.</li><li>Q. Did you disclose this idea of rumble in your 1996 patent application?</li></ul>
18 19 20 21	<ul><li>A. Yes, sir.</li><li>Q. All right. Why don't you take your seat again, if you would.</li><li>A. Okay.</li></ul>	18 19 20 21	<ul> <li>A. Yes, sir, I did.</li> <li>Q. Can you show us where that is?</li> <li>A. Yes. This is a drawing, Figure Number 21, in the 1996 the warehouse patent application that I made</li> </ul>
22 23 24 25	Q. Look in the notebook in front of you, if you would, and look at Plaintiff's Exhibit 250. MR. CAWLEY: I'd like to call up on the screen the page that's been marked as 41762.	22 23 24 25	<ul> <li>that has all of that technology in it. The orange-shaped drawing is the motor with the offset weight.</li> <li>Q. Can you read us the words that you used</li> </ul>
	1.0		
	Page 167		Page 169
1 2 3	Page 167 BY MR. CAWLEY: Q. First of all, as long as we're looking at the first page, what is this?	1 2 3 4	A. Yes, sir. Q to describe this idea in your '96 patent application?
1 2 3 4 5 6 7	Page 167 BY MR. CAWLEY: Q. First of all, as long as we're looking at the first page, what is this? A. This is I think it's the first page of my inventor's notebook from 1989. Q. Okay. You began this notebook in 1989; is that right?	2 3 4 5 6 7	Page 169 A. Yes, sir. Q to describe this idea in your '96 patent application? A. Right. It says: Figures 20 through 31 show another preferred embodiment, such a device has additional benefits including space to place active tactile feedback in a still small handle, et cetera.
1 2 3 4 5 6 7 8 9 10 11	Page 167 BY MR. CAWLEY: Q. First of all, as long as we're looking at the first page, what is this? A. This is I think it's the first page of my inventor's notebook from 1989. Q. Okay. You began this notebook in 1989; is that right? A. Yes, sir. Q. And it continues on to which A. 1992. Q. All right.	2 3 4 5 6 7 8 9 10 11	<ul> <li>Page 169</li> <li>A. Yes, sir.</li> <li>Q to describe this idea in your '96 patent application?</li> <li>A. Right. It says: Figures 20 through 31 show another preferred embodiment, such a device has additional benefits including space to place active tactile feedback in a still small handle, et cetera.</li> <li>Q. Okay. There are some words there that we haven't heard before; so, maybe we could take a minute and let me ask you about them. The first line says "another preferred</li> </ul>
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 167 BY MR. CAWLEY: Q. First of all, as long as we're looking at the first page, what is this? A. This is I think it's the first page of my inventor's notebook from 1989. Q. Okay. You began this notebook in 1989; is that right? A. Yes, sir. Q. And it continues on to which A. 1992. Q. All right. MR. CAWLEY: Could you go to page 41762? A. Yes, sir. BY MR. CAWLEY: Q. What's this?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes, sir. Q to describe this idea in your '96 patent application? A. Right. It says: Figures 20 through 31 show another preferred embodiment, such a device has additional benefits including space to place active tactile feedback in a still small handle, et cetera. Q. Okay. There are some words there that we haven't heard before; so, maybe we could take a minute and let me ask you about them. The first line says "another preferred embodiment." What do you understand that to mean? A. It means that there are many different inventions in this patent application. The way that those are those are referred to as "preferred embodiments," and
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 167 BY MR. CAWLEY: Q. First of all, as long as we're looking at the first page, what is this? A. This is I think it's the first page of my inventor's notebook from 1989. Q. Okay. You began this notebook in 1989; is that right? A. Yes, sir. Q. And it continues on to which A. 1992. Q. All right. MR. CAWLEY: Could you go to page 41762? A. Yes, sir. BY MR. CAWLEY: Q. What's this? A. This is a page out of my inventor's notebook. The date is November well, there's three signatures. Dates November 3rd, November 6th, and November 7th. This is a drawing of the motor with the offset weight.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 169 A. Yes, sir. Q to describe this idea in your '96 patent application? A. Right. It says: Figures 20 through 31 show another preferred embodiment, such a device has additional benefits including space to place active tactile feedback in a still small handle, et cetera. Q. Okay. There are some words there that we haven't heard before; so, maybe we could take a minute and let me ask you about them. The first line says "another preferred embodiment." What do you understand that to mean? A. It means that there are many different inventions in this patent application. The way that those are those are referred to as "preferred embodiments," and that's just one way to describe the invention. Q. Okay. Now, in that phrase "preferred embodiment," what's the meaning or the implication of the word "preferred"?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 167 BY MR. CAWLEY: Q. First of all, as long as we're looking at the first page, what is this? A. This is I think it's the first page of my inventor's notebook from 1989. Q. Okay. You began this notebook in 1989; is that right? A. Yes, sir. Q. And it continues on to which A. 1992. Q. All right. MR. CAWLEY: Could you go to page 41762? A. Yes, sir. BY MR. CAWLEY: Q. What's this? A. This is a page out of my inventor's notebook. The date is November well, there's three signatures. Dates November 3rd, November 6th, and November 7th.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Page 169</li> <li>A. Yes, sir.</li> <li>Q to describe this idea in your '96 patent application?</li> <li>A. Right. It says: Figures 20 through 31 show another preferred embodiment, such a device has additional benefits including space to place active tactile feedback in a still small handle, et cetera.</li> <li>Q. Okay. There are some words there that we haven't heard before; so, maybe we could take a minute and let me ask you about them. The first line says "another preferred embodiment." What do you understand that to mean?</li> <li>A. It means that there are many different inventions in this patent application. The way that those are those are referred to as "preferred embodiments," and that's just one way to describe the invention.</li> <li>Q. Okay. Now, in that phrase "preferred embodiment," what's the meaning or the implication of the word</li> </ul>

43 (Pages 166 to 169)

	Page 170		Page 172
1	A. Well, it's one way to do it; and it's a good way.	1	talk about it today. The words change over time, but
2	Q. Does it mean that someone could still be using	2	that's it's the same technology.
3	or infringing the patent and do it some other way that's	3	Q. And do those three devices that are sitting in
4	not in the preferred embodiment?	4	front of you that you showed to the jury, the push
5	MR. GUNTHER: Objection, your Honor.	5	buttons and the little motors that whirl around and that
6	A. Yes, sir.	6	vibrate
7	THE COURT: Hold on. Yes?	7	A. Yes, sir.
8	MR. GUNTHER: Objection, calls for a legal	8	Q do those provide active tactile feedback?
9	conclusion.	9	A. Yes, sir, they certainly do.
10	THE COURT: Overruled.	10	Q. Including the ones that you took out of the
11	MR. GUNTHER: Thank you, your Honor.	11	Nintendo controllers?
12	BY MR. CAWLEY:	12	A. Yes, sir.
13	Q. First of all, Mr. Armstrong, anytime there is an	13	Q. All right. You've told us about the first feature
14	objection, please I know you're eager to answer the	14	of your invention that you filed for in 2000 that became
15	question but you went ahead and answered that one,	15	the '700 patent. What's the next feature of your
16	but let's hear the answer again since the judge has	16	invention that you want to tell us about?
17	overruled the objection.	17	A. Proportional buttons.
18	A. Could you ask the question again?	18	Q. What does that mean?
19	Q. Okay. If preferred embodiment means one way to do	19	A. Well, the a button is a kind of if you
20	it	20	think a button is a switch. And if you think of,
21	A. Yes, sir.	21	like, the light switch when you go into your home is
22	Q is it your understanding that someone could do	22	mostly most homes is just it's on, or it's off.
23	it a different way but still be infringing the patent?	23	And, so, that's just it's an on/off switch. But you
24	A. Oh, yes, sir. Absolutely.	24 25	might put a dimmer in there, in which case it's more than just on or off; it's something in between. It's
25	Q. And is that because the preferred embodiment is	125	than just on or off, it's something in between lif's
			<sup>v</sup> v
	Page 171		Page 173
1		1	<sup>v</sup>
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44 (Pages 170 to 173)

	Page 174		Page 176
1	Q. Can you show us?	1	A. Yes, sir, I do. I have this exhibit. Now, this
2	A. This is a quote out of the 1996 application. It	2	one has the exhibit sticker.
3	says: The invention can be constructed with sensors as	3	Q. That's probably from a deposition. So, rather than
4	simple as electrical contacts or more sophisticated	4	get into that, it's been disclosed as a demonstrative.
5	proportional and pressure-sensitive variable output	5	So, just go ahead and explain it to the jury, if you
6	sensors or the like.	6	would.
7	MR. GUNTHER: Your Honor, I just have a	7	My question was: What's the problem?
8	question. I may be just on the wrong page. Page 14	8	A. Well, the problem is that when you do just
9	doesn't seem to match up with what I'm looking at.	9	individual wiring, it's error-prone; and we want to be
10	THE COURT: All right. Is that page 14 of	10	able to sell huge volumes of these things. I wanted to
11	the prior application or the application or the prior	11	create controllers that could be sold in huge volumes
12	patent?	12	and they had to be really reliable and, so, they could
13	MR. CAWLEY: The page 14 is the page	13	be manufactured and, so in high volumes and a
14	number in the juror notebook for the application. And	14	reliable product. That's why I worked on these being
15	if we want to know how it relates back to the	15	able to put all of the circuits down onto a single
16	prosecution history, we'll have to get it out of the	16	circuit board sheet for as simple as possible.
17	juror notebook and match it up.	17	Q. Okay. Once again, if you hold up that
18 19	MR. GUNTHER: We can do that later. That's	18 19	demonstrative controller A. This one?
20	no problem. MR. CAWLEY: Okay.	20	
21	MR. GUNTHER: Thank you.	20	Q. Yes. Is that how some of the early controllers were put together?
22	THE COURT: So, just to help you, ladies and	22	A. Yes, sir.
23	gentlemen, we have some of this information in your	23	Q. Did they use circuit boards?
24	juror notebook so you can follow along.	24	A. It didn't have a circuit board, but it had all of
25	And counsel on both sides, of course, when	25	this individual wiring.
—	Page 175		Page 177
1	that comes up, if you'll remind them, it will obviously	1	MR. CAWLEY: Your Honor, if I might approach
2	be a help to them.	2	the witness.
3	Thank you, counsel, for bringing that up.	3	THE COURT: You may.
4	MR. GUNTHER: Thank you, your Honor.	4	A. Yes, sir.
5	THE COURT: Go ahead, Mr. Cawley.	5	BY MR. CAWLEY:
6	BY MR. CAWLEY:	6	Q. Can you tell us what that is that I just handed
7	Q. So, irrespective of this issue about the page	7	you?
8	numbers in the notebook versus the application, is	8	A. This is a circuit board with all of the wiring
9	this	9	reduced to just circuit traces.
10	MR. CAWLEY: If we could go back to that	10	Q. Now, we've probably all heard of circuit boards.
11	language.		But tell us, just to be clear: What is a circuit board?
12	BY MR. CAWLEY:	12 13	A. This is out of a game controller. This is a
13	Q. Is this an actual reproduction of the language from	I I ≺	
14			this has got the ability to put multiple different
	your '96 application?	14	sensors all onto one circuit board.
15	your '96 application? A. Yes, sir, I believe it is.	14 15	sensors all onto one circuit board. Q. Is it something that's printed?
15 16	your '96 application? A. Yes, sir, I believe it is. Q. Okay. What's the next feature of your continuation	14 15 16	<ul><li>sensors all onto one circuit board.</li><li>Q. Is it something that's printed?</li><li>A. Yes, sir. It's manufactured in a factory.</li></ul>
15 16 17	<ul><li>your '96 application?</li><li>A. Yes, sir, I believe it is.</li><li>Q. Okay. What's the next feature of your continuation application that you filed in the year 2000?</li></ul>	14 15 16 17	<ul><li>sensors all onto one circuit board.</li><li>Q. Is it something that's printed?</li><li>A. Yes, sir. It's manufactured in a factory.</li><li>Q. Now, you didn't invent circuit boards, did you,</li></ul>
15 16 17 18	<ul><li>your '96 application?</li><li>A. Yes, sir, I believe it is.</li><li>Q. Okay. What's the next feature of your continuation application that you filed in the year 2000?</li><li>A. There was the sheet-connected sensors.</li></ul>	14 15 16 17 18	<ul><li>sensors all onto one circuit board.</li><li>Q. Is it something that's printed?</li><li>A. Yes, sir. It's manufactured in a factory.</li><li>Q. Now, you didn't invent circuit boards, did you,</li><li>Mr. Armstrong?</li></ul>
15 16 17 18 19	<ul> <li>your '96 application?</li> <li>A. Yes, sir, I believe it is.</li> <li>Q. Okay. What's the next feature of your continuation application that you filed in the year 2000?</li> <li>A. There was the sheet-connected sensors.</li> <li>Q. What does that mean, a sheet-connected sensor?</li> </ul>	14 15 16 17 18 19	<ul><li>sensors all onto one circuit board.</li><li>Q. Is it something that's printed?</li><li>A. Yes, sir. It's manufactured in a factory.</li><li>Q. Now, you didn't invent circuit boards, did you,</li><li>Mr. Armstrong?</li><li>A. Oh, no, sir. No, sir.</li></ul>
15 16 17 18 19 20	<ul> <li>your '96 application?</li> <li>A. Yes, sir, I believe it is.</li> <li>Q. Okay. What's the next feature of your continuation application that you filed in the year 2000?</li> <li>A. There was the sheet-connected sensors.</li> <li>Q. What does that mean, a sheet-connected sensor?</li> <li>A. That is what I was describing to the jury as that</li> </ul>	14 15 16 17 18 19 20	<ul> <li>sensors all onto one circuit board.</li> <li>Q. Is it something that's printed?</li> <li>A. Yes, sir. It's manufactured in a factory.</li> <li>Q. Now, you didn't invent circuit boards, did you,</li> <li>Mr. Armstrong?</li> <li>A. Oh, no, sir. No, sir.</li> <li>Q. What did you invent involving a circuit board in</li> </ul>
15 16 17 18 19	<ul> <li>your '96 application?</li> <li>A. Yes, sir, I believe it is.</li> <li>Q. Okay. What's the next feature of your continuation application that you filed in the year 2000?</li> <li>A. There was the sheet-connected sensors.</li> <li>Q. What does that mean, a sheet-connected sensor?</li> <li>A. That is what I was describing to the jury as that blue and white prototype really allowed for the</li> </ul>	14 15 16 17 18 19	<ul> <li>sensors all onto one circuit board.</li> <li>Q. Is it something that's printed?</li> <li>A. Yes, sir. It's manufactured in a factory.</li> <li>Q. Now, you didn't invent circuit boards, did you,</li> <li>Mr. Armstrong?</li> <li>A. Oh, no, sir. No, sir.</li> <li>Q. What did you invent involving a circuit board in your '700 patent?</li> </ul>
15 16 17 18 19 20 21	<ul> <li>your '96 application?</li> <li>A. Yes, sir, I believe it is.</li> <li>Q. Okay. What's the next feature of your continuation application that you filed in the year 2000?</li> <li>A. There was the sheet-connected sensors.</li> <li>Q. What does that mean, a sheet-connected sensor?</li> <li>A. That is what I was describing to the jury as that</li> </ul>	14 15 16 17 18 19 20 21	<ul> <li>sensors all onto one circuit board.</li> <li>Q. Is it something that's printed?</li> <li>A. Yes, sir. It's manufactured in a factory.</li> <li>Q. Now, you didn't invent circuit boards, did you,</li> <li>Mr. Armstrong?</li> <li>A. Oh, no, sir. No, sir.</li> <li>Q. What did you invent involving a circuit board in</li> </ul>
15 16 17 18 19 20 21 22	<ul> <li>your '96 application?</li> <li>A. Yes, sir, I believe it is.</li> <li>Q. Okay. What's the next feature of your continuation application that you filed in the year 2000?</li> <li>A. There was the sheet-connected sensors.</li> <li>Q. What does that mean, a sheet-connected sensor?</li> <li>A. That is what I was describing to the jury as that blue and white prototype really allowed for the reduction in wiring; individual wiring could be reduced.</li> </ul>	14 15 16 17 18 19 20 21 22	<ul> <li>sensors all onto one circuit board.</li> <li>Q. Is it something that's printed?</li> <li>A. Yes, sir. It's manufactured in a factory.</li> <li>Q. Now, you didn't invent circuit boards, did you,</li> <li>Mr. Armstrong?</li> <li>A. Oh, no, sir. No, sir.</li> <li>Q. What did you invent involving a circuit board in your '700 patent?</li> <li>A. Well, my effort was to be able to make 3-D graphics</li> </ul>

45 (Pages 174 to 177)

	Page 178		Page 180
1	Q. Did you think circuit boards were a good way to do	1	That was central.
2	that?	2	Q. Okay. And why is that important?
3	A. Yes, sir.	3	A. It's just it's six axes is kind of a magic
4	Q. Did you, in 1996, disclose to the Patent Office in	4	number in 3-D graphics control. You don't have to have
5	your patent application the idea of using circuit boards	5	exactly six, but it just is it's kind of a highest
6	in game controllers?	6	calling. It's the best way to do things. It's not the
7	A. Yes, sir, I did.	7	only way, but it's a high calling.
8	MR. CAWLEY: Can we see that?	8	Q. Can you demonstrate for us how a video game
9	A. Yes. This is text from my 1996 application, the	9	controller, such as the ones made by Nintendo, can be
10	original parent patent application, where it says:	10	used to control characters in up to 6 degrees of
11	Providing structure with the advantage of mounting the	11	freedom?
12	sensors in a generally single area or on at least one	12	A. Yes, sir, I can.
13	planar area, such as on a generally flat flexible	13	MR. CAWLEY: Your Honor, may the witness step
14	membrane sensor sheet or circuit board sheet, so that	14	down and
15	the controller can be highly reliable and relatively	15	THE COURT: You may.
16	inexpensive to manufacture.	16	MR. CAWLEY: conduct that demonstration?
17	BY MR. CAWLEY:	17	BY MR. CAWLEY:
18	Q. Is that thing on the bottom a drawing or	18	Q. You might want to give the microphone another try.
19	reproduction of a drawing from your '96 patent	19 20	A. All right. I might just be yelling. What I'd like to demonstrate here is some
20	application?	-	
21 22	A. Yes, sir. That's Figure 17.	21 22	functionality of these controllers. And primarily what
23	Q. Now, while we're at it, just so there's not any confusion, in the slide we saw before this with the	22	I'm going to demonstrate is under my right thumb here, there is a two-way pad. It has an up and down and a
24	language from the patent application, there was some	24	left and right. And under my left thumb there is a
	yellow highlighting like there is here, right?	25	thumb stick that has an up and down and a left and
		23	<u>^</u>
	Page 179		Page 181
1	A. Yes, sir.	1	right. And I'm going to start out by demonstrating
2	Q. That wasn't in your '96 application, was it?	2	viewpoint control, in other words, how to control the
3	A. No. The highlighting is added here.	3	view in the game.
4	Q. Okay. And, likewise, we see that something in this	4	Now, I'm just going to press, with my
5	drawing is colored green.	5	right the right button here and then the left button
67	A. Yes, sir.	6	(demonstrating). And you can see that the view is going
7 8	<ul><li>Q. Was that green in your patent application?</li><li>A. No, sir.</li></ul>	7	to the right and to the left. And now if I press forwards, the view goes
9	Q. Why did you why have you turned it green here?	9	forwards. And if I press back, the view goes back.
10	A. Just to emphasize that part so that the jury can	10	Q. Now, are those different degrees of freedom?
11	see what we're talking about here.	11	A. Yes, sir.
12	Q. Okay. And what is that green thing?	12	Q. And are those all controlled by the controller?
13	a start is the start is the prover tilling .		
14			-
	A. Well, it's a sheet. It's a sheet with a variety of different sensors on it. It's best shown as a membrane	13 14	A. Yes, sir.
	A. Well, it's a sheet. It's a sheet with a variety of different sensors on it. It's best shown as a membrane	13	A. Yes, sir. Another way of controlling viewpoint is
15 16	A. Well, it's a sheet. It's a sheet with a variety of different sensors on it. It's best shown as a membrane sheet, but it certainly can be a circuit board sheet.	13 14	A. Yes, sir.
15	A. Well, it's a sheet. It's a sheet with a variety of different sensors on it. It's best shown as a membrane	13 14 15	A. Yes, sir. Another way of controlling viewpoint is right now this is Super Mario Galaxy, the game; and
15 16	<ul><li>A. Well, it's a sheet. It's a sheet with a variety of different sensors on it. It's best shown as a membrane sheet, but it certainly can be a circuit board sheet.</li><li>Q. All right. And, Mr. Armstrong, what was the next</li></ul>	13 14 15 16	A. Yes, sir. Another way of controlling viewpoint is right now this is Super Mario Galaxy, the game; and we're looking at it from Mario's perspective. With my
15 16 17 18 19	<ul> <li>A. Well, it's a sheet. It's a sheet with a variety of different sensors on it. It's best shown as a membrane sheet, but it certainly can be a circuit board sheet.</li> <li>Q. All right. And, Mr. Armstrong, what was the next novel or new feature that you included in your 2000 patent application that eventually became the '700 patent?</li> </ul>	13 14 15 16 17	A. Yes, sir. Another way of controlling viewpoint is right now this is Super Mario Galaxy, the game; and we're looking at it from Mario's perspective. With my left thumb, I can push to the left; and he looks to the
15 16 17 18 19 20	<ul> <li>A. Well, it's a sheet. It's a sheet with a variety of different sensors on it. It's best shown as a membrane sheet, but it certainly can be a circuit board sheet.</li> <li>Q. All right. And, Mr. Armstrong, what was the next novel or new feature that you included in your 2000 patent application that eventually became the '700 patent?</li> <li>A. Well, it's the ability to control three-dimensional</li> </ul>	13 14 15 16 17 18 19 20	A. Yes, sir. Another way of controlling viewpoint is right now this is Super Mario Galaxy, the game; and we're looking at it from Mario's perspective. With my left thumb, I can push to the left; and he looks to the left. With my right, push to the right, looks to the right. Pull up, and he looks up. Push down, and he looks down. So, that's a way of controlling the view
15 16 17 18 19 20 21	<ul> <li>A. Well, it's a sheet. It's a sheet with a variety of different sensors on it. It's best shown as a membrane sheet, but it certainly can be a circuit board sheet.</li> <li>Q. All right. And, Mr. Armstrong, what was the next novel or new feature that you included in your 2000 patent application that eventually became the '700 patent?</li> <li>A. Well, it's the ability to control three-dimensional graphics; in other words, structures for controlling 3-D</li> </ul>	13 14 15 16 17 18 19 20 21	A. Yes, sir. Another way of controlling viewpoint is right now this is Super Mario Galaxy, the game; and we're looking at it from Mario's perspective. With my left thumb, I can push to the left; and he looks to the left. With my right, push to the right, looks to the right. Pull up, and he looks up. Push down, and he looks down. So, that's a way of controlling the view with these different inputs.
15 16 17 18 19 20 21 22	<ul> <li>A. Well, it's a sheet. It's a sheet with a variety of different sensors on it. It's best shown as a membrane sheet, but it certainly can be a circuit board sheet.</li> <li>Q. All right. And, Mr. Armstrong, what was the next novel or new feature that you included in your 2000 patent application that eventually became the '700 patent?</li> <li>A. Well, it's the ability to control three-dimensional graphics; in other words, structures for controlling 3-D graphics.</li> </ul>	13 14 15 16 17 18 19 20 21 22	A. Yes, sir. Another way of controlling viewpoint is right now this is Super Mario Galaxy, the game; and we're looking at it from Mario's perspective. With my left thumb, I can push to the left; and he looks to the left. With my right, push to the right, looks to the right. Pull up, and he looks up. Push down, and he looks down. So, that's a way of controlling the view with these different inputs. Now, another thing that I would like to show
15 16 17 18 19 20 21 22 23	<ul> <li>A. Well, it's a sheet. It's a sheet with a variety of different sensors on it. It's best shown as a membrane sheet, but it certainly can be a circuit board sheet.</li> <li>Q. All right. And, Mr. Armstrong, what was the next novel or new feature that you included in your 2000 patent application that eventually became the '700 patent?</li> <li>A. Well, it's the ability to control three-dimensional graphics; in other words, structures for controlling 3-D graphics.</li> <li>Q. What does that mean?</li> </ul>	13 14 15 16 17 18 19 20 21 22 23	A. Yes, sir. Another way of controlling viewpoint is right now this is Super Mario Galaxy, the game; and we're looking at it from Mario's perspective. With my left thumb, I can push to the left; and he looks to the left. With my right, push to the right, looks to the right. Pull up, and he looks up. Push down, and he looks down. So, that's a way of controlling the view with these different inputs. Now, another thing that I would like to show you is that now, what I did is I just clicked on that
15 16 17 18 20 21 22 23 24	<ul> <li>A. Well, it's a sheet. It's a sheet with a variety of different sensors on it. It's best shown as a membrane sheet, but it certainly can be a circuit board sheet.</li> <li>Q. All right. And, Mr. Armstrong, what was the next novel or new feature that you included in your 2000 patent application that eventually became the '700 patent?</li> <li>A. Well, it's the ability to control three-dimensional graphics; in other words, structures for controlling 3-D graphics.</li> </ul>	13 14 15 16 17 18 19 20 21 22 23 24	A. Yes, sir. Another way of controlling viewpoint is right now this is Super Mario Galaxy, the game; and we're looking at it from Mario's perspective. With my left thumb, I can push to the left; and he looks to the left. With my right, push to the right, looks to the right. Pull up, and he looks up. Push down, and he looks down. So, that's a way of controlling the view with these different inputs. Now, another thing that I would like to show

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	Page 186		Page 188
1	I do have a concern about him stating his own	1	Q. And did you going back now to this last feature
2	opinion that the Wii the way you asked that last	2	that you're talking about, the control of motion or
3	question made it sound like he was giving opinion that	3	point of view and up to 6 degrees of freedom, did you
4	the Wii was his invention; although, you said not the	4	disclose that idea to the Patent Office in 1996?
5	whole Wii, the	5	A. Yes, sir, I did.
6	MR. CAWLEY: I mean, I can see how that	6	Q. Can you show us that? What is this?
7	might you might have that impression; but that's not	7	A. This is figure Number 22 out of my 1996
8	what I'm asking him.	8	application.
9	THE COURT: I need you to rephrase that so	9	Q. Do you still have a laser pointer there?
10	it's not his opinion that he invented you started off	10	A. Yes, sir, I do.
11	by talking not the Wii. But right there at the end,	11	Q. Can you use the laser pointer to briefly explain to
12	before counsel objected not for reasons counsel said,	12	us what this figure shows and how it accomplishes
13	but I agree with his objection. So, let's get it right.	13	control and up to 6 degrees of freedom?
14	Let's and I've been following along in the claims,	14	A. Yes. This figure is a drawing that's really very
15	and you haven't got there yet.	15	similar to the blue and white prototype that I showed
16	MR. CAWLEY: No, and I'm not going to with	16	you. There were four rockers on that blue and white
17	this witness.	17	prototype, and there are four rockers on this.
18	THE COURT: Well, I understand. But each of	18	You see this (indicating), Number 344, is a
19	the things he's talking about so far is an element of	19	rocker for one axis. This (indicating) number here,
20	one or more of the claims.	20	342, is a rocker for another axes. This (indicating)
21	MR. CAWLEY: That's right.	21	rocker here, 346, is a third rocker. And this
22	THE COURT: There's two in 19 and one in 16	22	(indicating) rocker here, 340, is a fourth rocker. And
23	or 14 that I've been following. So, I don't have a	23	that's essentially the equivalent of the four rockers
24	problem with that. But I will say the way that last one	24	that I showed you in the blue and white prototype.
25	was worded	25	Q. And how many degrees of freedom does that
	Page 187		Page 189
1		1	
1 2	MR. CAWLEY: Okay. So, can I just ask him,	1	A. Right here is showing 4 degrees of freedom.
			accomplish?
2	MR. CAWLEY: Okay. So, can I just ask him, "What did you invent?"	2	accomplish? A. Right here is showing 4 degrees of freedom.
2 3	MR. CAWLEY: Okay. So, can I just ask him, "What did you invent?" THE COURT: He can talk about that. Did I	2 3	<ul><li>accomplish?</li><li>A. Right here is showing 4 degrees of freedom.</li><li>Q. And did you include other drawings in the patent</li></ul>
2 3 4	MR. CAWLEY: Okay. So, can I just ask him, "What did you invent?" THE COURT: He can talk about that. Did I MR. GUNTHER: As long as it's not tied to	2 3 4	<ul><li>accomplish?</li><li>A. Right here is showing 4 degrees of freedom.</li><li>Q. And did you include other drawings in the patent application to show additional degrees of freedom?</li></ul>
2 3 4 5	MR. CAWLEY: Okay. So, can I just ask him, "What did you invent?" THE COURT: He can talk about that. Did I MR. GUNTHER: As long as it's not tied to the not tied to our products.	2 3 4 5	<ul><li>accomplish?</li><li>A. Right here is showing 4 degrees of freedom.</li><li>Q. And did you include other drawings in the patent application to show additional degrees of freedom?</li><li>A. Yes, sir.</li></ul>
2 3 4 5 6	MR. CAWLEY: Okay. So, can I just ask him, "What did you invent?" THE COURT: He can talk about that. Did I MR. GUNTHER: As long as it's not tied to the not tied to our products. MR. CAWLEY: I'll preface it with that. THE COURT: Okay. MR. GUNTHER: Thank you, your Honor.	2 3 4 5	<ul><li>accomplish?</li><li>A. Right here is showing 4 degrees of freedom.</li><li>Q. And did you include other drawings in the patent application to show additional degrees of freedom?</li><li>A. Yes, sir.</li><li>Q. Okay. We'll see those a little later in more</li></ul>
2 3 4 5 6 7 8 9	MR. CAWLEY: Okay. So, can I just ask him, "What did you invent?" THE COURT: He can talk about that. Did I MR. GUNTHER: As long as it's not tied to the not tied to our products. MR. CAWLEY: I'll preface it with that. THE COURT: Okay. MR. GUNTHER: Thank you, your Honor. (Bench conference concluded. The following	2 3 4 5 6 7 8 9	<ul> <li>accomplish?</li> <li>A. Right here is showing 4 degrees of freedom.</li> <li>Q. And did you include other drawings in the patent application to show additional degrees of freedom?</li> <li>A. Yes, sir.</li> <li>Q. Okay. We'll see those a little later in more detail when Professor Howe testifies. So, let me move</li> </ul>
2 3 4 5 6 7 8 9	MR. CAWLEY: Okay. So, can I just ask him, "What did you invent?" THE COURT: He can talk about that. Did I MR. GUNTHER: As long as it's not tied to the not tied to our products. MR. CAWLEY: I'll preface it with that. THE COURT: Okay. MR. GUNTHER: Thank you, your Honor. (Bench conference concluded. The following proceedings were heard in open court.)	2 3 4 5 6 7 8 9 10	<ul> <li>accomplish?</li> <li>A. Right here is showing 4 degrees of freedom.</li> <li>Q. And did you include other drawings in the patent application to show additional degrees of freedom?</li> <li>A. Yes, sir.</li> <li>Q. Okay. We'll see those a little later in more detail when Professor Howe testifies. So, let me move along now and ask you this: When you combined these four features that eventually became your '700 patent and you first actually experienced them in a controller,</li> </ul>
2 3 4 5 6 7 8 9 10 11	MR. CAWLEY: Okay. So, can I just ask him, "What did you invent?" THE COURT: He can talk about that. Did I MR. GUNTHER: As long as it's not tied to the not tied to our products. MR. CAWLEY: I'll preface it with that. THE COURT: Okay. MR. GUNTHER: Thank you, your Honor. (Bench conference concluded. The following proceedings were heard in open court.) THE COURT: Go ahead, counsel.	2 3 4 5 6 7 8 9 10 11	<ul> <li>accomplish?</li> <li>A. Right here is showing 4 degrees of freedom.</li> <li>Q. And did you include other drawings in the patent application to show additional degrees of freedom?</li> <li>A. Yes, sir.</li> <li>Q. Okay. We'll see those a little later in more detail when Professor Howe testifies. So, let me move along now and ask you this: When you combined these four features that eventually became your '700 patent and you first actually experienced them in a controller, were there any results that surprised you?</li> </ul>
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48 (Pages 186 to 189)

	Page 190		Page 192
1 2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>page 190</li> <li>you've described to us?</li> <li>A. Yes, sir.</li> <li>Q. And did you draft some of the claims in your '700 patent to require all four of those features?</li> <li>A. Yes, sir.</li> <li>Q. But did you draft some claims, also, that might require less than all four?</li> <li>A. Yes, sir.</li> <li>Q. Why did you do that?</li> <li>A. Well, because, you know, there are lesser inventions, also. I have a highest calling, a great invention, the really involving ones; and there are lesser inventions. And in order to build up to the biggest and best invention, I had to build a whole bunch</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>drawn from a certain direction, and all that stuff. But you submit it to the Patent Office, and then the Patent Office does a search for all the inventions that are like that that they can find. And that takes they do a good job. They do an in-depth search and Q. Just if you would, just tell me A. Yes, sir.</li> <li>Q. Tell me what the file history is.</li> <li>A. Oh, I'm sorry. I get carried away with details sometimes. I'm that way. It is the paper record of everything that the Patent Office does before they issue the patent. </li> <li>Q. And does it include all the communications between you and the Patent Office about your '700 patent?</li> </ul>
15 16	of smaller inventions along the way to get there. And	15 16	·
17	those smaller inventions are good inventions, too. They're really good inventions, some of them. They're	17	Q. And I think you've already showed us Plaintiff's Exhibit 1, but if you could hold up that certified copy
18	just not as good as the very best ones.	18	again.
19	Q. Now, did you hire a lawyer to help you get the '700	19	A. Yes, sir.
20 21	patent? A. No, sir, I did not.	20 21	Q. Is that the patent that issued to you after the five years?
22	Q. Did you talk to some?	22	A. Yes, sir, it is.
23	A. Yes, sir.	23	Q. How did you feel when you got that patent?
24	Q. And how long did it take to get the '700 patent?	24	6 6
25	A. I think it was pending about five years.	25	when you get a U.S. patent, you're so proud. You know,
	Page 191		Page 193
1	Q. Did you ever get frustrated with the process?	1	you just you feel like well, like when you got
2	<ul><li>Q. Did you ever get frustrated with the process?</li><li>A. At times, yes, sir.</li></ul>	2	you just you feel like well, like when you got your high school diploma or that you've done
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2 3 4 5 6	<ul> <li>Q. Did you ever get frustrated with the process?</li> <li>A. At times, yes, sir.</li> <li>Q. Let me show you what I hold in my hand here, Plaintiff's Exhibit 2. I guess you can't see it from here.</li> <li>MR. CAWLEY: Could you pull up on the screen</li> </ul>	2 3 4 5 6	<ul><li>you just you feel like well, like when you got your high school diploma or that you've done something really good. And, you know, it's just a wonderful feeling of achievement.</li><li>Q. Let me move on to a different subject, Mr. Armstrong.</li></ul>
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49 (Pages 190 to 193)

	Page 224		Page 226
1	A. I think that would be in the year well, the	1	Ladies and gentlemen, remember, of course,
2	exact year I don't know. When they would come out with	2	that what the lawyers say or don't say is not evidence;
3	products, I would look at them and open them up and	3	and it will be up to you to remember what was said and
4	and if it made my invention, then that was for	4	what the testimony was.
5	example, when the GameCube controller came out, that was		Go ahead, counsel.
6	an example of my invention.	6	MR. CAWLEY: Thank you, your Honor.
7	Q. Right. And do you remember when that was?	7	BY MR. CAWLEY:
8	A. I think that was 2001, right in that time frame. I	8	Q. And do you remember that he highlighted this
9	don't know exactly, sir.	9	language: A sensor connecting sheet material
10	Q. All right. Now	10	multiple-axes he highlighted this language
11	A. Maybe 2000.	11	"controllers comprised of a single input member operable
12	Q. And by your invention, are you are you referring	12	in 6 DOF." Do you remember that?
13	to the things that you disclosed to the Patent Office in	13	A. Yes, sir.
14	that warehouse application back in 2006?	14	Q. And do you remember that he told the jury that the
15	A. 1996, yes, sir.	15	only thing you had actually invented was a controller
16	Q. Sorry. 1996. My mistake.	16	with a single input member? Do you remember that?
17	Now, Mr. Armstrong, do you intend to show the	17	A. Yes, sir.
18	jury this morning a point-by-point comparison of	18	Q. Well, let me show you this next slide, which is the
19	Nintendo's controllers compared to your '700 patent?	19	next couple of sentences of that same abstract that
20	A. No, sir.	20	A. Right.
21	Q. And why are you not going to do that?	21	Q Nintendo's lawyer didn't show you yesterday.
22	A. There's a professor from Harvard University who's	22	A. Yes.
23	prepared a study of that.	23	Q. What do we see here in the highlighted language?
24	Q. And will he be here to testify later today?	24	A. This "in an alternative embodiment," and then skip
25	A. Yes, sir, he will.	25	down to the most relevant part is "reach a widely-spread
	Page 225		Page 227
1		1	
1 2	Page 225 Q. Is that Professor Howe? A. Yes, sir.	1	3-D constellation of 6 DOF and/or other sensor
	<ul><li>Q. Is that Professor Howe?</li><li>A. Yes, sir.</li></ul>		3-D constellation of 6 DOF and/or other sensor mountings." The "other sensor mountings" is the
2	<ul><li>Q. Is that Professor Howe?</li><li>A. Yes, sir.</li><li>Q. Now, I want to ask you about some things we heard</li></ul>	2	3-D constellation of 6 DOF and/or other sensor mountings." The "other sensor mountings" is the critical language here because it was described that all
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2 3 4	<ul><li>Q. Is that Professor Howe?</li><li>A. Yes, sir.</li><li>Q. Now, I want to ask you about some things we heard yesterday, some accusations against you.</li></ul>	2 3 4	3-D constellation of 6 DOF and/or other sensor mountings." The "other sensor mountings" is the critical language here because it was described that all I had was just a single input member, and here's we're talking about other sensor mountings, and there are other inputs in this specification in the patent.
2 3 4 5	<ul> <li>Q. Is that Professor Howe?</li> <li>A. Yes, sir.</li> <li>Q. Now, I want to ask you about some things we heard yesterday, some accusations against you. Did you ever claim that you invented an accelerometer?</li> <li>A. No, sir.</li> </ul>	2 3 4 5	3-D constellation of 6 DOF and/or other sensor mountings." The "other sensor mountings" is the critical language here because it was described that all I had was just a single input member, and here's we're talking about other sensor mountings, and there
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2 3 4 5 6 7	<ul> <li>Q. Is that Professor Howe?</li> <li>A. Yes, sir.</li> <li>Q. Now, I want to ask you about some things we heard yesterday, some accusations against you. Did you ever claim that you invented an accelerometer?</li> <li>A. No, sir.</li> <li>Q. Have accelerometers been around a long time, to your knowledge?</li> </ul>	2 3 4 5 6 7 8 9	3-D constellation of 6 DOF and/or other sensor mountings." The "other sensor mountings" is the critical language here because it was described that all I had was just a single input member, and here's we're talking about other sensor mountings, and there are other inputs in this specification in the patent. Q. And is the "alternative embodiment," up at the top there does that mean that, right after what Nintendo's lawyer showed the jury yesterday, you said to
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	Page 228		Page 230
1	A. Yes, sir. That is. It's Figure 6.	1	A. Yes, sir, it is.
2	Q. On the bottom there is some text or language from	2	Q. Does this drawing, back in your 1996 application,
3	your application, correct?	3	show two different input members?
4	A. Yes, sir.	4	A. Yes, sir. There are two separate input members in
5	Q. Tell us what is shown in that drawing, Figure 6,	5	this drawing.
6	from your 1996 application.	6	Q. And now let's read the text that is describing
7	A. Right. There is a you can see the yellow area	7	this. And I'll just read it out loud: Further, the
8	and then inside of the yellow area is a round ball and	8	trackball 12 input member may be interpretable on all
9	it has a Number 12 to it. And that ball is a	9	six axes as previously described, and the rotatable
10	6-degree-of-freedom input member or a 3-D input member	10	collet can serve as an additional secondary input
11	and that is what it appeared to me he was saying	11	member.
12	that's the only thing this patent has, that it doesn't	12	Did I read that accurately?
13	have any other input members.	13	A. No, sir. That's exactly what it says.
14	Q. Don't worry about	14	Q. Okay. I think I think that's good enough.
15	A. So	15	That's good enough for me.
16	Q that for now, Mr. Armstrong.	16	What, though just so we're not confused,
17	A. The	17	what's a collet? I see that the third line down says
18	Q. Just show me	18	"rotatable collet." What's a collet?
19	A. The yellow part	19	A. Well, that's the part that's yellow in the drawing.
20	THE COURT: Wait.	20	It's the Number 16. And it is a second part that you
21	THE WITNESS: Excuse me.	21	can manipulate or control with your hand.
22	BY MR. CAWLEY:	22	Q. Okay.
23 24	Q. Sorry. Sorry.	23 24	A. It's a second input member. Yes, sir.
	THE COURT: Let me explain. The court reporter can only take one person at a time. When your	24	Q. So, the yellow thing that fits around the ball is called a "collet"?
23		2.5	
	Page 229		Page 231
1	lawyer is talking, you've got to stop. He knows that	1	A. Yes, sir.
2	when you're talking, he's got to stop; but you've got to	2	Q. And just so we understand how this works, the ball
3	remember to stop when he's trying to say something.	3	is movable; is that right?
4	Otherwise, it comes out as a really jumbled mess on the	4	A. Yes, sir.
5 6	record. Okay? THE WITNESS: Okay, your Honor.	5 6	Q. And you can control things on the screen with the ball?
7	THE WITNESS. Okay, your Hollor. THE COURT: Now, I know you're not used to	7	A. Yes, sir.
8	this, but	8	Q. And the yellow collet is separately movable,
9	THE WITNESS: All right.	9	correct?
10	THE COURT: just remember she's trying to	10	
11	take everything down. Okay?	11	Q. And you can separately control things on the
12	THE WITNESS: Thank you. I'll try to be	12	computer screen with the collet. Accurate?
13	better.	13	A. Yes, sir.
14	BY MR. CAWLEY:	14	Q. And does this specifically describe that collet as
15	Q. I apologize for my interrupting you, Mr. Armstrong.	15	a secondary input member?
16	I didn't mean to be rude, but I want to make sure that	16	A. Yes, sir. It's quoted "an additional secondary
17	this moves along promptly and that we really focus our	17	input member."
18	time. So, let me ask you some more specific questions.	18	Q. Is it true, then, Mr. Armstrong, as Anascape's
19	Is the white ball that we see there that's	19	lawyer told the jury yesterday, that all your 1996
20	got a Number 12 pointing to it is that an input	20	application disclosed was a way to do controllers with a
21	member?	21	single input member?
22	A. Yes, sir, it is.	22	A. That would not be true.
23 24	Q. Is the yellow thing that looks kind of like a very	23	Q. Let's look at another drawing from your 1996
.4	deep saucer surrounding the ball is that a different	24	application. Is this another way you disclosed to the
	input member?	25	Patent Office that your invention might be done?

9 (Pages 228 to 231)

	Page 232		Page 234
1 2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>A. Yes, sir.</li> <li>Q. Describe, if you would, briefly what picture we're looking at there.</li> <li>A. This also has Ball 12, which is a first input member. It has a collet in a different shape, 16, which is a second input member. And it has individual buttons 136, which are another even an additional different kind of input members.</li> <li>Q. Okay. Just so we understand, the thing that looks like a ball is a ball like we saw before; is that right?</li> <li>A. Yes, sir.</li> <li>Q. And it can be used to control things on the screen?</li> <li>A. Yes, sir.</li> <li>Q. And then the thing around the ball that has I</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>look at the knob on what Nintendo's lawyers have told the jury is a single input member, do you see that there is some little I don't know (indicating) yeah, right there. Do you see that?</li> <li>A. Yes, sir.</li> <li>Q. What that arrow is pointing to?</li> <li>A. Yes, sir.</li> <li>Q. A little mark there.</li> <li>A. Yes, sir.</li> <li>Q. Is there a drawing in your patent that gives us a better view of what that little mark is?</li> <li>A. Yes, sir, there is.</li> <li>Q. Well, let's take a look at it.</li> <li>A. There it is.</li> </ul>
15 16 17 18 20 21 22 23 24 25	<ul> <li>see the numbers both 14</li> <li>A. Yeah.</li> <li>Q and 16 and 14 and 16 pointing to it.</li> <li>A. Right.</li> <li>Q. That thing around the ball, is that separately movable from the ball?</li> <li>A. Yes, sir, it is.</li> <li>Q. And is that a separate and second input member?</li> <li>A. Yes, sir. That's a second input member.</li> <li>Q. And then we see the buttons.</li> <li>A. Yes, sir.</li> </ul>	15 16 17 18 19 20 21 22 23 24 25	<ul> <li>Q. In the upper part, is that Figure 28 from your patent</li> <li>A. Right.</li> <li>Q. Is that right?</li> <li>A. Yes, sir, that's Figure 28.</li> <li>Q. And does that show a larger view and a view with the top off of that handle that Nintendo's lawyers told the jury was a single input member?</li> <li>A. Yes, sir. That's Number 300. You can see the 300 in the previous drawing, also.</li> <li>Q. Okay. Now, what are those things that we now can</li> </ul>
	Page 233		Page 235
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Page 233</li> <li>Q. Are those different input members?</li> <li>A. Yes, sir. They are different input members.</li> <li>They're additional input members.</li> <li>Q. Well, let's look at another example that we saw from Nintendo's lawyer yesterday in the opening statement.</li> <li>On the left there, is that a reproduction</li> <li>that exploded thing with the yellow handle on top of it is that a reproduction of a figure from your 1996 warehouse patent application?</li> <li>A. Yes, with the exception that I believe that</li> <li>Mr. Gunther had the yellow and the single input member language put onto that.</li> <li>Q. Okay. So, it's all black and white in the original application, correct?</li> <li>A. Yes, sir.</li> <li>Q. And, so, Nintendo's lawyers have colored part of it yellow, correct?</li> <li>A. Yes, sir.</li> <li>Q. And they put on that big red box that says "Single Input Member," right?</li> <li>A. Yes, sir.</li> <li>Q. That's not in the patent application?</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Page 235 see much larger that are marked 376 that we just saw as little marks on the slide that Nintendo's lawyer showed the jury yesterday? A. Yes. Those are additional input members. Q. What A. They're buttons on the handle. They are additional input members. Q. And did you actually describe that to the Patent Office in the text of your patent? A. Yes, sir. I did in 1996. Q. And is that reproduced at the bottom of this slide? A. Yes, sir. That's Q. And did you point out to the Patent Office that this handle that Nintendo's lawyer told us yesterday was a single input member that this handle had, quote, a button externally operated for additional input? A. Yes, sir. That's a quote. Q. Just a bit more on something we heard yesterday, Mr. Armstrong. We saw this slide yesterday. MR. CAWLEY: If we could put that up. BY MR. CAWLEY: Q. Do you remember seeing this slide when Nintendo's lawyer was talking to the jury yesterday?

10 (Pages 232 to 235)

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	Page 236		Page 238
1	not not one of your patents, a patent from a man	1	and, therefore, it's deficient? Do you remember hearing
2	named "Chang," with an A.	2	that?
3	A. Right.	3	A. Yes, in essence.
4	Q. And there is a picture. Is that apparently from	4	Q. Is that the only reason you told the Patent Office
5	Mr. Chang's patent?	5	your invention was different from Mr. Chang's
6	A. Yes, sir.	6	controller?
7	Q. And you discussed Mr. Chang's patent with the	7	A. No, sir.
8	Patent Office, right?	8	Q. Let's go to the next slide. What is this?
9	A. Yes, sir, I did.	9	A. This is more discussion of the Chang device. It
10	Q. Yesterday we saw this big stack of papers that was	10	was just the previous slide just represented by
11	the file history of your patent. Do you remember that?	11	Nintendo's counsel yesterday
12	A. Yes, sir.	12	Q. Okay. Let me
13	Q. And one of the things in the file history is I	13	A. This is additional material that I talked to the
14	want to say "talk," but it's not really talk. It's	14	Patent Office about.
15	writing back and forth between you and the Patent	15	Q. Let me ask you some more specific questions. In
16	Office, discussing some of the things about your patent;	16	addition to what Nintendo's lawyers told the jury
17	isn't that right?	17	yesterday, did you also
18	A. Yes, sir.	18	A. Right.
19	Q. And one of the things you discussed was whether	19	Q tell the Patent Office in writing that you
20	Mr. Chang did what you did before you did it; is that	20	your invention was different from Mr. Chang's invention
21	correct?	21	because
22	A. Yes, sir I think that this was actually in the	22	A. Yes.
23	original application, yes.	23	Q there's the requirement that the trackball
24	Q. Okay. But in any event, this language that we see	24	housing be moved along a surface in order to input
25	that Nintendo told the jury about yesterday is some talk	25	linear movement information?
	Page 237		Page 239
	Page 237		Page 239
1	you had or dialogue in writing you had with the Patent	1	A. Right.
2	you had or dialogue in writing you had with the Patent Office about Mr. Chang's patent and how it relates to	2	<ul><li>A. Right.</li><li>Q. Was that a reason?</li></ul>
2 3	you had or dialogue in writing you had with the Patent Office about Mr. Chang's patent and how it relates to what you did?	2 3	<ul><li>A. Right.</li><li>Q. Was that a reason?</li><li>A. I described that as a major disadvantage of the</li></ul>
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11 (Pages 236 to 239)

Page 304	Page 306
<ol> <li>up, Kam, please?</li> <li>BY MR. GUNTHER:</li> <li>Q. I want to shift to talking a little bit about your</li> <li>application that you filed in 2000 that led to the '700</li> <li>patent. We've got a new date up on the timeline. This</li> <li>is a timeline that I used in my opening statement. It's</li> <li>got your 1996 application. Do you see that?</li> <li>A. Yes, sir.</li> <li>Q. It has the 2002 claims that you wrote in 2002,</li> <li>right?</li> <li>A. Yes, sir.</li> <li>Q. It has the GameCube controller that you're accusing</li> <li>of infringement in this case but which you copied in</li> <li>writing your claims in 2002, right?</li> <li>A. (Pausing.)</li> <li>Q. That's on there.</li> <li>A. Yes, sir.</li> <li>Q. Yes. Yes. Can you see that?</li> <li>A. Yes, sir.</li> <li>Q. And we've added a new date sort of in the a</li> <li>little bit below the GameCube controller graphic, which</li> <li>is November 16, 2000. That's a new date we haven't</li> <li>talked about in this case yet. That's the date that you</li> <li>filed the application that matured into the '700 patent,</li> </ol>	<ol> <li>documents. We can think about the 1996 application, the</li> <li>warehouse that had your inventions, which must be the</li> <li>same invention as your claims in 2002, right?</li> <li>A. I'm sorry. I'm just not I'm not following too</li> <li>well.</li> <li>Q. Okay. So, we've got your 1996 application up</li> <li>there, right?</li> <li>A. Okay.</li> <li>Q. All right. And now we have the '700 patent. We</li> <li>can compare those two documents, right?</li> <li>A. Sure.</li> <li>Q. And you testified on your direct examination that</li> <li>you made some changes to the application in 2000, right?</li> <li>A. Yes, sir.</li> <li>Q. Before you filed it.</li> <li>A. Yes, sir.</li> <li>Q. Now, you told us that you made changes to it, right?</li> <li>A. Yes, sir.</li> <li>Q. Now, you told us that you made changes just to</li> <li>clarify the invention, right?</li> <li>A. Yes, sir.</li> <li>Q. And you didn't make changes to broaden the</li> <li>invention, did you?</li> </ol>
25 right? Page 305	25 A. No, sir. Page 307
<ul> <li>A. I believe so, yes, sir.</li> <li>Q. And, sir, that application, that '700 application,</li> <li>issued as the '700 patent.</li> <li>A. Yes, sir.</li> <li>Q. And the description of what you put in the</li> <li>application ultimately became part of the printed patent</li> <li>which is, I think, Defendant's Exhibit 1 may be</li> <li>Plaintiff's Exhibit 1 but it's the '700 patent,</li> <li>right?</li> <li>A. Okay.</li> <li>Q. Am I right about that?</li> <li>A. Would you say the question again, please?</li> <li>Q. My question is that when that application</li> <li>ultimately issued as the '700 patent, what's in the</li> <li>patent itself, the '700 patent itself, is actually the</li> <li>full description of the invention exactly the same as</li> <li>you wrote it in the 1996 application, right?</li> <li>A. (Pausing.)</li> <li>Q. Strike that. Let me ask you another question.</li> <li>The 2000 application that matured into the</li> <li>'700 patent, when the patent issued in the '700</li> <li>patent issued, it had the full description of what was</li> <li>in the application in 2000, right?</li> <li>A. Yes, sir. I believe so.</li> <li>Q. Okay. So now we can sort of think about two</li> </ul>	<ul> <li>Q. Because if you made changes to broaden the</li> <li>invention, that would be a problem, wouldn't it? If you</li> <li>broadened the invention from 1996 to what you filed in</li> <li>2000, then you wouldn't be able to get back to 1996,</li> <li>right?</li> <li>A. Yes, sir. I just wanted to clarify when I made</li> <li>those changes.</li> <li>Q. Okay. But stick with me. I understand the</li> <li>clarification point. But now I'm asking you that you</li> <li>say you didn't broaden the patent</li> <li>A. Right.</li> <li>Q in 2000</li> <li>A. Right.</li> <li>Q because if you had broadened it, then you</li> <li>wouldn't be able to get back to 1996 because you would</li> <li>have changed the invention. Remember, the invention has</li> <li>to be the same at both points in time, right?</li> <li>A. Yes, sir.</li> <li>Q. Okay. So, now let's take a look at some of the</li> <li>changes that you made from the 1996 warehouse</li> <li>application to the '700 patent.</li> <li>MR. GUNTHER: All right. Let's put the first</li> <li>slide up.</li> <li>BY MR. GUNTHER:</li> <li>O. This is the Abstract of the Disclosure from your</li> </ul>

28 (Pages 304 to 307)

	Page 360		Page 362
1	Q. Now, sir, let's look at the first sentence of 2.1.	1	That's what it says, right?
2	This is now not talking about the '606 patent; it's	2	A. Yes, sir, it says that.
3	talking about the Anascape parties hereby grant a	3	Q. So, sir and you didn't talk about that on your
4	nonexclusive, irrevocable, worldwide license under all	4	direct examination, did you?
5	of the Anascape patents licensed patents except the	5	A. I don't think so.
6	one in 2.2, which was the '606, right?	6	Q. Okay. So, the patent application that became the
7	MR. GUNTHER: Let's highlight that whole	7	'700 that was included in the Sony license, that was one
8	first sentence, if we can, Kam.	8	of the ones that due to the uncertainty as to the value
9	A. Yes, sir.	9	of that application, the parties agree and acknowledge
10	BY MR. GUNTHER:	10	they are unable to arrive at appropriate royalty rates,
11	Q. So, the structure of the license is '606, exclusive	11	right? That was one of them that was in that group.
12	license for \$10 million, right?	12	A. Yes, sir.
13	A. Yes, sir.	13	Q. And let's look at the last sentence. This talks
14	Q. And then all of your other patents are then	14	about the '700 application, too: Accordingly, the
15	licensed; and some cross-licenses from Sony come in,	15	parties have agreed to forego any royalties or other
16	right?	16	payment of any kind for those patents subject to the
17	A. Yes, sir.	17	cross-licenses.
18	Q. And one of the patents that was nonexclusively	18	Right?
19	licensed to Sony in 2.1 is the application that led to	19	A. Yes, sir.
20	the '700 patent, right?	20	Q. And that includes the '700 application, correct?
21	A. Say that again, please.	21 22	A. Yes, sir.
22 23	Q. One of the applications that's listed that's	22	Q. So, what we've got in the Sony license is an exclusive license to the '606 patent that's not part of
24	included in your in all of the rest of the licenses, everything that's thrown in under 2.1, one of those was	24	this case for which Sony paid \$10 million, right?
25	the application for the '700 patent, right?	25	A. That's what this agreement says, yes, sir.
	Page 361		Page 363
1		1	
1	A. Yes, sir.	1 2	Q. And what we also have here is that everything else
2	<ul><li>A. Yes, sir.</li><li>Q. And that's because it was an application because in</li></ul>	2	Q. And what we also have here is that everything else was thrown in, including the '700 application, for zero
2 3	<ul><li>A. Yes, sir.</li><li>Q. And that's because it was an application because in 2004 when the license was signed, at that point in time</li></ul>		Q. And what we also have here is that everything else was thrown in, including the '700 application, for zero payment of money, correct?
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## 42 (Pages 360 to 363)

	Page 364		Page 366
1	A. Yes, sir. I believed that it was covered by my	1	up outside the presence of the jury from defendant's
2	invention; and, so, I needed to write a claim that	2	point of view?
3	covered it clearly.	3	MR. GUNTHER: No, your Honor.
4	Q. So, the answer to my question is "yes," right?	4	THE COURT: All right. In that case we are
5	A. I don't know what the word "copying" means.	5	in recess until 1:30. And if counsel from each side
6	Q. Sir, I'll leave that out.	6	want to come back into chambers, that's fine.
7	At the time that you wrote the claims in	7	(Recess, 12:16 p.m. to 1:26 p.m.)
8	2002, you had the GameCube in front of you. You had	8	(Open court, all parties present, jury
9	taken it apart, and you were writing those claims to	9	present.)
10	cover, among other things, the two joysticks and the	10	THE COURT: All right. Counsel, go ahead
11	cross-switch in the GameCube controller, correct?	11	MR. GUNTHER: Thank you, your Honor.
12	A. Yes, sir.	12	BY MR. GUNTHER:
13	Q. And when you wrote claim 19, which is the only	13	Q. Mr. Armstrong, I think I'm getting close. Let me,
14	claim that's asserted against the Wii Remote plus the	14	if I can, hold up this controller. Can you see that,
15	Nunchuk, when you wrote that claim, you had the Nintendo		sir?
16	GameCube controller in front of you; and you were	16	A. Yes, sir.
17	writing the claim specifically to cover that product,	17	MR. GUNTHER: Your Honor, may I approach?
18	correct?	18	THE COURT: You may.
19	A. Well, I write claims to express my invention, yes,	19	MR. GUNTHER: Thank you, sir.
20	sir. But I'm not sure that that claim was written for	20	BY MR. GUNTHER:
21	that product, no, sir.	21	Q. I'm going to hand this to you, Mr. Armstrong. And,
22	THE COURT: All right. Counsel, at this time	22	again, I'm going to ask you to be a model for us; and if
23	we're going to take a break for lunch.	23	you could hold that up for the jury.
24	Ladies and gentlemen, I'm going to ask you to	24	A. Okay. (Complying.)
25		25	Q. Sir, that's the Sony DualShock controller, correct?
	Page 365		Page 367
1	Don't discuss the case even among yourselves; and don't	1	A. Yes, I think so.
2	let anybody else talk to you about it, obviously. If	2	Q. And that was released for the PlayStation console
3	anybody should try to approach you or influence you, get	3	in 1998, correct?
4	their name and report it.	4	A. I'll take your word for it.
5	For your planning purposes, I have had a	5	Q. Do you have any reason to doubt, sir, that that was
6	notice of an emergency hearing that I'm going to have to	6	available in 1998?
7	hold at the end of this afternoon; so, we will probably	7	A. No, sir.
8	be breaking a little early, about 4:00 or ten past 4:00	8	Q. And, sir, that has the Sony that's called the
9	because these parties are coming in and I've got to	9	"Sony DualShock controller," right?
10	handle that matter. I don't like to interrupt this way,	-	A. I think it is, yes, sir.
11	but I'll have to do that. So, we'll be breaking a	11	Q. And, sir, if you hold that up so we can all get a
12	little bit early and then starting again tomorrow at	12	little bit of a look at it, it's got a cross-switch on
13	8:45 in the morning. You're excused at this time for	13	there, right?
14	lunch.	14	A. Are you talking about this (indicating) area here?
15	(The jury exits the courtroom, 12:15 p.m.)	15	Q. Yes, sir.
16	THE COURT: Anything to be taken up outside	16	A. Yes, I believe so.
17	the presence of the jury from plaintiff's point of view?	17	Q. Or sometimes people call it a "D-pad," right?
18	MR. PARKER: I do have one matter that I had	18	A. Yes, I've heard it called that.
19	hoped to discuss in chambers with the court with	19	Q. What does that stand for?
20	Mr. Germer.	20	A. I don't know.
21	THE COURT: Okay. Anything else to be	21	Q. "Directional pad," does that sound right?
22	taken	22	A. That sounds reasonable.
23	MR. PARKER: It won't take but a couple of	23	Q. Okay. So, it's got a cross-switch. It has two
		24	joysticks. And does it have vibration?
24			Joysticks. This does it have vibration.

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	Page 380		Page 382
1	Patent Office what you thought was a new way of putting	1	Q. Now, Mr. Armstrong, did you ever suggest in your
2	those building blocks together?	2	'96 application that it might, under some
3	A. Yes, sir, I surely did.	3	circumstances sorry be a good idea to take some of
4	Q. And after the five years of examination, did the	4	the control from the ball and put it somewhere else?
5	Patent Office agree with you?	5	A. Yes, sir.
6	A. Yes, sir, they did.	6	Q. Can you explain what this tells us, particularly
7	Q. You were asked a lot of questions about the single	7	the last sentence here that I've got highlighted?
8	member of control. Is a single member of control one of	8	Let me read it.
9	the things that you disclosed in your application in	9	A. Right.
10	1996?	10	Q. (Reading) The rotatable collet of Figures 5 through
11	A. Yes, sir.	11	6 may at least for some users be an easier process to
12	Q. Is it the only thing that you disclosed?	12	achieve rotation about the yaw axis as compared to
13	A. Oh, no, sir. It's like one building block.	13	rotating trackball 12 at least in terms of rotation
14	Q. Let's take a look at Figure 4 from that application	14	about yaw.
15	briefly, something you were shown in your	15	A. Yes, sir.
16	cross-examination.	16	Q. Is yaw one of the 6 degrees of freedom of movement?
17	THE COURT: And for the record, is this the	17	A. Yes, sir.
18	2000 application or the '96 application?	18	Q. And does this suggest taking it out of the ball and
19	MR. CAWLEY: Thank you, your Honor. It's the	19	putting it into the collet?
20	'96 application.	20	A. Yes, sir, it does.
21	BY MR. CAWLEY:	21	Q. Now, Mr. Armstrong, I believe you you testified
22	Q. Is the ball that's Number 12 a member of control		in cross-examination that at various times after you'd
23	thereto I'm sorry. Bad question.	23	filed your continuation application in 2000, you wrote
24	Is the ball that's labeled Number 12 a member	24	claims in that patent to cover the Nintendo GameCube
25	of control, something that you can use to control?	25	controller; is that right?
	Page 381		Page 383
1	A. Yes, sir.	1	Page 383 A. Yes, sir.
2	<ul><li>A. Yes, sir.</li><li>Q. But is it the only member of control that's shown</li></ul>	1 2	<ul><li>A. Yes, sir.</li><li>Q. Is there anything wrong with that as far as you</li></ul>
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	Page 392		Page 394
1	teaching a freshman course for brand-new engineering	1	MR. CAWLEY: in front of the jury box?
2	students on machine design and computer-aided design.	2	BY MR. CAWLEY:
3	And then I've taught various classes at different	3	Q. First of all, let me turn this microphone on.
4	levels, up to graduate level courses for doctoral	4	Now, I think that the question that I asked
5	students, in things like robotics and human-machine	5	you, Professor Howe, is: Can you explain to the jury
6	interfaces.	6	the features of the controller that you have in your
7	Q. Now, you used a phrase there that you teach	7	hand?
8	graduate students about "human-machine interfaces."	8	A. Certainly. Happy to do that. So, you've all
9	What do you mean by those three words?	9	figured out by now, I'm sure, you hold it in two hands
10	A. Well, it's kind of a broad term. It refers to	10	like this and you'll see there are a couple of joysticks
11	finding good ways for people to control complicated	11	or thumbsticks and they are thumbsticks, of course,
12	systems. So, for instance, finding good ways for people	12	because you put your thumbs on them very carefully and
13	to control robots that are in remote locations, like	13	they move in two directions. You can move them up and
14	exploring outer space or under the ocean, or controlling	14	down. You can move them right and left. So, there are
15	complicated computer systems, which could even include	15	two different directions you can use there and, of
16	video games.	16	course, any combination they'll move around.
17	Q. Do you have a research lab at Harvard?	17	Down here we have this cross-switch or D-pad,
18	A. I do. I've got about a dozen graduate students and	18	directional pad. It goes by different names. I'm going
19 20	postdoctoral fellows; and we do research in robotics,	19 20	to call it the "D-pad" because that's what I'm used to.
20 21	again, and these human-machine interfaces.	20	And that has four different directions you can push.
22	Q. Now I'd like to ask you at this time, Professor Howe, to give us a general description of the features	22	So, again, you can go right, go left, go up, go down. This one you don't do combinations on. You pick one
23	of some of the controllers you looked at. And let's	23	direction and push that. And you can feel a little
24	start with Plaintiff's Exhibit 413.	24	click when you push it down. That's just to tell you
25	MR. CAWLEY: May I approach, your Honor?	25	that the switch is closed so you know that you actually
	Page 393		Page 395
1	-	1	pushed it down.
1 2	THE COURT: You may. MR. CAWLEY: And, your Honor, at this time we	1 2	There are some other buttons on the face,
⊿ 3	have exemplars of this exhibit that we would request to	∠ 3	some simple buttons; and then on the front here are a
4	present to the jury during Dr. Howe's testimony.	4	couple of triggers. Okay? And there's one under each
5	THE COURT: One for each of them?	5	of your index fingers; and then there is a little button
6	MR. CAWLEY: Yes, your Honor.		
		6	
7	THE COURT: Any objection?	6 7	above it, the purple one here. So, those are the basic
7 8	THE COURT: Any objection?	6 7 8	above it, the purple one here. So, those are the basic input features of the device.
8	THE COURT: Any objection? MR. PRESTA: No objection.	7	above it, the purple one here. So, those are the basic input features of the device. Now, there's
	THE COURT: Any objection? MR. PRESTA: No objection. THE COURT: All right. Go ahead.	7 8	above it, the purple one here. So, those are the basic input features of the device. Now, there's Q. Okay.
8 9	THE COURT: Any objection? MR. PRESTA: No objection.	7 8 9 10	<ul> <li>above it, the purple one here. So, those are the basic input features of the device. Now, there's</li> <li>Q. Okay.</li> <li>A one other feature that you can't see; and that's</li> </ul>
8 9 10	THE COURT: Any objection? MR. PRESTA: No objection. THE COURT: All right. Go ahead. Now, is that a marked exhibit; or is that one	7 8 9 10	above it, the purple one here. So, those are the basic input features of the device. Now, there's Q. Okay.
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	Page 400		Page 402
1	first words in the claim are "a hand operated controller	1	THE COURT: You may.
2	comprising."	2	THE WITNESS: Thank you. I wonder if I could
3	Q. Now, let's stop you right there. We've only gotten	3	get a pointer, laser pointer.
4	through five words, but I want to stop you there and ask	4	Thank you.
5	you: Has Judge Clark defined any of those words, any of	5	A. Okay. Let me stand out of your way but where I can
6	those five words that are in this very first part of	6	still be heard.
7	claim 19?	7	Okay. So, this is the controller again.
8	A. Yes, he has. And in particular, the word	8	It's redrawn here so that we can use some animations to
9	"controller" was defined; and I can read that	9	give you a better idea of what's going on. And this is
10	definition. (Reading) Controller means a device held in	10	what you see if you take off the cover of the housing,
11	the user's hand that allows hand or finger inputs to be	11	and we colored blue here this cross pad that sticks out
12	converted into electrical signals for manipulation of	12	the top.
13	images or graphics on a display device which are capable	13	Now, if we take off that cross pad,
14	of being perceived by a human.	14	underneath it is a little rubber thing. That's called
15	Q. And applying that definition, have you looked to	15	"dome caps." And underneath them are some sensors
16	see if this is present in the GameCube controller?	16 17	mounted to the circuit board. And you can see they are
17 18	A. Yes. It certainly does describe the capabilities	18	labeled "left," "right," "up," and "down." So, what
19	of this controller. It can control images as described in the definition there given us by Judge Clark.	19	happens is is you push down the button in the up direction, for example. That forces down that dome cap,
20	Q. What have you concluded about this first bit of	20	and that closes the circuit here. It's essentially a
21	claim 19?	21	switch. So, this is a convenient way to make a bunch of
22	A. Well, it is present in the controller; so, we can	22	switches in a small space. And you can see that you
23	check that one off.	23	have four different sensors.
24	Q. All right. What's the next part of claim 19 that	24	Now, these are unidirectional sensors. That
25	you want to consider?	25	means I can only go in one direction. I can go up.
	Page 401		Page 403
1	A. Okay. Here we have: Structure allowing hand	1	There is a separate sensor for down. I can go right,
2	inputs rotating a platform on two mutually perpendicular	2	but there is a separate sensor for left. So, they are
3	axes to be translated into electrical outputs by four	3	unidirectional and we have four of them and we have two
4	unidirectional sensors to allow controlling objects and	4	different directions. We have the up/down direction.
5	navigating a viewpoint.	5	We have the left/right direction. So, all of those
6	Q. Okay. Has Judge Clark given us definitions of any	6	pieces are present here in the cross pad.
7	of the terms in that part of claim 19?	7	Q. And is this structure to create outputs?
8	A. Yes. And the key here is "navigating a viewpoint,"	8	A. Yes, it is. So, the circuit board here is
9	towards the end of that element. Let me read that:	9	accontially a hunch of fancy winning. So, there is a lot
10			essentially a bunch of fancy wiring. So, there is a lot
	Navigating a viewpoint means positioning or orienting a	10	of copper traces that are sandwiched in between
11	user's view.	11	of copper traces that are sandwiched in between insulators; and various computer chips are attached.
12	user's view. Q. Okay. Is this part of claim 19 in the GameCube	11 12	of copper traces that are sandwiched in between insulators; and various computer chips are attached. Some other sensors we'll talk about in a little bit.
12 13	user's view. Q. Okay. Is this part of claim 19 in the GameCube controller?	11 12 13	of copper traces that are sandwiched in between insulators; and various computer chips are attached. Some other sensors we'll talk about in a little bit. And then these wires take the signal over, and
12 13 14	<ul><li>user's view.</li><li>Q. Okay. Is this part of claim 19 in the GameCube controller?</li><li>A. Yes, it is. It describes the cross-switch or the</li></ul>	11 12 13 14	of copper traces that are sandwiched in between insulators; and various computer chips are attached. Some other sensors we'll talk about in a little bit. And then these wires take the signal over, and eventually that signal is sent over the cable you see at
12 13 14 15	<ul><li>user's view.</li><li>Q. Okay. Is this part of claim 19 in the GameCube controller?</li><li>A. Yes, it is. It describes the cross-switch or the D-pad. And I can explain that in a little more detail.</li></ul>	11 12 13 14 15	of copper traces that are sandwiched in between insulators; and various computer chips are attached. Some other sensors we'll talk about in a little bit. And then these wires take the signal over, and eventually that signal is sent over the cable you see at the end of your controller there to the game console.
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	Page 404		Page 406
1	navigate your viewpoint. So, it's clear that capability	1	Q. That's the weight?
2	is present here in this device.	2	A. Oh, no. I'm sorry. Right here (indicating).
3	Q. I'm not sure if you said this or not; but just to	3	Q. That thing that looks about like a triangle?
4	be clear, in addition to being capable of navigating a	4	A. Yeah. And it's off-center so that as it spins
5	viewpoint, is it capable of controlling objects?	5	around, it generates that vibration.
6	A. Oh, yes, it is. Again, the signal that is	6	Q. All right. So, excuse my interruption; but what
7	present that's generated here when it's sent over to	7	did you tell us then about your conclusion on this third
8	the game console can be used as a lot of things,	8	piece of the language in claim 19?
9	controlling objects and navigating a viewpoint included.	9	A. Once again, it's a good description of this
10	Q. So, what have you concluded about this second piece	10	component of the GameCube controller; so, we should
11	of claim 19?	11	check it off. It's present.
12	A. We've gone through all of it and it matches the	12	Q. Tell us about the next piece of language that
13	D-pad or cross-switch and, so, we should check it off.	13	you've considered in claim 19.
14	Q. What's the next language in claim 19 that you'd	14	A. Certainly. Okay. Here we have (reading) a second
15	like to consider?	15	element movable on two mutually perpendicular axes, said
16	A. Okay. Let's see. My eyesight is not real good.	16	second element structured to activate two bi-directional
17	You'll forgive me if I read off this instead.	17	proportional sensors providing outputs at least in part
18	Okay. So, the next piece we have is: The	18	controlling objects and navigating a viewpoint.
19	controller including a tactile feedback means for	19	Q. And, once again, has Judge Clark given us
20	providing vibration detectable by the user through the	20	definitions of any of these terms?
21	hand operating the controller.	21	A. Yes, he has. In this case it's the term "movable
22	Q. Now, did Judge Clark define any of these terms for	22	on two mutually perpendicular axes," which means capable
23		23	of 2 degrees of freedom of movement on axes that
24 25	A. Yes, he did. "Detectable by the user" means	24 25	intersect at a 90-degree angle.
25	"capable of being perceived by the hand or ear of the	25	Q. Okay. So, have you looked for this part of claim
	Page 405		Page 407
1	user of the controller."	1	19 to see if it's in the GameCube controller?
2	Q. Okay. Have you taken these words from the claim	2	A. Yes, I have. And this describes the thumbstick
3	and Judge Clark's definition and looked into the	3	feature. So, we have two thumbsticks here. And if you
4	GameCube controller to see if this is there?	4	take them apart, it turns out the sensor pieces
5	A. Yes, I have. And, once again, it's this vibration	5	underneath these are the same. The caps are different
6	feedback motor. And I have a slide; but I can also show	6	shapes; they're different colors. But the way they
7	you here that if you peek underneath the front of this,	7	function is the same.
8	there is the motor present inside the controller. And	8	So, we'll pick one and talk about that here.
9	here you can see what it looks like when it's removed.	9	Could I have my next slide, please?
10 11	So, we should check that one off. It's also present. Q. Okay. But before we get along to that	11	And here you see them again with the cover taken off so you can see what's underneath. And this is
$12^{11}$	A. Okay.	12	on one of those thumbsticks.
13	Q this picture is the inside is that the inside	13	You can move on.
14	of that demonstration unit that you showed us before?	14	And this animation will show you how it
15	A. I believe so. So, again, if you take this	15	works. So, there we go moving in the right/left and
16	Q. We heard I'm sorry. Go ahead.	16	moving in the up/down direction.
17	A. Yeah. If you take this apart, this is what you	17	Now, in each case, as this thing moves, there
18	see. The weight is separated here so you can actually	18	is a little set of shafts in there; and they couple to
19	see it. It's inside a container here; but once you take	19	these darker boxes down below. And those darker boxes
20	it apart the next step, you can see it. We didn't do	20	are the sensors. So, here you can see as this one
21	that here so it would actually operate and we can show	21	rotates, you see the center shaft of the sensor move.
22	you how it works.	22	Those boxes are called "rotary potentiometers," and they
23	Q. Show us the weight on the slide.	23	work something like the dimmer switch in your dining
24	A. Oh, yeah, sure. It's actually this piece	24	room so you can turn the light up or down to make it
25	(indicating) right here.	25	brighter or darker. Another analogy might be the gas

53 (Pages 404 to 407)

	Page 408		Page 410
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>pedal on a car. So, it isn't just on/off. You can control how fast the car goes or how bright the light is to any value you want in between.</li> <li>Okay. So, here we have our second element, then, is the top of the joystick here; and it activates these two bi-directional proportional sensors. They are bi-directional because they can go right or left, one single sensor. The other sensor can go up or down; so, that's bi-directional. And proportional, again, is this idea that it can hit any value from a small value to a high value or anything in between.</li> <li>Q. And does this create outputs?</li> <li>A. Yes. So, once again, these are the wires coming out the bottom. They are soldered onto the circuit board. Those signals are transmitted over the cable to the game console, and there the game designer can write software that uses those signals in lots of different ways. And the language in the element here about controlling objects and navigating a viewpoint is certainly met.</li> <li>Once again, I've played games where I've used these thumbsticks to do those things in the video games;</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>one. They are not coupled at all with each other. So, we can go ahead and check off that element.</li> <li>Q. And what's the last piece of claim 19 that you considered?</li> <li>A. Okay. And the last one is just a continuation of that last piece. It says: A button sensor, said button sensor outputs at least on/off data to allow controlling of the objects. So, that</li> <li>Q. Is that in the controller?</li> <li>A. Yes, indeed. And that's just the sensor that's hooked up to these trigger buttons. Again, in looking at how they are constructed, the sensors are constructed, and in playing video games, I've confirmed that they can be used, once again, to allow controlling objects in the video game. So, that capability is present here again; and we can check off that last element.</li> <li>Q. All right. Why don't you take the witness stand again while I do that. It looks as though, Professor Howe, that THE COURT: Excuse me one minute, counsel.</li> </ul>
23 24 25	so, I'm certain that capability is present in the controller.	22 23 24 25	Ladies and gentlemen, let me remind you you have in your juror book a copy of the patent with the
25	Q. So, what have you concluded about this fourth part Page 409	25	actual claims because we're going to start getting Page 411
1 2 3 4 5 6 7 8 9 10	of claim 19? A. Again, it's a good description of the GameCube controller; so, we can check it off. Q. What's next? A. Well, okay. The next piece starts out: A third element and then all the words are exactly the same as the piece we just read that starts out "a second element." So, this basically says one more just like the last one. Now, as I mentioned, here we have two	1 2 3 4 5 6 7 8 9	<ul> <li>testimony from both sides about them. You have the patent, where you have the claims set out there; and you also have the large size version under the "Claims" section, if you want to follow along in your books. Go ahead, counsel.</li> <li>BY MR. CAWLEY:</li> <li>Q. And somebody handed me a note. Just to make sure I'm clear, Dr. Howe, how did you define the plurality of finger-depressible buttons? What does that mean?</li> <li>A. I'm sorry. I never defined "plurality" for you,</li> </ul>
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	<ul> <li>thumbsticks; and when you take off those different caps, underneath it, you see the same sensing structure. So, at the end of the day, we have two that are the same and, thus, we've met that next term the same way we did in the previous one and we can move along.</li> <li>Q. So, check it off?</li> <li>A. Check it off, yep.</li> <li>Q. And what's next?</li> <li>A. Next, we have: A plurality of independent finger-depressible buttons, each button associated with. So, the idea here is that we have these triggers this is a description of these triggers and they are obviously finger-depressible. You can put one finger on each one to move it up and down, and they are</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>did I?</li> <li>Plurality just means more than one. And as we saw, there are two triggers; so, we've definitely met that criteria as well.</li> <li>Q. So, it looks as though we've checked off all the parts of claim 19.</li> <li>A. That's right.</li> <li>Q. What does that mean?</li> <li>A. Well, that means that the GameCube controller infringes claim 19.</li> <li>Q. And is that your conclusion after your study?</li> <li>A. Yes, it is.</li> <li>Q. Now, do you see anywhere in claim 19 where it says that it requires a single input member?</li> <li>A. No. Those words are not present.</li> </ul>

54 (Pages 408 to 411)

	Page 412		Page 414
1	Q. What kind of input members does claim 19 talk	1	you'd like to talk about that you've studied for
2	about?	2	purposes of seeing if the GameCube controller infringes
3	A. Well, there's more than one. You know, it starts	3	some other claim?
4	out, for instance it talks about (reading) a	4	A. Well, let's go to claim 22 next. And we have a
5	structure allowing hand inputs rotating a platform on	5	slide rather than a chart for this one. If I can begin
6	two mutually perpendicular axes. And then on down, all	6	by reading it: A hand-operated controller according to
7	the way to the bottom, there is a plurality of	7	claim 19 wherein and those words mean it's a
8	independent finger-depressible buttons. So, there is	8	dependent claim; and that is to say, this is saying that
9	not just one input element described in this claim.	9	for this invention, it includes everything that's
10	Q. And there's been a lot of talk in the courtroom	10	already in claim 19 plus some new things.
11	about what Mr. Armstrong's invention is or is not. Is	11	Q. Okay. So, does that mean that if we were really
12	it your understanding that these words define what the	12	going to be tiresome about this, we would take those
13	invention of claim 19 is?	13	first few words and go back and recheck off all of these
14	A. Yes. That's right.	14	things from claim 19?
15	Q. Now, does claim 19 require a 6-degree-of-freedom	15	A. Yes, but I'm hoping we're not quite that thorough.
16	controller?	16	Q. Okay. Well, I'm in agreement with you. So, since
17	A. Well, let's see. It doesn't say so explicitly but	17	you've already shown us you've already shown us that
18	it describes a number of inputs and they add up to at	18	everything in claim 19 is there, let's use that as the
19	least six; so, in effect, it does describe a	19	launching point; and tell us what's new or additional in
20	6-degree-of-freedom controller.	20 21	this claim 22 that you have to tell us about.
21 22	Q. Are there other ways to make a 6-degree-of-freedom controller other than what's described in claim 19?	22	A. Sure. Well, the next words here are: Wherein said
23	A. Certainly. This is a particularly nice one, but	22	button sensor outputs data proportionate to depression of one of said buttons.
24	there are many ways you can make a 6 degree of	24	Q. Okay. And, then, tell us what that means and if
25	Q. What's the simplest way you can think of to make a	25	you found that in the GameCube controller.
23	Page 413	23	Page 415
1		1	
1	6-degree-of-freedom controller?		A. Sure. Well, it refers to the button sensors. And
2	A. Well, I suppose you could put six push buttons on a	2	the button sensors, you'll recall, were just the
3	box and call that a 6-degree-of-freedom controller. It	3	triggers here, the two of them on the front.
4	would give you six signals.	4	And it goes on to say that they output data
5 6	Q. How would that compare to the controller that you've seen described in claim 19?	5	proportionate to the depression of one of the buttons.
7		7	So, this is the idea of proportional sensors again. It's like your dimmer switch in your dining room or your
8	A. Well, I would say it's a piece of junk, you'll forgive me. It would not do a very good job of	8	gas pedal on your car. It's not just on/off. It's all
9	controlling video games; although, it would have six	9	the values in between. So, I can slide my finger slowly
10	degrees of freedom in it.	10	up and down. That might be the gas pedal on a driving
11	Q. Now, now that you have shown us your analysis of	11	game, for instance. And, so, this, in fact, matches the
12	claim 19 for the Nintendo GameCube controller, what's	12	description given in claim 22.
13	the next step in your study?	13	Q. So, can we check this off as infringed?
14	A. Okay. Well, I looked at other claims.	14	A. Yes, please.
15	Q. Okay. Now, "looked at other claims" and for	15	Q. And what is the next claim of the patent that
16	what product?	16	you've considered for infringement of the GameCube?
17	A. Okay. Well, let's stick with the GameCube. There	17	A. Let's go on to claim 23. Okay. Claim 23 states:
18	are several more claims which are infringed.	18	A hand-operated controller according to claim 22
19	Q. Okay. So, do you want to go through all of the	19	Q. Okay. Let me stop you there.
20	claims that the GameCube has been accused of infringing	20	So, does that mean since claim 22 was
21	first?	21	based on claim 19, you have to have, for this claim 23,
22	A. Yes. I think it's easier if we go through GameCube	22	everything in 19
23	first, and then we'll talk about some of the other	23	Is that right?
24	controllers. Q. Okay. Very good. Then, what's the next claim	24	A. That's right.
25		25	Q. And you've already found that.

55 (Pages 412 to 415)

	Page 416		Page 418
1	A. Yep.	1	converted into electrical signals for manipulation of
2	Q and then everything in 22 that we just saw,	2	images or graphics on a display device which are capable
3	right?	3	of being perceived by a human.
4	A. Yep.	4	Q. All right. And have you taken into account and
5	Q. And you found that.	5	applied that definition and looked for that in the
6	A. Indeed.	6	GameCube?
7	Q. Plus something additional; is that right?	7	A. Yes, indeed.
8	A. That's right.	8	So, it's clear that the GameCube controller
9	Q. Tell us what the additional thing is in claim 23.	9	matches that definition of a 3-D graphics controller for
10	A. So, the additional part here are the words:	10	controlling a television-based game.
11	Wherein the bi-directional proportional sensors are	11	Q. Okay. What's the next new language or words in
12	rotary potentiometers.	12	claim 16 that you haven't told us about yet?
13	So, here that describes the thumbsticks. And	13	A. Okay. Well, this looks a little messy, if I could
14	we've already been through this, in fact, because the	14 15	have the next Q. Well, I'm looking at 3-D graphic here; and let me
15 16	bi-directional proportional sensors here were, as we saw in our illustration, rotary potentiometers. And, so, in	16	just make sure that I understand.
17	fact, we've already ascertained that the description	17	Does 3-D, as the judge defined it, mean like
18	here matches the GameCube controller.	18	those old movies that I went to as a kid where you have
19	Q. So, what have you concluded about claim 23?	19	cardboard glasses and you put them on and something
20	A. That we should check it off because it's infringed.	20	jumps out of the screen at you?
21	Q. Thank you. And what's the next claim that you've	21	A. No. I certainly remember those movies where things
22	studied?	22	come out of the screen, and this is completely
23	A. Okay. Next, I'd like to do claim 16.	23	different. Again, we have a definition from Judge Clark
24	Q. Okay. This one looks like a problem because it's	24	which gives us the technical meaning of that term here;
25	got a lot of words in it.	25	and it's not a 3-D movie.
	Page 417		Page 419
1	_	1	
1 2	Page 417 A. Well, fortunately a lot of them are the same, not all of them. But, for instance, there is a description	1	Page 419 Q. Okay. And, likewise, can the GameCube controller control graphics that are movable in 6 degrees of
	A. Well, fortunately a lot of them are the same, not all of them. But, for instance, there is a description in there about an element to activate first two		Q. Okay. And, likewise, can the GameCube controller control graphics that are movable in 6 degrees of freedom?
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2 3 4 5	A. Well, fortunately a lot of them are the same, not all of them. But, for instance, there is a description in there about an element to activate first two bi-directional proportional sensors. That's the same description of the joystick. We've already done that.	2 3 4 5	<ul> <li>Q. Okay. And, likewise, can the GameCube controller control graphics that are movable in 6 degrees of freedom?</li> <li>A. Yes, it can.</li> <li>Q. Tell us about that. Why do you say that the</li> </ul>
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	Page 420		Page 422
1	Q. Well, let's talk about some specific games. Have	1	a sheet. And it goes on to talk about a first sheet and
2	you played any car racing games?	2	a second sheet.
3	A. Yes, I have.	3	And if I can pull this out here, you can see
4	Q. How do you control a car on the screen in some of	4	that one of the sheets and do I have a slide on this,
5	the car racing games you've played?	5	too? Yeah.
6	A. Okay. Well, obviously there's steering. There's	6	So, one of the sheets is shown in dark green
7	right and left. And then there's, you know, usually a	7	there. That's the main circuit board here. And it has
8	brake and an accelerator. So, you can go forward or	8	a thumbstick and the directional pad attached to it.
9	less forward, I guess.	9	But then the second thumbstick, you see the
10	Q. Well, I'm not sure I counted right; but are the	10	yellow one here, is actually attached to a different
11	things you just described to play the racing game 6	11	little circuit board connected to the first one by
12	degrees of freedom?	12	wires.
13	A. Well, no. That really is just two different	13	So, there are two sheets; and they are
14	directions, the right/left direction for rotation and	14	located on different planes; that is, one is mounted
15	then the forward direction. But you can imagine having	15	higher than the other.
16	other things you'd like to control. So, for instance,	16	THE COURT: All right. Excuse me, counsel.
17 18	you might like to have the a separate control for the brake and for the accelerometer and for the	17 18	Ladies and gentlemen, we're going to go ahead
19		19	and take a break. I'll ask you to be back at ten of.
20	accelerator. Those are separate controls in a real car. Even though they really control the same thing, the same	20	Please remember my instructions. Don't discuss the case among yourselves.
21	direction, having separate functions for those would be	21	(The jury exits the courtroom, 2:34 p.m.)
22	nice.	22	THE COURT: We'll be in recess until ten of.
23	There are other things like the viewpoint.	23	(Recess, $2:34$ p.m. to $2:48$ p.m.)
24	You might want to be able to get a bird's-eye view so	24	(Open court, all parties present, jury
25	you can see what's ahead as you're driving along and	25	present.)
—	Page 421		Page 423
1	other things. It might be fun if you go off the road in	1	THE COURT: Go ahead, counsel.
2	a driving game, you run into some mud and you have to	2	MR. CAWLEY: Thank you, your Honor.
3	turn on the windshield wipers so you can see again out	3	BY MR. CAWLEY:
4	the windshield in a game.	4	Q. Professor Howe, where were we?
5	So, there are a lot of functions; and	5	A. Well, let's see. I think we were talking about
6	designers can use them in creative ways to make	6	claim 16 and we had gotten to the part where we
7	interesting and fun video games.	7	mentioned that there were two sheets inside the GameCube
8	Q. Okay. We're still on claim 16, right?	8	controller and I think I showed you in the actual
9	A. That's right.	9	disassembled controller, but let me point it out on the
10	Q. Why don't you take us, then, to the new things that	10	slide here.
11	are in claim 16 that you have not talked about yet?	11	The dark green is that first large circuit
12	A. Okay. Now if I could have my next slide here.	12	board and you can see it has one of the thumbsticks and
13	So, there are a bunch of different things	13	the directional pad on it and if you flip it over, it
14	highlighted there; and they all talk about sheets. So,	14	actually has the trigger sensors on that, as well.
15 16	for instance, down towards the bottom there, it talks	15 16	But then if we could remove those various
16	about (reading) sensors at least in part connected to a	16 17	components, you'll see there is a second bright green
17 19	second sheet, said first sheet located on a first plane	17 18	circuit board there that's on a different level.
18 19	and said second sheet located on a second plane. And,	18	So, this meets the condition given in the claim that there are two sheets on two planes.
20	so, the yellow stuff above that also talks about these ideas of sheets.	19 20	Q. Thank you. And I think, to reorient us here, you
20 21	Now, the sheets in this case are circuit	20 21	were in the process of going through this claim 16 and
22	boards. So, it's a very general term. And in the case	22	telling us just about the new additional things that you
			terming as just about the new additional timings that you
23	of the GameCube controller, you can see that these	23	hadn't discussed yet. So, please proceed with that.

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	Page 428		Page 430
1		1	
1	before.	1 2	wireless connection so that you don't need to worry
2	<ul><li>Q. Okay. What else is new?</li><li>A. Okay. Then all the way down at the bottom. Good.</li></ul>	⊿ 3	about that cable while you're playing.
3 4	(Reading) A sheet connecting to at least eight of the	<u>4</u>	It's also got a bigger housing, and one reason for that is it has to have batteries so it can
5		5	
6	sensors. Well, the sheet is the circuit board. So,	6	operate. This one can get the power over the cable from the console. This one has to have batteries in it. So,
7	this is saying that you want to have at least eight of	7	it's kind of a bigger, clunkier-looking housing.
8	them connected to one circuit board. So, here is our	8	Now, the actual input elements are the same.
9		9	You can see there are two thumbsticks. There is the
9 10	circuit board again. We have the D-pad. That's got the	10	
11	right/left, up and down. That's four sensors. One of	11	cross pad, a bunch of buttons on the front. If we look
	the thumbsticks. It's got the two directions. So,		at the trigger, the trigger configuration is the same.
12	that's another two sensors. Those are bi-directional	12	There is an extra on/off switch here which is present,
13 14	sensors. And then we've got those trigger sensors on	13	an extra little dial here. But the basic input elements
$14 \\ 15$	the front here that are connected to the bottom of the	14 15	that we've been talking about are just the same.
15 16	board. So, this sheet in this case has eight four,	16	Now, there is one key difference. This
17	two, and two. $\Omega = \sum_{n=1}^{\infty} \sum_{i=1}^{\infty} \sum_{j=1}^{\infty} \sum_{i=1}^{\infty} \sum_{j=1}^{\infty$		device, the Wavebird wireless controller, does not have
	Q. So, looking for all of the things that you told us	17	rumble. It does not have the motor in it that gives you
18	about before that you told us were in the GameCube and	18 19	active tactile feedback.
19	that are also in this claim 14 and then looking at the	20	Q. Okay. So, let me make sure that I understand where
20	things that are new in claim 14 that you've just told us		we are, then. You told us that this new controller that
21 22	about, what have you concluded about how the GameCube	21 22	we're looking at has a wireless communicator in it as
22 23	matches up to claim 14?	22	opposed to the wire of the first one and the new one has an extra on/off switch and a little bit different
23 24	A. Well, all of the elements are there. We've gone through and checked off both the old ones and the new	23 24	
25	ones now. And, so, claim 16 is infringed by the	25	housing. Do any of those things have anything to do with infringement?
25	ones now. And, so, claim to is mininged by the	23	with minigement:
	5 400		D 421
	Page 429		Page 431
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1 2	GameCube controller. Q. You said 16?	2	A. No. None of those are described by the claims we've been talking about.
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	Page 432		Page 434
1 2 3 4 5 6 7 8 9 10	<ul> <li>Q. Okay. Is everything else there?</li> <li>A. Yes. All the rest of the sensors, the input switches and all that we talked about for the GameCube controller, are just the same. They're accurately described by the claim language. So, for that case, for claim 14, for the same reasons we talked about with the GameCube, the Wavebird controller infringes claim 14.</li> <li>Q. Thank you, sir. Is that the only claim of the patent that is infringed by this Wavebird controller?</li> <li>A. That's the only one we're discussing, yes.</li> </ul>	1 2 4 5 6 7 8 9	<ul> <li>if you would, please.</li> <li>A. (Complying.)</li> <li>Q. Can the Wii Classic be used to control games by itself?</li> <li>A. No, it cannot.</li> <li>Q. And why is that?</li> <li>A. It can't communicate with the console, with the computer that runs the video games. It has to be connected to the Wii Remote, and then the Wii Remote has a wireless connection over to the console.</li> </ul>
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	<ul> <li>Q. Shall we move on to a new controller, then?</li> <li>A. Yes, let's do.</li> <li>Q. Which one is this?</li> <li>A. Well, why don't we talk about the Wii Remote with the Wii Classic Controller.</li> <li>Q. All right.</li> <li>MR. CAWLEY: Your Honor, I'd like to approach the witness to hand him Plaintiff's Exhibit 416 and 414. THE COURT: You may.</li> <li>MR. CAWLEY: And at the same time, we request permission to publish replicas or not replicas, publish duplicates of these exhibits to the jury. THE COURT: Any objection?</li> <li>MR. PRESTA: No, your Honor. THE COURT: Okay. You may do so. Will you</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	<ul> <li>Q. So, is it true that you have to have the Wii Remote connected to be able to use the Wii Classic Controller?</li> <li>A. That's right. The two of them together really make up one controller in terms of communicating with the console.</li> <li>Q. And how does one use the controller?</li> <li>A. Well, there are a couple different ways you can do it. For instance, you can hold the Remote in one hand and use the cross pad and buttons there. You could hold the Classic in the other and use the thumbstick here. Another alternative, you might drop this in your lap and then you could use two hands, one on each thumbstick, and so on.</li> <li>Q. Okay. Now, you've told us that you can't use the Classic by itself. Can you use the Remote by itself</li> </ul>
1 2	Page 433 collect back up the other ones? MR. CAWLEY: Yes, your Honor. If I could ask	1 2	Page 435 without the Classic? A. Yes, you can.
3 4 5 6 7	<ul><li>everyone to hand the old controllers up and we'll give you the new ones.</li><li>BY MR. CAWLEY:</li><li>Q. All right. Professor Howe, show us what this is.</li><li>A. Sure. Well, this is the Wii Classic Controller</li></ul>	3 4 5 6 7	<ul><li>Q. And is there, nevertheless, some useful functionality in the Classic part?</li><li>A. Sure. For instance, if you're used to playing a game, perhaps from the old GameCube that you want to play on the Wii, you might want to have the same</li></ul>
8 9 10 11 12	plugged into the Wii Remote controller. Q. Okay. And I guess since part of this is being written down and just so people who are reading it instead of looking at what you have in your hands give us a little more of a visual description of which	12	<ul><li>interface functions that you did on that old controller,</li><li>thus the name the "Classic Controller."</li><li>Q. Okay. Does the Wii Classic Controller have a</li><li>rumble motor inside of it?</li><li>A. Well, this piece here does not have a rumble motor</li></ul>
13 14 15 16 17	one is which. A. Oh, sure. Okay. So, the Wii Classic Controller has a pair of these thumbsticks, once again. It has a cross pad, some buttons on the face of it; and it also has a pair of these triggers and some buttons on the	13 14 15 16 17	<ul><li>in it; however, the Wii Remote does have a rumble motor in it.</li><li>Q. And since you've told us that you can't use the Classic piece without the Remote, does that mean that every time you're using the Wii Classic, you have a much b fortune?</li></ul>
18 19 20 21 22 23 24	front, not unlike the GameCube controller you saw earlier. Then the other piece of this, the Wii Remote controller, the long, thin one, has a cross pad on the top and has some buttons on the face. It has a simple trigger, an on/off switch for a trigger underneath it.	18 19 20 21 22 23 24	<ul><li>rumble feature?</li><li>A. Yes, you do. That's right.</li><li>Q. And have you actually used this setup of controllers to see if it uses rumble?</li><li>A. Yes. For instance, you can use the Wii Remote to go through the menu options in a game; and every time you go from one menu option to the next, you feel a</li></ul>
24 25	And the two are connected by a cable. O. Now, can the Wij Classic and hold that up again	24 25	little pulse of vibration and that helps let you know

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	Page 436		Page 438
1	how far down the menu you've gone and that sort of	1	Q. And what's the last claim you've considered for
2	thing, gives you useful feedback.	2	this controller?
3	Q. And is the rumble in this controller capable of	3	A. Claim 23. And once again, it's a dependent claim.
4	being used in other ways in other games?	4	It says everything in claim 22 plus the bi-directional
5	A. Sure. The capability is there. So, we know,	5	proportional sensors are rotary potentiometers. And
6	because we've observed that I've observed that, that	6	sure enough, if you look underneath the thumbsticks
7	the programmer can activate that rumble feature at will;	7	here, just as with the GameCube, they are rotary
8	that is, there is a built-in way in the system for doing	8	potentiometers. So, once again, all the claim terms are
9	that. So, a game controller a game programmer,	9	met; and this combination of the Classic and Remote
10	rather, could put that feature in if they want the	10	infringes claim 23.
11	capabilities built into the system.	11	Q. Okay.
12	Q. And is this rumble that you felt in the menu on the	12	MR. CAWLEY: May I approach, your Honor?
13	Wii screen menu feature?	13	THE COURT: You may.
14	A. I'm sorry. Is it in the Wii	14	MR. CAWLEY: I'd like to provide the witness
15	Q. The Wii screen menu, the menu for the Wii screen.	15	with Plaintiff's Exhibit 418, the Wii Nunchuk connected
16 17	A. Yes.	16	to the Wii Remote. I'll ask the court if we may publish
18	Q. Okay. Now, tell us about the other features of the	17 18	this controller to the jury. THE COURT: Any objection?
19	controller. Does this controller have many of the same features as the other controllers that we've seen?	19	MR. PRESTA: No, your Honor.
20	A. Yes, it does. And as I mentioned before, a lot of	20	THE COURT: You may.
21	the input elements are just the same as with the	21	BY MR. CAWLEY:
22	GameCube.	22	Q. All right, Professor Howe. This is the last of the
23	Q. Have you taken these controllers apart to be sure	23	controllers that you're going to tell us about; is that
24	they work in the same way?	24	right?
25	A. Yes, I have.	25	A. That's right.
	Page 437		Page 439
1	Q. And have you concluded that they do?	1	Q. So, would you please explain to the jury what they
2	A. Yes. They do.	2	are holding in their hands as Plaintiff's Exhibit 418?
3	Q. And have you as a result of that study, have you	3	A. Sure. Once again, we have the Wii Remote. This
4	reached an opinion about whether the Wii Classic	4	time, plugged into it, we find the Wii Nunchuk
5	Controller connected to the Wii Remote controller	5	controller. And the Nunchuk controller has one
6	infringes any of the asserted claims?	6	thumbstick, and it has a couple of buttons on the front
7	A. Yes, I have.	7	where the trigger goes.
8	So, for instance, claim 19, we can go through	8	Q. Now, can the Wii Nunchuk controller and hold
9	and once again identify each of the elements in the	9	that up again so we make sure we know what we're looking
10 11	claim just as we did with the GameCube controller and	10 11	at.
	show that they are equivalent; and I performed that	12	A. (Complying.)
12	evercise But to save time we might simply note that		L an the Will Nilnchilk be lised by itself /
12 13	exercise. But to save time, we might simply note that they are the same and check them off in this case		Q. Can the Wii Nunchuk be used by itself? A. No. It's just like the Classic. It doesn't have
13	they are the same and check them off in this case.	13	A. No. It's just like the Classic. It doesn't have
	they are the same and check them off in this case. Q. Okay. And what's the next claim that you've		A. No. It's just like the Classic. It doesn't have any way of communicating with the console. You have to
13 14	<ul><li>they are the same and check them off in this case.</li><li>Q. Okay. And what's the next claim that you've studied and found the same features in this controller</li></ul>	13 14	A. No. It's just like the Classic. It doesn't have
13 14 15	they are the same and check them off in this case. Q. Okay. And what's the next claim that you've	13 14 15	A. No. It's just like the Classic. It doesn't have any way of communicating with the console. You have to plug it into the Wii Remote, and then the Wii Remote can
13 14 15 16	they are the same and check them off in this case. Q. Okay. And what's the next claim that you've studied and found the same features in this controller as in the earlier controller you described to us?	13 14 15 16	A. No. It's just like the Classic. It doesn't have any way of communicating with the console. You have to plug it into the Wii Remote, and then the Wii Remote can communicate wirelessly with the video game.
13 14 15 16 17	<ul><li>they are the same and check them off in this case.</li><li>Q. Okay. And what's the next claim that you've studied and found the same features in this controller as in the earlier controller you described to us?</li><li>A. Okay. Let's go to claim 22. And as before, this</li></ul>	13 14 15 16 17	<ul> <li>A. No. It's just like the Classic. It doesn't have any way of communicating with the console. You have to plug it into the Wii Remote, and then the Wii Remote can communicate wirelessly with the video game.</li> <li>Q. So, do you have to have both things operating together to be able to use the Nunchuk?</li> <li>A. That's right.</li> </ul>
13 14 15 16 17 18	they are the same and check them off in this case. Q. Okay. And what's the next claim that you've studied and found the same features in this controller as in the earlier controller you described to us? A. Okay. Let's go to claim 22. And as before, this is dependent on claim 19; so, we've checked off claim 19 terms. And now we need to have the button sensor outputs data proportionate to depression of one of the	13 14 15 16 17 18	<ul> <li>A. No. It's just like the Classic. It doesn't have any way of communicating with the console. You have to plug it into the Wii Remote, and then the Wii Remote can communicate wirelessly with the video game.</li> <li>Q. So, do you have to have both things operating together to be able to use the Nunchuk?</li> <li>A. That's right.</li> <li>Q. And together do they both infringe at least one</li> </ul>
13 14 15 16 17 18 19 20 21	<ul> <li>they are the same and check them off in this case.</li> <li>Q. Okay. And what's the next claim that you've studied and found the same features in this controller as in the earlier controller you described to us?</li> <li>A. Okay. Let's go to claim 22. And as before, this is dependent on claim 19; so, we've checked off claim 19 terms. And now we need to have the button sensor outputs data proportionate to depression of one of the buttons. In the GameCube, that was the trigger; and</li> </ul>	13 14 15 16 17 18 19 20 21	<ul> <li>A. No. It's just like the Classic. It doesn't have any way of communicating with the console. You have to plug it into the Wii Remote, and then the Wii Remote can communicate wirelessly with the video game.</li> <li>Q. So, do you have to have both things operating together to be able to use the Nunchuk?</li> <li>A. That's right.</li> <li>Q. And together do they both infringe at least one claim of the patent?</li> </ul>
13 14 15 16 17 18 19 20 21 22	they are the same and check them off in this case. Q. Okay. And what's the next claim that you've studied and found the same features in this controller as in the earlier controller you described to us? A. Okay. Let's go to claim 22. And as before, this is dependent on claim 19; so, we've checked off claim 19 terms. And now we need to have the button sensor outputs data proportionate to depression of one of the buttons. In the GameCube, that was the trigger; and once again, here it's the trigger.	13 14 15 16 17 18 19 20 21 22	<ul> <li>A. No. It's just like the Classic. It doesn't have any way of communicating with the console. You have to plug it into the Wii Remote, and then the Wii Remote can communicate wirelessly with the video game.</li> <li>Q. So, do you have to have both things operating together to be able to use the Nunchuk?</li> <li>A. That's right.</li> <li>Q. And together do they both infringe at least one claim of the patent?</li> <li>A. Yes, they do.</li> </ul>
13 14 15 16 17 18 19 20 21 22 23	<ul> <li>they are the same and check them off in this case.</li> <li>Q. Okay. And what's the next claim that you've studied and found the same features in this controller as in the earlier controller you described to us?</li> <li>A. Okay. Let's go to claim 22. And as before, this is dependent on claim 19; so, we've checked off claim 19 terms. And now we need to have the button sensor outputs data proportionate to depression of one of the buttons. In the GameCube, that was the trigger; and once again, here it's the trigger.</li> <li>Q. Okay. So, what have you concluded about this</li> </ul>	13 14 15 16 17 18 19 20 21 22 23	<ul> <li>A. No. It's just like the Classic. It doesn't have any way of communicating with the console. You have to plug it into the Wii Remote, and then the Wii Remote can communicate wirelessly with the video game.</li> <li>Q. So, do you have to have both things operating together to be able to use the Nunchuk?</li> <li>A. That's right.</li> <li>Q. And together do they both infringe at least one claim of the patent?</li> <li>A. Yes, they do.</li> <li>Q. What claim is that?</li> </ul>
13 14 15 16 17 18 19 20 21 22	they are the same and check them off in this case. Q. Okay. And what's the next claim that you've studied and found the same features in this controller as in the earlier controller you described to us? A. Okay. Let's go to claim 22. And as before, this is dependent on claim 19; so, we've checked off claim 19 terms. And now we need to have the button sensor outputs data proportionate to depression of one of the buttons. In the GameCube, that was the trigger; and once again, here it's the trigger.	13 14 15 16 17 18 19 20 21 22	<ul> <li>A. No. It's just like the Classic. It doesn't have any way of communicating with the console. You have to plug it into the Wii Remote, and then the Wii Remote can communicate wirelessly with the video game.</li> <li>Q. So, do you have to have both things operating together to be able to use the Nunchuk?</li> <li>A. That's right.</li> <li>Q. And together do they both infringe at least one claim of the patent?</li> <li>A. Yes, they do.</li> </ul>

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	Page 444		Page 446
1	These are things you put your thumb	1	controller including a tactile feedback means for
2	Q. You call that the "second element" one here?	2	providing vibration detectable by the user through the
3	A. You can call that the "second element," yes.	3	hand operating the controller.
4	Q. Is that present in the device?	4	So, as I said before, there's a rumble motor
5	A. Yes, it is.	5	inside the Wii Remote; and that produces a vibration you
6	Q. Can we check it off?	6	can easily see when the game programmer activates it.
7	A. Please.	7	So, we can check that one off.
8	Q. Okay. And, then, how about this one?	8	Okay. So, we've already done the next two.
9	A. Well, that one describes the accelerometer in this	9	And then at the bottom, (reading) a plurality
10	case. So, inside the Remote, as we saw, there is a	10	of independent finger-depressible buttons. And we've
11	little accelerometer chip; and that's able to sense	11	got lots of buttons here. There are buttons on the Wii
12	motion on two perpendicular axes, as required in the	12	Remote; and there are buttons on the Nunchuk, as well.
13	claim language there. It's able to actuate	13	So, we match that plurality, more than one condition.
14	structured to activate two bi-directional proportional	14	And it says and we can check that one off.
15	sensors. Those are the spring sensors we saw in our	15	And, finally, (reading) each button is
16	animation there and they provide outputs that we know	16	associated with a button sensor, said button sensor
17	can control objects and navigate viewpoints in the video	17	outputs at least on/off data to allow controlling of the
18	game because we play video games I've played video	18	objects.
19	games where you are able to do that. So, all the	19	So, each of these buttons, in fact, does put
20	structure and the capability described there is present	20	out on/off data; and we've confirmed by playing games,
21	through that accelerometer.	21	for instance, that those signals are useful for
22	Q. So, have you concluded that this piece in claim 19	22	controlling objects. So, once again, it gives a good
23	is there?	23	description of this controller. We can check that one
24	A. Yes, it is.	24	off, as well.
25	Q. Can we check it off?	25	Q. Dr. Howe, they are all checked off. What have you
	Page 445		Page 447
1	A. Yes, please.	1	concluded about claim 19 and the Wii Nunchuk controller
2	Q. All right. Now, just to make sure that we've been	2	with Remote?
3	thorough and that we all remember your conclusions at	3	A. Well, this means that the Wii Nunchuk and Remote
4	the end of the trial, would you quickly go through the	4	infringe claim 19.
5	things in claim 19 that are not yet checked off, tell us	5	Q. All right, Dr. Howe. Can you summarize for us the
6	if they're in the Wii Nunchuk with Remote and tell me if	6	conclusions that you have reached about infringement of
7	I can check them off or not.	7	the '700 patent by the Nintendo controllers as a result
8	A. Okay. Let's go through that.	8	of the study that you've just explained to us?
9	So, the first part is a hand-operated	9	A. Sure. So, to summarize, the GameCube controller
10	controller; and, of course, these are according to	10	infringes claims 14, 16, 19, 22, and 23.
11	the definitions, the claim construction definitions that	11	The Wavebird wireless infringes claim 14.
12	we have from the court, these two constitute a	12	The Wii Classic and Wii Remote combination
13	hand-operated controller. So, we can check the first	13	fringes claims 19, 22, and 23.
14	element off.	14	And the Wii Nunchuk/remote combination
15	The next part we have here is (reading)	15	infringes claim 19.
16	structure allowing hand inputs rotating a platform on	16	Q. Okay. Professor Howe, we appreciate your coming
17 10	two mutually perpendicular axes to be translated into	17	today.
18	electrical outputs by four unidirectional sensors to	18	MR. CAWLEY: And, your Honor, we pass the
19 20	allow controlling objects and navigating a viewpoint.	19 20	witness.
20	So, once again, taking into account the claim		THE COURT: All right. Counsel?
21		101	
21 22	construction definitions, this is met by the directional	21	MR. PRESTA: Your Honor, if I could approach
22	construction definitions, this is met by the directional pad on the Wii Remote just as it was met by the	22	and hand out some binders.
	construction definitions, this is met by the directional		

63 (Pages 444 to 447)

	Page 456		Page 458
1	four different products that are alleged here.	1	BY MR. PRESTA:
2	A. I believe that's correct.	2	Q. Okay. Well, again, the GameCube was the product
3	Q. Okay. Now, I notice that the GameCube product,	3	that Mr. Armstrong had in his possession at the time he
4	which is on the far right, here (indicating), is	4	wrote those claims; and it's the GameCube is the only
5	identified as infringing all of the claims 14, 16,	5	product that infringes all of the claims. You'll agree
6	19, 22, and 23 right?	6	with me on that, right?
7	A. Yes, that's right.	7	A. Yes.
8	Q. Now, you understand, of course, that and you	8	Q. Okay. Now, I'd like to help understand a little
9	heard the testimony that Mr. Armstrong had that GameCube	9	bit better what you believe Mr. Armstrong invented.
10	product in front of him when he wrote those claims,	10	And, in fact, I'd like to ask you if you recognize that
11	right?	11	controller.
12	A. I believe I caught that in the testimony, yes.	12	A. Yes, I do.
13	Q. In fact, Mr. Armstrong admitted that he was using	13	Q. What is it?
14	that product as a guide to draft those claims, right?	14	A. That's the Nintendo 64 controller.
15	A. Again, I don't recall hearing that specific piece	15	Q. Okay. You understand that that's not an accused
16	of the testimony.	16	product in this case, right?
17	Q. Well, you do understand that Mr. Armstrong had the	17	A. Yes, I do.
18	Nintendo GameCube product in his possession when he was	18	Q. Okay. Do you have an opinion on whether that
19	drafting the claims, right?	19	controller would infringe claim 19?
20	A. Yes.	20	A. Well, I haven't done a detailed analysis; so, I
21	Q. Okay. So, it's not a surprise, then, that, in	21	can't say for certain.
22	fact, you're testifying that all of these claims are met	22	Q. Okay. Well, you just testified
23	by the GameCube controller, because they were drafted	23	THE COURT: Hold on a minute, counsel.
24	for the specifically to read on the GameCube	24	Since this lawyer is a little further over, I
25	controller, right?	25	think if you'll yes. If you'll slide that microphone
	Page 457		Page 459
1	A. Again, I haven't heard Mr. Armstrong testify in	1	over.
2	that regard; so, I'm sorry, I can't help you with that.	2	THE WITNESS: Great.
3	Q. Okay.	3	THE COURT: The acoustics in here are not
4	MR. PRESTA: I'm going to go to the next	4	real good over where I'm sitting, and sometimes they're
5	slide.	5	not real good over there. So, it's important that you
6	BY MR. PRESTA:	6	speak up.
7	Q. Now, this is a timeline that has been shown several	7	THE WITNESS: I understand. I will do.
8	times by Nintendo in this case. And, in fact, the	8	Thank you, sir.
9	claims that are written in this case that are being	9	MR. PRESTA: Thank you, your Honor.
10	alleged were drafted July 15th of 2002. Were you aware		BY MR. PRESTA:
11	of that?		Q. Now, Professor Howe, do you recall at your
12	A. Yes.	12	deposition where I showed you the N64 and you did a
13	Q. Okay. And are you aware that Nintendo's GameCube		detailed review of it?
14	product came out in November of 2001?	14	A. Vaguely, yes.
15	A. I'm happy to take your word for that.	15	Q. Okay. And you have been testifying that, for
16	Q. Okay. Now, in view of the fact that Mr. Armstrong	16	example, claim 19 an important aspect of claim 19
17	had Nintendo's products in his hands when he was writing		that you mentioned was that it has two joysticks and a
18	this aspect of his patent, we didn't really need a	18	cross-switch, right?
19	Harvard professor to come in and read the claims onto	19	A. That's right.
20	those products and attempt to show that there is	20	Q. Now, this particular controller does not have two
21	infringement. Would you agree with me?	21	joysticks and a cross-switch, does it?
22	MR. CAWLEY: Your Honor, I object to that.	22	A. No. It apparently does not.
23	That's an argumentative question.	23	Q. Okay. So, in view then based on that, would you
24 25	THE COURT: Sustained.	24	agree with me that the N64 does not infringe claim 19? A. It does not appear to.
<u> </u>		40	

66 (Pages 456 to 459)

	Page 576		Page 578
1	there. There is an element that can move on two axes,	1	A. That's right. Well, the point is that it let me
2	perpendicular axes.	2	use an analogy because that's a good way to do it.
3	Q. Okay. That's Thing Number 1.	3	For instance, if we had a patent claim, not
4	A. The second is it's the element structured to	4	this one but another patent claim, that said something
5	activate two bi-directional proportional sensors.	5	about a piece of sporting equipment that you swing and
6	Q. Okay. That's I don't want to now, I don't	6	somebody showed you a baseball bat and said, "Does that
7	want to confuse semantics. That's Thing Number 2,	7	match what's in the patent?" And you'd say, "Yeah, it's
8	although Thing Number 2 does include two sensors within	8	a piece of sporting equipment and you swing a baseball
9	it, right?	9	bat." So, yeah, you would check that off.
10	A. That's right, yes.	10	Now, there's nothing in the claim about
11	Q. Okay. What's Part Number 3?	11	baseball bats; and, in fact, we know it's more general
12	A. The third one is what the output signals do. They,	12	than that. So, if somebody shows you a tennis racket or
13	at least in part, control objects and navigate	13	a golf club, those are pieces of sporting equipment that
14	viewpoints.	14	you swing, as well. So, the patent and this is often
15	Q. Okay. Now, how is it that you told us yesterday	15	a good idea when you write a patent is you want to
16	that this third element with the three pieces that you	16	describe things in a general way so that they cover a
	just described is in the GameCube controller?	17	number of different things; and that's just what's
	A. Well, that language in this case describes the	18	happening here.
19	thumbstick with its two rotary potentiometers.	19	We have a description about the way you put
20	Q. Okay. And is that	20	sensors together, about the way people can interact with
21	MR. CAWLEY: If we can see that picture	21	them. A thumbstick is one way to do it; an
22	again.	22	accelerometer is another way to do it. What matters is
	A. Here we go.	23	that the language matches the product, not that there is
24 25	BY MR. CAWLEY:	24 25	a specific mention of that product's configuration in
25	Q. This is what you just showed us here.	20	the patent.
	Page 577		Page 579
1	A. Okay. So, should we step through those three	1	Q. So, are you saying that if a thumbstick is like a
2	parts?	2	baseball bat in your example, the accelerometer is like
3	Q. Well, I don't know if we yeah, if you can do it	3	a golf club?
4	quickly.	4	A. That's right.
5	A. I'll do it fast. So, the cap there and the metal	5	Q. Let's see how that fits into what was your analysis
6	shaft under it as well can be the first part about the	6	of the same claim 19 but this time for the Wii Nunchuk
7 8	element movable on two axes. So, it goes up and down,	7 8	with Remote. And, once again, in connection with that
9	goes left/right. The second one is it has to activate two	9	controller, Nintendo's lawyers didn't ask you any questions about almost all of the things that you said
10	bi-directional proportional sensors. And down there at	10	were present from the patent in their Nunchuk/Remote
11	the bottom we see the two potentiometers. Those are	11	controller, right?
12	bi-directional. They go right, and they go left. They	12	A. I believe that's right, yep.
13	go up, and they go down. And they're proportional.	13	Q. So, let's talk about the one they did talk about,
14	They're like a dimmer switch. They give you all the	$14^{-2}$	the same one you just discussed, right?
15	values in between, not just on and off.	15	A. That's right.
16	And then, finally, we know that they can be	16	Q. Okay.
17	used to control objects and change viewpoints in a video	17	MR. CAWLEY: So, let's see the picture again
18	game. Again, it's clear to somebody who works in this	18	of the accelerometer in the device. Actually, the
19	area that that can be done; and, furthermore, we've seen	19	photograph of what is inside the Remote, please.
20	video games that do it. So, it's clear that this	20	BY MR. CAWLEY:
21	satisfies all the parts there.	21	Q. Tell us again what this is.
22	Q. Okay. Now, just straighten out one last bit of	22	A. Okay. This is the accelerometer, this computer
23	questioning here. You say that it satisfies it. But	23	chip accelerometer we've been talking so much about.
		04	
24 25	the word "thumbstick" isn't in here anywhere. How can that be?	24 25	And inside it Q. Okay.

22 (Pages 576 to 579)

1	Page 580		Page 582
1	MR. CAWLEY: Now let's go to the next	1	opinion that the Wii Remote and Nunchuk infringes claim
2	picture.	2	19 of the '700 patent?
3	BY MR. CAWLEY:	3	A. Yes. It does infringe.
4	Q. Can you tell us, then, what actually is inside that	4	Q. Now let me ask you about a few other things quickly
5	chip?	5	that you were asked about in your cross-examination.
6	A. Yeah. So, what's inside is a mass called a "proof	6	Can you hold up the Wii Remote again?
7	mass." That's standard terminology by accelerometers.	7	A. (Complying.)
8	And it's attached by little springs to the frame, and	8	Q. Are there a lot of features to that Remote that you
9	that frame is basically the black case you saw that's	9	can readily point out without even having to take it
10	soldered down to the circuit board. And inside, as part	10	together [sic]?
11 12	of this computer chip, they've built little tiny	11 12	A. Sure. Well, we know about the cross pad up here,
13	springs and I mean tiny that suspend that mass. So, as the Wii Remote is moved around in the hand, those	13	various buttons. There are some lights down here on the bottom that come on. We've heard about the camera on
$14^{13}$	springs compress and extend as the mass lags behind; and		the front that looks at the light bar on the TV or the
15	then there are the sensors that measure how much that	15	computer screen. So, there are a lot of different
16	spring is stretched or compressed. Now	16	features here.
17	Q. So, let me interrupt you with a question. Take us	17	Q. Did those additional features that you haven't
18	through now what you've just explained about the sensors	18	testified about in connection with your opinion about
19	in the accelerometer and the three parts that you told	19	why there is infringement do they have anything to do
20	us are in this third element piece.	20	with whether there is infringement or not?
21	A. You bet. So, the we said there are three parts	21	A. No. What we have to
22	here that have to be present. If they aren't present,	22	Q. I'm thinking about the camera in particular because
23	we don't have infringement. And the first one is this	23	you were asked a bunch of features [sic] about that.
24	element movable on two perpendicular axes. In this case	24	So, let me ask you specifically about the camera.
25	it's the mass. It moves side to side, and it moves up	25	A. Right.
	Page 581		Page 583
1	and down. So, those are two perpendicular axes.	1	Q. Does the camera have anything to do with
2	The second part is that it has to activate	2	infringement?
3	two bi-directional proportional sensors. Well, we see	3	A. No. As we've seen, we've checked that the features
4	that the sensors are configured to measure the spring	4	that are listed in the patent are present in the device.
5	compression in each direction. And, furthermore, each	5	
6	one of those sensors, those capacitive sensors, works		There can be extra features. That doesn't concern the
6		6	patent, and it doesn't concern infringement.
7	both ways. So, the one for the vertical direction	7	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of
7 8	both ways. So, the one for the vertical direction measures motion up and down it's bi-directional	7 8	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of
7 8 9	both ways. So, the one for the vertical direction measures motion up and down it's bi-directional and it measures the total motion. So, if you move a	7 8 9	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools
7 8 9 10	both ways. So, the one for the vertical direction measures motion up and down it's bi-directional and it measures the total motion. So, if you move a little bit, it gives you a small signal. If it moves a	7 8 9 10	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools from Sears. The box comes. You get out the list of
7 8 9 10 11	both ways. So, the one for the vertical direction measures motion up and down it's bi-directional and it measures the total motion. So, if you move a little bit, it gives you a small signal. If it moves a lot, you get a big signal. So, it's bi-directional,	7 8 9 10 11	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools from Sears. The box comes. You get out the list of your order. You check is my power drill in there?
7 8 9 10 11 12	both ways. So, the one for the vertical direction measures motion up and down it's bi-directional and it measures the total motion. So, if you move a little bit, it gives you a small signal. If it moves a lot, you get a big signal. So, it's bi-directional, it's proportional, and there are two of them.	7 8 9 10 11 12	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools from Sears. The box comes. You get out the list of your order. You check is my power drill in there? Check. Is the wrench I ordered in there? Check. Is
7 8 9 10 11 12 13	both ways. So, the one for the vertical direction measures motion up and down it's bi-directional and it measures the total motion. So, if you move a little bit, it gives you a small signal. If it moves a lot, you get a big signal. So, it's bi-directional, it's proportional, and there are two of them. Then our last element there is that it's	7 8 9 10 11 12 13	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools from Sears. The box comes. You get out the list of your order. You check is my power drill in there? Check. Is the wrench I ordered in there? Check. Is the pliers I ordered in there? Check. So, your order
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7 8 9 10 11 12 13 14 15	both ways. So, the one for the vertical direction measures motion up and down it's bi-directional and it measures the total motion. So, if you move a little bit, it gives you a small signal. If it moves a lot, you get a big signal. So, it's bi-directional, it's proportional, and there are two of them. Then our last element there is that it's useful for controlling objects and navigating a viewpoint. And, again, it's obvious if you work in this	7 8 9 10 11 12 13 14 15	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools from Sears. The box comes. You get out the list of your order. You check is my power drill in there? Check. Is the wrench I ordered in there? Check. Is the pliers I ordered in there? Check. So, your order is complete. But then you look in there and they've thrown in a free screwdriver and that's a bonus. It
7 8 9 10 11 12 13 14 15 16	both ways. So, the one for the vertical direction measures motion up and down it's bi-directional and it measures the total motion. So, if you move a little bit, it gives you a small signal. If it moves a lot, you get a big signal. So, it's bi-directional, it's proportional, and there are two of them. Then our last element there is that it's useful for controlling objects and navigating a viewpoint. And, again, it's obvious if you work in this area that they can be used that way; and, furthermore, I	7 8 9 10 11 12 13 14 15 16	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools from Sears. The box comes. You get out the list of your order. You check is my power drill in there? Check. Is the wrench I ordered in there? Check. Is the pliers I ordered in there? Check. So, your order is complete. But then you look in there and they've thrown in a free screwdriver and that's a bonus. It turns out if you ordered more than \$50 worth of tools
7 8 9 10 11 12 13 14 15	both ways. So, the one for the vertical direction measures motion up and down it's bi-directional and it measures the total motion. So, if you move a little bit, it gives you a small signal. If it moves a lot, you get a big signal. So, it's bi-directional, it's proportional, and there are two of them. Then our last element there is that it's useful for controlling objects and navigating a viewpoint. And, again, it's obvious if you work in this area that they can be used that way; and, furthermore, I believe you saw a demonstration of the Wii in which that	7 8 9 10 11 12 13 14 15 16 17	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools from Sears. The box comes. You get out the list of your order. You check is my power drill in there? Check. Is the wrench I ordered in there? Check. Is the pliers I ordered in there? Check. So, your order is complete. But then you look in there and they've thrown in a free screwdriver and that's a bonus. It turns out if you ordered more than \$50 worth of tools this week or something like that, they throw in the
7 8 9 10 11 12 13 14 15 16 17	both ways. So, the one for the vertical direction measures motion up and down it's bi-directional and it measures the total motion. So, if you move a little bit, it gives you a small signal. If it moves a lot, you get a big signal. So, it's bi-directional, it's proportional, and there are two of them. Then our last element there is that it's useful for controlling objects and navigating a viewpoint. And, again, it's obvious if you work in this area that they can be used that way; and, furthermore, I	7 8 9 10 11 12 13 14 15 16 17 18	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools from Sears. The box comes. You get out the list of your order. You check is my power drill in there? Check. Is the wrench I ordered in there? Check. Is the pliers I ordered in there? Check. So, your order is complete. But then you look in there and they've thrown in a free screwdriver and that's a bonus. It turns out if you ordered more than \$50 worth of tools this week or something like that, they throw in the bonus. Well, the bonus is great. What matters is that
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7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>both ways. So, the one for the vertical direction</li> <li>measures motion up and down it's bi-directional and it measures the total motion. So, if you move a</li> <li>little bit, it gives you a small signal. If it moves a</li> <li>lot, you get a big signal. So, it's bi-directional,</li> <li>it's proportional, and there are two of them. Then our last element there is that it's</li> <li>useful for controlling objects and navigating a</li> <li>viewpoint. And, again, it's obvious if you work in this</li> <li>area that they can be used that way; and, furthermore, I</li> <li>believe you saw a demonstration of the Wii in which that</li> <li>was true. We saw somebody waving this around and</li> <li>producing the changing viewpoints and changing motion on</li> <li>the screen of the computer game.</li> <li>Q. Okay. Is it your conclusion, then, that even based</li> <li>on all of the things you've seen about being able, as a</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18 19 20	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools from Sears. The box comes. You get out the list of your order. You check is my power drill in there? Check. Is the wrench I ordered in there? Check. Is the pliers I ordered in there? Check. So, your order is complete. But then you look in there and they've thrown in a free screwdriver and that's a bonus. It turns out if you ordered more than \$50 worth of tools this week or something like that, they throw in the bonus. Well, the bonus is great. What matters is that they gave you what you ordered. And it's the same here. What matters is that
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>both ways. So, the one for the vertical direction</li> <li>measures motion up and down it's bi-directional and it measures the total motion. So, if you move a</li> <li>little bit, it gives you a small signal. If it moves a</li> <li>lot, you get a big signal. So, it's bi-directional,</li> <li>it's proportional, and there are two of them.</li> <li>Then our last element there is that it's</li> <li>useful for controlling objects and navigating a</li> <li>viewpoint. And, again, it's obvious if you work in this area that they can be used that way; and, furthermore, I</li> <li>believe you saw a demonstration of the Wii in which that was true. We saw somebody waving this around and producing the changing viewpoints and changing motion on the screen of the computer game.</li> <li>Q. Okay. Is it your conclusion, then, that even based on all of the things you've seen about being able, as a matter of semantics, to refer to the whole controller as</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools from Sears. The box comes. You get out the list of your order. You check is my power drill in there? Check. Is the wrench I ordered in there? Check. Is the pliers I ordered in there? Check. So, your order is complete. But then you look in there and they've thrown in a free screwdriver and that's a bonus. It turns out if you ordered more than \$50 worth of tools this week or something like that, they throw in the bonus. Well, the bonus is great. What matters is that they gave you what you ordered. And it's the same here. What matters is that all the elements described in the claim are present in the device. There can be extra features, but that doesn't get you out of infringing the patent. And the
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>both ways. So, the one for the vertical direction</li> <li>measures motion up and down it's bi-directional and it measures the total motion. So, if you move a</li> <li>little bit, it gives you a small signal. If it moves a</li> <li>lot, you get a big signal. So, it's bi-directional,</li> <li>it's proportional, and there are two of them. Then our last element there is that it's</li> <li>useful for controlling objects and navigating a</li> <li>viewpoint. And, again, it's obvious if you work in this</li> <li>area that they can be used that way; and, furthermore, I</li> <li>believe you saw a demonstration of the Wii in which that</li> <li>was true. We saw somebody waving this around and</li> <li>producing the changing viewpoints and changing motion on</li> <li>the screen of the computer game.</li> <li>Q. Okay. Is it your conclusion, then, that even based</li> <li>on all of the things you've seen about being able, as a</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	patent, and it doesn't concern infringement. So, before I used the analogy, the idea of checking for infringement, like getting a box of something from Sears. So, suppose you order some tools from Sears. The box comes. You get out the list of your order. You check is my power drill in there? Check. Is the wrench I ordered in there? Check. Is the pliers I ordered in there? Check. So, your order is complete. But then you look in there and they've thrown in a free screwdriver and that's a bonus. It turns out if you ordered more than \$50 worth of tools this week or something like that, they throw in the bonus. Well, the bonus is great. What matters is that they gave you what you ordered. And it's the same here. What matters is that all the elements described in the claim are present in the device. There can be extra features, but that

23 (Pages 580 to 583)

	Page 640		Page 642
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>Page 640</li> <li>Q. Did you have a booth at that show?</li> <li>A. Yeah, we had a booth. There was</li> <li>Q. Is that you?</li> <li>A. Yeah. That's it. That's me with hair. But, yeah, that's the booth we had at one of the E3 shows.</li> <li>Q. Okay. So, how did you meet Brad Armstrong at that show?</li> <li>A. I was working at a booth like I am here in this picture, and Brad Armstrong came around and and he had I had never met him before that point and he came around and we struck up a conversation and he had a little paper that said something about 6 DOF and he had some pictures of controllers. I don't remember exactly what they were but we struck up a conversation at that time and we were interested to, you know, talk again after the show.</li> <li>Q. Now, remind us. I know we've heard it, but remind us what "DOF" stands for.</li> <li>A. "DOF" stands for "degree of freedom."</li> <li>Q. So, were you interested in talking to Mr. Armstrong</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 2 3 14 15 16 17 18 9 20	<ul> <li>Page 642</li> <li>5 percent.</li> <li>Q. What does that mean, "a running royalty rate"?</li> <li>A. For every controller that we make or would have made under this contract, we would have paid Brad Armstrong 5 percent of the wholesale price, I believe.</li> <li>Q. And is there a certain type of product for which instead of paying 5 percent you would have paid 4 percent?</li> <li>A. Yeah. I think initially it was 5 percent across the board and after it got to, it looks likes, \$300,000 in it would change where some of the products would be 5 percent royalty rate and some of them would be 4 percent royalty rate.</li> <li>Q. And for what patent was this agreement to apply?</li> <li>A. This covered I just will recognize it by the last three digits of the patent, but it covered the '828 patent and the '891 patent.</li> <li>Q. Are those patents that are similar to the '700 patent that's involved in this lawsuit?</li> <li>A. Yes. In fact, these patents, I believe, are</li> </ul>
21 22 23 24 25	<ul><li>Q. So, were you interested in taking to Mi. Affisitiong further?</li><li>A. Yeah. We actually started corresponding, and we met a couple of times.</li><li>Q. And did you become interested when you still had Mad Catz, before you sold the company and you're still</li><li>Page 641</li></ul>	21 22 23 24 25	<ul> <li>parents to the '700 patent.</li> <li>Q. Why did you agree to pay a royalty rate to Mr. Armstrong of between 4 and 5 percent?</li> <li>A. That was the industry standard as far as I knew.</li> <li>5 percent was pretty much the industry standard Page 643</li> </ul>
1 2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>making and selling controllers, did you become interested in getting a license for Mr. Armstrong's controller technology including the 6-degree-of-freedom controller?</li> <li>A. Yes, very interested. I really believed in his products, thought they were great. He had patents on them, and we decided to enter into an agreement.</li> <li>Q. This is an agreement between Mad Catz and Mr. Armstrong?</li> <li>A. Yes. Yeah. I didn't know I mean, I'd just met Brad and thought his stuff was great; and we entered into a contract.</li> <li>Q. Take a look at the binder in front of you, or on</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13	MR. GUNTHER: Objection, your Honor. Move to strike. Expert testimony. THE WITNESS: Do I keep talking or THE COURT: Hold on, no. THE WITNESS: Okay. THE COURT: I'll sustain as to that. You can obviously go into what was actually paid but not as to the other unless there is a better foundation laid. MR. GUNTHER: Your Honor, can I THE COURT: And I think we've already discussed this particular issue. MR. GUNTHER: Your Honor, can I just request that the jury know what's going on with respect to this?
13 14 15 16 17 18 19 20 21 22 23 24 25	<ul> <li>the screen; and I'm going to show you Plaintiff's Exhibit 43 and ask you to tell us what it is.</li> <li>A. Okay. This is a license agreement between 6-DOF Trust that's a trust that Brad owned at the time and myself, Kelly Tyler, a businessman.</li> <li>Q. What are the main terms of this agreement that you entered into with Mr. Armstrong to license his technology?</li> <li>A. There's some payments. There's a payment of \$75,000; and then there's two additional payments of \$25,000 each. So, that would be a total of \$125,000.</li> </ul>	13 14 15 16 17 18 19 20 21 22 23 24 25	that the jury know what's going on with respect to this? THE COURT: Well, ladies and gentlemen, you're going to hear various damage testimony about a reasonable royalty from various experts. Persons who have not been properly disclosed as experts earlier on, according to the rules, can't state opinions as to what the reasonable amounts are in general. They can talk about what they, themselves, paid; but the rules require otherwise, we would have experts come in with all kinds of things and we would never get over a trial. Both sides are required to provide expert reports early on under the rules and Scheduling Order that I set, and then that's what they are limited to. It's not like on

38 (Pages 640 to 643)

	Page 676		Page 678
1	A. Well, some of them went on a long time. We had one	1	Q. So, the '606 was another continuation from that
2	negotiation session where it went on a couple of days.	2	same 1996 application; is that right?
3	Q. How long total from your first contact with them	3	A. That's correct.
4	until you made a deal?	4	Q. And it involved controller technology?
5	A. Whew, that was probably about four years.	5	A. Yes.
6	Q. Let me show you Plaintiff's Exhibit 54. I think	6	Q. Why did you agree to do this deal with Sony for \$10
7	we've already seen it before, but tell us again. What	7	million?
8	is this document?	8	A. Well, at the time I thought it was low. I didn't
9	A. Let me turn to it real quick. This is a Patent	9	think it represented a fair royalty. But I'd put in a
10	License Agreement between Sony and Anascape.	10	lot of money, and I wanted to get my money out. Brad
11	Q. This is the deal you entered into with Sony; is	11	didn't have any money, and I wanted to get some for him.
12	that right?	12	I mean, he was I mean, one of his dreams was to give
13	A. Yes, it is.	13	his mom a car of her choice; and, you know, if he got
14	Q. What were the terms of the deal that you finally	14	some money, he was going to be able to do that.
15	agreed to with Sony?	15	Q. Did he do that?
16	A. With Sony, there are a few components to it. They	16 17	A. Yeah, he did. It just seemed right to be able to sign up, you know, a big company and get some money off
17 10	would pay us \$10 million. They would give us a cross-license of some of their patents, and they would	18	the table.
18 19	give us additional technology. And on our side, we	19	Q. Did you think that signing a license like this to
20	would give them a nonexclusive license to our whole	20	Sony might have some effect on your ability to negotiate
21	patent portfolio; and there was one patent that we had	21	license agreements with other companies?
22	that we licensed to them exclusively.	22	A. Yeah. When you sign up, you know, the biggest
23	Q. And was that the '606 patent?	23	company in the industry, or one of the biggest companies
24	A. Yes.	24	in the industry, it sends a message that, yes, it is
25	Q. Okay. So, let's make sure that we understand what	25	something that others should do, also.
	Page 677		Page 679
1	you just said because there were several pieces to it.	1	Q. And is that another reason why you were willing to
2	Sony gave Anascape \$10 million, right?	2	take less from Sony than what you thought was really a
3	A. Yes. Uh-huh.	3	reasonable royalty?
4	Q. That's fairly easy. And for that \$10 million, the	4	A. Yeah. I considered it a sweetheart deal because
5	deal was structured so that Anascape gave Sony the	5	they were one of the first ones to sign up.
б	exclusive rights to the '606 patent; is that right?	6	Q. Is Sony using Anascape's technology?
7	A. Yes.	7	A. Yes.
8	Q. And then Sony also gave Anascape the right to use	8	Q. Now, if Nintendo had come to you in 2005 when you
9	certain Sony patents, correct?	9	did the Sony deal or after you did the Sony deal, would
10	A. Yes.	10	you accept \$10,000 from Nintendo for a license to the
11	Q. And then Anascape gave Sony the right to use all of	11 12	'700 patent?
12	Anascape's patents, correct? A. That's correct.	13	MR. GUNTHER: Objection, your Honor. A. \$10,000?
13 14	Q. Including pending patent applications, correct?	14	MR. GUNTHER: Objection, your Honor. Calls
15	A. Yes, that's right.	15	for speculation.
16	Q. And one of those pending applications was the	16	THE COURT: Sustained.
17	application that was soon to become the '700 patent,	17	MR. CAWLEY: I don't guess it would make any
18	correct?	18	difference if I correct myself and say "\$10 million."
19	A. That's correct.	19	THE COURT: The objection is still sustained.
20	Q. On that patent that you agreed to give to Sony	20	MR. CAWLEY: That's what I thought, judge.
21	exclusive rights to, the '606, what was the technology	21	BY MR. CAWLEY:
22	involved in that patent?	22	Q. Well, let me turn, then, to Nintendo. Did you have
23	A. That was a child of the '525 patent, similar to the	23	some communications with Nintendo in an effort to get
0.0		0.4	
24 25	'700 patent. It involved technology with game controllers.	24 25	them to negotiate with you to get a license for using Mr. Armstrong's patents and invention?

47 (Pages 676 to 679)

	Page 728		Page 730
1	which would be, obviously, the amount of royalty that	1	royalty rate"?
2	would be owed.	2	A. Yes, I have.
3	Q. Well, I'll use your terminology of "buckets." So,	3	Q. And what is that?
4	we'll go to the first bucket, which is "Licensing	4	A. Well, first of all, Immersion is a company that, as
5	Characteristics," on Slide 10.	5	I did my research investigation, I kept coming across
6	A. Right.	6	over and over again. They are a leader in controller
7	Q. How did you consider these factors relating to	7	technology for the gaming industry. They design a lot
8	licenses?	8	of controller products. And they have a lot of patents
9	A. Well, what I did is I considered various	9	out there, and they have widely licensed those patents.
10	documentation in this case. I conducted several	10	And that's how I came across Immersion.
11	interviews of some of the people we talked about. And I	11	And because Immersion has been so active in
12	looked and did research; and I found additional	12	licensing their patents, they view that a royalty for
13	information on royalty rates for controller-related	13	their controller technology to command a 5 percent
14	technology in the marketplace, which would shed a lot of	14	royalty rate.
15	light to me as part of my analysis on what an	15	MR. PARKER: Can we go to 14, please?
16	appropriate royalty rate would be in this case.	16	BY MR. PARKER:
17	Q. And you reviewed some actual license agreements?	17	Q. What is this, Mr. Bratic?
18	A. Yes.	18	A. Now, this is a quote from Mr. Viegas, Vic Viegas,
19 20	Q. Okay.	19	who is the president and CEO of the Immersion
20 21	MR. PARKER: If we can go to 11.	20 21	Corporation. And his statement to the public was that:
22	A. Okay. BY MR. PARKER:	22	Our typical license is approximately 5 percent of the wholesale selling price.
23	Q. Are these some you reviewed?	23	And I've seen other documents in this case
24	A. Yes. In fact, the first one, the 6-DOF Trust,	24	that support that statement made by Mr. Viegas.
25	slash, Mr. Tyler, that was one that was shown to	25	MR. PARKER: And if we can now go to 15,
	Page 729		Page 731
1	Mr. Tyler during his examination, which he executed	1	please.
2	shortly after he met Mr. Armstrong; and they signed up a	2	A. Okay.
3	license agreement with royalty rates of 4 to 5 percent,	3	BY MR. PARKER:
4	in that range.	4	O As Lundarstand it one of the things you aromined
		T	Q. As I understand it, one of the things you examined
5	Q. Does this chart support your opinion of a minimum	5	in this case was a data compilation by a gentleman by
6	Q. Does this chart support your opinion of a minimum 5 percent royalty rate in this case?	5 6	
6 7	<ul><li>Q. Does this chart support your opinion of a minimum</li><li>5 percent royalty rate in this case?</li><li>A. It does, but it's only part of the support for my</li></ul>	5 6 7	in this case was a data compilation by a gentleman by the name of Mr. Wagner that was prepared in another matter.
6 7 8	<ul><li>Q. Does this chart support your opinion of a minimum 5 percent royalty rate in this case?</li><li>A. It does, but it's only part of the support for my opinion. But it clearly does support my view of a</li></ul>	5 6 7 8	<ul><li>in this case was a data compilation by a gentleman by</li><li>the name of Mr. Wagner that was prepared in another</li><li>matter.</li><li>A. Correct.</li></ul>
6 7 8 9	<ul> <li>Q. Does this chart support your opinion of a minimum 5 percent royalty rate in this case?</li> <li>A. It does, but it's only part of the support for my opinion. But it clearly does support my view of a royalty rate of 5 percent. But there's a lot more, in</li> </ul>	5 6 7 8 9	<ul><li>in this case was a data compilation by a gentleman by the name of Mr. Wagner that was prepared in another matter.</li><li>A. Correct.</li><li>Q. Is that correct?</li></ul>
6 7 8 9 10	<ul> <li>Q. Does this chart support your opinion of a minimum 5 percent royalty rate in this case?</li> <li>A. It does, but it's only part of the support for my opinion. But it clearly does support my view of a royalty rate of 5 percent. But there's a lot more, in my view, that supports the 5 percent, as well.</li> </ul>	5 6 7 8 9 10	<ul><li>in this case was a data compilation by a gentleman by the name of Mr. Wagner that was prepared in another matter.</li><li>A. Correct.</li><li>Q. Is that correct? And the compilation dealt with a number of</li></ul>
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	Page 732		Page 734
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Even though you didn't conduct the study?</li> <li>A. That's correct.</li> <li>Q. You mentioned do you have the information regarding the companies that executed these agreements?</li> <li>A. Yes.</li> <li>Q. Can you tell the jury about that?</li> <li>A. Well, some of the companies that licensed this technology included, you know, some of Nintendo's competitors, such as Sony.</li> <li>Q. Okay. You have a chart relative to Sony; is that correct?</li> <li>A. Yes.</li> <li>Q. Okay. What's the significance of that chart?</li> <li>A. Well, from the review of the Wagner report that had Mr. Wagner had access to a variety of Sony license agreements. And if you look at the Wagner report and the Sony licenses for controllers, if you look in the far right-hand column, this talks about the device. And if you look at the royalty rates, the royalty rate that Sony was getting for its controller technology to other companies, it was generally getting 5 percent.</li> <li>Q. Now, I assume, Mr. Bratic, that you haven't</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>these reports, this data, influence your conclusions regarding reasonable royalty rate in this case?</li> <li>A. No, because I came across a lot of different independent sources of this information which still corroborated that 5 percent royalty. For example, I had the statements by Mr. Viegas that their standard royalty rate is 5 percent. I went and found two Immersion licenses on my own in my research that showed royalty rates of 3 to 7 percent. The 5 percent is a midpoint, and I discussed them in my report. I have the Sony licenses where Sony licenses its controller technologies for 5 percent, and I have a whole series of summaries of Immersion licenses that Mr. Wagner analyzed where the average royalty rate was 5 percent. So, these are all consistent. They all corroborate each other.</li> <li>Q. Before we move to the next bucket A. Yes.</li> <li>Q what did you learn from the licenses you examined?</li> <li>A. Well, what I learned was a typical licensing arrangement for controller technology were running royalty rates, meaning you pay as you go. As you sell product, you pay royalties, rents. And that typical</li> </ul>
24	personally read or examined the contents of all these	24	royalty rate was in the 5 percent range.
25	various licensing agreements that have been that are	25	Q. All right. The next bucket is "Commercial
1	Page 733	1	Page 735 Success."
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	on this chart and have been involved in the Wagner report; is that correct? A. That's correct. Q. Is it your experience that individuals in your business or individuals in the licensing business can rely on reports like this? A. Oh, sure. I've been doing licensing work for 30 years, and you don't always have perfect information and lots of times companies may report a license, but they don't publish the license agreement. And I do research all the time for clients and I did research in this case helping me to identify data points as far as what royalty rates are in different industries, and in this case there's no difference. And an example would be that a client I'm now representing in Australia, I, in fact, started doing research with them; and it has to do with food processing technology. And I have subscriptions to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>A. Yes.</li> <li>Q. Did you consider the Georgia-Pacific factors relating to commercial success?</li> <li>A. I did.</li> <li>Q. Okay. Could you tell the jury about it?</li> <li>A. Well, sure. The fact is that can you go back to chart let me find it. I think it's Chart 6.</li> <li>Q. I can't, but perhaps Mr. Martin can.</li> <li>A. So, these are the dollar sales. As you can see, they've sold a billion Nintendo has sold in the United States well, these are U.S., Canada, and Latin America sales because they're all sold from the United States. That's why they're all here. But they've sold over a billion dollars of product in less than two years when they introduced the Wii system. The important thing is here, behind that billion dollars in sales, is I'm going to give you a</li> </ul>
19 20 21 22 23 24	databases that I pay \$200 and I get a report on known information on food processing licenses and then I have to do a little drilling and a little analysis, but the point is that information is available. And I've certainly used it for the last 30 years in guiding clients in their negotiations. Q. Does the fact that you didn't personally prepare	19 20 21 22 23 24 25	number about 43 million individual units. In other words, if I had the Nunchuk, you know, here in my hand and I had the Wii Remote and I had the Wii Classic and the Wavebird and Wavebird wireless I mean, the GameCube and the Wavebird wireless, there's about 45 million individual articles, parts that were sold that are these accused products supporting a billion dollars

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	Page 752		Page 754
1	rely on him, and I interviewed other people in	1	sorry that Nintendo would be at a competitive
2	connection with my work in this case; so, that relates	2	disadvantage, without a license, to Sony because they
3	to opinions.	3	would have known at this hypothetical negotiation that
4	G-P Factor 15 is what I've called the	4	Sony, the biggest company in this industry, had a
5	"catchall." It takes all the other 14 factors and rolls	5	license to the '700 patent.
б	them up into this hypothetical negotiation that would	6	And then Anascape would have insisted on or
7	have occurred between Anascape on one hand and Nintendo	7	asked for a royalty rate, in my view, of at least
8	on the other hand back in June, 2005, when the '700	8	5 percent.
9	patent issued.	9	Q. What about Nintendo?
10	And, so, you had mentioned earlier there's	10	A. Well, from Nintendo's perspective, Nintendo would
11	various rules that govern the negotiation; and I've got	11	have walked into that negotiation also recognizing that
12	a slide that goes through some of the factors and some	12	the '700 patent was assumed to be valid and had been
13	of the positions of the bargaining position on how	13	infringed. They would be seeking to get a competitive
14	the parties would have approached negotiation.	14	advantage, and they would be aware of the importance of
15	Q. Well, why don't we move to Slide 31?	15	controller features in offering that competitive
16	A. Okay.	16	advantage. And I'm meaning specifically the six axes of
17	Q. And what does Slide 31 address?	17	control and the rumble.
18	A. Well, this is dealing with Georgia-Pacific Factor	18	And this would have been very important to
19	15, which is setting up that hypothetical negotiation	19	Nintendo because they were about to roll out a new video
20	for a hypothetical license. So, coming to this	20	system. The Wii system hadn't been introduced yet.
21	hypothetical negotiation, Anascape would have come into	21	That was to be introduced in November, 2006. But they
22	that negotiation with a certain perspective and Nintendo	22	were working on it then because they knew they needed to
23	would have come with a certain perspective. So, I've	23	replace the GameCube system back in 2005.
24	kind of tried to summarize what the key points of those	24	And they would have known that the gaming
25	parties were	25	industry is a highly profitable industry. Nintendo, of
	Page 753		Page 755
1	Q. Are those perspectives are those positions	1	course, was a large manufacture market of video game
2	typically referred to as their "bargaining position"?	2	systems with a large distribution network and a strong
3	A. Yeah, their bargaining position or their bargaining		
4		3	customer base.
4	point. It's no different than what happens in the real	3 4	customer base. They would have been aware of the importance
4 5	point. It's no different than what happens in the real world of licensing where two parties come together to		They would have been aware of the importance
4 5 6	world of licensing where two parties come together to	4	They would have been aware of the importance of, and dedicated to, technological innovation and
5	world of licensing where two parties come together to negotiate and do some horse trading and everybody's got	4 5	They would have been aware of the importance of, and dedicated to, technological innovation and controller design. And what I mean by that is Nintendo
5 6	world of licensing where two parties come together to negotiate and do some horse trading and everybody's got their view of what they think is important and they	4 5 6	They would have been aware of the importance of, and dedicated to, technological innovation and controller design. And what I mean by that is Nintendo certainly would have made known the fact that Nintendo
5 6 7	world of licensing where two parties come together to negotiate and do some horse trading and everybody's got their view of what they think is important and they bring it to the negotiation.	4 5 6 7	They would have been aware of the importance of, and dedicated to, technological innovation and controller design. And what I mean by that is Nintendo certainly would have made known the fact that Nintendo also contributed technology to the controller. So, I
5 6 7 8	<ul><li>world of licensing where two parties come together to negotiate and do some horse trading and everybody's got their view of what they think is important and they bring it to the negotiation.</li><li>Q. Do you want to go through Anascape's bargaining</li></ul>	4 5 7 8 9	They would have been aware of the importance of, and dedicated to, technological innovation and controller design. And what I mean by that is Nintendo certainly would have made known the fact that Nintendo also contributed technology to the controller. So, I don't want to suggest that Anascape is the only one
5 6 7 8 9	<ul><li>world of licensing where two parties come together to negotiate and do some horse trading and everybody's got their view of what they think is important and they bring it to the negotiation.</li><li>Q. Do you want to go through Anascape's bargaining position?</li></ul>	4 5 6 7 8	They would have been aware of the importance of, and dedicated to, technological innovation and controller design. And what I mean by that is Nintendo certainly would have made known the fact that Nintendo also contributed technology to the controller. So, I don't want to suggest that Anascape is the only one going to the table with technology.
5 6 7 8 9 10 11	<ul><li>world of licensing where two parties come together to negotiate and do some horse trading and everybody's got their view of what they think is important and they bring it to the negotiation.</li><li>Q. Do you want to go through Anascape's bargaining position?</li><li>A. Sure. Well, at the hypothetical negotiation in</li></ul>	4 5 7 8 9 10 11	They would have been aware of the importance of, and dedicated to, technological innovation and controller design. And what I mean by that is Nintendo certainly would have made known the fact that Nintendo also contributed technology to the controller. So, I don't want to suggest that Anascape is the only one going to the table with technology. And then they would have recognized that
5 6 7 8 9 10 11 12	<ul><li>world of licensing where two parties come together to negotiate and do some horse trading and everybody's got their view of what they think is important and they bring it to the negotiation.</li><li>Q. Do you want to go through Anascape's bargaining position?</li><li>A. Sure. Well, at the hypothetical negotiation in this case, Anascape would have known that the '700</li></ul>	4 5 7 8 9 10 11 12	They would have been aware of the importance of, and dedicated to, technological innovation and controller design. And what I mean by that is Nintendo certainly would have made known the fact that Nintendo also contributed technology to the controller. So, I don't want to suggest that Anascape is the only one going to the table with technology. And then they would have recognized that Nintendo didn't have any alternatives. They didn't have
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66 (Pages 752 to 755)

	Page 808		Page 810
1	5 percent or 4 percent or who knows.	1	Q. Okay.
2	A. Well, I can't tell you. I don't have the	2	A. Particularly in the Sony Immersion/Logitech
3	information.	3	licenses and any of the other Immersion licenses, the
4	Q. All right. You talked about, I believe, a couple	4	information I had, none of those other agreements ever
5	of Immersion licenses. Are you with me on that?	5	specified that the Immersion patents would be deemed to
6	A. Yes.	6	be valid and infringed, which would have a big impact on
7	Q. And you talked about Immersion being pretty	7	whether or not you would add more value to the patent as
8	significant because their president said that "We always	8	opposed to other things thrown in a license.
9	get 5 percent," et cetera, et cetera.	9	Q. Did you study that agreement to see whether or not
10	A. No, that's not why I said they were significant. I	10	the value that the licensee was getting included
11	mean, every time you turn around in the controller	11	significant value from the technology and the know-how,
12	industry, you run into Immersion. They're a major	12	et cetera?
13	player in the controller industry for games.	13	A. Well, as I told you, that agreement is not
14	Q. Did you	14	available for anybody for inspection; and there is no
15	A. That's why I say they're significant.	15	indication as to anything other than there was a bundle
16	Q. I'm sorry.	16	of IP, including patent rights, licensed.
17	In terms of all of those licenses for	17	Q. And actually those agreements included a long
18 19	Immersion, did you actually study any of them to see A. No.	18 19	bundle of patents, didn't it 15, 20, or so?
20	Q what they provided?	20	<ul><li>A. A patent portfolio, that's right.</li><li>Q. Yes, sir. Now, generally speaking, if you're going</li></ul>
21	A. No. I didn't have the specific license agreements.	21	to get 5 percent for 20 licenses 20 patents, wouldn't
22	Q. Well, don't we have a couple on the 1996? Isn't	22	you think that if there was only one patent, it might be
23	that what you have in one of your exhibits?	23	a little less?
24	A. I'm sorry?	24	A. No. IBM is a classic example. IBM at 1 percent
25	Q. Don't you have the license agreement on the 1996	25	they'll charge you 3 percent royalty for one patent. If
	Page 809		Page 811
1	license? It was in your chart. It says:	1	you want to pay 5 percent, you'll get all 22,000 patents
2	Immersion/Logitech Agreement, 1996.	2	in their patent portfolio.
3	A. No, I don't have the license agreement. I actually	3	Q. Yes, sir. That's an example, but in general
4	did some research and independently found the	4	A. Well, they're the biggest patent company in the
5	Immersion/Logitech license agreements and I found that	5	world. They have more patents than anyone else.
6	there were two agreements and the range of royalties	6	Q. In general, wouldn't it be a true proposition that
7	were from 3 to 7 percent. But I didn't actually have	7	the more licenses you had to offer, the more money you
8	the agreements because they weren't published.	8	could demand?
9	Q. But the royalty ranged from 5 percent down to 3	9	A. No. That's not the case at all in the real world
10	percent?	10	or in a hypothetical negotiation.
11	A. And up to 7 percent. There was a second agreement)	11	Q. Okay. You told the jury a little bit about some
12	which was from 5 to 7 percent.	12	Immersion licenses and I think some Sony licenses.
13	Q. And you also learned from your investigation, did	13	A. Yes.
14	you not, that that was not a simple royalty agreement?	14	Q. And you got those out of what I believe was called
15 16	<ul><li>A. I don't know what you mean by "simple"</li><li>Q. It was not a simple license agreement. It had</li></ul>	15 16	the "Wagner report"? A. Correct.
17	technology. It had trademarks	17	Q. Just to be clear, the Wagner report was a report
18	A. That's right.	18	done by an expert I presume someone like yourself
19	Q. It had know-how.	19	that's an expert in economics or accounting that
20	A. That's right.	20	testified in another case?
21	Q. So, all things being equal, if they had to if	21	A. Correct.
22	they only got 5 percent for the license and all of their	22	Q. And in connection with that testimony, he did kind
23	technology and trademarks and know-how, presumably if		of what you've done. He worked up a report, and he
24	you only had one license, it would be something less.	24	included some information in that report.
25	A. No, not necessarily.	25	A. A lot of information.

80 (Pages 808 to 811)

	Page 816		Page 818
1	available to me or anybody else.	1	depositions.
2	Q. Okay.	2	A. I didn't take it; so, don't look at me.
3	A. Had they been made available to me, I certainly	3	Q. I didn't, either.
4	would have looked at them. In the absence of having	4	But I'm really more concerned about
5	them, to use your house analogy, it's like looking at a	5	Mr. Armstrong's testimony than I am about what the
6	new subdivision where pretty much all the houses are the	6	lawyer said.
7	same and when somebody tells you, "Well, that house sold		A. Well, I understand. But he's answering the
8	for a hundred thousand in that subdivision," I can say,	8	question; so, it would be nice to see the question.
9	"Well, great." I know from other data I've seen that	9	Q. Well, let's see. It looks like at the top the
10	there are five or six or seven or eight other houses in	10	question or his answer was: And I think that
11	this subdivision that all sold for a hundred thousand	11	The question was: Why was it a lump sum?
12	and they're very similar; so, I could rely on that.	12	A. Right.
13	Q. I think I heard you say that it would be better if	13	Q. And then the questioner brilliantly said: Yes.
14	you had the licenses themselves.	14	A. Right.
15	A. Sure. It would be great if you could have them,	15	Q. And then Mr. Armstrong said: Because we felt that
16	but	16	that was something that Sony could do. You know, these
17	Q. Okay.	17	ongoing royalties, my understanding is a lot of large
18	A that wasn't available.	18	corporations just don't like them because they can cause
19	Q. Thank you.	19	continuing problems in the future.
20	In terms of the issue as to whether or not	20	A. Right.
21	the jury should consider a lump-sum award as opposed to	21	Q. (Reading) A lump sum is just a done deal.
22	a running royalty, do you agree that there's a fair	22	Everybody is happy, and it's just desirable from
23	amount of indication that both Anascape and Nintendo	23	especially from you know, I think it's desirable for
24	have would prefer lump sum?	24	both parties in some ways but certainly for the larger
25	A. No. I don't agree with that at all.	25	entity's standpoint.
	Page 817		Page 819
1	Q. Okay.	1	A. Right.
2	A. There's no body of evidence that I've seen in this	2	Q. So, that does tell us that Mr. Armstrong at least
3	case to support the notion you just made.	3	was happy with the Sony deal and was happy with the
4	MR. GERMER: Could we look at Armstrong's	4	lump-sum deal.
5	deposition at page 610?	5	A. In the context of that negotiation. And actually
6	A. I don't have it.	6	we don't have anything different than that here because
7	MR. GERMER: I think it's going to come up on	7	we know what the total units that have been sold from
8	the screen.	8	infringement through the time of trial. So, in essence,
9	A. Okay.	9	it would be a 50.3-million-dollar payment, lump-sum
10	BY MR. GERMER:	10	payment, for past infringement.
11	Q. Can you tell me which day this was from?	11	Q. Would you look at page 610, please?
12	A. I cannot oh, there it is, March 17th.	12	A. I'm sorry. 610 of
13	Q. And this is the deposition where they were talking	13	Q. Yes, sir.
14	about the Sony	14	A. Oh, same I'm sorry.
15	A. I don't know.	15	Q. I think that's about where we were.
16	Q the Sony deal. Okay?	16	MR. GERMER: The last question and answer,
17	A. Okay. If you say so.	17	let's blow that up.
18	MR. GERMER: Now, if you go down about	18	BY MR. GERMER:
19	halfway down I tell you what, let's just blow it	19	Q. Question: That's one advantage to a licensor is
20	from 6 down to 14. See if we can do that.	20	that if something changes in the technology, you've
21	BY MR. GERMER:	21	already been paid, right?
22	Q. Mr. Armstrong said	22	And Mr. Armstrong said: Yes. I'm not
23	A. Could I see what the question was?	23	complaining. You know, I'm happy. It was a good deal
24	Q. Sure. The question was "yes."	24	for me.
25	This is one of those really great	25	A. That's what he said.

82 (Pages 816 to 819)

	Page 824		Page 826
1	A. No. That's not necessarily true. Nintendo has	1	REDIRECT EXAMINATION OF WALT BRATIC
2	climbed up in their sales of console systems. They're	2	BY MR. PARKER:
3	now Number 2. They've eclipsed Microsoft.	3	Q. All these questions about lump sum versus
4	Q. They at the time of the hypothetical	4	reasonable royalty, this jury is going to have an
5	negotiation, they would have known that at that time	5	opportunity in a couple of days to make a lump-sum
6	Sony was much bigger.	6	award, aren't they?
7	A. Yes. They would have known that Sony and Microsoft	7	A. Yes.
8	were bigger.	8	Q. But that lump-sum award will have to represent a
9	Q. Okay.	9	reasonable royalty on sales that have occurred to date,
10	A. And that they would have been at a competitive	10	correct?
11	disadvantage by not taking the patent license.	11	A. That is true.
12	Q. And Microsoft is going to want to stay even with	12	Q. And has your opinion about what that amount should
13	Sony if they can?	13	be changed in any way after having listened to
14	THE COURT: Now, wait a minute. Who?	14	cross-examination?
15	MR. GERMER: I'm sorry. We got off on	15	A. No, it hasn't. My opinion is the royalty rate
16	Microsoft.	16	should be at least 5 percent; and, therefore, the
17	BY MR. GERMER:	17	minimum amount of damages are 50.3 million.
18	Q. Nintendo is going to want to stay even with Sony if	18	Q. Thank you, sir.
19	they can?	19	MR. PARKER: I have no further questions.
20	A. Well, what do you mean "even"?	20 21	MR. GERMER: No further questions, your
21 22	<ul><li>Q. They want to get the same deal if they can.</li><li>A. Well, if they can. But the terms and circumstances</li></ul>	22	Honor. THE COURT: Just for the record and so there
22	would have been different in 2005 for Nintendo than they	22	is no confusion later on lump sum, would you tell the
24	were when Sony voluntarily negotiated a license in 2004.	24	jury what is the difference between a lump sum and a
25	Very different circumstances, different playing field.	25	running royalty? I don't want confusion later on.
	Page 825	23	Page 827
1	Q. And according to the numbers we're looking at, a	1	THE WITNESS: Okay. A lump sum would be
2	very different result, in your opinion, from no cash to	2	using the Sony/Anascape example, where Sony, for the
3	50 million.	3	'606 patent, got an exclusive right to practice the '606
4	A. Not a different result at all. I mean, the fact is	4	patent, put it in its products, and they wrote a check
5	they would negotiate the Sony deal for the '606	5	for \$10 million. That means they were no longer
6 7	patent was a very different situation, and the '700 patent hadn't issued when the Sony contract was	7	accountable, "they" Sony, to Anascape for any sales. They could sell zero, or they could sell billions of
8	negotiated; whereas, as of June, 2005, we have an issued	8	dollars of product. They wouldn't have to pay them a
9	patent. It's deemed to be valid and infringed for	9	penny more. They get one check.
10	purposes of the hypothetical negotiation.	10	A running royalty is if you negotiate
11	Q. Correct. And you, of course, are making that	11	up-front a running royalty, then a running royalty is if
12	assumption.	12	you sell product, you pay royalties. If you don't sell
13	A. What's that?	13	product, you don't pay royalties. So, one of the
14	Q. That it's valid and infringed.	14	advantages of a running royalty is if you're not sure
15	A. Yes. I'm required to make that assumption.	15	how much product you're going to sell or if you're going
16	Q. And if the jury decides that the patent is not	16	to sell it at all, you agree to a running royalty
17	infringed, then, of course, there would be no damages.	17	because then you don't have to pay anything if you don't
18	A. Oh, that's correct.	18	sell anything. There's no downside.
19	Q. And if the jury decides that the patent was not	19	THE COURT: Any further questions from
20	valid, there would be no damages.	20	plaintiff?
21	A. That's true.	21	MR. PARKER: No, sir.
22 23	Q. Thanks. Thank you very much.	22	THE COURT: From defendant?
1 / 4	MR. PARKER: Just a couple, your Honor.	23	MR. GERMER: No, your Honor.
		0/	
24 25		24 25	THE COURT: All right. You may step down, sir.

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	Page 841		Page 843
1 g	ames; is that correct?	1	Q. Now, there are three rollers depicted in this
-	A. Yes.	2	figure; is that correct?
3 (	2. Now, you said when you were developing the GameCube	3	A. Yes.
	ontroller, that it was important to keep the total cost	4	Q. So, from looking at the structure of this figure,
	elow 900 yen; is that correct?	5	if a user were to rotate the ball, then the rollers
	A. Yes.	6	could tell that the ball was moving; is that correct?
7 (	2. So, if the motor for the rumble feature was an	7	A. I believe so.
8 e	xpensive component, you could have saved a lot of money	8	Q. So, the rollers are used to detect rotational
	y not putting in the motor; is that correct?	9	movement of the ball; is that correct?
	A. Yes, I think so.	10	A. Yes.
11 (	2. Be despite the cost, Nintendo decided to include	11	Q. Now, the ball is surrounded by a cup-like structure
	he motor for the rumble feature; is that correct?	12	that has been labeled "16"; is that correct?
13 /	A. Yes.	13	A. Yes.
14 (	2. So, just so I understand you, by increasing the	14	Q. Can you tell from looking at the figure whether the
	umber or types of features on a controller, it affects	15	structure of the game controller allows it to sense the
16 t	he variety of games that software developers can	16	linear movement of the cup?
	reate; is that true?	17	A. Yes.
18 /	A. That potential exists.	18	Q. So, for instance, if you were to push down on the
19 (	2. If the C stick were mounted on the main circuit	19	cup toward the ball, then the structure labeled "22"
20 ł	oard, it would be taller than it is now; and it would	20	would move, as well; is that correct?
21 ł	e more difficult to use than it is right now; is that	21	A. Yes.
22 c	orrect?	22	Q. And in the same way, if you were to move the cup
23	A. That's correct.	23	back and forth, the controller is structured to sense
24 (	2. And if you could turn to Figure 2 of Exhibit 292,	24	that linear movement; is that correct?
<mark>25</mark> 1	vhich is the '700 patent.	25	A. Yes.
	Page 842		Page 844
	A. Yes.	1	Q. So, this is a 6-degree-of-freedom controller, isn't
2	<ul><li>A. Yes.</li><li>Q. Have you reviewed Figure 2 of Exhibit 292 before?</li></ul>	2	Q. So, this is a 6-degree-of-freedom controller, isn't it?
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2 3 4 5 6 7 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A. Yes.</li> <li>Q. Have you reviewed Figure 2 of Exhibit 292 before?</li> <li>A. As I said earlier, I hadn't done that prior to ooking at them after I had been contacted by the IP lepartment.</li> <li>Q. You have reviewed Figure 2 of this patent within he past year, correct?</li> <li>A. Yes.</li> <li>Q. Figure 2 of the '700 patent depicts a cross section of a game controller that is described by this patent; s that correct?</li> <li>A. Yes.</li> <li>Q. Now, in the middle of the figure, there is a circle hat has been labeled with the number "12"; is that correct?</li> <li>A. Yes.</li> <li>Q. What is that?</li> <li>A. It's a ball.</li> <li>Q. Okay.</li> <li>A. Sorry. It's a sphere.</li> <li>Q. Do you see a component in the figure that is abeled "124"?</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. So, this is a 6-degree-of-freedom controller, isn't it?</li> <li>A. Yes.</li> <li>Q. So, there are three rollers associated with the ball and each of those rollers would provide a separate output to some sort of computer unit associated with the controller; is that true?</li> <li>A. Yes.</li> <li>Q. So, conversely, the CPU receives three signals associated with the trackball that represent three axes of rotational movement; is that correct?</li> <li>A. Yes.</li> <li>Q. So, similarly, because the cup is movable on three linear axes, the cup would send three separate signals to the CPU, each one representing movement on a different linear axis; is that correct?</li> <li>A. Yes.</li> <li>Q. If you removed the cup from the controller depicted in Figure 2, you would not be able to sense movement on three linear axes; is that correct?</li> <li>A. No, you wouldn't.</li> <li>Q. But if you still had the trackball, you would still</li> </ul>
2 3 4 5 6 7 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>A. Yes.</li> <li>Q. Have you reviewed Figure 2 of Exhibit 292 before?</li> <li>A. As I said earlier, I hadn't done that prior to ooking at them after I had been contacted by the IP department.</li> <li>Q. You have reviewed Figure 2 of this patent within he past year, correct?</li> <li>A. Yes.</li> <li>Q. Figure 2 of the '700 patent depicts a cross section of a game controller that is described by this patent; s that correct?</li> <li>A. Yes.</li> <li>Q. Now, in the middle of the figure, there is a circle hat has been labeled with the number "12"; is that correct?</li> <li>A. Yes.</li> <li>Q. What is that?</li> <li>A. It's a ball.</li> <li>Q. Okay.</li> <li>A. Sorry. It's a sphere.</li> <li>Q. Do you see a component in the figure that is</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. So, this is a 6-degree-of-freedom controller, isn't it?</li> <li>A. Yes.</li> <li>Q. So, there are three rollers associated with the ball and each of those rollers would provide a separate output to some sort of computer unit associated with the controller; is that true?</li> <li>A. Yes.</li> <li>Q. So, conversely, the CPU receives three signals associated with the trackball that represent three axes of rotational movement; is that correct?</li> <li>A. Yes.</li> <li>Q. So, similarly, because the cup is movable on three linear axes, the cup would send three separate signals to the CPU, each one representing movement on a different linear axis; is that correct?</li> <li>A. Yes.</li> <li>Q. If you removed the cup from the controller depicted in Figure 2, you would not be able to sense movement on three linear axes; is that correct?</li> <li>A. No, you wouldn't.</li> </ul>

4 (Pages 841 to 844)

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	Page 845	Page 8	847
1 2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>A. Yes.</li> <li>Q. So, if you remove the cup, instead of six separate outputs being sent to the CPU, there would only be three outputs sent to the CPU, one representing each axis of rotational movement of the trackball; is that correct?</li> <li>A. Yes.</li> <li>Q. Now, conversely, if you did not remove the cup but you did remove the trackball, then you would still have a 3-degree-of-freedom controller except it would be able to measure linear movement on three axes and not rotational movement on three axes; is that correct?</li> <li>A. Yes.</li> <li>Q. If instead of having a trackball within a cup, if you had a controller with a trackball on one side and a</li> </ul>	<ol> <li>Q. And a game developer could use those six signals</li> <li>a similar way where a user could use the left trackbal</li> <li>to move one character on a screen and the user could</li> <li>the right trackball to move another character on the</li> <li>screen; is that correct?</li> <li>A. Yes.</li> <li>Q. So, if you would like to design a controller that</li> <li>produces six analog signals to transmit to a CPU, one</li> <li>way of doing it is like a controller structured here</li> <li>with a trackball found in a cup; is that correct?</li> <li>A. I think so.</li> <li>Q. Another way to create a controller that produces</li> <li>six analog signals to send to a CPU would be just to</li> <li>have two trackballs that each sent three analog signal</li> </ol>	ls in ll use
15 16 17 18 20 21 22 23 24 25	<ul> <li>movable cup on the other, you would still have a</li> <li>6-degree-of-freedom controller because you would have three axes of rotation through the trackball and three axes of linear movement through the cup; is that correct?</li> <li>A. Are you saying that on one hand you would have a cup but no ball and on the other hand you would have a ball with no cup?</li> <li>Q. Yes.</li> <li>A. Yes.</li> <li>Q. If you had this controller with a cup on one side</li> </ul>	<ul> <li>15 to the same CPU; is that correct?</li> <li>16 A. Yes.</li> <li>17 Q. Mr. Koshiishi, my name is Bob Gunther. I'm one</li> <li>18 Nintendo's attorneys, and I'm going to ask you some</li> <li>19 questions at this point in the deposition.</li> <li>20 I want to go first to the questioning that</li> <li>21 Mr. Garza had of you at the very end of the depositio</li> <li>22 before the break. And he showed you Figure 2 of the</li> <li>23 '700 patent, correct?</li> <li>24 A. Yes.</li> <li>25 Q. And then he asked you whether or not,</li> </ul>	on e
1	Page 846 and the trackball on the other, the CPU would still	Page 8	848
2	receive three analog signals representing three axes of		nad
3 4 5 6 7 8 9 10 11 12 13	<ul> <li>rotational movement and three analog signals</li> <li>representing three axes of linear movement; is that correct?</li> <li>A. Yes.</li> <li>Q. And software developers can use the signal sent to the CPU to program games on a television screen to do different things; is that correct?</li> <li>A. Yes.</li> <li>Q. So, for instance, if you had a trackball and a cup, a software developer could use the three analog signals</li> </ul>	<ul> <li>2 a cup on one side and a trackball on the other side,</li> <li>3 correct?</li> <li>4 A. Yes.</li> <li>5 Q. Is there any disclosure in the '700 patent that you</li> <li>6 are aware of of a controller that has a separate</li> <li>7 trackball on one side and a separate cup on the other</li> <li>8 side?</li> <li>9 A. No.</li> <li>10 Q. And he also gave you a hypothetical of a controll</li> <li>11 that would have two separate three-axis trackballs. D</li> <li>12 you recall that questioning?</li> <li>13 A Yes</li> </ul>	ı ler
4 5 7 8 9 10 11	<ul> <li>rotational movement and three analog signals</li> <li>representing three axes of linear movement; is that correct?</li> <li>A. Yes.</li> <li>Q. And software developers can use the signal sent to the CPU to program games on a television screen to do different things; is that correct?</li> <li>A. Yes.</li> <li>Q. So, for instance, if you had a trackball and a cup, a software developer could use the three analog signals from the trackball to move one character on a screen and use the three analog signals from the cup to move another character on the screen; is that correct?</li> <li>A. Yes.</li> <li>Q. So, instead of a controller with a cup and a trackball, if you had a controller with two trackballs, you would not have any signals representing linear movement; is that correct?</li> <li>A. I believe that's so.</li> <li>Q. But if you had two trackballs that were structured like the one in Figure 2, you could still send six</li> </ul>	<ul> <li>3 correct?</li> <li>4 A. Yes.</li> <li>5 Q. Is there any disclosure in the '700 patent that you</li> <li>6 are aware of of a controller that has a separate</li> <li>7 trackball on one side and a separate cup on the other</li> <li>8 side?</li> <li>9 A. No.</li> <li>10 Q. And he also gave you a hypothetical of a controll</li> <li>11 that would have two separate three-axis trackballs. D</li> </ul>	ı ler Do

5 (Pages 845 to 848)

	Page 869		Page 871
1	who wanted to purchase it separately?	1	about that?
2	A. Yes. The way it worked is there was a game called	2	Q. Sure. The Wii Remote has a pad that I've heard
3	"Star Fox" that involved manipulating a flying machine	3	referred to and I'll give you several alternatives
4	and the decision was made at Nintendo that vibration was	4	as a "D-pad" or a "direction pad" or a "cross pad" or a
5	necessary for that game and, so, we sold, as an option,	5	"plus key," all the same pad but it's been called all
6	a separate vibration pack.	6	those different names.
7	Q. And have you heard that referred to as the "Rumble	7	A. Yes. Now I understand what you're asking about.
8	Pak"?	8	Thank you very much. Yes, it has one.
9	A. Well, I'm sorry to say I don't know if it was ever	9	Q. Yes. And it has buttons, too, doesn't it?
10	referred to as "Rumble Pak." In Japan we referred to it	10	A. Yes, it has buttons.
11	as the "vibration pack."	11	Q. How many?
12	Q. Okay. Well, I'll be glad to call it "vibration	12	
13	pack."	13	trigger button that's on the backside of the Wii Remote,
14	Isn't it true, Mr. Ikeda, that Nintendo	14	then that would be if you're counting buttons used in
15	offered the vibration pack for sale in the United States	15	games, that would make seven buttons.
16	for the first time in 1997?	16	Then there's a button for turning on or off
17	A. I'm sorry to say I just don't know at what point it	17	the power supply. And then on the backside, there is
18	went on sale in the United States. The reason for that	18	another button for synchronizing wireless communication.
19	is at the time of the development of the Nintendo 64, I	19	So, there is a total of nine buttons on it.
20	was still working on development of cartridges for the	20	Q. Thank you. And the Wii Remote also uses an
21	Super NES; and, so, I really didn't have that much	21	accelerometer, correct?
22	information about the N64.	22	A. Yes. It includes an accelerometer an
23	Q. About how many years after the introduction of the	23	acceleration sensor.
24	N64 was the Rumble Pak made available for sale?	24	Q. The accelerometer detects movement of the Remote,
25	A. I'm very sorry. I just don't recall that, either.	25	correct?
	Page 870		Page 872
			2030 072
1	Q. Okay. Although rumble, or vibration, was not a	1	
1 2	Q. Okay. Although rumble, or vibration, was not a standard feature of the N64 controller, it is standard	1 2	A. Yes. When you wave the Remote, for example, it
	standard feature of the N64 controller, it is standard		A. Yes. When you wave the Remote, for example, it will detect that you have waved it.
2		2	A. Yes. When you wave the Remote, for example, it
2 3	standard feature of the N64 controller, it is standard in the GameCube controller, correct?	2 3	<ul><li>A. Yes. When you wave the Remote, for example, it will detect that you have waved it.</li><li>Q. What is inside the accelerometer that let's it do</li></ul>
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	Page 873		Page 875
1 2 3 4 5 6 7 8 9 10 11 12 12	little bit. We've been going along fine; but if some of these answers start getting fairly long, if he can break it up, you can translate, and then he can continue on, I think it would be easier. THE INTERPRETER: I would be happy to do that, your Honor. THE COURT: If you would tell him that, please. THE WITNESS: I have understood. MR. CAWLEY: Thank you. BY MR. CAWLEY: Q. The distance between the two probes in the accelerometer causes a change in the capacitance of the	13	<ul> <li>Q. And isn't it true that yet a different set of capacitors detect movement on the Z axis?</li> <li>A. Well, all of this is being measured with just one weight; whereas, the locations of the probes are different.</li> <li>Q. Okay. I'm not asking you about the weight or the probes; I'm asking you, sir, about the capacitors.</li> <li>A. In the same manner, there are capacitors that are for X, Y, and Z.</li> <li>Q. So, there are capacitors that sense movement in the X axis, correct?</li> <li>A. That's correct.</li> <li>Q. And there are capacitors that sense movement in the</li> </ul>
14 15 16 17 18 19 20	<ul> <li>static electricity, correct?</li> <li>A. That's correct.</li> <li>Q. And is this capacitor a sensor?</li> <li>A. I wouldn't think of each of the individual probes as sensors; but I would think of the assembly, the entire unit, as a sensor.</li> <li>Q. But I'm asking you Mr. Usada, about the probes and</li> </ul>	14 15 16 17 18 19 20	<ul> <li>Y axis, correct?</li> <li>A. That's correct.</li> <li>Q. Thank you, sir.</li> <li>A. And there are capacitors for the Z axis, as well.</li> <li>Q. Thank you even more. I appreciate that. You mentioned that the accelerometer has</li> </ul>
20 21 22 23 24 25	<ul> <li>Q. But I'm asking you, Mr. Ikeda, about the probes and actually the capacitors. Do you understand?</li> <li>A. I do understand what you're asking, but I just don't consider those parts to be sensors.</li> <li>Q. What senses the change in the capacitance of the static electricity caused by the relative movement of</li> </ul>	20 21 22 23 24 25	<ul> <li>three outputs, correct?</li> <li>A. That's correct.</li> <li>Q. Could these outputs be used by a game designer to control objects on the screen?</li> <li>A. It's possible to move objects. However, an accelerometer detects acceleration; so, all it can do is</li> </ul>
	Page 874		Page 876
1 2 3 4 5 6 7 8	the probes? A. There would be several probes that are detected. But what you get as an answer that is to say, what you get as output there are three outputs. THE COURT: Excuse me. Are you saying there were several "codes" or several "probes" that are detected? THE INTERPRETER: That was "probes," your	1 2 3 4 5 6 7 8	detect either a fast or a slow movement over a given distance. So, for that reason, if you want to for example, like moving a cursor on a personal computer, left and right and up and down, that would be a pretty tough thing to do using the accelerometers in the Wii Remote. In order to do that kind of cursor movement, there is a function known as the "pointer" that is included in the Wii Remote.
9 10 11	Honor. THE COURT: I'm sorry? THE INTERPRETER: "Probes." I'm sorry if I	9 10 11	Q. Thank you. But I'm not really asking you about cursor on a screen; so, let me rephrase my question. You're familiar with the game Mario Galaxy,
12 13 14 15 16	<ul><li>wasn't clear. THE COURT: Thank you.</li><li>BY MR. CAWLEY:</li><li>Q. Mr. Ikeda, isn't it true that one set of capacitors in the accelerometer is used to detect acceleration on</li></ul>	12 13 14 15 16	<ul><li>correct?</li><li>A. Yes, I know about that.</li><li>Q. Is there a place in that game where the Wii Remote can be used to make Mario jump onto a ball and to move the ball with his feet?</li></ul>
17 18 19 20 21 22	<ul><li>the X axis?</li><li>A. The X axis can be measured, as well. But at the same time, measurement can take place along the Y and Z axes.</li><li>Q. Yes, sir. That's my next question. Isn't it true that a different set of capacitors is used to detect</li></ul>	17 18	<ul> <li>A. Yes. Yes, it's as you said.</li> <li>Q. So, the Wii Remote can be used to move Mario and the ball, correct?</li> <li>A. Yes. You can make Mario jump.</li> <li>Q. And the Wii Remote, in addition to sensing movement in a direction, can also detect tilt, correct?</li> </ul>
23 24	acceleration on the Y axis? A. Yes, different capacitors and probes for the Y	23 24	A. Tilt, yes, off to the side. It can detect that, as well.

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	Page 877		Page 879
1 2 3 4 5 6 7 8 9 10 11 12 12	<ul> <li>acceleration, correct?</li> <li>A. It's done using gravity and also the acceleration that the person himself actually applies.</li> <li>Q. Now, when the Wii Remote creates the three outputs from the accelerometer let me start over again.</li> <li>That's not a good question.</li> <li>When the accelerometer creates the three</li> <li>outputs, Nintendo doesn't tell game designers what it must do with those outputs, does it?</li> <li>A. No, no. We don't have any requirements.</li> <li>Q. So, the game designer may choose to use those three outputs in any way the designer wishes, correct?</li> <li>A. That's correct.</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>saying is go in a particular direction.</li> <li>Q. Thank you. And I'm not asking you anything about the precision of the character's movement. My question to you is very simple. Can a game designer choose to use the output of the accelerometer to move a character on the screen?</li> <li>A. Yes. You can do a simple motion, like a jump.</li> <li>Q. Could a game</li> <li>A. You can also indicate to Mario, once he's on the ball, which way to go.</li> <li>Q. Thank you.</li> <li>Could the game designer choose to use the output of the accelerometer to move objects on the</li> </ul>
14 15 16 17 18 20 21 22 23 24 25	<ul> <li>Q. And those outputs could be used to control the movement of people or characters, correct?</li> <li>A. As I said before, an accelerometer measures acceleration. So, it's not like using a mouse and making a precise motion on the screen. But you can use it, say, if you want to use it it's not something that you can follow a precise movement with; but you can use it as an instruction to, say, deliver a punch or swing a racket or swing a bat.</li> <li>Q. Well, you've already testified, Mr. Ikeda, that in Mario Galaxy it can be used to move Mario, correct?</li> <li>A. Yes. As I said, if you're having Mario jump,</li> </ul>	14 15 16 17 18 19 20 21 22 23 24 25	<ul> <li>screen?</li> <li>A. Well, just the way you can move Mario, if you had a ball-like character, you could move that ball in the same way.</li> <li>Q. Could a game designer choose to use the output of the accelerometer to change the player's point of view on the screen?</li> <li>A. I think so.</li> <li>Q. Thank you, sir. <ul> <li>Now, you've used a mouse before, haven't you?</li> </ul> </li> <li>A. Yes, I have.</li> <li>Q. And you've used a trackball before?</li> </ul>
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>Page 878</li> <li>you're applying acceleration in the direction in which you want Mario to jump.</li> <li>Q. So</li> <li>A. But you cannot say to Mario, "Okay, I want you to jump exactly a distance that is three times your height."</li> <li>Q. Okay. I thank you for that. But my question was, just to make sure we completely understand, then: You agree it is possible for a game designer to use the output of the accelerometer to control a character?</li> <li>A. Well, I may not have a complete understanding of how you're using the word "control"; but you cannot use it in order to make the character move precisely in accordance with the will of the game player in accordance with his intentions. And the reason for that is an accelerometer can detect the direction in which acceleration takes</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>Page 880</li> <li>A. Yes, I have used one.</li> <li>Q. When you move the trackball, the trackball senses rotational movement, correct?</li> <li>A. Yes. The portion that comes into contact with the trackball detects rotational movement.</li> <li>Q. However, the cursor or pointer on the screen moves linearly, or in a line, in response to the rotational movement of the trackball, correct?</li> <li>A. Yes. It moves linearly, but I think what it's doing is there is some kind of parameter that is used to transform or to convert the rotational movement into linear movement.</li> <li>Q. Yes, sir. So, what you've just said is that when you use a trackball with a computer, the rotational movement of the trackball is translated into linear movement on the computer screen, correct?</li> <li>A. That's right.</li> </ul>
17 18 19 20 21 22 23	<ul> <li>can detect the direction in which acceleration takes</li> <li>place, but it cannot determine how much motion.</li> <li>Q. You remember in Mario Galaxy, Mr. Ikeda, that once</li> <li>Mario jumps on the ball, he can move the ball in</li> <li>different directions by the player using the Wii Remote</li> <li>accelerometer?</li> <li>A. Yes. That, you can do; and that's because the</li> </ul>	17 18 19 20 21 22 23	<ul> <li>A. That's right.</li> <li>Q. Thank you, Mr. Ikeda. MR. CAWLEY: I'll pass the witness, your</li> <li>Honor. THE COURT: Ladies and gentlemen, we're going to go ahead and take a break. I will ask you to be back at quarter past.</li> </ul>

13 (Pages 877 to 880)

	Page 881		Page 883
1	past.	1	hours by car.
2	(Recess, 10:57 a.m. to 11:20 a.m.)	2	Q. Now, back in January of this year, you had your
3	(Open court, all parties present, jury	3	deposition taken in Japan, correct?
4	present.)	4	A. That's correct.
5	THE COURT: Counsel?	5	Q. And that was a deposition that was taken by the
6	MR. GUNTHER: Thank you, your Honor.	6	Anascape lawyers in this case; is that right?
7	CROSS-EXAMINATION OF AKIO IKEDA	7	A. That's correct.
8	BY MR. GUNTHER:	8	Q. Now, had you ever had your deposition taken before?
9	Q. Mr. Ikeda, I'd like to start out Anascape's	9	A. No, I never have.
10	counsel asked you some questions about what you were	10	Q. And this may have been covered, but just to make
11	doing during the development of the Wii Remote, but I	11	sure: Have you ever testified in a trial like this
12	want to ask you: What's your position right now at	12	before?
13	Nintendo?	13	A. No. This is my first time.
14	A. I am the group manager of the second development	14	Q. Can you tell us your educational background?
15	group in Nintendo's integrated development department.	15	A. I attended a Japanese university known as Aoyama,
16	Q. Now, sir, do you speak any English?	16	A-O-Y-A-M-A, Gakuin, G-A-K-U-I-N; and I graduated from
17	A. I can more or less read and write and understand		the department of electrical and electronic engineering.
18	what's said; but when it comes to speaking, I only can		Q. What year did you graduate?
19	say just a few words.	19	A. I graduated in March of 1993.
20	And because I want to be exact in what I say,		Q. And, sir, are you a degreed electrical engineer?
21	I'm wanting to be able to use my native language when I	21	A. That's correct.
22	testify.	22	MR. GUNTHER: Your Honor, could I just ask
23	Q. Thank you.	23	Mr. Taylor to move the mic a little bit closer to him
24	Now, I want to ask you a few questions about	24	when he's answering? I'm just from standing back
25	your background. Where were you born?	25	here, it's a little bit faint.
	Page 882		Page 884
1	A. I was born in Yamaguchi Prefecture in Japan.	1	THE INTERPRETER: So, you would like to hear
2	Q. And, sir, how old are you?	2	my answers more loudly?
3	A. I'm 39.	3	MR. GUNTHER: If possible, Mr. Taylor.
4	Q. And, sir, have you lived in Japan your whole life?	4	THE WITNESS: All right.
5	A. Yes. Ever since I was born, I've lived entirely in	5	THE COURT: Let me just suggest that you just
6	Japan.	6	move it back and forth between the two of you. It may
7	Q. Have you ever been to the United States before?	7	make it a little easier.
8	A. Yes. I've been in Los Angeles I've been to Los	8	THE INTERPRETER: All right.
9	Angeles once, and last year I went to Honolulu.	9	BY MR. GUNTHER:
10	Q. Have you ever been to Texas before?	10	Q. When did you join Nintendo, Mr. Ikeda?
11	A. This is my first trip.	11	A. I joined Nintendo in April of 1993.
12	Q. So, what do you think of Texas?	12	Q. And was that right after you got out of college?
13	A. I'm impressed by how green Texas is and how good	13	A. Yes. I joined the company the very next month
14	the food is. It seems like a very nice place. Also,	14	after I graduated.
15	there is a Nintendo software called Metroid; and I had	15	Q. Thank you.
16	heard that that had been jointly developed by Nintendo	16	Your current position, you've testified, is
17	and with a Texas company. So, in that sense, I had some	17	manager of the Development Number 2 group. Can you tell
18	notion of Texas.	18	us what that does and how many people you supervise
19	Q. Thank you. Now, did you come here from Japan to	19	currently?
20	testify in this case?	20	A. Well, first of all, the number in the group,
21	A. That's correct.	21	including myself, there are 21. As for the work that we
22	Q. How long did it take you to get here?	22	do, it involves the Wii console, the Remote control, the
23	A. From Japan's Narita N-A-R-I-T-A, airport to Houston	23	Wii Fit. We are involved in the electronic design for
24	airport, it took 12 hours by plane. Then to come from	24	this and for peripherals, as well.
25	the Houston airport to Lufkin, here, that took about 2	25	Q. Now, before you were manager of the Development

14 (Pages 881 to 884)

	Page 885		Page 887
1 2 3 4 5 6 7	<ul><li>Group Number 2, what was your responsibilities? What did you do at Nintendo?</li><li>A. Until July of last year, I was group manager of Development Group Number 5 that specializes in the design of user interfaces.</li><li>Q. And, sir, while you were working in that position, did you work on the development of the Wii Remote?</li></ul>	1 2 3 4 5 6 7	A. It was around 1999. There was a planning meeting, and the purpose of the planning meeting was to decide whether or not we could do a combination of a Game Boy cartridge with a certain kind or kinds of sensor to come up with something that was particularly enjoyable. And at that meeting someone proposed that an accelerometer be combined with a Game Boy cartridge; and, so, I became
<mark>8</mark> 9	A. Yes. It was in Development Group Number 5 that I did development work for the Remote control for the Wii,	8 9	involved in the work of doing that combination. I was chosen to be the main person to handle this design work.
10	the Wii Classic, and the Wii Nunchuk.	10	Q. And, sir, the cartridge that you have in your hand,
11	Q. What were your general responsibilities while you	11	is that meant to fit into the Game Boy system?
12	were doing that design and development work for the Wii	12	A. Yes. The way you use this cartridge, you push
13	controllers?	13	it you insert it (demonstrating) into the Game Boy
14	A. They were various functions. One would have been,	14	Advance.
15 16	say, the accelerometer sensor, that portion; then the wireless. That would be Bluetooth. All of these	15 16	Q. And then can you describe for us we're not going to actually show the game, but can you describe for us
17	various functions, there was someone actually working on	17	how that game works and how the accelerometer
18	that, handling the work. I was managing that work and	18	contributes to the play of the game?
19	ensuring its progress; but at the same time, there was	19	A. Well, there's a character named "Kirby" who appears
20	some actual development work that I handled myself in	20	in this game. He's round, a rather ball-like character.
21	addition to my management work.	21	And if you take the console of the Game Boy
22	Q. Now, sir, are you a named inventor on any patents	22	Advance and you tilt it, then this round Kirby
23 24	as a result of your work at Nintendo?	23 24	character, he will roll in that direction like a ball.
24	<ul><li>A. Yes, I am.</li><li>Q. And can you tell us approximately how many patents</li></ul>	24 25	I'll just show you (demonstrating). I'll give you an example of just what sort of action that
	Page 886	23	Page 888
1	you've been named as an inventor on based on your work	1	
2	at Nintendo?	1 2	<ul><li>would be. You operate it like this (demonstrating).</li><li>Q. Now, when you were operating the Game Boy with the</li></ul>
3	A. Including applications filed in the United States,	3	Kirby cartridge in it, were you pressing buttons to make
4	it would be approximately eight patents.	4	the Kirby character move around?
5	Q. Thank you.	5	A. Well, if you you had to push a button, for
6	Now, sir, were you involved what was the	б	example, to start the game or something like that. But
7	first time that you were involved in the development of	7	for actually moving Kirby, you did that only by tilting
8 9	a video game that involved an accelerometer?	8	
	A The first time I was involved in a game that had	9	and turning. $\Omega$ And sir can you tell us how the accelerometer
	A. The first time I was involved in a game that had anything to do with an accelerometer was in developing a	9 10	Q. And, sir, can you tell us how the accelerometer
10 11	anything to do with an accelerometer was in developing a		Q. And, sir, can you tell us how the accelerometer factored into what you would see on the screen in terms
10		10 11	Q. And, sir, can you tell us how the accelerometer
10 11 12 13	anything to do with an accelerometer was in developing a Game Boy cartridge called "Tilt 'n Tumble," Kirby. MR. GUNTHER: Your Honor, may I approach with a demonstrative exhibit?	10 11	<ul><li>Q. And, sir, can you tell us how the accelerometer factored into what you would see on the screen in terms of the movement of the ball-like Kirby character?</li><li>A. When the player tilts the Game Boy, as a result of that tilting, an acceleration is generated. What the</li></ul>
10 11 12 13 14	anything to do with an accelerometer was in developing a Game Boy cartridge called "Tilt 'n Tumble," Kirby. MR. GUNTHER: Your Honor, may I approach with a demonstrative exhibit? THE COURT: All right. You may approach.	10 11 12 13 14	<ul><li>Q. And, sir, can you tell us how the accelerometer factored into what you would see on the screen in terms of the movement of the ball-like Kirby character?</li><li>A. When the player tilts the Game Boy, as a result of that tilting, an acceleration is generated. What the accelerometer does is detect the direction in which the</li></ul>
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10 11 12 13 14 15 16	anything to do with an accelerometer was in developing a Game Boy cartridge called "Tilt 'n Tumble," Kirby. MR. GUNTHER: Your Honor, may I approach with a demonstrative exhibit? THE COURT: All right. You may approach. MR. GUNTHER: Thank you, your Honor. BY MR. GUNTHER:	10 11 12 13 14 15 16	<ul><li>Q. And, sir, can you tell us how the accelerometer factored into what you would see on the screen in terms of the movement of the ball-like Kirby character?</li><li>A. When the player tilts the Game Boy, as a result of that tilting, an acceleration is generated. What the accelerometer does is detect the direction in which the tilt took place, and it sends a signal to the console of the Game Boy Advance. By tilting the Game Boy Advance</li></ul>
10 11 12 13 14 15 16 17	<ul> <li>anything to do with an accelerometer was in developing a Game Boy cartridge called "Tilt 'n Tumble," Kirby.</li> <li>MR. GUNTHER: Your Honor, may I approach with a demonstrative exhibit?</li> <li>THE COURT: All right. You may approach.</li> <li>MR. GUNTHER: Thank you, your Honor.</li> <li>BY MR. GUNTHER:</li> <li>Q. Mr. Ikeda, I've handed you two objects. Can you</li> </ul>	10 11 12 13 14 15 16 17	<ul><li>Q. And, sir, can you tell us how the accelerometer factored into what you would see on the screen in terms of the movement of the ball-like Kirby character?</li><li>A. When the player tilts the Game Boy, as a result of that tilting, an acceleration is generated. What the accelerometer does is detect the direction in which the tilt took place, and it sends a signal to the console of the Game Boy Advance. By tilting the Game Boy Advance console right, left, forward, and back, what you have in</li></ul>
10 11 12 13 14 15 16	<ul> <li>anything to do with an accelerometer was in developing a Game Boy cartridge called "Tilt 'n Tumble," Kirby.</li> <li>MR. GUNTHER: Your Honor, may I approach with a demonstrative exhibit?</li> <li>THE COURT: All right. You may approach.</li> <li>MR. GUNTHER: Thank you, your Honor.</li> <li>BY MR. GUNTHER:</li> <li>Q. Mr. Ikeda, I've handed you two objects. Can you tell us what they are?</li> </ul>	10 11 12 13 14 15 16	Q. And, sir, can you tell us how the accelerometer factored into what you would see on the screen in terms of the movement of the ball-like Kirby character? A. When the player tilts the Game Boy, as a result of that tilting, an acceleration is generated. What the accelerometer does is detect the direction in which the tilt took place, and it sends a signal to the console of the Game Boy Advance. By tilting the Game Boy Advance console right, left, forward, and back, what you have in here is an accelerometer that detects on two axes.
10 11 12 13 14 15 16 17 18	<ul> <li>anything to do with an accelerometer was in developing a Game Boy cartridge called "Tilt 'n Tumble," Kirby.</li> <li>MR. GUNTHER: Your Honor, may I approach with a demonstrative exhibit?</li> <li>THE COURT: All right. You may approach.</li> <li>MR. GUNTHER: Thank you, your Honor.</li> <li>BY MR. GUNTHER:</li> <li>Q. Mr. Ikeda, I've handed you two objects. Can you</li> </ul>	10 11 12 13 14 15 16 17 18	<ul><li>Q. And, sir, can you tell us how the accelerometer factored into what you would see on the screen in terms of the movement of the ball-like Kirby character?</li><li>A. When the player tilts the Game Boy, as a result of that tilting, an acceleration is generated. What the accelerometer does is detect the direction in which the tilt took place, and it sends a signal to the console of the Game Boy Advance. By tilting the Game Boy Advance console right, left, forward, and back, what you have in</li></ul>
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10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>anything to do with an accelerometer was in developing a Game Boy cartridge called "Tilt 'n Tumble," Kirby.</li> <li>MR. GUNTHER: Your Honor, may I approach with a demonstrative exhibit?</li> <li>THE COURT: All right. You may approach.</li> <li>MR. GUNTHER: Thank you, your Honor.</li> <li>BY MR. GUNTHER:</li> <li>Q. Mr. Ikeda, I've handed you two objects. Can you tell us what they are?</li> <li>A. This is a Game Boy Advance SP.</li> <li>And what we have, this pink item here, this is the Kirby Tilt 'n Tumble cartridge (indicating). And it may be a little hard to make out; but here up in the</li> </ul>	10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. And, sir, can you tell us how the accelerometer factored into what you would see on the screen in terms of the movement of the ball-like Kirby character?</li> <li>A. When the player tilts the Game Boy, as a result of that tilting, an acceleration is generated. What the accelerometer does is detect the direction in which the tilt took place, and it sends a signal to the console of the Game Boy Advance. By tilting the Game Boy Advance console right, left, forward, and back, what you have in here is an accelerometer that detects on two axes.</li> <li>Q. Okay. Sir, where did the accelerometer that's in the Kirby Tilt 'n Tumble cartridge, is that made by Nintendo?</li> <li>A. No. Nintendo doesn't manufacture it. We purchase</li> </ul>

15 (Pages 885 to 888)

	Page 889		Page 891
1	idea that came from Analog Devices?	1	MR. GUNTHER: Thank you.
2	A. No. The idea of putting an accelerometer into the	2	Mr. Taylor, do you want to turn on the
3	cartridge, that was a Nintendo idea.	3	microphone?
4	Q. Had any company, to your knowledge, ever done	4	THE INTERPRETER: I see.
5	anything like that before, any video game company?	5	MR. GUNTHER: I think there is a switch on
6	A. I certainly don't know anything that was out as a	6	there. You might have to take it out.
7	product like that.	7	BY MR. GUNTHER:
8	Q. Thank you.	8	Q. Mr. Ikeda, can you actually start the game? And if
9	Now, sir, I want to talk for a moment about	9	you could demonstrate and maybe talk a little bit, as
10	the Nintendo 64. You were asked some questions about	10	you're playing, about what you're doing.
11	that system by Anascape's counsel.	11	THE COURT: Stop one minute.
12	A. All right.	12	MR. GUNTHER: Yes, sir.
13	Q. Now, sir, are you familiar with the Nintendo 64	13	THE COURT: I think you're going to need to
14	system?	14	stand a little closer because he's going to need to talk
15	A. Yes. I have used the Nintendo product.	15	into the microphone, also. Or else you're going to have
16	Q. What kind of graphics does the Nintendo 64 have?	16	to move off to the podium so he can talk into the
17	A. These are characters that are displayed on the	17 18	microphone. One way or the other, Mr. Ikeda and the interpreter have to have access to a microphone.
18 19	television screen. What's distinctive about it is that these are characters that appear to have depth.	19	MR. GUNTHER: Understood, your Honor. What I
20	Q. And when you say they appear to have depth, are	20	will do is I'm going to give him this microphone; and to
21	they 2-D characters or are they 3-D characters or	21	the extent I have to ask a question, I will talk really
22	something else?	22	loud.
23	A. The general way of referring to them would be to	23	THE COURT: Or you can bend it back towards
24	say that these are 3-D graphics.	24	yourself.
25	Q. Now, sir, I'm holding this device up. Do you know	25	Why don't you bend it towards him now.
	Page 890		Page 892
1	what this is?	1	MR. GUNTHER: Yes, sir.
2	A. Yes. What you have in your hand is a Nintendo 64	2	A. I will explain using this microphone. I'd like to
3	controller.	3	start the game right away.
4	Q. And is that a 3-D graphics controller, Mr. Ikeda?	4	BY MR. GUNTHER:
5	A. I think it is a controller for operating	5	Q. Are you controlling the game right now?
6	three-dimensional characters.	6	A. No. I'm not yet operating it.
7	Q. Thank you.	7	Q. Tell us when you actually start to operate the
8	Now, sir, are you familiar with the game	8	game.
9	Nintendo Super Mario 64?	9	A. Now I've started operating Mario. I'm using the
10	A. Yes. I've played with it just a little.	10	analog stick on this controller to go left and to go
11	Q. Okay.	11	right. There appears to be a castle up ahead; so, I'm
12	MR. GUNTHER: With your Honor's permission,	12	going in that direction. The way I'm doing that, I'm
13	we would like to ask Mr. Ikeda to make a short	13	moving forward by taking this analog stick and pressing
14 15	demonstration of the Nintendo 64 3-D video game with the Super Mario 64	14 15	it forward. Q. Now, let me ask you: Is this a 2-D game or a 3-D
15 16	Super Mario 64. THE COURT: All right.	16	game, this Mario 64?
17	BY MR. GUNTHER:	17	A. I think it's a 3-D game.
18	Q. Mr. Ikeda, I'm going to ask you, if you can, to	18	Q. Why do you say that?
19	step down towards me. We have a game set up, and we're	19	A. Well, for example, when I go up the stairs and
20	going to ask you to play just a little bit of Super	20	here I'm by the banister. By moving the camera angle, I
21	Mario 64 on the Nintendo 64 system.	21	can look at it from different points of view.
22	A. May I step forward?	22	Also, I can move in towards the depth of
23	Q. Yes.	23	what's on the screen; or I can move back out towards
24	MR. GUNTHER: Is that okay, your Honor?	24	out of the screen.
25	THE COURT: Yes.	25	Q. When you change the camera angle, what features on

16 (Pages 889 to 892)

	Page 893		Page 895
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 16 17 10	<ul> <li>the controller do you use to do that?</li> <li>A. I'll show you now (indicating). I use the yellow buttons here to change the angle, the camera angle, and to zoom in or zoom out.</li> <li>Here where you have this sort of 3-D effect, it's tricky to actually get on there; and, so, I'm going to change the angle to make it easier. Uh-oh. I failed.</li> <li>Q. Just show us just a little bit more of the game to get the idea of the 3-D nature of the game, please.</li> <li>A. Well, then I'll just continue playing the game here.</li> <li>Q. Okay, Mr. Ikeda. Thank you very much for that. I have one more question just on this game and this system, the Nintendo 64 system. In terms of time, was this system out before or after MR. CAWLEY: Your Honor, this is precisely</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>Q. Did you use anything from Mr. Armstrong's '700 patent while you were developing any of the Wii controllers?</li> <li>A. No. Not in any controller.</li> <li>Q. To your knowledge, did anyone on the team that was working with you in developing the Wii Remote, the Wii Nunchuk, and the Wii Classic Controllers use anything from Mr. Armstrong's '700 patent?</li> <li>A. No. I don't think that happened.</li> <li>Q. Now, sir, can you tell me how you got involved in developing the Wii controllers and specifically the Wii Remote?</li> <li>A. First of all, it was in May of 2003 that I moved to the department where I now find myself; that is to say, the integrated research department. Within that department, a user interface planning team was established; and I was chosen as a</li> </ul>
18 19 20 21 22 23	the matter that your Honor ruled on at the beginning of the trial in relation to the revision of certain demonstratives. THE COURT: Sustained. BY MR. GUNTHER: Q. Mr. Ikeda, why don't you retake the witness stand,	18 19 20 21 22 23	member of that team. Then a Wii user interface planning team was put together, and ideas were exchanged within that team. Within that team, I came up with a number of different ideas for controllers; and I was made the leader of that planning team. And later on, by combining pointer technology with accelerometers, I was
24 25	if you could. MR. GUNTHER: And for the record, while the	24 25	able to achieve the kind of control that is used in the Wii Remote control.
	Page 894		Page 896
	<ul> <li>interpreter is getting seated, the exhibits that we've</li> <li>been using, the Wii console sorry the Nintendo 64</li> <li>controller is Defendant's Exhibit 118. The Nintendo 64</li> <li>console is Defendant's Exhibit 120. And the Super Mario</li> <li>64 cartridge is Defendant's Exhibit 121.</li> <li>BY MR. GUNTHER:</li> <li>Q. If I could turn back to the Wii controllers,</li> <li>Mr. Ikeda.</li> <li>Now, sir, you understand that the reason</li> <li>we're here is that Anascape is accusing the Wii Remote,</li> <li>when used with either the Wii Nunchuk or the Wii</li> </ul>	11	<ul> <li>Q. Let me just ask you this, because I want to make sure that we're clear on this. Who at Nintendo had the idea of putting an accelerometer in the Wii Remote?</li> <li>A. I was the one who pushed that idea.</li> <li>Q. Now, sir, let me, if I can MR. GUNTHER: Your Honor, may I approach? THE COURT: You may.</li> <li>BY MR. GUNTHER:</li> <li>Q. I'm handing you a Wii Remote.</li> <li>A. Yes.</li> <li>Q. Are there any other features in the Wii Remote that</li> </ul>
12 13 14 15 16 17 18 19 20 21 22 23 24 25	<ul> <li>Classic, of infringing Mr. Armstrong's '700 patent; is that correct?</li> <li>A. Yes, I understand that.</li> <li>Q. Now, sir, during the time that you were developing the Wii Remote, had you ever heard of Mr. Brad Armstrong?</li> <li>A. No, I had not.</li> <li>Q. Had you ever met him before?</li> <li>A. No.</li> <li>Q. Do you know whether he's here in this courtroom?</li> <li>A. No, I don't know.</li> <li>Q. Now, sir, had you ever heard of Mr. Armstrong's '700 patent anytime before this lawsuit was filed?</li> <li>A. No, I had not.</li> </ul>	13 14 15 16 17 18 19 20 21	<ul> <li>you were primarily responsible for, in terms of the idea?</li> <li>A. I was the one who found the pointer technology.</li> <li>Q. And, sir, can you tell us what you mean by "the pointer technology" and show us where that is resident in the Wii Remote?</li> <li>A. The pointer is actually mounted right here (indicating), at the end of right here in the end.</li> <li>Q. I'm sorry. Could you</li> <li>A. As for the functions of the pointer, there is a kind of camera contained here (indicating). However, it's not like your ordinary digital camera that can take pretty pictures. This is a camera that can is sensitive only to certain kinds of light.</li> </ul>

17 (Pages 893 to 896)

	Page 937		Page 939
1	console. When the console receives that signal, the	1	boxing game.
2	console then recognizes that the player has gone through	2	Could you tell us how you do that and what
3	the action of throwing the ball.	3	you need in terms of the controllers to do that?
4	Q. Why don't you try to pick up the spare.	4	A. First of all, by using the pointer, I'd like to
5	A. I'll do my best. This time I'm going to try to	5	switch over to the boxing game. Again, because I'm a
6	throw a quick ball.	6	single player, I choose the Number 1; and, also, I will
7	(Demonstrating.) I'm very sorry.		stay as the same character.
8	Q. This will be the last one. Give me one more try.	8	Here comes up a screen that says to play this
9	See if you can get a strike. No pressure.	9	game, you need to use the Nunchuk controller. And, so,
10	A. (Demonstrating.)	10	I will would it be okay if I use the controller
11	Q. Would you like to demonstrate quickly another game	11	that's right there?
12	for us?	12	Q. There you go.
13	A. Using the pointer, I get out of the bowling game.	13	A. In the bottom of the Remote, there is this
14	Next, I'd like to explain the baseball game.	14	extension connector here; and, so, that's where I'm
15	Again, because I'm playing it just by myself, I will	15	going to connect the Nunchuk.
16	select the Number 1. And I'm going to use the same	16	Q. Now, before you get going because you're playing
17	character as before.	17	against the computer, aren't you?
18	In this case you don't use the buttons on the	18	A. That's right.
19	Remote at all. Just by swinging the Remote, that makes	19	Q. Are you blue gloves or red gloves?
20	the bat swing (demonstrating).	20	A. I've got the blue gloves. And where you can see my
21	The game is about to begin, and I'm the	21	opponent's face, that is the computer.
22	batter. All you have to do to operate it is to just	22	Q. All right. So, now if you can do a little boxing
23	swing the Remote, as you saw (demonstrating). And you	23	for us and describe, as you're doing it, how you're
24	don't even have to swing it very hard. You can swing it	24	using the Wii Remote and the Wii Nunchuk.
25	quite lightly.	25	A. (Demonstrating.) For both the Nunchuk and the
	1		
	Page 938		Page 940
1	Page 938	1	Page 940 Page 940
1	Q. Again, if you can tell us, as you're the next	1	Remote control, when you thrust it forward, you get a
2	Q. Again, if you can tell us, as you're the next batter sorry. I distracted you. As you're doing	2	Remote control, when you thrust it forward, you get a punch. You thrust the Remote forward, you get a punch;
2 3	Q. Again, if you can tell us, as you're the next batter sorry. I distracted you. As you're doing that, can you tell us again how the accelerometer enters	2 3	Remote control, when you thrust it forward, you get a punch. You thrust the Remote forward, you get a punch; likewise with the Nunchuk.
2 3 4	Q. Again, if you can tell us, as you're the next batter sorry. I distracted you. As you're doing that, can you tell us again how the accelerometer enters into what's happening?	2 3 4	Remote control, when you thrust it forward, you get a punch. You thrust the Remote forward, you get a punch; likewise with the Nunchuk. Also, if you apply acceleration to the left
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28 (Pages 937 to 940)

	Page 1001		Page 1003
1	MR. GUNTHER: Your Honor, may I make a brief	1	for its products?
2	interim statement?	2	A. From what I understand I've been at Nintendo for
3	THE COURT: You may.	3	a long time; so, I haven't experienced the return rates
4	MR. GUNTHER: Ladies and gentlemen,	4	at other companies. But I've been to return seminars
5	Mr. Pederson is going to testify. He's a senior	5	and heard of other companies' return rates. Ours are at
6	director of technical services at Nintendo of America in	6	2 percent or less; and many other companies are higher
7	Redmond, Washington; and he's going to talk a little bit	7	than that, much higher.
8	about the video game controllers. He's also going to	8	Q. Now, sir, are you familiar with the Nintendo
9	talk a little bit about his background at Nintendo.	9	products that the Nintendo products that are sold and
10	He's been there for quite awhile, and he can tell you a	10	have been sold historically and how they work?
11	number of things about how the company got started.	11	A. Yes.
12	One of the things he is going to tell you	12	Q. And what's your basis of knowledge of those
13	and I had mentioned this in my opening statement is	13	products?
14	how Donkey Kong got its name.	14	A. Well, I need to understand how the products work so
15	MR. CAWLEY: Your Honor, I hate to interrupt;	15	that we can properly service the products, correct any
16	but I'm told that there are some objections on	16	problem that exists.
17	demonstratives that haven't been addressed yet. I don't	17	Q. Now, sir, do you, yourself, get involved in
18	know if we will reach those before the next break or	18	actually developing Nintendo's video game products?
19	not, but I wanted to let the court know.	19	A. No, I do not.
20	THE COURT: The objections are overruled.	20	Q. Now, let me ask a few questions about your
21	MR. CAWLEY: Thank you, your Honor.	21	background and how you came to work at Nintendo. Can
22	DIRECT EXAMINATION OF JOHN PEDERSON	22	you please describe for us your educational background
23	CALLED ON BEHALF OF THE DEFENDANT	23	starting with high school?
24	BY MR. GUNTHER:	24	A. I went to Roosevelt High School in north Seattle
25	Q. Mr. Pederson, could you please introduce yourself	25	and graduated in 1974, and then I went on to North
	Page 1002		Page 1004
1	to the jury.	1	Seattle Community College and received an Associate of
2	A. My name is John Pederson, and I'm the senior	2	Applied Science Degree in Electronics Engineering
3	director of technical services at Nintendo of America.	3	Technologies in '76.
4	Q. And how long have you worked at Nintendo of	4	Q. That was in 1976? Let me just focus on that. That
5	America?	5	was an associate's degree, you said?
6	A. Since June of 1981.	<u> </u>	was all associate's degree, you said?
7		6	A. Correct.
	Q. June of 1981, you said?		<ul><li>A. Correct.</li><li>Q. And how many years did you take that degree?</li></ul>
8	Q. June of 1981, you said? A. Correct.	6 7 8	<ul><li>A. Correct.</li><li>Q. And how many years did you take that degree?</li><li>A. Two years.</li></ul>
8 9	<ul><li>Q. June of 1981, you said?</li><li>A. Correct.</li><li>Q. Now, sir, was Nintendo of America a large company</li></ul>	6 7 8 9	<ul><li>A. Correct.</li><li>Q. And how many years did you take that degree?</li><li>A. Two years.</li><li>Q. Okay. And, sir, do you have any formal education</li></ul>
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1	Page 1025		Page 1027
	Nunchuk the Remote, Defendant's Exhibit 167; and the	1	works for Nintendo Company Limited, right?
2	Nunchuk, Defendant's Exhibit 162.	2	A. That's my understanding, yes.
3	Thank you, your Honor.	3	Q. In Japan.
4	THE COURT: Mr. Cawley?	4	And Ms. Story, who testified just before you,
5	MR. CAWLEY: Thank you, your Honor. May I	5	works for Nintendo of America, correct?
6	pull the easel over?	6	A. Yes.
7	THE COURT: Please.	7	Q. And you work for Nintendo of America.
8	And while you're doing that, Mr. Gunther, did	8	A. Correct.
9	you say one of those is Plaintiff's Exhibit 118?	9	Q. And it's Nintendo of America that is the defendant
10	MR. GUNTHER: No, your Honor. I'm sorry. I	10	in this lawsuit and that is accused of infringing the
11 12	may have misspoken. Let me take a look.	11 12	'700 patent; is that correct?
13	Your Honor, it's very possible I misspoke. THE COURT: Okay.	13	A. I'm not that familiar with the paperwork in the case, I guess.
$14^{13}$	MR. GUNTHER: I meant to say Defendant's	14	
15	Exhibit 118.	15	Q. Fair enough. I think there will be plenty of other sources from which we can confirm that it's Nintendo of
16	THE COURT: All right.	16	America that's the defendant in the lawsuit.
17	MR. GUNTHER: Thank you, sir.	17	Now, your job is essentially to oversee the
18	MR. CAWLEY: May I proceed, your Honor?	18	service of Nintendo products for consumers and
19	THE COURT: Please.	19	retailers, correct?
20	MR. CAWLEY: Thank you.	20	A. Correct.
21	CROSS-EXAMINATION OF JOHN PEDERSON	21	Q. And you didn't design any of the controllers that
22	BY MR. CAWLEY:	22	you just told us about, did you?
23	Q. Good afternoon, Mr. Pederson.	23	A. No, I did not.
24	A. Good afternoon.	24	Q. Instead, it's your Japanese parent, Nintendo
25	Q. You've worked for Nintendo for around 25 years; is	25	Company Limited, that designed all those controllers; is
	Page 1026		Page 1028
1	that right?	1	that accurate?
2	A. Yeah, nearly 27.	2	A. That's my understanding.
3	Q. I wonder if I could get you to explain something	3	Q. And just so there is not any confusion I think
4	that's sort of been in the courtroom for a bit, but I'm	4	this is clear from your testimony, but I want to be
5	not sure we've had it spelled out and I want to make	5	sure. The GameCube controller has a motor with an
б	sure there is no confusion.	6	
	The commonservices months for to colled whet?		eccentric weight in it that accomplishes rumble,
7	The company you work for is called what?	7	correct?
8	A. Nintendo of America, Incorporated.	7 8	correct? A. Yes. There is a vibration motor.
	<ul><li>A. Nintendo of America, Incorporated.</li><li>Q. Okay. So, you work for Nintendo of America. And</li></ul>	9	<ul><li>correct?</li><li>A. Yes. There is a vibration motor.</li><li>Q. And the way that vibration motor works is through a</li></ul>
8 9 10	<ul><li>A. Nintendo of America, Incorporated.</li><li>Q. Okay. So, you work for Nintendo of America. And Nintendo of America is owned by what company?</li></ul>	9 10	<ul><li>correct?</li><li>A. Yes. There is a vibration motor.</li><li>Q. And the way that vibration motor works is through a small electric motor with an offset weight on a shaft,</li></ul>
8 9 10 11	<ul><li>A. Nintendo of America, Incorporated.</li><li>Q. Okay. So, you work for Nintendo of America. And Nintendo of America is owned by what company?</li><li>A. Nintendo Company Limited.</li></ul>	9 10 11	<ul><li>correct?</li><li>A. Yes. There is a vibration motor.</li><li>Q. And the way that vibration motor works is through a small electric motor with an offset weight on a shaft, correct?</li></ul>
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A. Nintendo of America, Incorporated.</li> <li>Q. Okay. So, you work for Nintendo of America. And Nintendo of America is owned by what company?</li> <li>A. Nintendo Company Limited.</li> <li>Q. A Japanese parent?</li> <li>A. Yes.</li> <li>Q. And Nintendo Company Limited owns how much of Nintendo of America?</li> <li>A. It's a wholly-owned subsidiary; so, it's a hundred percent, I believe.</li> <li>Q. And just to make sure we keep this straight, Nintendo of America is obviously the U.Sbased company, correct?</li> <li>A. Correct.</li> <li>Q. And Nintendo Company Limited is the Japanese</li> </ul>	9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>correct?</li> <li>A. Yes. There is a vibration motor.</li> <li>Q. And the way that vibration motor works is through a small electric motor with an offset weight on a shaft, correct?</li> <li>A. That's my understanding, correct.</li> <li>Q. And when the motor spins, it spins that eccentric weight and causes vibration, fair?</li> <li>A. Yeah. I haven't disassembled one personally, but that's my understanding.</li> <li>Q. Well, would you like to see one? We happen to have a couple in the courtroom here, in case you're curious.</li> <li>Maybe you can catch that on the way out, since I don't have any questions to ask you about it, if you're curious.</li> <li>And in the same way, the Wii Remote also has</li> </ul>

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	Page 1029		Page 1031
1	Q. Now, in the Wii controller products, a user can't	1	A. Uh-huh.
2	use the Wii Nunchuk controller if it's not connected to	2	Q. I just want to make sure I'm clear on this. Do you
3	the Wii Remote controller; isn't that right?	3	know, sir because you testified you haven't taken one
4	A. That's correct. It has no way to communicate	4	apart.
5	otherwise.	5	A. Right.
6	Q. Okay. And in the same way, a user can't use the	6	Q. Do you know whether or not the offset weight is
7	Wii Classic Controller if it's not connected to the Wii	7	connected to the shaft? Do you know that?
8	Remote controller.	8	A. I don't, because I haven't had one apart.
9	A. Correct. Again, for communication.	9	MR. GUNTHER: No further questions, your
10	Q. Okay. And the Wii Remote controller we've heard	10	Honor.
11	quite a bit about has an accelerometer in it,	11	THE COURT: Do you have anything?
12	correct?	12	MR. CAWLEY: No, your Honor. I'm sorry.
13	A. Correct.	13 14	THE COURT: Okay. You may step down, sir.
14 15	Q. And that accelerometer in the Wii Remote provides	$14 \\ 15$	Does anybody object to this witness being
16	three separate signals representing acceleration along three different axes; isn't that right?	16	excused? In the meantime, start calling your next witness.
17	A. Correct.	17	MR. GUNTHER: Not for Nintendo, your Honor.
18	Q. And you would agree with me, wouldn't you, that the	18	MR. CAWLEY: No objection, your Honor.
19	use of those three outputs is up to the game designer?	19	THE COURT: All right. Then, sir, you are
20	A. Yes.	20	excused, which means you can leave or not leave as you
21	Q. So, just so we understand what that means, although	21	wish. But don't discuss the testimony in this case or
22	Nintendo has the popular games that we've seen, do other	22	your your testimony with anybody except the lawyers
23	people write games for the Nintendo console?	23	until the trial is over. Once the trial is over, you
24	A. Yes.	24	can talk to anybody you want. And like I say, you can
25	Q. And I guess Nintendo licenses them to be able to do	25	stay if you wish; or you're free to leave. Thank you,
	Page 1030		Page 1032
1	that?	1	sir.
2	A. Yes.	2	THE WITNESS: Thank you.
3	Q. So, if someone wanted to start a company and came	3	THE COURT: Who's next?
4	to Nintendo and made their proposal and agreed to pay a	4	MR. PRESTA: Your Honor, Nintendo calls
5	licensing fee to Nintendo, that person could start	5	Mr. Robert Dezmelyk.
6	designing their own games for the Wii, for example,	6	THE COURT: Step forward, sir.
7	true?	7	MR. PRESTA: And before I start, I'd like to
8			
9	A. I'm not that familiar with the business	8	request the court if I could do an interim statement.
10	relationship side of how we agree on those license	9	request the court if I could do an interim statement. THE COURT: Sure.
10	relationship side of how we agree on those license agreements, but we do license other companies to write	9 10	request the court if I could do an interim statement. THE COURT: Sure. MR. PRESTA: And also hand out some
11	relationship side of how we agree on those license agreements, but we do license other companies to write software for our machines.	9 10 11	request the court if I could do an interim statement. THE COURT: Sure. MR. PRESTA: And also hand out some notebooks.
11 12	relationship side of how we agree on those license agreements, but we do license other companies to write software for our machines. Q. Okay. But you do know, don't you, that if a	9 10 11 12	request the court if I could do an interim statement. THE COURT: Sure. MR. PRESTA: And also hand out some notebooks. THE COURT: Sure.
11 12 13	relationship side of how we agree on those license agreements, but we do license other companies to write software for our machines. Q. Okay. But you do know, don't you, that if a company like that decides that they want to write	9 10 11 12 13	request the court if I could do an interim statement. THE COURT: Sure. MR. PRESTA: And also hand out some notebooks. THE COURT: Sure. (The oath is administered.)
11 12 13 14	relationship side of how we agree on those license agreements, but we do license other companies to write software for our machines. Q. Okay. But you do know, don't you, that if a company like that decides that they want to write software to make a Wii-compatible game, they can decide	9 10 11 12 13 14	request the court if I could do an interim statement. THE COURT: Sure. MR. PRESTA: And also hand out some notebooks. THE COURT: Sure. (The oath is administered.) MR. PRESTA: May it please the court?
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51 (Pages 1029 to 1032)

	Page 1041		Page 1043
1	In the middle of the 1990s, our company wrote	1	the basement and I have a pretty strict injunction that
2	essentially all of the software drivers for all of the	2	they are not allowed to come upstairs.
3	touchpads that were being used, for companies like Sony	3	Q. And why do you have those?
4	or Compaq down here in Texas I used to spend a lot of	4	A. Well, I'm interested in them, first off; and I
5	time in Texas and Dell and other companies like that.	5	started along the way collecting them. But it's also a
6	After that, I did much more work on	6	way of understanding what people did over time. Many of
7	interfaces and, in particular, USB. I	7	these I worked on. Some of them were prototypes that we
8	Q. Okay. Let me stop you right there.	8	got in the process of building things. In other cases,
9	A. Sure.	9	I bought them in stores because I liked them. They were
10	Q. For those of us who may not be familiar, what is	10	interesting. But it gives me a way of looking back over
11	"USB"?	11	the history of what people have done in that technology.
12	A. USB is universal serial bus. It's that	12	Q. Thank you.
13	interconnection we have on our PCs. It's a little	13	Now, have you had a chance to look at the
14	square connector. If you've plugged a mouse into a PC	14	1996 patent application that was filed by Mr. Armstrong?
15	these days or the little we call them "thumbsticks"	15	A. Yes, I have.
16	sometimes, those little memory sticks, or a camera or	16	Q. Okay. And in your notebook I gave you a copy of
17	things. That connector is a universal serial bus, or	17	that application. It's Defendant's Exhibit 306. And
18	USB.	18	the jury also has a copy of this application in their
19	I led the standards effort for the human	19	notebook.
20	input device, part of that standard which covers the	20	Now, I would like to ask you some questions,
21	mice and keyboards, touchscreens, joysticks, and things	21	Mr. Dezmelyk, about what is disclosed in that 1996
22	like that.	22	application. Okay?
23	Q. Okay. Thank you.	23	A. Certainly.
24	Now, have you had any interest in game	24	Q. And you have had a chance to review that
25	controllers over the years?	25	application in detail?
	- 1010		
	Page 1042		Page 1044
1	Page 1042 A. Yes, I have.	1	Page 1044 A. Yes, I have.
1 2		1 2	
	A. Yes, I have.		A. Yes, I have.
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54 (Pages 1041 to 1044)

	Page 1045		Page 1047
1	A. Well, this is the application that Mr. Armstrong is	1	A. New material that was not present in the
2	trying to claim the priority date of.	2	original
3	Q. Okay. And I'm also going to add some other things	3	MR. CAWLEY: Objection, your Honor. That's a
4	to the timeline. Do you recognize the July 15th, 2002,	4	misstatement of a legal principle that the court has
5	item on the timeline?	5	pointed out repeatedly.
6	A. Yes, I do.	6	MR. PRESTA: Perhaps I didn't under
7	Q. What is that?	7	THE COURT: Why don't you rephrase the
8	A. That's the date of a set of new claims that were	8	question?
9	submitted to the Patent Office related to this	9	MR. PRESTA: Okay. I forget exactly what the
10	application.	10	question was now, your Honor.
11	Q. Okay. And you have heard the testimony in this	11	BY MR. PRESTA:
12	case that, in fact, those claims, when Mr. Armstrong	12	Q. But I think my point was whether you had an opinion
13	filed them, he had in his possession the GameCube	13	as to whether the claims that were filed in 2002 that
14	product. Do you understand that?	14	claimed invention that was submitted in 2002 is found
15	A. That's correct, yes.	15 16	back in the 1996 application. A. I believe it is not.
16 17	Q. Okay. And, in fact, could you explain to the jury your understanding of how the claims came to be, for	17	<ul><li>A. T believe it is not.</li><li>Q. You believe it's not.</li></ul>
18	example, claim 19?	18	And why do you believe it's not?
19	A. Well, my understanding is that that claim was	19	A. Because the claim scope that's present is not
20	derived by Mr. Armstrong observing the GameCube	20	disclosed in the written description in either of the
21	controller and then drafting the claim to cover that	21	earlier applications.
22	controller.	22	Q. Now, you say "either of the earlier." Are you
23	Q. Okay. So, is it your understanding, then, that	23	talking about the 1996 filing?
24	there are claims in that 2002 filing that are very	24	A. Right.
25	similar to the GameCube product?	25	Q. As well as the 2000 filing?
	Page 1046		Page 1048
1	A. That's correct.	1	A. Right.
2	Q. Okay. Now, there is an issue in the case; and can	2	Q. Okay. Now, let me I'm going to ask if we could
3	you tell me I put a red arrow back here. What does	3	please pull up Defendant's Exhibit 306.
4	that really mean to you?	4	BY MR. PRESTA:
5	A. Well, that means that there's I guess the word	5	Q. Now, do you recognize that?
6	would be a "need" in order to sustain the validity of	6	A. Yes, I do.
7	that claim, that that claim is entitled to the priority	7	Q. Okay. And you'll agree with me that it's the
8	date or the filing date of the original 1996	8	application that Mr. Armstrong filed in 1996 that's
9	application.	9	known as the "warehouse application" here, right?
10	Q. Okay. And why is that necessary for validity, in	1 ()	
			A. Yes. This is the front first page.
11	your opinion?	11	Q. Okay. Now, I'm going to ask you to turn to the
12	your opinion? A. Well, that's necessary because there is intervening	11 12	Q. Okay. Now, I'm going to ask you to turn to the figures in the application that begin on page mine
12 13	your opinion? A. Well, that's necessary because there is intervening prior art. In other words, between 1996 and the later	11 12 13	Q. Okay. Now, I'm going to ask you to turn to the figures in the application that begin on page mine 306.57, meaning it's Exhibit 306, page 57.
12 13 14	your opinion? A. Well, that's necessary because there is intervening prior art. In other words, between 1996 and the later date, there is the filing date of the '700 application;	11 12 13 14	<ul><li>Q. Okay. Now, I'm going to ask you to turn to the figures in the application that begin on page mine 306.57, meaning it's Exhibit 306, page 57.</li><li>A. Okay.</li></ul>
12 13 14 15	your opinion? A. Well, that's necessary because there is intervening prior art. In other words, between 1996 and the later date, there is the filing date of the '700 application; there is other prior art that would invalidate that	11 12 13 14 15	<ul><li>Q. Okay. Now, I'm going to ask you to turn to the figures in the application that begin on page mine 306.57, meaning it's Exhibit 306, page 57.</li><li>A. Okay.</li><li>Q. And do you see that on the screen?</li></ul>
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12 13 14 15 16 17 18 19 20 21 22	<ul> <li>your opinion?</li> <li>A. Well, that's necessary because there is intervening prior art. In other words, between 1996 and the later date, there is the filing date of the '700 application; there is other prior art that would invalidate that claim.</li> <li>Q. Okay. Now, did you undertake do you have an opinion as to whether or not those claims filed in 2002 that are being asserted in this case against Nintendo whether they are entitled to go back to 1996?</li> <li>A. I believe they are not entitled to the earlier</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. Okay. Now, I'm going to ask you to turn to the figures in the application that begin on page mine 306.57, meaning it's Exhibit 306, page 57.</li> <li>A. Okay.</li> <li>Q. And do you see that on the screen?</li> <li>A. Yes, I do.</li> <li>Q. Okay. Now, this is from do you understand that this is from the prosecution history, the records of the Patent Office, that it's a copy of the application that was filed?</li> <li>A. Yes, I understand that.</li> </ul>

55 (Pages 1045 to 1048)

	Page 1049		Page 1051
1	A. That's correct.	1	A. Well, it does not include or disclose a vibration
2	Q. Okay. But we're looking at the application itself	2	motor. There is no motor shown in this drawing.
3	right now.	3	There is also no joystick shown, and there's
4	A. That's correct.	4	not what we've been calling a "D-pad" or what I may call
5	Q. Okay.	5	the "hat switch" occasionally.
6	MR. PRESTA: Now, the '525 patent, just for	6	Q. Okay.
7	the record, is Defendant's Exhibit 15.	7	A. None of those are present.
8	BY MR. PRESTA:	8	Q. Okay. Now, in turning to Figure 2, do you
9	Q. Now, I wanted to ask you if you could take a look	9	recognize that figure? And could you tell the jury what
10	at Figure 1.	10	it is and if it relates back to Figure 1? As we go
11	Now, first of all, is it your understanding	11	through this, I would like it if you could just try to
12	that the claims at issue in this case all describe a	12	explain to the jury what these figures are; and maybe if
13	controller that has two joysticks and a cross-switch?	13	they relate to each other, you could indicate that.
14	A. Yes. That's the the claim scope that's been	14	A. Sure. Let me try to explain this one. This is a
15	asserted. In other words, all of the devices that have	15	little more complicated drawing. This one is looking at
16	been accused, certainly have that characteristic.	16	the side of the same thing we were looking at on the
17	Q. Okay. Now all of the GameCube devices, right?	17	top. And if I can just use a laser pointer a bit here.
18	A. All of the GameCube devices. That's right.	18	The ball is in the middle (indicating). That's a
19	Q. Okay. So, is it your understanding, then, that you	19	trackball. It's going to rotate. The person's hand is
20	need to go back to the 1996 application and see if you	20	going to come down from above and rotate that ball.
21	can find in that application a description of that type	21	The little detectors (indicating) that detect
22	of a device with the two joysticks and a cross-switch?	22	the rotation of these parts here, we saw them in the
23	A. Right. It's necessary, in order for the patent to	23	last figure.
24		24	The framework we saw from above is this
25	the claim, the elements of the claim, and find them	25	structure around here (indicating).
	Page 1050		Page 1052
1	expressed, in some way, in a way that we can identify	1	And there is also a small what's called a
2	that the inventor had that idea back in the original	2	"collet" or a "collar," because it goes around the ball
3	specification.	3	(indicating), which can be turned or twisted by the
4	Q. Okay. And I want to do that starting with the	4	hand.
5	figures. And I'd like for you to go through the	5	So, this is describing an input device that's
6	figures in fact, we're on Figure 1 of the application	6	got a trackball in the middle and you can push this
7	that was filed in 1996. And can you tell me what that	7	trackball back and forth and side to side or you can
8	figure is showing?	8	push it up and down a little bit and it will detect with
9	A. Yes. This is a top view a drawing first, if	9	these little switches here (indicating) whether it's
10	I might, the drawings in patents are kind of like a	10	being lifted up, pushed down, or slid to one of the
11		11	
12	white, and they're usually shown in different	12	Q. Okay. Does that figure describe the features that
13	directions.	13	you see on the GameCube controller that's in this case?
14	We're looking down on the top here of a	14	A. No. There's obviously no joystick. There's no
15	device; and it's showing a ball, which is a circle in	15	buttons. There's no vibration motor. And there's no
16	the center. And you'll note there's two items. One is	16	D-switch.
17	numbered 128; one is numbered 126. Those are a couple	17	Q. All right. Now, when you say "D-switch," you
18	of rotary encoders that detect the ball turning. This	18	mean I referred to it as a "cross-switch."
19	is actually showing a trackball that is then mounted on	19	A. Cross-switch. I'll use the word "cross-switch."
20	some platforms and so forth.	20	Q. Okay.
21	Q. Okay. Does this figure show the combination of	21	MR. PRESTA: Can we turn to the next figure,
22	elements that are present in the claims that are	22	3?
23	asserted against Nintendo in this case?	23	BY MR. PRESTA:
24 25	A. No, it is not.	24	Q. Now, if you think they are the same figure from a
	Q. Okay. What is it missing?	25	different angle, please explain that to the jury. I

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	Page 1103		Page 1105
1	indicates?	1	number on the slides, whenever possible, in the bottom
2	A. Well, this slide is the steps. I'm going to back	2	right-hand corner, correct?
3	up a little bit and make that a little clearer, that I'm	3	A. That's correct. There should be, down in the
4	going to be looking, as part of my analysis, to see	4	corner there, where somewhere a place that you can
5	where in that application, where in the specification	5	find it if you want to look right at the actual drawing
6	the description that the inventor makes called the	6	or text or picture in the juror notebook or if you want
7	"specification" of the patent where, if anywhere, he	7	to make a note or something where it is.
8	disclosed the ideas that make up or that constitute the	8	Q. Okay. And what is this just an overview of what
9	claimed invention. And there is a couple different	9	this figure generally is?
10	parts of that application. It's a thick document. And,	10	A. Sure. This is a picture where Mr. Armstrong is
11	in particular, it's got drawings. It's got his written	11	describing or beginning to describe his idea. And, in
12	verbal text description. It's kind of complicated text;	12	particular, he's explaining that there is what he calls
13	so, we may have to go through it carefully.	13	an "input element" here, 12; and it has it can roll
14	But the first step is to look at the drawings	14	around that direction. It can pitch back and forth this
15	because it's usually a little easier to look at the	15	way (indicating).
16	drawings than it is the text. And I'm going to add on	16	Q. Let me just stop you for just one second. Now,
17	that there's also although, we don't really need to	17	this isn't actually a controller product, is it? Just
18	look at them much in this matter technically	18	try and
19	speaking, the claims that he filed at that point in time	19	A. No.
20	are part of the specification. But those are not the	20	Q put this in perspective for the jury of what it
21	claims we're talking about now because those claims were	21	is. It's not
22	not used those inventions described in those claims	22	A. Right.
23	and those claims are not relevant to the matter we're	23	Q. Thank you.
24	here on today.	24	A. Okay. Just to explain this, this is a complicated
25	Q. Okay. Did you undertake a review of the drawings	25	idea; so, he's working in steps to explain it. And the
	Page 1104		Page 1106
1	in the 1996 application?	1	first thing he's really explaining is there's going to
2	A. Yes, I did.	2	be a input member in this case he's showing it like a
3	Q. And you prepared some slides to help the jury	3	ball and it can move every which way. It can move
4	understand those?	4	back and forth along the first, second, or third axis;
5	A. Yes, I did. There's quite a few drawings in that	5	or it can turn on those axes. And, really, if you think
6	application; so, I actually sorted out the ones that	6	about it, it's like holding a beach ball in your hand.
7	were important in this case. There are other ideas in	7	You can turn it any which way; and you can also move it
8	there that are not related at all; so, we're not going	8	up and down, sideways, and back and forth. But there is
9	to look at every picture in there because we would be	9	one kind of ball, and you can imagine that that ball
10	here for days. But we're going to focus on the ones	10	itself is moving in those different directions.
11			
	that are related to this case and the claims that came	11	Q. Does the term "6 degrees of freedom" relate to this
12	out of it.	12	figure at all?
13	out of it. Q. Okay. Can you first tell the jury why you have	12 13	figure at all? A. Yes, it does. The technical term for that is that
13 14	out of it. Q. Okay. Can you first tell the jury why you have that figure?	12 13 14	figure at all? A. Yes, it does. The technical term for that is that it has 6 degrees of freedom because you can move it
13 14 15	<ul><li>out of it.</li><li>Q. Okay. Can you first tell the jury why you have that figure?</li><li>A. Sure. I think this is a good starting point for us</li></ul>	12 13 14 15	figure at all? A. Yes, it does. The technical term for that is that it has 6 degrees of freedom because you can move it three ways side to side, forward and backward, up and
13 14 15 16	<ul><li>out of it.</li><li>Q. Okay. Can you first tell the jury why you have that figure?</li><li>A. Sure. I think this is a good starting point for us to try to understand the idea that's described in that</li></ul>	12 13 14 15 16	figure at all? A. Yes, it does. The technical term for that is that it has 6 degrees of freedom because you can move it three ways side to side, forward and backward, up and down. Those are the three arrows of what we call
13 14 15 16 17	out of it. Q. Okay. Can you first tell the jury why you have that figure? A. Sure. I think this is a good starting point for us to try to understand the idea that's described in that specification.	12 13 14 15 16 17	figure at all? A. Yes, it does. The technical term for that is that it has 6 degrees of freedom because you can move it three ways side to side, forward and backward, up and down. Those are the three arrows of what we call "linear axes," engineers. And then you can turn it,
13 14 15 16 17 18	out of it. Q. Okay. Can you first tell the jury why you have that figure? A. Sure. I think this is a good starting point for us to try to understand the idea that's described in that specification. And what this shows, Figure 7, is a ball, in	12 13 14 15 16 17 18	figure at all? A. Yes, it does. The technical term for that is that it has 6 degrees of freedom because you can move it three ways side to side, forward and backward, up and down. Those are the three arrows of what we call "linear axes," engineers. And then you can turn it, rotate it.
13 14 15 16 17 18 19	<ul> <li>out of it.</li> <li>Q. Okay. Can you first tell the jury why you have that figure?</li> <li>A. Sure. I think this is a good starting point for us to try to understand the idea that's described in that specification.</li> <li>And what this shows, Figure 7, is a ball, in the middle. And, again, we're going to put highlighting</li> </ul>	12 13 14 15 16 17 18 19	figure at all? A. Yes, it does. The technical term for that is that it has 6 degrees of freedom because you can move it three ways side to side, forward and backward, up and down. Those are the three arrows of what we call "linear axes," engineers. And then you can turn it, rotate it. And the typical words that are used for that
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13 14 15 16 17 18 19 20 21	<ul> <li>out of it.</li> <li>Q. Okay. Can you first tell the jury why you have that figure?</li> <li>A. Sure. I think this is a good starting point for us to try to understand the idea that's described in that specification.</li> <li>And what this shows, Figure 7, is a ball, in the middle. And, again, we're going to put highlighting on things in these pictures. These are all black-and-white drawings. It's a tradition in the</li> </ul>	12 13 14 15 16 17 18 19 20 21	figure at all? A. Yes, it does. The technical term for that is that it has 6 degrees of freedom because you can move it three ways side to side, forward and backward, up and down. Those are the three arrows of what we call "linear axes," engineers. And then you can turn it, rotate it. And the typical words that are used for that rotation, to describe it, is what people talk about in boats or airplanes that it rolls, which means side to
13 14 15 16 17 18 19 20 21 22	out of it. Q. Okay. Can you first tell the jury why you have that figure? A. Sure. I think this is a good starting point for us to try to understand the idea that's described in that specification. And what this shows, Figure 7, is a ball, in the middle. And, again, we're going to put highlighting on things in these pictures. These are all black-and-white drawings. It's a tradition in the Patent Office, from the beginning of our country, to	12 13 14 15 16 17 18 19 20 21 22	figure at all? A. Yes, it does. The technical term for that is that it has 6 degrees of freedom because you can move it three ways side to side, forward and backward, up and down. Those are the three arrows of what we call "linear axes," engineers. And then you can turn it, rotate it. And the typical words that are used for that rotation, to describe it, is what people talk about in boats or airplanes that it rolls, which means side to side; that it pitches, which means front to back; and
13 14 15 16 17 18 19 20 21	<ul> <li>out of it.</li> <li>Q. Okay. Can you first tell the jury why you have that figure?</li> <li>A. Sure. I think this is a good starting point for us to try to understand the idea that's described in that specification.</li> <li>And what this shows, Figure 7, is a ball, in the middle. And, again, we're going to put highlighting on things in these pictures. These are all black-and-white drawings. It's a tradition in the</li> </ul>	12 13 14 15 16 17 18 19 20 21	figure at all? A. Yes, it does. The technical term for that is that it has 6 degrees of freedom because you can move it three ways side to side, forward and backward, up and down. Those are the three arrows of what we call "linear axes," engineers. And then you can turn it, rotate it. And the typical words that are used for that rotation, to describe it, is what people talk about in boats or airplanes that it rolls, which means side to

11 (Pages 1103 to 1106)

	Page 1107		Page 1109
1	talk about which way something is turning. So, if I was	1	the hand-operable single input member operable in full
2	trying to describe a boat, I might say my boat is	2	6 degrees of freedom. He's saying
3	rolling over because the wind is pushing on the sail; or	3	Q. I'm sorry. What does it mean to be operable in
4	if I go up and down on a wave, it pushes back and forth.	4	full 6 degrees of freedom? Because this is an important
5	And I might say in an airplane that I'm turning my head	5	concept we're going to talk about. I just want to make
б	in a yaw direction, or I'm turning in that direction	6	sure that people understand it.
7	(indicating). That's a way of describing these things	7	A. In this case 6 degrees operable means it moves in 6
8	in a more formal sense.	8	degrees of freedom, and it works in the sense that it
9	Q. So, am I correct, then, that the 6 degrees of	9	outputs data or information about its motion in those
10	freedom that are shown here involve being able to move	10	full 6 degrees of freedom.
11	linearly along all three of the axes in	11	Q. Okay. Now, did you prepare an animation; or did
12	three-dimensional space as well as rotate on all three?	12	you have an animation to help the jury understand how
13	A. That's correct. There's six because there are the	13	this particular device of Mr. Armstrong's works?
14	three axes moving, and there are three ways of turning.	14	A. Yes. There is an animation that will show how this
15	Q. Okay. Now let's take a look at the actual other	15	device moves.
16	figures in the application. Could you tell me what that	16	Q. And I'm going to ask if we could play this and if
17	figure is?	17	you could just try to explain to the jury, as it's
18	A. Sure. This is Figure 4. It's in your notebook,	18	playing, what's going on.
19	page 56. And here Mr. Armstrong is describing what he	19	A. Sure. This is showing the ball moving in the
20	calls one of the ways in which he sees his idea.	20	different directions, roll and now if I move it
21	That is what's called an "embodiment." He says: The	21	forward and backward, you'll see the ball and that green
22 23	trackball-type embodiment.	22 23	ring around it move together, along with the whole
23 24	"Embodiment" is a special word that's used in	23 24	platform slides back and forth.
24	patent applications. It says "One of the ways that my invention can be built." And it's often that you make	25	<ul><li>Q. Okay.</li><li>A. So, again it moves you can turn the ball in each</li></ul>
25	Invention can be built. And it's often that you make	25	A. So, again it moves you can turn the ball in each
—	Daga 1109		Dago 1110
_	Page 1108		Page 1110
1	examples of these to show people different ways you	1	of those directions; but you can also grab the ball or
2	examples of these to show people different ways you could make the whole idea.	2	of those directions; but you can also grab the ball or that little collar around it and push the whole assembly
2 3	examples of these to show people different ways you could make the whole idea. So, he's explaining here that in these	2 3	of those directions; but you can also grab the ball or that little collar around it and push the whole assembly either back and forth, left or right, or up and down.
2 3 4	examples of these to show people different ways you could make the whole idea. So, he's explaining here that in these figures 4 is one of the set that this	2 3 4	of those directions; but you can also grab the ball or that little collar around it and push the whole assembly either back and forth, left or right, or up and down. Q. So, then, the ball and the thing around it are
2 3 4 5	examples of these to show people different ways you could make the whole idea. So, he's explaining here that in these figures 4 is one of the set that this trackball-type is a hand-operable 6-degree-of-freedom	2 3 4 5	of those directions; but you can also grab the ball or that little collar around it and push the whole assembly either back and forth, left or right, or up and down. Q. So, then, the ball and the thing around it are related to each other in some way?
2 3 4 5 6	examples of these to show people different ways you could make the whole idea. So, he's explaining here that in these figures 4 is one of the set that this trackball-type is a hand-operable 6-degree-of-freedom controller. And he says: Trackball 12 here we see	2 3 4 5 6	of those directions; but you can also grab the ball or that little collar around it and push the whole assembly either back and forth, left or right, or up and down. Q. So, then, the ball and the thing around it are related to each other in some way? A. That's correct. And you can see that it will
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2 3 4 5 6 7 8	examples of these to show people different ways you could make the whole idea. So, he's explaining here that in these figures 4 is one of the set that this trackball-type is a hand-operable 6-degree-of-freedom controller. And he says: Trackball 12 here we see that ball we talked about, just learned about how it moves. It's now that Trackball Number 12 is sitting	2 3 4 5 6 7 8	of those directions; but you can also grab the ball or that little collar around it and push the whole assembly either back and forth, left or right, or up and down. Q. So, then, the ball and the thing around it are related to each other in some way? A. That's correct. And you can see that it will get called a "collet," but it's also I like the word I think he also says "collar" at one point.
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2 3 4 5 6 7 8 9 10 11	examples of these to show people different ways you could make the whole idea. So, he's explaining here that in these figures 4 is one of the set that this trackball-type is a hand-operable 6-degree-of-freedom controller. And he says: Trackball 12 here we see that ball we talked about, just learned about how it moves. It's now that Trackball Number 12 is sitting in the middle of this mechanism. One thing that we'll see a lot when we look at patent drawings is you'll see a little number with a	2 3 4 5 6 7 8 9 10	of those directions; but you can also grab the ball or that little collar around it and push the whole assembly either back and forth, left or right, or up and down. Q. So, then, the ball and the thing around it are related to each other in some way? A. That's correct. And you can see that it will get called a "collet," but it's also I like the word I think he also says "collar" at one point. It's kind of like the collar around your neck and your shirt. It's around it. It can turn relative to it. But if you move the ball from left to right, the collar
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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	examples of these to show people different ways you could make the whole idea. So, he's explaining here that in these figures 4 is one of the set that this trackball-type is a hand-operable 6-degree-of-freedom controller. And he says: Trackball 12 here we see that ball we talked about, just learned about how it moves. It's now that Trackball Number 12 is sitting in the middle of this mechanism. One thing that we'll see a lot when we look at patent drawings is you'll see a little number with a line. That's just a way of talking about a particular thing in the drawing to try to instead of using words like we do in normal discussion, like "the door over there" or "the window on the side," it's much easier for people making these drawings because there are so many pieces that they just give numbers to the pieces. So, that 12 refers to the same 12 in any picture where we see that number 12 pointing to a ball. That's conceptually the same ball; in other words, that's the same concept he's carrying forward. Q. Okay. And, in fact, does that Ball 12 correspond to that graph that we were looking at a minute ago? A. Exactly. If we look at the last sentence that is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>of those directions; but you can also grab the ball or that little collar around it and push the whole assembly either back and forth, left or right, or up and down.</li> <li>Q. So, then, the ball and the thing around it are related to each other in some way?</li> <li>A. That's correct. And you can see that it will get called a "collet," but it's also I like the word I think he also says "collar" at one point. It's kind of like the collar around your neck and your shirt. It's around it. It can turn relative to it. But if you move the ball from left to right, the collar goes with it. So, the two are attached together mechanically; and it actually is a way to hold you don't want to try to push the ball or lift the ball up and down. It's a way to move that ball in the different directions.</li> <li>Q. Okay. Thank you. Now, Mr. Cawley had identified this drawing. This is a figure that Mr. Cawley had put up on the screen. Have you seen that?</li> <li>Q. Okay. And Mr. Cawley was saying that this</li> </ul>

12 (Pages 1107 to 1110)

	Page 1111		Page 1113
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>secondary input member for use maybe for entering other parameters different from the 6 degrees of freedom. If we look here, the trackball in the middle that's 12 can be moved on all six axes. That ball always can be moved on all six axes. The collet around it, even though it moves with the ball, can be twisted a little bit. So, you could rotate in a twisting sense the same way you might turn a knob. You can twist that extra collar around the ball, but it at all times has to move with the ball. It can never move separately from the ball. And I think the idea that is being expressed here is that that extra secondary input member adds another little bit of functionality that might be used a different way, like a volume control, in essence. That's an idea.</li> <li>Q. Okay. And the part that's in pink that Mr that Anascape did not highlight to the jury, what does the pink part mean?</li> <li>A. Well, that's a very important point, is that this trackball input member is always measured and movable on all six axes.</li> <li>Q. Okay.</li> <li>A. These are words from the application on page 27</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>idea here is that you would rest your arm on that while you were operating the Trackball 12. And there's also shown some buttons up here on the front which would be like the buttons on a mouse or a trackball that you could click to control your personal computer.</li> <li>Q. Now, do those buttons have anything to do with the single input member being movable in 6 degrees of freedom?</li> <li>A. No, they don't.</li> <li>Q. Okay. Are those buttons can they be related to that collet that we saw around the ball?</li> <li>A. No. They're just buttons, like buttons on the surface of a mouse or buttons on a phone or something.</li> <li>Q. So, you have a 6-degree-of-freedom element in here; but in addition to that, you have some buttons that you could use for other things.</li> <li>A. That's correct.</li> <li>Q. Okay. Now, that's that same Ball 12 that you described to the jury earlier, right?</li> <li>A. That's right. It's the Ball 12 in the middle there.</li> <li>Q. Okay. And the specification in the juror notebook</li> </ul>
24 25	where the inventor, Mr. Armstrong, is describing how his idea works. And he's saying that, in fact, that member	24 25	at page 18, you just described that the trackball is a hand-operable single input member, right?
23	Page 1112	23	Page 1114
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>may be interpreted on all six axes and that I can get an additional separate kind of input from the collet around it.</li> <li>Q. Okay. Is it true, then, that that Item 12 we still see that Ball 12. So, is that Item 12 still, by itself, a single input member that can be movable in 6 degrees of freedom?</li> <li>A. Yes, it is.</li> <li>Q. And is that exactly what Mr. Armstrong's application says?</li> <li>A. Yes.</li> <li>Q. Okay. But, of course, there's also other things that you can do and there's a secondary input that A. That's correct.</li> <li>Q. Now, that doesn't affect the ball from being able to be operated by itself in 6 degrees of freedom.</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>A. That's correct.</li> <li>Q. Okay. Now, could you tell me about this next embodiment?</li> <li>A. Sure. This is an example where the same Ball 12, if we look, has been kind of miniaturized and put in a handheld remote controller, like a TV remote controller. And you would hold this in your hand and operate the ball with your thumb. And it shows again some buttons down here (indicating). And it explains how Trackball 12 which in this example it's a hand-operable single input member. So, his text is explaining that you operate this with your hand; and then there is a single input member, that ball, which is operable that is, returning information in a full 6 degrees of freedom.</li> <li>Q. Okay. Now, can you explain to me why it says "single " And you just told the jury that that ball is</li> </ul>
16 17 18 19 20 21 22 23 24 25	<ul> <li>to be operated by itself in 6 degrees of freedom, does it?</li> <li>A. No. You can always operate the ball in 6 degrees of freedom.</li> <li>Q. Okay. Now, if I go to the next embodiment in Mr. Armstrong's application, could you tell the jury what this is?</li> <li>A. Sure. This is a variation of the trackball idea.</li> <li>Here, we can see that it's designed with a kind of an Element 142, which is a nice comfortable handle. The</li> </ul>	16 17 18 19 20 21 22 23 24 25	<ul> <li>"single." And you just told the jury that that ball is a single handheld operable member in 6 degrees of freedom. But my question to you then is: If it says</li> <li>"single," why are what about these other buttons? Can you fairly say that, in fact, that's a single thing when you have all these other buttons?</li> <li>A. Yes, because what the invention is describing is the whole idea. The idea of buttons on a remote controller by themselves is not the invention. In other words, the idea that you can have buttons on a remote</li> </ul>

13 (Pages 1111 to 1114)

	Page 1115		Page 1117
1	controller is a well-known idea that existed long before	1	A. That's correct. He's showing ways that might be
2	this. So, what the inventor is describing is what is	2	combined or used with other known technologies and how
3	unique about his idea; and that is that he's got a	3	it might be mounted in them and how that might work.
4	single input member for the 6 degrees of freedom. Also,	4	Q. So, even though there's all of these keyboard
5	the buttons don't input positioning or 6 degrees of	5	buttons here and, in fact, there is even that little
6	freedom information. They're buttons like any other	6	collet, it looks like, that goes around the ball
7	button on a remote.	7	A. That's correct.
8	Q. Okay. So, it is your understanding that it is	8	Q. Even though all those other things are there, is
9	still describing a single input member	9	there still a single input member that's operable in
10	6-degree-of-freedom device as long as it has one thing	10	full 6 degrees of freedom like the application says?
11	that can do that, regardless if it has other buttons?	11	A. Yes.
12	A. Right.	12	Q. Now if I could ask you to take a look at the next
13	Q. Okay. And do you remember Mr. Cawley showed this	13	one.
14	figure and had Mr. Armstrong testify that because there	14	A. This is a variation of the trackball idea. In this
15	were more buttons there, that there was a multiple input	15	case 12 if you look at it here (indicating) is the
16	6-degree-of-freedom device? Did you hear that	16	ball, and it has a handle attached to it. So, instead
17	testimony?	17	of putting your fingers on the top of the ball and
18	A. I did. I think it's incorrect.	18	pushing it back and forth like a trackball, you can just
19	Q. Okay. Why is that incorrect?	19	grab onto the handle and then tilt it from side to side
20	A. Well, because we have to think in the minds of a	20	or push it back and forth or lift it up and down by
21	practitioner. As an engineer looking at this, I know	21	holding onto the handle.
22	what buttons are for; and I know what trackballs and	22	Q. Okay.
23	controllers and motion controllers are for. And when	23	A. Of course, you can't turn the ball over completely
24	I look at those buttons, I'm not going to think, "Okay.	24	anymore. Right? You've now limited how much you can
25	The buttons are giving me the motion. The motion comes	25	tip it because the handle's there, but you've provided a
	Page 1116		Page 1118
1	from the ball, that I rotate that ball, I push that with	1	different way of holding onto that ball. And, again,
2	the ball." That's the idea we're seeing here for	2	you get a full 6 degrees of freedom because you can lift
3	inputting the 6 degrees of freedom. We're not seeing	3	the handle up and down, push it back and forth, pull it
4	the idea that, "Gee, I could come down here and type a	4	side to side, and then tip it and in which way around
5	number in; and that number is the position I want to be	5	it's
6	in next." That's not the idea.	6	Q. So, then
7	Q. Okay. Thank you.	7	A it's in the vertical position.
8	Could you just briefly describe this next	8	Q. So, then, are you, then, saying that that first
9	embodiment in Mr. Armstrong's 1996 application?	9	figure we looked at with those axes of 6 degrees of
10	A. Sure. Here again, he's showing that the	10	freedom, even though that handle looks like it might
11	trackball-type device with the Ball 12 can be mounted on	11	just go to the left and right and forward and backwards,
12	a keyboard. And again he's explaining how it might be	12	it actually does much more than that?
13	an enhancement to a known keyboard. This is a standard	13	A. Yes. It actually moves in all of the 6 degrees of
14	personal computer keyboard.	14	freedom shown for the Ball 12 in the initial picture.
15	And this, I think, gives us a better	15	It's just that you can't rotate it as far because if we
16	understanding of why these buttons are not involved with	16	try to turn that handle, we can only really turn it some
17	an input member because that's something that's been	17	amount of angles from vertical before we run into the
18	known for a long time. The invention is not typing	18	our hand will hit the top of the container.
19	numbers in from a keyboard. The invention is the idea	19	Q. Okay. And, again, this embodiment is in the jury
20	of this this particular idea being expressed here in	20	notebook at page 29.
21	this application is that ball and how you can use it to	21	Now, all of these embodiments we've seen so
22	input positional and angular information.	22	far, does every one of them enable somebody who's using
23	Q. So, then, are these drawings that we're looking at,	23	it to hold it with a single hand and then operate it in
24 24 25	these different things, just different applications of Mr. Armstrong's one input, 6-degree-of-freedom idea?	24 25	a full 6 degrees of freedom regardless if it's a handle on a ball or the ball.

14 (Pages 1115 to 1118)

	Page 1119		Page 1121
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>A. Yes. You can operate any one of these embodiments we've seen, or variations, with one hand; and your hand is moving relative to and so is that single member you're holding moving relative to the rest of the pointing device, to the housing of the Q. So, then A device.</li> <li>Q at this stage does the application indicate to you that it's an idea that relates to a one-handed operation device?</li> <li>A. Right. We've seen a device that operates with one hand and lets you put in a full 6 degrees of freedom with that one hand.</li> <li>Q. Okay. And that's exactly what the patent application is telling us, too, right?</li> <li>A. Right.</li> <li>Q. Okay. And just to clarify, the figures are in the jury notebook at page 64. The text is at page 29, right?</li> <li>A. Thank you. That's correct.</li> <li>Q. Now, here's another one. Could you tell the jury what that one is?</li> <li>A. Yes. This is another variation or embodiment of the jury is a solution.</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 4	<ul> <li>Q. And in your view, all the stuff in it, does it relate regardless of how many pieces and how many figures are disclosed, do all of the things in it relate to building one of these things regardless of whether it's in a keyboard or a remote control or anything, building one thing that has 6 degrees of freedom that you can hold with one hand?</li> <li>A. Yes. But I'm going to make because I've read every picture in here Q. Please do.</li> <li>A. And just to make it very clear, there are other pictures and other sections in the application which deal with some other ideas that are not related really to this litigation at all. There are some ideas in there for the internal structure of a pressure-sensing switch and a couple of things like that that are not in the claims of the invention at all and are not really related to what we're talking about here. So, we're not going to show those pictures because they're an entirely different technology that's not really involved in the things we're talking about here.</li> <li>Q. Okay. Now, in those other things that you're talking about that you're</li> </ul>
24 25	the invention. This one uses a different design. We'll now see it looks more like a hockey puck maybe, a small	24 25	talking about that you're not going to show the jury, did any of them have in them a 6-degree-of-freedom
—	Page 1120		Page 1122
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20	round, cylindrical object. And here it's called a 6-degree-of-freedom handle. And this is just showing how it would replace or mount in a keyboard the same way that the little ball-based 6-degree-of-freedom input device did. This one is made with a different design internally or a different way of building it, which we'll look at in detail. Q. I'm glad you mentioned that. I mean, Mr. Armstrong disclosed many different ways to make did Mr. Armstrong disclose many different ways to make this particular one-hand 6-degree-of-freedom device in this application that he refers to as the "warehouse application"? A. Yes. In his application he describes a lot of ways of building this single input 6-degree-of-freedom device, one with a ball and the sliding plates we saw. We're going to see another variation here where all of the sensors are activated by this kind of cylindrical handle we hold. And we'll see a lot of variations in how it's built internally, the internal parts of this	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	But could you quickly just describe what the figure is showing? It's a little bit of a strange format. A. Sure. Let me take a minute to explain this drawing and how talk about it a little bit just to get us orientated.
20 21 22 23 24 25	<ul><li>how it's built internally, the internal parts of this.</li><li>Q. So, Mr. Armstrong then disclosed the application is very thick, isn't it?</li><li>A. Yes.</li><li>Q. It's got a lot of stuff in it.</li><li>A. Yes.</li></ul>	20 21 22 23 24 25	This is the handle (indicating), the same handle design. It's got a slightly different number because there's two variations of that handle. This one is 300. It is attached to a stock. And these parts that are shown here (indicating), this is what's called an "exploded drawing." It's as if you took the physical

15 (Pages 1119 to 1122)

	Page 1123		Page 1125
1	object apart and just sort of lifted up the pieces and	1	A. Right. We're going to use those kind of terms a
2	they're floating in the air. The drawing shows each of	2	lot. An embodiment, again, is an example; and this is
3	the pieces as if this thing was taken apart. So, it's	3	an animation that shows how those pieces come together
4	put	4	and how that idea works.
5	Q. Let me ask you, then: It's kind of like an	5	Q. And how it actually moves in 6 degrees of
6	assembly drawing where it's showing you how the pieces	6	freedom
7	fit together?	7	A. Right.
8	A. Right. And this was kind of complicated; so, I	8	Q and operates the various sensors?
9	would hope I didn't get a set of directions like that	9	Okay. Could we run that animation, please?
10	with something I bought at the store. So, the arrows	10	A. First, it's coming together. And then we'll see
11	are showing how these pieces go together vertically.	11	how it moves once it's put together. Back and forth,
12	This is a vertical exploded diagram. These pieces are	12	you can see the handle slides relative to the things;
13	just as if you'd pulled it apart vertically.	13	and you'll see underneath some of these parts moving and
14	Q. Okay.	14	changing. And that's how it works. See? As you pull
15	A. And you're seeing each of the pieces here lined up	15	it up and down, it activates that little sensor in there
16	in this figure. It is in your jury notebook at page 72.	16	as it goes up and down.
17	And it shows a lot of the pieces, and that's so he can	17	The turning part comes from the top. The
18	explain how this works. In other words, for an engineer	18	very top of that handle rocks back and forth relative to
19	looking at this, how does that thing come together and	<mark>19</mark>	the bottom so you can enter it and you can twist it
20	work. And we'll see an animation of it and talk more	20	to get the yaw.
21	about how those pieces actually work together to make	21	MR. PRESTA: Could we just run that one more
22	this thing operate.	22	time, please?
23	Q. Okay. Again, though, before we do that, is there a	23	A. Yeah. Let's look at that again. That's a little
24	single hand-operable element here that's movable in 6	24	hard to get in one viewing.
25	degrees of freedom?	25	Back and forth, side to side, and up and
	Page 1124		Page 1126
1	A. Yes, there is. And let me just give a little more	1	down. And then here, the tipping. And finally, yaw.
2	A. Yes, there is. And let me just give a little more background on it. There is the handle (indicating) that	1 2	down. And then here, the tipping. And finally, yaw. BY MR. PRESTA:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>A. Yes, there is. And let me just give a little more background on it. There is the handle (indicating) that you operate with your hand. 317 is the top of the housing or the case. So, all the parts under 317 are inside of the keyboard or inside of the input device. All of these parts that we see down here (indicating), when they are assembled, are not in view of the person that's holding the handle. They are inside.</li> <li>Q. Okay. So, you can't touch any of the parts under this Item 317 you can't actually touch with your hand any of those parts when it's put together?</li> <li>A. No, not when it's assembled in the case.</li> <li>Q. So, just this one handle sticks out above the case kind of like those keyboard examples that we saw earlier?</li> <li>A. Right. In that keyboard example we saw the little it looks like that "hockey puck" shape, I call it, sticking out of the top and underneath that that's the top surface of the keyboard (indicating).</li> <li>Q. Okay. Thank you.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>down. And then here, the tipping. And finally, yaw. BY MR. PRESTA:</li> <li>Q. Okay. So, is that thing right there what you described earlier as a single handle that can be movable in all 6 degrees of freedom?</li> <li>A. Yes. That's the handle or the input member that you grasp in your hand and move in all 6 degrees of freedom.</li> <li>Q. Okay. Now, Mr. Cawley had pointed out Mr. Armstrong said, "Well, there's these other buttons here; so, that's not one element moving 6 degrees of freedom. There's three there. That supports a three-element 6-degree-of-freedom device." Do you agree with that?</li> <li>A. No. No. Those buttons are buttons the same way we have buttons on a mouse. And if you think about your mouse, your mouse moves on a table in two axes; but the buttons don't have anything to do with the motion. The buttons are just a way to enter information into your computer. And those buttons are moving around, but we don't consider that the motion of the buttons has</li> </ul>

16 (Pages 1123 to 1126)

	Page 1127		Page 1129
1	want to click on something on the screen.	1	as one of his ball trackball embodiments. And then
2	Q. Thank you.	2	there's the joystick-type which just has the handle and
3	Again, there's a few more figures.	3	no ball.
4	Obviously, there's a lot of figures in this application.	4	Q. Okay. Let me take you to the next one. Actually,
5	Could you tell the jury what this next one is and	5	did you have an animation for this one so the jury could
6	A. Sure. This is another picture describing a	6	understand how it works?
7	variation of the controller we just looked at. Again,	7	A. Yes.
8	there is the handle, the single input member, 300. In	8	MR. PRESTA: Could we just run
9	this case it's been shown that it could be a little bit bigger and inside of there could be a motor to give	9 10	A. Well, again this is just a different view. Now
10 11	vibration. It still has the same general structure.	11	we're getting closer to that view inside, looking at it from inside instead of from above. And here we can see
12	Here, 317, this thing here (indicating) shown with the	12	how the internal mechanism activates the sensors below
13	little diagonal lines, this is the top or the outside	13	when it's moved back and forth.
14	surface.	14	The motion of the handle causes those sensors
15	Again, this is a kind of a drawing that	15	to move inside and to be activated and to generate
16	you're probably familiar with, people who are involved	16	signals.
17	with engineering; but what we're looking at here is	17	BY MR. PRESTA:
18	what's called a "section" or a "cross-view." This is	18	Q. Okay. Now, that whole the whole item's moving
19	looking into this device kind of like we've cut through	19	forward now. That's just to look at the inside, right?
20	it and we're holding it up and looking through it, like	20	A. Right.
21	a section through it. So, we're not looking down from	21	Q. But that would normally be stationary. Now we'd be
22	above or from an angle; but we're kind of looking right	22	looking inside it?
23	into it.	23	A. Right. This animation first we see it from the
24	So, now when we see this kind of hash line,	24	outside to see what handle motion is happening. Then we
25	that means we're looking at the edge of something that's	25	come down. We fly inside to see how the internal parts
	Page 1128		Page 1130
1	been cut.	1	are actually working in Mr. Armstrong's idea.
2	Q. Okay.	2	Q. And, again, is that a single handle that's moving
3	A. So, that would be like the top surface of a	3	in 6 degrees of freedom? It could actually move in 6
4	keyboard. Imagine we've sawed through it and now we can		degrees of freedom, right?
5	see all of these parts that are inside that are	5	A. That's correct. That handle can move back and
6	underneath the top of it. The user's hand is out here	6	forward, side to side, up and down, and then be twisted
7	(indicating), holding onto that ball and moving it.	7	or rocked in any angular sense at the very top.
8 9	Q. Does this also show a single input member a	8 9	Q. Okay. Now, these buttons we see again, do those
10	single handheld input member that is movable in 6 degrees of freedom?	10	buttons in any way operate any of these sensors that allow it to be going in 6 degrees of freedom?
10		110	and with to be going in o degrees of needoin?
	$\Lambda$ Ves it does And the text as we can see again at	11	A No they don't
11 12	A. Yes, it does. And the text, as we can see again at page 13 in the application or in your juror notebook	11 12	A. No, they don't. O Okay So these are actually sensors?
12	page 13 in the application or in your juror notebook,	12	Q. Okay. So, these are actually sensors?
12 13	page 13 in the application or in your juror notebook, sorry	12 13	<ul><li>Q. Okay. So, these are actually sensors?</li><li>A. These are these little elements here are the</li></ul>
12	page 13 in the application or in your juror notebook, sorry Q. Okay.	12 13 14	<ul><li>Q. Okay. So, these are actually sensors?</li><li>A. These are these little elements here are the sensors that are being activated.</li></ul>
12 13 14	<ul><li>page 13 in the application or in your juror notebook, sorry</li><li>Q. Okay.</li><li>A is a 6-degree-of-freedom joystick-type</li></ul>	12 13	<ul><li>Q. Okay. So, these are actually sensors?</li><li>A. These are these little elements here are the sensors that are being activated.</li><li>Q. And the idea is so they can sense when your single</li></ul>
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12 13 14 15 16	<ul><li>page 13 in the application or in your juror notebook, sorry</li><li>Q. Okay.</li><li>A is a 6-degree-of-freedom joystick-type embodiment. And this is one of the figures describing</li></ul>	12 13 14 15 16	<ul><li>Q. Okay. So, these are actually sensors?</li><li>A. These are these little elements here are the sensors that are being activated.</li><li>Q. And the idea is so they can sense when your single hand moves in any one of those 6 degrees of freedom,</li></ul>
12 13 14 15 16 17	<ul> <li>page 13 in the application or in your juror notebook, sorry</li> <li>Q. Okay.</li> <li>A is a 6-degree-of-freedom joystick-type embodiment. And this is one of the figures describing them. There's quite a few of them.</li> </ul>	12 13 14 15 16 17	<ul><li>Q. Okay. So, these are actually sensors?</li><li>A. These are these little elements here are the sensors that are being activated.</li><li>Q. And the idea is so they can sense when your single hand moves in any one of those 6 degrees of freedom, there is a sensor for each way, right?</li></ul>
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12 13 14 15 16 17 18 19 20 21 22	<ul> <li>page 13 in the application or in your juror notebook, sorry</li> <li>Q. Okay.</li> <li>A is a 6-degree-of-freedom joystick-type</li> <li>embodiment. And this is one of the figures describing them. There's quite a few of them.</li> <li>Q. So, because he had trackball-type embodiments and he had joystick-type embodiments.</li> <li>A. Right. We've seen the trackball-type; that is, the ball. Now we're on the joystick-type. And I don't want to confuse the joystick-type with the handle on the ball because that's kind of we might call that two ways.</li> </ul>	12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. Okay. So, these are actually sensors?</li> <li>A. These are these little elements here are the sensors that are being activated.</li> <li>Q. And the idea is so they can sense when your single hand moves in any one of those 6 degrees of freedom, there is a sensor for each way, right?</li> <li>A. That's correct, yes.</li> <li>Q. Okay. Thank you. Again, this looks like a previous one. I don't want to spend too much time if there's nothing new that you think the jury can get from it, but this is another one.</li> </ul>

17 (Pages 1127 to 1130)

	Page 1131		Page 1133
1 2 3 4 5 6 7 8 9	switches are mounted. And down below, also there is some different design. There is no rocker. There is a piece here (indicating), kind of like a cam-shaped piece. It's a different way of building the idea. In other words, the fundamental idea here is a single handle that's movable in 6 degrees of freedom; and inside we're seeing different ways to actually make that mechanically to make that happen; in other words, the different levers and cams that make that idea	1 2 3 4 5 6 7 8 9	he also talked about Figure 20 where we had what we've just animated and showed you in that exploded view. And what did Mr. Armstrong testify about every one of those figures? A. Well, he said: In every one of these embodiments, there is a single input member operable in 6 degrees of freedom? He said: Yep. Q. And that's true, right?
10	possible.	10	A. Yes.
11	Q. Is it fair to say that the reason the invention is	11	Q. You understand that, right?
12	so thick and has so much stuff, anytime I'm sorry.	12	A. Yes.
13	Not the invention. Let me strike that.	13	Q. Is there no debate about that in your mind?
14 15	The reason the 1996 application, with all of Mr. Armstrong's ideas in it, is so thick is because he	14 15	<ul><li>A. There is no debate about that.</li><li>Q. Okay. Now, Mr. Cawley pointed again to these</li></ul>
16	showed so many different ways to build a single handle	16	little buttons on the side (indicating) and got
17	6-degree-of-freedom device?	17	Mr. Armstrong to testify that those were additional
18	A. That's correct. There are a lot of different	18	inputs. Could you again explain why that's correct?
19 20	designs shown on how you could implement it internally. Q. But what's the common theme of every one of those	19 20	A. Well, they are not additional inputs that are related to motion or the 6 degrees of freedom or
20	things?	21	describe anything other than motion from a single
22	A. They all have a single handle that you can move in	22	handle. They are just buttons, and the idea of button
23	every direction and twist from left to right, forward	23	has been known from way before this. They are just
24	and backward. They have a single 6-degree-of-freedom	24 25	buttons like the buttons on a mouse.
25	input element.	1.5	
	<b>*</b>		Q. So, Mr. Armstrong's testimony is a hundred percent
	Page 1132		Page 1134
1	Page 1132 Q. Okay. Now here's another one, and I don't want to	1	accurate, right?
1 2	Page 1132 Q. Okay. Now here's another one, and I don't want to spend that much time on it. This is another example,		Page 1134 accurate, right? A. His testimony there was correct, yes.
1	Page 1132 Q. Okay. Now here's another one, and I don't want to	1	accurate, right?
1 2 3 4 5	Page 1132 Q. Okay. Now here's another one, and I don't want to spend that much time on it. This is another example, isn't it? A. It's just another variation. This one is more compact. More of the sensing mechanism is in the	1 2 3 4 5	Page 1134 accurate, right? A. His testimony there was correct, yes. Q. But do you agree with Mr. Cawley's then later representation about those? A. No.
1 2 3 4 5 6	Page 1132 Q. Okay. Now here's another one, and I don't want to spend that much time on it. This is another example, isn't it? A. It's just another variation. This one is more compact. More of the sensing mechanism is in the handle, less inside the case. That's just again a	1 2 3 4 5 6	Page 1134 accurate, right? A. His testimony there was correct, yes. Q. But do you agree with Mr. Cawley's then later representation about those? A. No. Q. Okay. Now, again, in fact, this is did you hear
1 2 3 4 5 6 7	Page 1132 Q. Okay. Now here's another one, and I don't want to spend that much time on it. This is another example, isn't it? A. It's just another variation. This one is more compact. More of the sensing mechanism is in the handle, less inside the case. That's just again a slightly different way of building that same	1 2 3 4 5 6 7	Page 1134 accurate, right? A. His testimony there was correct, yes. Q. But do you agree with Mr. Cawley's then later representation about those? A. No. Q. Okay. Now, again, in fact, this is did you hear Mr. Cawley's questioning of Mr. Armstrong?
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1 2 3 4 5 6 7 8 9 10 11	Page 1132 Q. Okay. Now here's another one, and I don't want to spend that much time on it. This is another example, isn't it? A. It's just another variation. This one is more compact. More of the sensing mechanism is in the handle, less inside the case. That's just again a slightly different way of building that same functionality. Q. Okay. So, again, the reason there's so much text in the application and so many figures is because he's showing all different kinds of ways in which he could	1 2 3 4 5 6 7 8 9 10 11	Page 1134 accurate, right? A. His testimony there was correct, yes. Q. But do you agree with Mr. Cawley's then later representation about those? A. No. Q. Okay. Now, again, in fact, this is did you hear Mr. Cawley's questioning of Mr. Armstrong? A. Yes, I did. Q. Okay. And he says: Okay. Now, what are those things that we now can see much larger that are marked 376?
1 2 3 4 5 6 7 8 9 10 11 12	Page 1132 Q. Okay. Now here's another one, and I don't want to spend that much time on it. This is another example, isn't it? A. It's just another variation. This one is more compact. More of the sensing mechanism is in the handle, less inside the case. That's just again a slightly different way of building that same functionality. Q. Okay. So, again, the reason there's so much text in the application and so many figures is because he's showing all different kinds of ways in which he could build this single-handle 6-degree-of-freedom device,	1 2 3 4 5 6 7 8 9 10 11 12	Page 1134 accurate, right? A. His testimony there was correct, yes. Q. But do you agree with Mr. Cawley's then later representation about those? A. No. Q. Okay. Now, again, in fact, this is did you hear Mr. Cawley's questioning of Mr. Armstrong? A. Yes, I did. Q. Okay. And he says: Okay. Now, what are those things that we now can see much larger that are marked 376? Do you see that?
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18 (Pages 1131 to 1134)

	Page 1151		Page 1153
1 2 3 4 5 6 7 8 9 10 11 12	Q. As you just explained. Okay. And this is in the jury notebook. Again, at page 3 is where the application starts. Could you tell the jury what this is telling us? A. Sure. The first section that's normally included in this type of thing, just to get us a little orientation, is what's called an "abstract of the disclosure." And that's kind of a fancy way of saying "summary." And the idea here is you put kind of a summary of your idea in a paragraph so the people that are looking at the final patent can get a quick idea of what it's about. It's not necessarily all of the	1 2 3 4 5 6 7 8 9 10 11 12	Page 1153 the Patent Office and the court renumbered them in the jury notebook and this is page 9. You agree with that, right? A. Yeah, I agree with that. Q. Okay. Thank you. So, this next page states the summary of the invention in a section titled "Summary of the Invention." Can you tell the jury what this is describing? A. Well, the next step in one of these specifications or disclosures is usually a section which is called "Summary of the Invention" which describes again what
13 14 15 16 17 18 19 20 21 22 23 24 25	detail, but it gives just a quick idea. Q. Okay. And what does it tell you? A. Well, it explains here that we have a multiple-axes controller comprised of a single input member operable in 6 degrees of freedom relative to a reference member. That's the housing. And it says the input member can be of a continuously rotatable trackball-type or a limited rotation joystick-type. And there again he's sort of given the overview that one of them is a trackball that you can roll around as much as you want, and the other one is like a joystick. It has some limited range of motion in	13 14 15 16 17 18 19 20 21 22 23 24 25	<ul> <li>the invention is, now in a little more detail than the abstract.</li> <li>Q. Okay.</li> <li>A. And here</li> <li>Q. Now, you understand, of course, that claims define an invention, right?</li> <li>A. Absolutely. The claims define the invention. They define the scope. I think we saw in a video in the beginning that they are like a fence around the edge and says exactly where the boundary is but</li> <li>Q. And a patent application could have many ideas in it, right?</li> <li>A. Absolutely.</li> </ul>
	Page 1152		Page 1154
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>Q. Are those words consistent with what you saw in all the figures?</li> <li>A. Yes, they are.</li> <li>Q. And what are the words, then, telling you?</li> <li>A. Well, it tells us what the idea is; that is, the the idea is a single input member that you can operate in 6 degrees of freedom; and it is explained that there can be a couple of types of it, one that's built with a ball and another one that is some joystick-type thing.</li> <li>Q. Okay. And I'm going to turn now to page it looks like it's written page 7. I note that there's two different page numbers. Because you're understanding that this came out of the Patent Office records, of the U.S. Patent and Trademark Office?</li> <li>A. Yes, that's correct.</li> <li>Q. This is part of what's called the Patent Office "file history"?</li> <li>A. That's correct.</li> </ul>	12 13 14 15 16 17 18	<ul> <li>Q. Okay.</li> <li>A. And they usually do.</li> <li>Q. Okay. And many times those ideas are summarized in the section of the application called "Summary," right?</li> <li>A. Right.</li> <li>Q. Okay. Could you go ahead and tell me what the summary is telling us?</li> <li>A. Well, it starts off in this section I've highlighted about how it's (reading) the controllers that's what he's talking about provide structuring for 6 degrees of freedom physical input by the hand on a hand-operable single input member. So, he's saying, "I'm making a</li> <li>6-degree-of-freedom single input member device."</li> <li>Q. Okay. Now, here's another little bit of another text that you wanted me to blow up.</li> <li>A. Right.</li> <li>Q. Can you tell me what this is saying?</li> <li>A. Well, here he's explaining that the input member</li> </ul>
19	Q. You understand that?	19	

23 (Pages 1151 to 1154)

	Page 1167		Page 1169
1	have invented these ideas. I'm separating my ideas that	1	Q. Okay. And before we do that, I had noticed
2	I'm claiming from the earlier ideas; and I'm not trying	2	something and I want to ask you about it in the
3	to claim the ideas, for instance, that Mr. Chang	3	specification of the 1996. So, I don't want to confuse
4	invented."	4	you. We're going to come and we're going to start the
5	Q. Okay. So, now I want to ask you now you've	5	scope of 2002.
6	looked at the words and you've looked at the figures and	6	MR. PRESTA: But I'd just like Kam, please,
7	you've looked at the entire 1996 application, right?	7	if she would just put up a part of the specification
8	A. That's correct.	8	that we didn't show and I want to ask you if you would
9	Q. Or you have personally.	9	describe what it means to the jury. And this is on
10	A. Yes, I have.	10	page because we're pulling it up live, I don't have
11	Q. We haven't had a chance to look at every single	11	the page 13 of the jury notebook.
12	piece of it. But do you believe that you have now in	12	BY MR. PRESTA:
13	your review did you come to a conclusion as to somebody	13	Q. And I would like to ask you to describe what this
14	skilled in the art, what they would understand	14	paragraph is getting at in the application before we
15	Mr. Armstrong's idea was in that 1996 application or	15	move on because I want to see if it affects your
16	ideas, plural when he filed it in 1996?	16	opinions.
17	A. Yes.	17	A. Sure.
18	Q. And what is that?	18	THE COURT: And just for the record, you're
19	A. Well, I think there's a couple of key things. One,	19	talking about the original application, right?
20	that there is a single input member movable in 6 degrees	20	MR. PRESTA: Yes, your Honor.
21	of freedom and that it moves relative to the housing and	21 22	BY MR. PRESTA:
22	that it's not a multiple input member device.	22	Q. We went back to the 1996 application. We're
23 24	Q. Okay. So, that's the scope of the 1996 application of what his invention is.	23 24	getting ready to start an analysis of the 2002 claims, but I'm going head to the 1006 application. Linet
24 25	And did you also understand what did he	24	but I'm going back to the 1996 application. I just there's one more thing I forgot to have you look at.
25	Page 1168	23	Page 1170
-			
1	clearly indicate what his invention was not?		A. Sure. Let me take a second to dig into this text a
2	A. Right. He disclaimed the ideas of Chang; that is,	2 3	little bit and explain it.
3	the ideas of having multiple input members. He says	4	Again, people that are writing patent
4 5	that what Chang has is deficient and it's not what he's	5	applications, you want to make a clear description. So,
6	doing. Q. Okay. So, then thank you.	5	
	Q. Okay. 50, then thank you.	6	in this section Mr. Armstrong is writing about how he's
7		6	going to use these terms. He's saying, "I'm going to
7 8	Now so, you now have just described what	7	going to use these terms. He's saying, "I'm going to define the words or the terms 'joystick-type controller'
8	Now so, you now have just described what you believe the 1996 the scope of that application is	7 8	going to use these terms. He's saying, "I'm going to define the words or the terms 'joystick-type controller' and 'trackball-type controller." And he's saying the
8 9	Now so, you now have just described what you believe the 1996 the scope of that application is of Mr. Armstrong's. Now there's something else	7 8 9	going to use these terms. He's saying, "I'm going to define the words or the terms 'joystick-type controller' and 'trackball-type controller." And he's saying the term "joystick-type controller" they both represent
8 9 10	Now so, you now have just described what you believe the 1996 the scope of that application is of Mr. Armstrong's. Now there's something else another process that you undertook. Could you tell the	7 8 9 10	going to use these terms. He's saying, "I'm going to define the words or the terms 'joystick-type controller' and 'trackball-type controller." And he's saying the term "joystick-type controller" they both represent two kinds of hand-operated input devices which both have
8 9	Now so, you now have just described what you believe the 1996 the scope of that application is of Mr. Armstrong's. Now there's something else another process that you undertook. Could you tell the jury what the next step in your analysis was?	7 8 9	going to use these terms. He's saying, "I'm going to define the words or the terms 'joystick-type controller' and 'trackball-type controller." And he's saying the term "joystick-type controller" they both represent
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8 9 10 11 12	Now so, you now have just described what you believe the 1996 the scope of that application is of Mr. Armstrong's. Now there's something else another process that you undertook. Could you tell the jury what the next step in your analysis was? A. Right. Well, first, we have to understand the	7 8 9 10 11 12	going to use these terms. He's saying, "I'm going to define the words or the terms 'joystick-type controller' and 'trackball-type controller." And he's saying the term "joystick-type controller" they both represent two kinds of hand-operated input devices which both have a hand-operable input member which is operated relative to a reference member.
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8 9 10 11 12 13 14 15 16	Now so, you now have just described what you believe the 1996 the scope of that application is of Mr. Armstrong's. Now there's something else another process that you undertook. Could you tell the jury what the next step in your analysis was? A. Right. Well, first, we have to understand the scope of the invention. And I'll make it clear that it's the scope of the invention that's relevant to the issues here. There may be other things that are not related to us that are in that patent that are not something we're going to talk about at all. But the next step, once we understand in our	7 8 9 10 11 12 13 14 15 16 17 18	going to use these terms. He's saying, "I'm going to define the words or the terms 'joystick-type controller' and 'trackball-type controller." And he's saying the term "joystick-type controller" they both represent two kinds of hand-operated input devices which both have a hand-operable input member which is operated relative to a reference member. And the difference in the two controllers is as follows: For a joystick-type controller, the handle can be moved or operated in up to 6 degrees of freedom; but, he's saying this is important the freedom of the input member is only to go with a limited range. So, what he's saying is that I can't
8 9 10 11 12 13 14 15 16 17 18 19	Now so, you now have just described what you believe the 1996 the scope of that application is of Mr. Armstrong's. Now there's something else another process that you undertook. Could you tell the jury what the next step in your analysis was? A. Right. Well, first, we have to understand the scope of the invention. And I'll make it clear that it's the scope of the invention that's relevant to the issues here. There may be other things that are not related to us that are in that patent that are not something we're going to talk about at all. But the next step, once we understand in our minds what the idea was that that inventor had, then we	7 8 9 10 11 12 13 14 15 16 17 18 19	going to use these terms. He's saying, "I'm going to define the words or the terms 'joystick-type controller' and 'trackball-type controller." And he's saying the term "joystick-type controller" they both represent two kinds of hand-operated input devices which both have a hand-operable input member which is operated relative to a reference member. And the difference in the two controllers is as follows: For a joystick-type controller, the handle can be moved or operated in up to 6 degrees of freedom; but, he's saying this is important the freedom of the input member is only to go with a limited range. So, what he's saying is that I can't necessarily rotate that joystick all the way around in
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Now so, you now have just described what you believe the 1996 the scope of that application is of Mr. Armstrong's. Now there's something else another process that you undertook. Could you tell the jury what the next step in your analysis was? A. Right. Well, first, we have to understand the scope of the invention. And I'll make it clear that it's the scope of the invention that's relevant to the issues here. There may be other things that are not related to us that are in that patent that are not something we're going to talk about at all. But the next step, once we understand in our minds what the idea was that that inventor had, then we want to look at those claims that have been asserted and we want to look and see is there support back in that application, can we find information that shows us that	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	going to use these terms. He's saying, "I'm going to define the words or the terms 'joystick-type controller' and 'trackball-type controller." And he's saying the term "joystick-type controller" they both represent two kinds of hand-operated input devices which both have a hand-operable input member which is operated relative to a reference member. And the difference in the two controllers is as follows: For a joystick-type controller, the handle can be moved or operated in up to 6 degrees of freedom; but, he's saying this is important the freedom of the input member is only to go with a limited range. So, what he's saying is that I can't necessarily rotate that joystick all the way around in pitch or yaw because the joystick handle hits the surface, as opposed to a trackball. The input member of a trackball-type device, since it's spherical, has an unlimited amount of travel in rotation.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Now so, you now have just described what you believe the 1996 the scope of that application is of Mr. Armstrong's. Now there's something else another process that you undertook. Could you tell the jury what the next step in your analysis was? A. Right. Well, first, we have to understand the scope of the invention. And I'll make it clear that it's the scope of the invention that's relevant to the issues here. There may be other things that are not related to us that are in that patent that are not something we're going to talk about at all. But the next step, once we understand in our minds what the idea was that that inventor had, then we want to look at the actual claims in this case and we want to look at those claims that have been asserted and we want to look and see is there support back in that	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	going to use these terms. He's saying, "I'm going to define the words or the terms 'joystick-type controller' and 'trackball-type controller." And he's saying the term "joystick-type controller" they both represent two kinds of hand-operated input devices which both have a hand-operable input member which is operated relative to a reference member. And the difference in the two controllers is as follows: For a joystick-type controller, the handle can be moved or operated in up to 6 degrees of freedom; but, he's saying this is important the freedom of the input member is only to go with a limited range. So, what he's saying is that I can't necessarily rotate that joystick all the way around in pitch or yaw because the joystick handle hits the surface, as opposed to a trackball. The input member of a trackball-type device, since it's spherical, has an unlimited amount of travel in rotation. So, he's really explaining that if you make a

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	Page 1171		Page 1173
1	roll or pitch, you can roll that thing as much as you	1	back in 1996?
2	want. But if you have a joystick, you have a limitation	2	Q. Okay. So
3	in the amount you can get in the angular directions	3	A. So, we're going to take a claim at a time and now
4	because you cannot tip the handle that far without it	4	go back now that we're a little bit familiar with the
5	running into mechanically the surface.	5	specification then go back and see if we can find
6	Q. Okay. And the very last sentence there, it covers	6	support for it.
7	Figures 1 through 10 and 13 through 36, which the	7	Q. Okay. So, this is the second step in the process,
8	figures that you put up, that covers all the figures	8	right?
9	that you put up, right?	9	A. Right, second step.
10	A. Right.	10	Q. Okay. Now, we talk about independent claims 14,
11	Q. Okay. And what is that last sentence telling us?	11	16, and 19. Do you understand why we only need to look
12	A. Well, it says a 6-degree-of-freedom trackball	12	at those three instead of also claims 22 and 23 that are
13	embodiment is in the first set of pictures we saw	13	dependent?
14	those and the 6-degree-of-freedom joystick-type	14	A. Yes. The reason is a dependent claim includes the
15 16	embodiments or examples are illustrated in the second	15 16	independent claim it came from. To save space in writing out these things. I guess, it is kind of a
$10 \\ 17$	set of pictures, 13 to 36; and those are the ones we've looked at.	10	writing out these things, I guess, it is kind of a tradition or part of the law that you can write one
18	Q. Okay. And you took that statement into account	18	claim; and then you can say another claim which adds
19	when you formulated your opinion about the scope of the	19	something to the first one. So, it would be claim 19
20	1996 application?	20	but something else.
21	A. Yes, I did.	21	So, if there is no support for the
22	Q. Okay. And, again, your opinion is as you stated it	22	independent claim 19 in the original application, there
23	to the jury?	23	can't be support for the other parts which include 19 as
24	A. Yes.	24	part of their requirements.
25	Q. Okay.	25	Q. So, we're lucky, then, that that simplified our
	Page 1172		Page 1174
1	MR. PRESTA: Now if I could go back to the	1	process a little bit, right?
2	BY MR. PRESTA:	2	A. Right. For a written description analysis, it
3	Q. Now I'd like to move away from the 1996 application	3	simplifies the work we have to do a little bit.
4	and move to a new topic. Okay? And the topic that I'd	4	Q. Right, because we don't have to look at all five of
5	like to ask you questions about has to do now with the	5	the asserted claims; you can just look at these three.
6	scope of the claims that Mr. Armstrong filed in 2002.	6	A. Right. We don't have to look at the independent
7	Do you understand that?	7	claims.
8	A. Yes.	8	Q. Okay. Now, I'm going to ask you first to look at
9	Q. Okay. And you undertook a study of the scope of	9	claim 19. Now, obviously claim 19 has a lot of words in
10	those claims of 2002?		it. Very difficult to just sit here and look at it and
11	A. Yes, I did.	11	understand exactly what it means.
12	Q. Okay. And why are we doing this again? Just to	12	Have you undertaken a process of trying to
13 14	make sure the jury is following why you and I are going through this process.	13 14	find a way to help the jury understand what this claim what this oh, I see I have a let's
$14 \\ 15$	A. Okay. Well, the claims we're going to talk about	$14 \\ 15$	clarify something first. I have a very bad title on
16	here are the claims that are at issue in this case.	16	this, in fact. This could be extremely confusing
17	We're going to go through the claims that have been	17	because the title has a typographical error.
18	asserted, the particular claims that Nintendo has been	18	A. Let's fix that title.
19	accused of infringing; and we're going to ask the	19	Q. Let's fix that so there is no confusion.
20	question for each of those claims and the invention it	20	THE COURT: You read my mind.
21	describes, can we find support for that back in the	21	MR. PRESTA: Try to.
22	original application.	22	BY MR. PRESTA:
23	If we go back for each claim and look, can we	23	Q. Okay. Now, this is the claim that was issued from
24	find the elements of that claim, the full description of them of what that means can we find support for that	24	the patent application that was filed in the year 2000 that was actually added by Mr. Armstrong in 2002. You
25		25	

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	Page 1187		Page 1189
1	Q. Okay. Now, how about this other one, quickly, in	1	Q. Okay. Is there any support for even having three
	2 1996? Did that one help did that one provide the	2	elements that together combine to provide 6 degrees of
	three-input 6-degree-of-freedom or not?	3	freedom of control in his 1996 application?
	A. No, it does not. It doesn't provide three separate	4	A. No, not with independent handles and elements.
	5 input elements. It only has a single handle, a single	5	Q. But they are asserting that claim 19 is actually
e		6	that broad Anascape is aren't they?
	Q. Okay. And, again, when you compare it back to the	7	A. That's correct.
8		8	Q. In fact, in order to prove infringement against
9		9	Nintendo, they need to say it's that broad, don't they?
1		10	A. That's correct.
1	1 describe the claim that he filed in 2002?	11	Q. Now, just to further emphasize, for example, this
1	2 A. No. I would use the term "support" maybe.	12	embodiment of Figure 20, I'd like to ask you
1		13	specifically if we can find support in this embodiment
1		14	for the scope of claim 19. And I'd ask you what this
1		15	illustration is showing that you helped create.
1		16	A. Okay. Well, the first thing is that within this
1	-	17	disclosure not in this particular drawing but in one
1	8 where every time he talks about it he says there is a	18	of the drawings associated with it it is shown that,
1	9 single input member.	19	in fact, this handle (indicating) rocks back and forth,
2	0 Q. Okay. And what about Chang? Does Chang help you	20	that it can tip forward and backward and side to side
2		21	and it has the unidirectional sensors and there is a
2	, I	22	description of that type of four unidirectional sensors
2	0 0	23	that can be rotated with a platform, that rotates on
2	I management of the second sec	24	them and activates them. And, so, that element is
2	5 A. Well, again let's look at Chang. If you recall,	25	present inside the handle.
	Page 1188		Page 1190
1	Chang has three separate elements. And interestingly,	1	Q. So, that particular piece of claim 19 is found in
2	2 there are three elements here. They don't exactly meet	2	the Figure 20. Is that what you're telling me?
1	3 the requirements; but there's three elements at least,	3	A. That's correct.
4	three separate elements. And he says that the Chang	4	Q. Okay. And, also, what about is there a motor as
	5 controller doesn't have a single input member; so, it's	5	Mr. Armstrong described, that you can have a vibration
e		6	feature in his single handle?
	7 lacks a hand-operable single input member. So, in fact,	7	A. Yes. I think we saw another picture again showing
8		8	one of the variations of this design where the cap it
9		9	was kind of a rounded top, and inside there was room for
1	1	10	a motor for vibration.
1		11	Q. So, Mr. Armstrong
1	5 6	12	A. So, that element also has been disclosed in a way
1	J / 11 J	13	that Mr. Armstrong clearly had the idea of putting that
1		14	motor in the handle.
1	0 0	15	Q. So, again, the motor is actually something he did
1	1	16	describe in 1996, right?
1		17	A. That's correct.
1		18	Q. Okay. Now, he also his 1996 also supports these
1 2	, <b>,</b> ,	19 20	on/off buttons, doesn't it? A. That's correct. As we've talked about, there's two
2 2		20	
2	/ 11	21	little buttons shown here on the edge that you could put
14			your fingers over this hockey puck and squeeze on and
2		22	those buttons since the claim asks for more than one
2	3 A. No. There's no support in the 1996 application for	23 24	those buttons since the claim asks for more than one button and two buttons certainly is more than one those
2 2 2	<ul> <li>A. No. There's no support in the 1996 application for</li> <li>the full scope of claim 19 or claim 19 as it's been</li> </ul>	23 24 25	button and two buttons certainly is more than one, those two buttons there meet that claim limitation; so, that

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	Page 1191		Page 1193
1	part of it is present.	1	1996 application?
2	Q. So, so far, so good.	2	A. Well, it certainly does. It's a contradiction of
3	A. There's support for those three elements of the	3	what he's saying is the benefit or the value or even the
4	claim.	4	objective of his invention.
5	Q. Okay. Now, where's the support in this figure for	5	Q. Okay. So, now we're back to claim 19; and I just
6	this other input member that you could control in two	6	want to be very careful here, Mr. Dezmelyk, because we
7	axes and a third input member that you could control in	7	may you made this illustration of claim 19 but the
8	two axes? Is that present in Figure 20?	8	real test, of course, is as I believe you know and I
9	A. No. Because there is no other element that you can	9	want you to understand is the test is that it's
10	hold onto to move to do that. There is just no other	10	really claim 19, the words.
11	element.	11	And I'm going to ask you now: Do you have an
12	Q. In fact, Mr. Armstrong said that that would be a	12	opinion as to whether claim 19 as described, the full
13	bad idea to do that in 1996 when he criticized Chang,	13	scope of that claim, that claim that's being asserted
14	didn't he?	14	against Nintendo in this case, of whether that claim is
15	A. That's correct. He said it was a bad idea.	15	supported back in the 1996 application?
16	Q. So, there is no so, what we're looking for is	16	A. Claim 19 is not supported back in the 1996
17	scope of the full of the invention of claim 19, the	17 18	application.
18 19	entire thing, right? That's the test.	19	Q. Okay.
20	A. Right. It all has to be there. We need support to show that Mr. Armstrong had the idea that he's now	20	THE COURT: All right. Counsel, we're going to go ahead and take a break.
20	asserting is the scope of this claim back in 1996.	20	Ladies and gentlemen, I'll ask you to be back
22	Q. Okay. And what is your conclusion with respect to	22	at 11:30.
23	at least this figure about whether there's support?	23	(The jury exits the courtroom, 11:12 a.m.)
24	A. Well, the test for support is the entire my	24	THE COURT: We went through several rulings
25	understanding is the entire application. And there is	25	earlier this morning. Let me be very clear on that
	Page 1192		Page 1194
1		1	Chipworks one because no one from plaintiffs spoke. The
1 2	no support. Q. Okay. Again this is that figure from 1996	2	precise ruling there is I had not I don't believe I
3	that's put back together instead of being exploded and	3	have yet heard a predicate that would allow that use of
4	you I just ask you if you would agree with me again	4	those documents. So, to just bring them in without the
5	that there is support in this figure for the four	5	proper predicate at this point is what I'm saying.
6	unidirectional sensors in the platform, right?	6	We're in recess now until half past.
7	A. That's correct. You actually can see the platform,	7	MR. PRESTA: Thank you.
8	and you can see the sensors in there.	8	(Recess, 11:13 a.m. to 11:29 a.m.)
9	Q. You can also see the motor.	9	(Open court, all parties present, jury
10	A. Vibration motor. Yep. There's the vibration	10	present.)
11	motor. Goes there (indicating).	11	THE COURT: Counsel?
12	Q. Mr. Armstrong did have the idea for a platform and	12	MR. PRESTA: Thank you, your Honor.
13	the motor back then, right?	13	BY MR. PRESTA:
14	A. That's correct.	14	Q. Mr. Dezmelyk, before the break, you had given us an
15	Q. But and he also we saw before that these	15	opinion on whether, after studying the 1996 application
16	buttons could be somewhere on there, right?	16	and the scope of claim 19 as filed in 2002 you had
17	A. That's right.	17	given us an opinion on whether you think that 2002 claim
18	Q. But again, does this figure show these other two	18	was supported back in the 1996 application. Again,
19	input members that he now claims in 1992 [sic], in this	19	could you just repeat your opinion?
20	1996 drawing?	20	A. Yes. My opinion is that the limitations of claim
21	A. No. There are no other input members. And you can		19 are not supported by the 1996 application.
22	see here is the top of the housing; so, there is nothing	22	Q. Okay. And what's your main reason for that?
23	else that you can touch when it's put together.	23	A. Well, the primary reason is that there was a lack
0 4			
24 25	Q. Okay. In fact, having multiple input members, as this claim requires, would would it conflict with his	24 25	of three input elements. The specification only indicates that Mr. Armstrong had the idea of a single

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	Page 1251		Page 1253
1	pictures. That's a part of the description shows,	1	enough if he even described the invention then, if he
2	again, that the inventor had that idea at the time; that	2	was able to in his mind if he had the whole invention
3	is, it's fully disclosed. His idea is disclosed in the	3	at that point in time, the invention that he's claiming.
4	application or the specification for the patent.	4	Q. You studied that issue, right?
5	Q. Thank you.	5	A. Yes, I did.
6	Now, we have a slide up on the screen now;	6	Q. Did you formulate an opinion of what the answer is
7	and that is could you tell us what that slide is	7	to that question
8	representing?	8	A. Yes, I did.
9	A. Yes.	9	Q that you just posed?
10	Q. First of all, let me just ask you: Did you review	10	And what was it?
11	the application that was filed in 2000?	11	A. That there is no written description support in the
12	Earlier today we went through in detail the	12	application in November, 2000, for the asserted claims.
13	application that was filed in 1996, and now that's	13	Q. You mean even in the even in that application
14	behind us. Now I was asking you to take a look at the	14	that he filed in 2000, there is no description of the
15	application that was filed in 2000, the year 2000, that	15	invention that he later claimed in 2002? Is that what
16	contained the claims that are being asserted in this	16	you're telling me?
17	case; and you undertook a study of that, you've told me,	17	A. Right. There's not enough information to show that
18	right?	18	he had that idea even at that point in time.
19	A. Yes, I did.	19	Q. Okay. Now let me
20	Q. Okay. Now, when you undertook that study, did you,	20	MR. PRESTA: If I could go to that slide.
21	in fact, do the same thing that you did when you were	21	Thank you.
22	trying to find support in the 1996 application for the	22	BY MR. PRESTA:
23	2002 claims?	23	Q. Could you please explain to the jury now,
	A. Yes. I did the same analysis but this time with	24	there's a lot of similar subject matter in the or
25	the November, 2000, application	25	I'm sorry.
	Page 1252		Page 1254
1	Q. Okay.	1	Is there a lot of things that are the same in
2	A and its specification.	2	the 2000 application as in the 1996 application?
3	Q. Because the claims could you just describe the	3	A. Yes.
4	relationship between these three things on the timeline	4	Q. Okay. Are there any differences?
5	for the jury just so people understand now that we're	5	A. Yes, there are.
6	moving to another topic?	6	Q. Okay. Could you just, instead of so we don't
7	A. Sure. We started to see if the claims that were	7	have to go through the whole thing again, is there a
8	written in July, 2002, and that ultimately are in the	8	way or is it possible for you to explain to the jury
9	'700 patent that we're talking about here were supported	9	what the differences are and how those differences
10	first back in this application (indicating), this	10	affected your understanding of what the scope of that
11	written description; and we found they are not.		2000 application was?
12	Now we're going to look to see if they're	12	A. Sure. First off, one of the things, which
13			
14	even supported in the November, 2000, description when	13	mercifully for us in our time today, is the pictures are
15	even supported in the November, 2000, description when Mr. Armstrong filed the patent application that became	14	the same. The drawings are the same; so, we do not need
16	even supported in the November, 2000, description when Mr. Armstrong filed the patent application that became the '700 patent.	14 15	the same. The drawings are the same; so, we do not need to go through all the pictures all over again.
	<ul><li>even supported in the November, 2000, description when Mr. Armstrong filed the patent application that became the '700 patent.</li><li>Q. Now, why is it important that we find a written</li></ul>	14 15 16	<ul><li>the same. The drawings are the same; so, we do not need to go through all the pictures all over again.</li><li>Q. Let me stop you right there just so we understand.</li></ul>
17 10	<ul><li>even supported in the November, 2000, description when Mr. Armstrong filed the patent application that became the '700 patent.</li><li>Q. Now, why is it important that we find a written description to see if there is written description</li></ul>	14 15 16 17	<ul><li>the same. The drawings are the same; so, we do not need to go through all the pictures all over again.</li><li>Q. Let me stop you right there just so we understand.</li><li>You just said that all of the drawings that are in this</li></ul>
18	<ul><li>even supported in the November, 2000, description when Mr. Armstrong filed the patent application that became the '700 patent.</li><li>Q. Now, why is it important that we find a written description to see if there is written description support in the 2000 application?</li></ul>	14 15 16 17 18	<ul><li>the same. The drawings are the same; so, we do not need to go through all the pictures all over again.</li><li>Q. Let me stop you right there just so we understand.</li><li>You just said that all of the drawings that are in this 2000 application are the same drawings that are in that</li></ul>
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18 19 20 21	<ul><li>even supported in the November, 2000, description when Mr. Armstrong filed the patent application that became the '700 patent.</li><li>Q. Now, why is it important that we find a written description to see if there is written description support in the 2000 application?</li><li>A. Well, again, a reason for a patent's claim a claim in a patent to be invalid is if there's no written description. We still have to determine did the</li></ul>	14 15 16 17 18 19 20 21	<ul><li>the same. The drawings are the same; so, we do not need to go through all the pictures all over again.</li><li>Q. Let me stop you right there just so we understand.</li><li>You just said that all of the drawings that are in this 2000 application are the same drawings that are in that 1996 application?</li><li>A. That's correct.</li><li>Q. Okay. Go on, please.</li></ul>

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	Page 1295		Page 1297
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 24	<ul> <li>Q. Thank you. Now, the next product in line is the Wii</li> <li>Classic and the Wii Remote connected together. Do you understand that?</li> <li>A. Yes.</li> <li>Q. Once again, they are not accusing either the Wii</li> <li>Classic Controller by itself or the Wii Nunchuk I'm sorry I'm sorry or the Wii Remote by itself, right?</li> <li>A. Right. It is only the combination of those two controllers that are being accused.</li> <li>Q. Do you have an opinion on whether that combination infringes claim 19?</li> <li>A. My opinion is that it does not infringe claim 19.</li> <li>Q. And why is that?</li> <li>A. Well, a couple different reasons. Primarily, again, that the elements are not present if we go through them. If we look again, we have the same issue where it says a hand-operated controller. The definition of "controller" is a device held in the hand. And if we look for the limitations present in either of these devices, we cannot find it.</li> <li>Q. Now, is there for example, claim 19 requires that there he a rumble motor right?</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24	<ul> <li>A. Yes, because it's intended for playing the really old games. And really there's only a couple games here on this list that it can even play; and one of them, for instance, Paper Mario, this is actually a Nintendo 64 game that was written for running with the Nintendo 64 system. And it can also be used to operate the Wii system itself. In other words, you can use the handles on the controller to operate the Wii menus with them. But if you look at that game, the Paper Mario game, it's not possible in that game to use a third element to manipulate objects or a viewpoint or even to use a second element to manipulate a viewpoint.</li> <li>Q. Are you aware that the Wii Classic Controller do you know if the Wii Classic Controller works with any GameCube games?</li> <li>A. Not to my knowledge.</li> <li>Q. Okay. Are you aware of whether or not, in fact, the there are games that Nintendo has for its system where you can use both the joysticks to do anything?</li> <li>A. I'm unaware of any, but I haven't tried all of the old games nor their 2-D games.</li> <li>Q. But the games you did look at that were identified by the plaintiff, what was your conclusions with respect to those?</li> </ul>
24 25	that there be a rumble motor, right? A. Right.		A. The third element does not do anything, and the
	Page 1296		Page 1298
12 13 14 15 16 17 18	<ul> <li>Q. Is there a rumble motor inside the Wii Classic?</li> <li>A. No, there is not.</li> <li>Q. There's one inside, though, the Wii Remote.</li> <li>A. That's correct.</li> <li>Q. Is that why so, that's why they need to be combined in order to satisfy the claim language, in your view?</li> <li>A. Yes. You wouldn't have the Wii Classic</li> <li>Controller by itself lacks a rumble capability; so, it wouldn't meet that limitation by itself. It only meets it when it's combined with the other controller.</li> <li>Q. Did you actually try to play some games to see what the functionality of the Wii Classic Controller is?</li> <li>A. Yes.</li> <li>Q. And what did you determine?</li> <li>A. Well, there are also particular situations well, first off, there's no rumble. But there's also</li> </ul>	12 13	<ul> <li>second element cannot control or manipulate a viewpoint.</li> <li>Q. Are you aware of any games where both of the joysticks are operable on the Wii Classic Controller?</li> <li>A. No.</li> <li>Q. Have you read did you investigate at all to see, in fact, whether there were games that the Wii Classic Controller could be used, for example, to play GameCube games to require actually two joysticks?</li> <li>A. Right. I have read that it cannot be done. I certainly have not tried every game in the world. I only tried the games that were in this case.</li> <li>Q. Okay. And you said you read and heard and read it could not be done, did I hear?</li> <li>A. Right. My understanding is it cannot be done.</li> <li>Q. And what is your understanding of why it can't be done?</li> <li>A. I don't have a I don't know what the motivation was or why that's the case.</li> </ul>
19 20	particular situations where you cannot meet all of the requirements for navigating a viewpoint and controlling objects with both elements with the Wii Classic	19 20	Q. I understand. Thank you. Now, I'd like to ask you a few questions

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	Page 1303		Page 1305
1	A. Yes, I do.	1	A. In October of 2000.
2	Q. What is it?	2	Q. 2000.
3	A. This, again, is a chart showing, for the games that	3	So, it's absolutely clear, isn't it, that
4	were listed by Anascape in Mr. Howe's report, what you	4	both of those products were released years after
5	could do with the second element and the third	5	Mr. Armstrong's 1996 patent application?
6	element that's those joysticks on the GameCube	6	A. Yes. They are released subsequent to the original
7	Wavebird in terms of controlling an object or	7	1996 application.
8	controlling a viewpoint.	8	Q. And you also mentioned a patent a foreign patent
9	And as you can see, there's no way, there's	9	called either "Goto" or "Goto" (pronouncing), something
10	no case, no example where you actually can control an	10	like that, you remember?
11	object with the third element.	11	A. Yes, I did. It's a to be accurate, it's a
12	Q. Did you do that same that chart is for both the	12	foreign-published patent application from Mr. Goto.
13	GameCube and the Wavebird, isn't it?	13	Q. What was the date of that patent?
14	A. Yes, it is.	14	A. The date of the patent issuing I don't know the
15	Q. So, again, then, do you have an opinion on whether	15	publication date is in April of 1998.
16	or not the GameCube whether the GameCube infringes	16	Q. '98. So, that also is at least two years after
17	any of the asserted claims?	17	Mr. Armstrong's 1996 patent application, correct?
18	A. The GameCube does not infringe any of the asserted	18	A. That's correct.
19	claims.	19	Q. Now, you spent quite a bit of time going through
20	Q. What about the Wavebird?	20	the Sony controllers, both the DualShock and the
21	A. The Wavebird does not infringe any of the asserted	21	DualShock 2, and comparing them to the asserted
22	claims, either.	22	claims at least some of them in the '700 patent,
23	Q. Well, Mr. Dezmelyk, I appreciate your time.	23	correct?
24	MR. PRESTA: I'll pass the witness.	24	A. Yes.
25	THE COURT: Who's for plaintiffs?	25	Q. And isn't it fair to say that you concluded that
	Page 1304		Page 1306
1	MR. CAWLEY: Sorry, your Honor. May I	1	both of those Sony products are using the invention
2	proceed now?	2	described in those claims of the '700 patent?
3	THE COURT: Yes. That's what I was asking,	3	A. No. That's an incorrect statement of my
4	who would take him.	4	conclusion.
5	CROSS-EXAMINATION OF ROBERT DEZMELYK	5	Q. Well, let me ask you this: Isn't it true that you
6	BY MR. CAWLEY:	6	said that they anticipate those claims?
7	Q. Good afternoon, Mr. Dezmelyk.	7	A. Yes. They anticipate the claims.
8	A. Good afternoon.	8	Q. Doesn't that mean, then, that those devices
9	Q. I just have what I hope won't be too many	9	practice or do or have what is described in the claims?
10	questions; although, I know you've been on the stand a	10	A. It means that they meet the claim limitations, but
11	while and naturally that's raised some questions that	11	since
12	I'd like to discuss with you.	12	Q. All right, sir.
13	Let's talk first about the Sony controllers.	13	A they were issued before the
14	You discussed those at some length. Remind us when the	14	Q. That really was my question. That was my question.
1			They meet or have within them what the claims
15	Sony controllers that you discussed were first	15	
16	Sony controllers that you discussed were first introduced to the market.	16	describe, correct?
16 17	Sony controllers that you discussed were first introduced to the market. A. Sure. The Sony the first Sony controller	16 17	describe, correct? A. That's correct.
16 17 18	Sony controllers that you discussed were first introduced to the market. A. Sure. The Sony the first Sony controller introduced was the Sony DualShock, which was introduced	16 17 <mark>18</mark>	<ul><li>describe, correct?</li><li>A. That's correct.</li><li>Q. Okay. Have you had any discussions with any</li></ul>
16 17 18 19	Sony controllers that you discussed were first introduced to the market. A. Sure. The Sony the first Sony controller introduced was the Sony DualShock, which was introduced in June to retail sales. It shipped early, of course,	16 17 18 19	<ul><li>describe, correct?</li><li>A. That's correct.</li><li>Q. Okay. Have you had any discussions with any Nintendo employees in this case?</li></ul>
16 17 18 19 20	Sony controllers that you discussed were first introduced to the market. A. Sure. The Sony the first Sony controller introduced was the Sony DualShock, which was introduced in June to retail sales. It shipped early, of course, to wholesalers; but it was on retail sale I believe	16 17 18 19 20	<ul><li>describe, correct?</li><li>A. That's correct.</li><li>Q. Okay. Have you had any discussions with any Nintendo employees in this case?</li><li>A. Well, briefly I met a couple of Nintendo employees</li></ul>
16 17 18 19 20 21	Sony controllers that you discussed were first introduced to the market. A. Sure. The Sony the first Sony controller introduced was the Sony DualShock, which was introduced in June to retail sales. It shipped early, of course, to wholesalers; but it was on retail sale I believe you'll hear from the Sony witness at the end of June,	16 17 18 19 20 21	<ul> <li>describe, correct?</li> <li>A. That's correct.</li> <li>Q. Okay. Have you had any discussions with any Nintendo employees in this case?</li> <li>A. Well, briefly I met a couple of Nintendo employees here during the course of the trial, I think some of the</li> </ul>
16 17 18 19 20 21 22	Sony controllers that you discussed were first introduced to the market. A. Sure. The Sony the first Sony controller introduced was the Sony DualShock, which was introduced in June to retail sales. It shipped early, of course, to wholesalers; but it was on retail sale I believe you'll hear from the Sony witness at the end of June, in June, 1998.	16 17 18 19 20 21 22	<ul> <li>describe, correct?</li> <li>A. That's correct.</li> <li>Q. Okay. Have you had any discussions with any Nintendo employees in this case?</li> <li>A. Well, briefly I met a couple of Nintendo employees here during the course of the trial, I think some of the people that are</li> </ul>
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	Page 1307		Page 1309
1	employees about how their products work or how they	1	A. Yes. He's one of the main characters in that game.
2	develop their products?	2	Q. And you know, don't you, that you need the Wii
3	A. I have not spoken to them about their product	3	Nunchuk connected to the Remote to play that game?
4	development process or how those products work, no.	4	A. Yes. You can use it you use both of them in the
5	Q. Have you bothered to make yourself aware that some	5	course of playing that game.
6	Nintendo employees have described the Wii Nunchuk as	6	Q. Yes, sir.
7	being an extension of the Wii Remote?	7	And Mr. Ikeda also testified, didn't he, that
8	A. I'm not aware of that, but that's a fair	8	for games that require the use of the Nunchuk, if you
9	characterization. It adds to its capabilities.	9	attempt to use the game with the Wii Remote alone, you
10	Q. And it's true, isn't it, that the Nunchuk doesn't	10	get a message on the screen saying you've got to connect
11	work at all without the Wii Remote.	11	the Nunchuk?
12	A. That's true. That's similar to the way the	12	A. Is that a question?
13 14	Wavebird won't work without its receiver.	13 14	Q. Yes, sir. A. Oh.
15	Q. Okay. But your answer to my question is yes, correct, the Nunchuk won't work without the Remote?	15	Q. I'm sorry.
16	A. Right. The Nunchuk uses the Remote to transmit its	16	A. I'm sorry. I didn't realize if I didn't know if
$10 \\ 17$	information back down to the Wii.	17	you were done.
18	Q. All right. So, it wouldn't surprise you if	18	Q. Let me add onto the end of it. You know that,
19	Mr. Genyo Takeda, who is an engineer and a developer for		don't you?
20	Nintendo, had testified in his deposition that he	20	A. Right. He has said that was the case.
21	considered the Nunchuk to be an invention of the Wii	21	Q. And Ms. Story also testified
22	Remote. That wouldn't surprise you, would it?	22	MR. CAWLEY: I'm sorry. If we could have
23	A. No.	23	that slide back up again.
24	Q. Were you here for the testimony of Mr. Ikeda last	24	BY MR. CAWLEY:
25	week?	25	Q. Ms. Story also testified, didn't she, that Mario
	Page 1308		Page 1310
1	A. Yes, I was.	1	and Luigi and at least one princess are in the game
2	Q. And did you see him playing the boxing game?	2	Super Mario Galaxy?
3	A. Yes, I did.	3	A. Well, again, who were you referring to in the
4	Q. And he needed both the Wii Remote and the Wii	4	testimony there?
5	Nunchuk together to be able to do that, didn't he?	5	Q. Ms. Story's testimony.
6	A. He used both of them when he was playing that game,	6	A. Right. I told you I was not present for her
7	yes.	7	testimony; so, I don't know what she testified to.
8	Q. And he needed them to be able to do that, didn't	8	Q. Okay. Then, are you aware that the characters
9	he, to be able to play that boxing game?	9	Mario and Luigi and the princess all appear in the game
	A. Yes. He used both of them in the course of playing	10	Super Mario Galaxy?
11	the game. Q. And were you here for Ms. Jacqualee Story's	11	A. Yes, those characters all appear in that game.
12 13	testimony last week?	12 13	Q. And you need the Wii Nunchuk to play that game, too, don't you?
$14^{13}$	A. I'm sorry. I was not present for her testimony.	14	A. Yes. You normally use the Nunchuk to play that
$14 \\ 15$	Q. Have you read her testimony?	15	game.
16	A. No, I haven't.	16	Q. And then, finally, are you aware that, as Ms. Story
17	Q. Let me show you a slide, Slide Number 3, that she	17	told us, this character, Samus, in the lower right-hand
18	used in her testimony. Have you seen this slide before?	18	corner of the slide, is the main character of the game
19	A. I mean, I've seen the characters; and I'm generally	19	Metroid Prime 3?
20	familiar with it, yes.	20	A. I'm not familiar with Metroid Prime 3; so, I can't
21	Q. In the upper left there is a character called	21	really comment about Samus or the game.
22	"Link." Do you see that? Are you familiar with Link?	22	Q. Are you aware that you need the Wii Nunchuk to play
23	A. Yes.	23	that game?
24	Q. Do you know that Link appears in the game of Zelda:	24	A. As I said, I'm not I've never played that game,
25	Twilight Princess?	25	not familiar with the details of it; so, I can't really

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	Page 1311		Page 1313
1	comment on how it's played.	1	the Z axis, as well.
2	Q. Let me show you a piece of the transcript of	2	Do you remember hearing that testimony from
3	Ms. Story's testimony. She was asked: And was Samus a	3	Mr. Ikeda?
4	character for the GameCube series, as well?	4	A. Yes, I do.
5	She answered: Yes.	5	Q. Have you ever seen a picture of the interior of the
6	Question: And what game does she appear in	6	accelerometer used in the Wii Remote?
7	on the Wii system?	7	A. I think so. I'm not sure if I've seen a photo of
8	Answer: She looks quite a bit different	8	the exact chip that's on that particular certainly
9	because she wears a suit of armor.	9	I'm not sure they change by version; but I have a
10	Okay.	10	general idea of what that chip looks like on the
11	Answer: But I believe well, she's in	11	surface, yes.
$12^{11}$	Metroid Prime 3.	12	Q. Well, my question is let me ask this
13	Question: All right. And to play that game,	13	specifically: Have you ever seen a Chipworks report for
$14^{13}$	you need to use the Wii Remote and the Nunchuk, don't	14	the chip inside the Wii Remote?
15	you?	15	
16	Answer: Yes. I believe you do.	16	A. Yes, I have. I've seen the Chipworks report. MR. PRESTA: Objection. There's been no
$10 \\ 17$		17	foundation that that Chipworks report
18	Do you have any reason to disagree with Ms. Story about that?	18	MR. CAWLEY: He just testified to that.
$10 \\ 19$		19	
20	A. Well, I don't have a reason to either agree or	20	THE COURT: I can't hear your objection
	disagree. I've never played the game. I'm not familiar	20 21	anyway.
21	with the game. So, I have no more information about	21	MR. PRESTA: I'm sorry. The objection was
22	that than her testimony.	22	foundation with respect to the Chipworks report.
23	Q. Let me ask you some questions about the	23 24	THE COURT: Overruled.
24	accelerometer. You said you were here for Mr. Ikeda's		BY MR. CAWLEY:
25	testimony, correct?	25	Q. You've seen that picture, haven't you?
	Page 1312		Page 1314
1	A. Yes.	1	A. Yes, I have.
2	Q. Let me ask you if you remember this testimony.	2	Q. And I think you just said that as far as you know,
3	Question: Mr. Ikeda, isn't it true that one	3	it's a fair depiction of what's inside the chip?
4	set of capacitors in the accelerometer is used to detect	4	A. Yeah. I could direct your attention to one part of
5	acceleration on the X axis?	5	it where I think is a pretty accurate description of
б	Answer: The X axis can be measured, as well.	6	what the chip is.
7	But at the same time, measurement can take place along	7	Q. Well, it wasn't the description; it was the
8	the Y and Z axes.	8	photograph that I'm interested in. Do you think that
9	Question: Yes, sir. That's my next	9	the photograph that you saw in the Chipworks report was
10	question. Isn't it true that a different set of	10	an accurate depiction of what you saw of what is
11	capacitors is used to detect acceleration on the Y axis?	11	inside the Wii Remote chip?
12	And his answer: Yes, different capacitors	12	A. I think the photograph I saw that shows a single
13	and probes for the Y axis.	13	sense line coming from the proof mass and shows a pair
14	Did you hear that testimony, sir?	14	of drive lines, one for X and one for Y, is an accurate
15	A. Yes, I did.	15	depiction of that chip, yes.
16	Q. Let me ask you about some other of Mr. Ikeda's	16	Q. You heard Mr. Ikeda's testimony that actually is
17	testimony.	17	still up on the screen about capacitors that sense
18	(Reading) So, there are capacitors that sense	18	movement in the accelerometer, correct?
19	movement in the X axis, correct?	19	A. Yes.
20	And he answered: That's correct.	20	
21	And then he was asked: And there are	21	whether they refer to the possibility of using
	This then he was asked. This there are		
22	capacitors that sense movement in the Y axis, correct?	22	capacitors as sensors?
23	capacitors that sense movement in the Y axis, correct? And he answered: That's correct.	23	A. The application Armstrong application?
	capacitors that sense movement in the Y axis, correct?		

63 (Pages 1311 to 1314)

	Page 1315		Page 1317
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>Q. Do you mean that it doesn't?</li> <li>A. No. I wasn't looking for the presence the specific mention of a capacitor as a sensing device.</li> <li>Q. Have you read the application?</li> <li>A. Yes, I have.</li> <li>Q. Well, wouldn't that be pretty important to this case to know if Mr. Armstrong had described as the possibility of using a capacitor as a sensor?</li> <li>A. It would be relevant to the extent it was related to the rest of the structure. I think I'd be happy to look at it if you would like to point me to the place that you're talking about.</li> <li>Q. Okay. Let's look at Slide 2. You see that this is an excerpt from the 1996 application?</li> <li>A. Yes.</li> <li>Q. And it's on in the jury book it's on page 12, line 12. And beginning at the top it says: For the purposes of this teaching, specification and claims, the term "sensor" or "sensors" is considered to include not only simple on/off, off/on contact switches but also proportional sensors such as proximity sensors, variable resistive and/or capacitive sensors. Do you</li> <li>A. That's correct.</li> <li>Q. Do you see that, sir?</li> </ul>	14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. And you've played that game, haven't you?</li> <li>A. Yes, I have.</li> <li>Q. And you played it with the Wii Nunchuk connected to the Wii Remote, correct?</li> <li>A. Yes. This chart, though, is about the Wii Classic and the Wii Remote.</li> <li>Q. Okay. Did you play this game with the Wii Classic connected to the Wii Remote?</li> <li>A. Yes.</li> <li>Q. Well, the test is sorry. You corrected me. This is about the Wii Classic; and, so, you played the game not with a Wii Nunchuk but with the</li> <li>A. Well</li> <li>Q Wii Classic connected to the Wii, correct?</li> <li>A. Well, I think you're mischaracterizing. "Playing" is I tested the game.</li> <li>Q. Okay. Fine.</li> <li>A. And the answer is no, none of those elements do anything. But you wouldn't say that you're playing the game. There's a little bit of a different perspective on it because the game is not played with the Classic</li> </ul>
25	A. Yeah. He's listing that as an example of a type of	25	because I tested each of the games.
	Page 1316		Page 1318
1	sensor. Q. Yes, sir. And does a capacitive sensor use a	1 2	Q. But you can't play the game Zelda: Twilight
3 4 5 6 7 8 9	<ul> <li>capacitor?</li> <li>A. Yes.</li> <li>Q. And is that the type of capacitors that Mr. Ikeda described?</li> <li>A. It's a capacitive sensor measures capacitance, and it's a type of sensor.</li> </ul>	3 4 5 6 7 8 9	<ul> <li>Princess with the Wii Classic Controller, can you?</li> <li>A. As you can see in the chart here, neither of the controls do anything. So, in fact, as this chart is showing, you can't control objects and you can't control viewpoints</li> <li>Q. Right.</li> <li>A with either handle, which means you can't play the game.</li> </ul>
4 5 6 7 8	<ul> <li>capacitor?</li> <li>A. Yes.</li> <li>Q. And is that the type of capacitors that Mr. Ikeda described?</li> <li>A. It's a capacitive sensor measures capacitance,</li> </ul>	4 5 7 8 9	<ul> <li>A. As you can see in the chart here, neither of the controls do anything. So, in fact, as this chart is showing, you can't control objects and you can't control viewpoints</li> <li>Q. Right.</li> </ul>
4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>capacitor?</li> <li>A. Yes.</li> <li>Q. And is that the type of capacitors that Mr. Ikeda described?</li> <li>A. It's a capacitive sensor measures capacitance, and it's a type of sensor.</li> <li>Q. Yes, sir. And it's a type of sensor that was specifically discussed by Mr. Armstrong both in his 1996 application and in the '700 application, correct?</li> <li>A. Right. He discloses he listed certain types of sensors</li> <li>Q. I think my question was: It was listed, correct? And I think you just confirmed that it was, right?</li> <li>A. It was listed, yes.</li> </ul>	4 5 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>A. As you can see in the chart here, neither of the controls do anything. So, in fact, as this chart is showing, you can't control objects and you can't control viewpoints</li> <li>Q. Right.</li> <li>A with either handle, which means you can't play the game.</li> <li>Q. So, the reason that the Wii Classic Controller can't control objects and navigate viewpoints is it's not compatible with this game at all, is it?</li> <li>A. Correct.</li> <li>Q. Okay. So, you could list 50 controllers that aren't compatible with this game and say the same thing about it, couldn't you?</li> <li>A. Well, I don't think there are 50 controllers. And,</li> </ul>
4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>capacitor?</li> <li>A. Yes.</li> <li>Q. And is that the type of capacitors that Mr. Ikeda described?</li> <li>A. It's a capacitive sensor measures capacitance, and it's a type of sensor.</li> <li>Q. Yes, sir. And it's a type of sensor that was specifically discussed by Mr. Armstrong both in his 1996 application and in the '700 application, correct?</li> <li>A. Right. He discloses he listed certain types of sensors</li> <li>Q. I think my question was: It was listed, correct? And I think you just confirmed that it was, right?</li> <li>A. It was listed, yes.</li> <li>Q. Okay. MR. CAWLEY: Let me ask Mr. Martin or Mr. Moreno to pull up your Slide 194.</li> <li>BY MR. CAWLEY:</li> <li>Q. This chart lists, among other games, the game</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>A. As you can see in the chart here, neither of the controls do anything. So, in fact, as this chart is showing, you can't control objects and you can't control viewpoints</li> <li>Q. Right.</li> <li>A with either handle, which means you can't play the game.</li> <li>Q. So, the reason that the Wii Classic Controller can't control objects and navigate viewpoints is it's not compatible with this game at all, is it?</li> <li>A. Correct.</li> <li>Q. Okay. So, you could list 50 controllers that aren't compatible with this game and say the same thing about it, couldn't you?</li> </ul>

64 (Pages 1315 to 1318)

	Page 1319		Page 1321
1	games, is it?	1	Q. And you can't play Animal Crossing with the Wii
2	A. Well, but again, sir	2	Classic Controller, can you? That's a GameCube
3	Q. I'm sorry	3	controller.
4	A I'm writing a rebuttal	4	A. Again, that's correct.
5	Q. I'm sorry. Could you answer my question?	5	Q. You can't play Blood Omen II with the Wii Classic
6	The Atari controller is not compatible with	6	Controller, can you?
7	that game, is it?	7	A. That's correct.
8	A. No, it is not.	8	Q. You can't play Super Mario Galaxy with the Wii
9	Q. Okay. And that doesn't tell merely saying that	9	Classic Controller, either, can you?
10	it doesn't control object and viewpoint or object and	10	A. That's correct.
11	viewpoint doesn't really tell you anything about the	11	Q. Now, you recognize that the left thumbstick on this
12	Atari controller, does it?	12	controller is capable of controlling objects, isn't it?
13	A. It tells you that it does not meet that claim	13	A. Right. That's correct.
14	limitation.	14	Q. But isn't the right thumbstick exactly the same as
15	Q. Well, it tells you, doesn't it, that it's not even	15	the left thumbstick?
16	compatible with the game and never was intended to be	16 17	A. In terms of its internal design
17 18	used with that game in the first place? Isn't that true?	18	Q. Yes, sir.
19	A. Yes, and shows you it doesn't meet the claim	19	A yes. Q. So, wouldn't it be capable, therefore, of
20	limitation for that game.	20	controlling objects, too, if the game designer chose to
21	Q. Isn't that true, sir? Was your answer "yes"?	21	program his or her game that way?
22	A. Yes, along with the rest of my answer, which is	22	A. If a game designer chose to do that, yes, it could
23	that it does not operate that game.	23	be used for similar functionality.
24	Q. I'm sorry, sir. Maybe I'm being unclear in my	24	Q. All right, sir.
25	question. Was your answer "yes"?	25	MR. CAWLEY: Let's take a look at Slide 217.
	Page 1320		Page 1322
1	A. Well, my answer was if you can you please	1	BY MR. CAWLEY:
2	restate the question?	2	Q. Is this another chart that you showed us?
3	Q. Sure. Since the Atari controller isn't even	3	A. Yes, it is.
4	compatible with the game The Legend of Zelda: Twilight		Q. And this chart says that it shows the GameCube
5	Princess, saying that it doesn't control object and	5	controller doesn't move objects or navigate viewpoints
6	viewpoint doesn't really tell you anything about the	6	with Zelda: Twilight Princess, correct?
7	capability of the controller, does it?	7	A. Yes.
8	A. It does tell you that you cannot meet the claim	8	Q. Did you, by any chance, review the game manual that
9	limitation of claim 19 with that controller.	9	comes with Zelda: Twilight Princess?
10	Q. And that game, correct?	10	A. Yeah, but I don't recollect it at the moment.
11	A. Right.	11	Q. Don't worry. I think I have a couple of printouts
12	Q. What if it does it with another game?	12	from that manual.
13	A. That's a different test.	13	Let's take a look at the slide. That's the
14	Q. Are you saying to the jury that it's a fair test to	14	
15	take a controller, to see if it can control objects and	15	
16	viewpoints, and to test that on a game that the	16	Q. Do you see on the left thumbstick that it says
17	controller is not even compatible with?	17	"Control Stick"? Do you see that?
18	A. No. You're mischaracterizing my statement in my	18	A. I do see that.
19	report.	19	Q. And do you see that it says "walk/run/swim/jump"?
20	Q. Well, so, you're not telling the jury that, then,	20	A. Yes. But I also see isn't this the GameCube
21	correct?	21	version of Zelda?
22	A. No.	22	Q. Sir, if I could get you to answer my question.
23 24	Q. It's true that you can't play Shrek the Third with	23 24	A. It says
24	the Wii Classic Controller, either, can you? A. That's correct.		<ul><li>Q. Is that what it says?</li><li>A. Yeah.</li></ul>
25			

65 (Pages 1319 to 1322)

	Page 1323		Page 1325
1	Q. And doesn't it show that the left thumbstick is	1	Mr. John Pederson, who is the senior director of
2	used to make Link swim, run, and jump?	2	technical services at Nintendo?
3	A. Yes.	3	A. No, I was not.
4	Q. And doesn't it show that the right thumbstick is	4	Q. Okay. Did you read his testimony?
5	used to navigate viewpoints?	5	A. No.
6	A. It says "change camera angle," yes.	6	Q. "No"? Let me make sure you've seen it.
7	Q. Okay. Do you quibble with "navigate viewpoints"	7	He was asked the question: The Wii Remote
8	and "change camera angle"?	8	controller we've heard quite a bit about has an
9	A. No, no. That would be navigating a viewpoint.	9	accelerometer in it, correct?
10	Q. So, would the answer to my question be "yes,"	10	He answered: Correct.
11	Mr. Dezmelyk?	11	And that accelerometer in the Wii Remote
12	A. Yes. I see that.	12	provides three separate signals representing
13	Q. Thank you.	13	acceleration along three different axes; isn't that
14	And you say you've actually played these	14	correct?
15	games?	15	He answers: Correct.
16	A. Well, you're putting up here a different game than	16	And you would agree with me, wouldn't you,
17	the one I played and a different one than I am writing	17	that the use of those three outputs is up to the game
18	about in my report. Mine was the Wii version, because	18	designer?
19	I'm testing on the Wii platform.	19	You don't disagree with Mr. Pederson, do you?
20	Q. Now, you heard Mr. Ikeda's testimony, didn't you,	20	A. No.
21	when he was discussing the Wii version of the Mario	21	Q. So, you agree with him and Mr. Ikeda that the
22	game?	22	designer of the game can choose how to use the user
23	A. Yes.	23	inputs and outputs from the controller?
24	Q. Did you hear him say that you can use the Wii to	24	A. Yes. A game designer certainly can choose how they
25	move a ball-like character using the accelerometer?	25	want to use the information that comes from the
	Page 1324		Page 1326
1	A. I don't recall that exact line of testimony.	1	controller, sure.
2			
2	Q. Do you remember Ikeda saying he thought that a game	2	Q. And the outputs from the controller are capable of
⊿ 3	Q. Do you remember Ikeda saying he thought that a game designer could use the output of the accelerometer to	2 3	being used to change a player's point of view?
	designer could use the output of the accelerometer to change the player's point of view?		being used to change a player's point of view? A. Well, they're capable to be used by the game
3	<ul><li>designer could use the output of the accelerometer to change the player's point of view?</li><li>A. Again, I don't remember his exact statement. I</li></ul>	3	<ul><li>being used to change a player's point of view?</li><li>A. Well, they're capable to be used by the game designer the way he wants; and so, a game designer could</li></ul>
3 4	<ul><li>designer could use the output of the accelerometer to change the player's point of view?</li><li>A. Again, I don't remember his exact statement. I don't have any reason to doubt it if you are</li></ul>	3 4	<ul><li>being used to change a player's point of view?</li><li>A. Well, they're capable to be used by the game</li><li>designer the way he wants; and so, a game designer could</li><li>do that, yes.</li></ul>
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66 (Pages 1323 to 1326)

	Page 1335		Page 1337
1	have the whole idea at the time. It's not like we're	1	Q. There may be some times when I also want to ask you
2	looking for the words in the claim.	2	about the application that was filed for the '700
3	Q. Well, obviously we're not looking for the word	3	patent, but I'll try and make that clear when I'm doing
4	"yes" or "no" or "of" or "thumb" or something. But you	4	that.
5	agree with me the word "thumbstick" doesn't appear in	5	A. Thank you.
6	any of the claims of the asserted patent?	6	Q. Okay. So, you have the patent in front of you.
7	A. Right. It does not.	7	You have claim 19, right?
8	Q. Okay. Things like "member" appears or "element" or		A. Yes.
9	"sensor," right?	9	Q. Okay. Claim 19 requires, at the very beginning of
10	A. Right.	10	it, a hand-operated controller, right?
11	Q. And you would also agree with me, wouldn't you,	11	A. Yes.
12	that it's not proper to compare, or to look for and	12	Q. Okay. Let's take a look at Slide 6. Some of these
13	compare, what's disclosed in the claims to the Nintendo	13	pictures are probably becoming pretty darn familiar to
14	products, at least for purposes of this exercise of	14	us by now; so, I'm not going to take a whole lot of time
15	determining whether or not the disclosure in '96 was	15	on them. But you recognize this as claim 3 from the
16	adequate?	16	application, don't you?
17	A. I actually disagree with you there in that the	17	A. Yes.
18	infringement contentions and the testimony put before us	18	Q. And it shows a ball, right?
19	show a scope that's asserted.	19 20	A. Yep.
20	Q. So, you think that when the jury is trying to	20	Q. And it shows a collet or collar around the ball,
21 22	decide this issue and trying to decide whether what Mr. Armstrong put in his claims for the '700 patent	21	right? A. That's correct.
22	whether that's adequately described in the '96	23	Q. And can't the user use the ball with his hands?
23 24	application, you think they should look at Nintendo's	24	A. Yes.
25	products to do that?	25	Q. And can't the user move the collet with his or her
			Q. This can't the user move the conet with his of her
	Dago 1226		Dago 1338
_	Page 1336		Page 1338
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	Page 1339		Page 1341
1	Q. And the pictures, just to skip ahead a little, the	1	A. Yes.
2	pictures that you drew for the second element and third	2	Q. Have you studied this?
3	element, those red things on your picture remember?	3	A. Yes. I'm familiar with that.
4	A. Yes.	4	Q. Are you familiar with how it works?
5	Q. The second and third element don't say anything	5	A. Yes.
6	about the hand, do they?	6	Q. I want to redraw it a little bit so that it will be
7	A. No, they don't.	7	a little clearer and we can make it actually move. So,
8	Q. Okay.	8	let me go to the next slide. This is a 3-D rendering of
9	A. Not in the text.	9	that drawing. Would you take a minute to look at it? I
10	Q. Yes, sir. But let's go back to this part of claim	10	know we've given you these slides in advance; so, you
11	19 that requires a structure allowing hand inputs	11	may have had a chance to look at this.
12	rotating a platform on two mutually perpendicular axes.	12	Does this appear to be a 3-D rendering of
13	And take a look at Slide 8, which is Figure 28. This is	13	
14	from the '96 disclosure, correct?	14	A. Right. It's animated to show the operation of some
15	A. Right.	15	of the mechanism.
16 17	Q. And this thing that we've colored blue at the top,	16 17	Q. And you agree that this is how this embodiment
18	that's a flat surface that's designed for someone to grab and hold, correct?	18	would work, at least parts of it, if it was actually built, right?
19	A. That's correct. It's at the top of the handle.	19	
20	Q. And to rotate it on the pitch and roll axes,	20	Q. Now, you see this light purple rod, correct?
21	correct?	21	
22	A. Right. You can see the pivots down below in that	22	Q. And when that light purple rod moves up and down,
23	assembly.	23	the dark purple rocker in the front rocks back and
24	Q. And are those perpendicular axes?	24	forth, correct?
	A. Yes, they are.		A. Right.
_	Page 1340	—	Page 1342
	Q. All right, sir.	1	
1 2	A little further on, claim 19 requires a	2	Q. And when the light purple rod swings from side to side, the dark purple rocker in the back rocks back and
3	controller including tactile feedback means for	3	forth, right?
4	providing vibration, right?	4	A. Right. I can see that.
5	A. Yes.	5	Q. And these rockers, when they do rock, push down on
6	Q. If we go to the next slide, which will show us	6	these domes underneath them, correct?
7	Figure 21 of the application, we've seen this a number	7	A. Yes.
8	of times. You're familiar with it, aren't you?	8	Q. And each of these domes activates a unidirectional
9	A. Yes, I am.	9	sensor, correct?
10	Q. And the quote in that figure says: Another		A. Right.
11	preferred embodiment. Such a device has additional	11	Q. Okay, sir.
12	benefits including space to place active tactile	12	If we go to the next slide, this shows Figure
13	feedback in a still small handle, et cetera.	13	45 from the 1996 application, correct?
14	Do you see that?	14	A. Yes.
15	A. Yes, I do.	15	Q. And you're aware, aren't you, that this is a
16	Q. By the way, if I forgot to mention it and I'm	16	bi-directional sensor?
17	trying to move along at a reasonable clip here all of	17	A. Right.
18	these slides have references to the specific page number	18	Q. So that instead of just going one direction, this
19	in the juror notebooks where these things appear, if any	19	thing can rock up or down against that potentiometer
20	of the jurors want to flip to that page for any reason.	20	that it's engaged with, right?
21	The next thing that I want to direct your	21	A. Right. As the Element 336 rocks back and forth,
22	attention to in claim 19 requires a second element	22	the Gear 754 would rotate 752; and the Potentiometer 750
23	movable on two perpendicular axes.	23	would change its position.
24	Let's take a look at Figure 22 from the 1996	24	Q. Yes, sir. And, in fact, the '96 application that
25	application. Do you see that figure?	25	Mr. Armstrong filed said that you could replace the

70 (Pages 1339 to 1342)

	Page 1343		Page 1345
1	unidirectional sensors on Figure 22 with these	1	A. That's correct.
2	bi-directional sensors, correct?	2	Q. And there are two buttons here, right
3	A. That's correct.	3	A. That's correct.
4	Q. Okay. Thank you.	4	Q colored blue?
5	The next little bit of claim 19 requires a	5	A. Yes.
6	third element movable on two mutually perpendicular	6	Q. And Slide 16, you see that this is also some quotes
7	axes; is that right?	7	from the '96 application?
8	A. Yes. That's the next claim element in line, the	8	A. (Pausing.)
9	third element section.	9	Q. Yes, sir?
10	Q. Let's take a look at the next slide. This is	10	A. Yeah. I'm just taking a second to read it.
11	another 3-D rendering of that same Figure 22 from the	11	Q. Sure.
12	'96 application, correct?	12	A. I can't read it as fast as you can perhaps.
13	A. Yes.	13	Q. Well, let's just work through them together. At
14	Q. Now, what moves these dark purple rockers in the	14	the top, on page 39, it says: Also shown here are two
15	controller?	15	buttons, 378, for operation by the user's fingers.
16	A. I believe there's a kind of a block that comes down	16	A. Okay.
17	from the plate above it inside.	17	Q. Right?
18	Q. Okay. So, there's a plate above these, correct?	18	A. Yep.
19	A. Right.	19	Q. And on page 40 it says: Additionally, auxiliary
20	Q. And there is an engagement point that is connected	20	secondary buttons select, fire buttons, special
21	to that plate above that engages the top of these two	21	function keys, et cetera are readily integrated.
22	rockers. Fair?	22	See that?
23	A. Right.	23	A. Yep. I see that.
24	Q. And you see these red things are supposed to	24	Q. And then next on page 48 oh, where shall we
	represent those engagement points, right?	25	start (reading) sensors within a 6-degree-of-freedom
	Page 1344	—	Page 1346
1	A. Right. They are two parts inside the structure.	1	device such as for my co-pending application and for
2	Q. And when the light platform moves, this light	2	finger-activated buttons which may be located elsewhere
3	purple platform moves, the engagement points fixed to	3	within the device.
4	the plate above cause the rockers to rock back and	4	A. Right.
5	forth, correct?	5	Q. See that?
6 7	A. Right. We can see it in animation here.	6	(Reading) Such as on either the handle
	MR. CAWLEY: Let's go to the next slide,	8	housing, the base housing, et cetera.
8	14 oh, wait a minute. I skipped something. I'm		Do you see that?
9 10	sorry. Let's stay on this slide and go ahead in the	9	
тU	animation	10	A. Right. I see that.
11	animation.	10	Q. Now I want to give you that alert that I talked to
11 12	Are we ready to rock? Okay. Thank you.	11	Q. Now I want to give you that alert that I talked to you about before. Let's go ahead rather than to have
12	Are we ready to rock? Okay. Thank you. BY MR. CAWLEY:	11 12	Q. Now I want to give you that alert that I talked to you about before. Let's go ahead rather than to have to go back and repeat it and look at something
12 13	Are we ready to rock? Okay. Thank you. BY MR. CAWLEY: Q. The middle shaft here and the small rod that	11 12 13	Q. Now I want to give you that alert that I talked to you about before. Let's go ahead rather than to have to go back and repeat it and look at something similar in the '700 patent. Do you see that, likewise,
12 13 14	Are we ready to rock? Okay. Thank you. BY MR. CAWLEY: Q. The middle shaft here and the small rod that activates the other two rockers also moves back and	11 12 13 14	Q. Now I want to give you that alert that I talked to you about before. Let's go ahead rather than to have to go back and repeat it and look at something similar in the '700 patent. Do you see that, likewise, the '700 patent says: Also shown here are two buttons,
12 13 14 15	Are we ready to rock? Okay. Thank you. BY MR. CAWLEY: Q. The middle shaft here and the small rod that activates the other two rockers also moves back and forth and side to side along with the bottom platform,	11 12 13 14 15	Q. Now I want to give you that alert that I talked to you about before. Let's go ahead rather than to have to go back and repeat it and look at something similar in the '700 patent. Do you see that, likewise, the '700 patent says: Also shown here are two buttons, 378, for operation by the user's fingers?
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	Page 1347		Page 1349
1 2 3 4 5 6 7 8 9 10 11 12 12	<ul> <li>"Plurality" means what?</li> <li>A. Well, a plurality is more than one.</li> <li>Q. More than one. So</li> <li>A. Two is a plurality.</li> <li>Q disclosure of two buttons satisfies the disclosure at least as far as a plurality is concerned, correct?</li> <li>A. It satisfies the disclosure of a button alone. It doesn't necessarily satisfy the disclosure overall.</li> <li>Q. Well, my question is about</li> <li>A. But in this case it does disclose two buttons, yes.</li> <li>Q. Okay. And that's a plurality, right?</li> <li>A. Yes.</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>button claim. Yeah, I'm familiar with it.</li> <li>Q. Okay. In the next slide we've got a couple of quotes, one from the '96 application and one from the '700 patent. Do you see that?</li> <li>A. Yes.</li> <li>Q. And the first one says: The invention can be constructed with sensors as simple as electrical contacts or more sophisticated proportional and pressure-sensitive variable output sensors, or the like. Isn't that accurate?</li> <li>A. Yes.</li> <li>Q. And the '700 application, likewise, it says the same thing, doesn't it?</li> </ul>
14 15 16 17 18 19 20 21 22 23 23 24	<ul> <li>Q. Okay. If we go on to claim 19, it next requires a button sensor, correct?</li> <li>A. Yeah. We're reading backwards up from the bottom or we're reading down from "buttons." I understand.</li> <li>Q. Yep.</li> <li>A. We've switched applications, but we're now reading down.</li> <li>Q. Right.</li> <li>A. I just wanted to make sure I was following.</li> <li>Q. Yes, sir.</li> </ul>	14 15 16 17 18 19 20 21 22 23 23 24	<ul> <li>A. Right. I mean, the text here is obviously accurate. It's the</li> <li>Q. Yes, sir.</li> <li>A. The text is there.</li> <li>Q. Let's take a look at Slide 20. This is sort of the same setup. From the '96 application, Mr. Armstrong disclosed, did he not, Figure 42 which shows a compound membrane sensor sheet 700 containing a compound sensor 702 which, in essence, is a commonly known simple switched membrane sensor on top of my novel proportional membrane sensor.</li> </ul>
25	A. Thank you.	25	Do you see that?
	Page 1348		Page 1350
1 2 3 4 5 6 7	<ul> <li>Q. We're reading back claim 19; and we've got to find support for a button sensor in claim 19, right? So, let's look back now. We're back in the '96 application. Does this figure show button sensors?</li> <li>A. Yes, it does.</li> <li>Q. All right, sir. They are associated with the dark blue buttons, colored light blue, right?</li> </ul>	1 2 3 4 5 6 7	<ul> <li>A. Right. I do think it's appropriate to note here that this illustration is and this discussion of this proportional sensor invention is a different topic.</li> <li>Q. Well A. It's not.</li> <li>Q. I understand that's what you say, sir; but my question is have you read these disclosures before?</li> </ul>
8 9 10	<ul><li>A. Yes.</li><li>Q. These are the buttons (indicating); and these are the button sensors (indicating), accurate?</li></ul>	8 9 10	<ul><li>A. Yes, I have.</li><li>Q. And you see that the same one is in the '700 as is in the '96?</li></ul>
11 12 13 14 15 16 17 18	<ul> <li>A. Yes.</li> <li>Q. Wouldn't be much point in a button without a button sensor, would there?</li> <li>A. No.</li> <li>Q. Okay. Let's now turn our attention to the '700 patent and go over some of the other claims. I think that has taken us through claim 19. Let's look at claim 22. Maybe you know it well enough, or if you want</li> </ul>	11 12 13 14 15 16 17 18	<ul> <li>A. Yes.</li> <li>Q. Claim 23 requires, among other things, a rotary potentiometer, correct?</li> <li>A. That's correct.</li> <li>Q. And on Slide 21 we already saw this picture, I think, earlier. This is in the '96 application, correct?</li> <li>A. Right.</li> </ul>
19 20 21	to turn to it. Claim 22 requires a button sensor that outputs data proportionate to depression of one of said	19 20 21	<ul> <li>A. Right,</li> <li>Q. And that is a rotary potentiometer, is it not?</li> <li>A. That's correct.</li> <li>Q. And, in fact, we don't have much doubt about it</li> </ul>

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3       A. That's correct.       3       A. Yes.         4       Q. Now going back up to claim 16 for a minute.       4       Q. Okay. And the next slide, these are some         5       Claim 16 requires two sheets on two planes, correct?       5       quotations again both from the '96 application ar         7       Q. Let's take a look at Figure 29 from the 1996       5       inger-depressible buttons. And we read from '96 to save time, from the '700 patent application abd         8       applications in color. So, this has been colored, 1s       9       since, as you told us, you don't file patent       9         10       applications in color. So, this has been colored, 1s       10       Q. Is that referring back to those buttons we just         11       this part on the bottom is the sheet, correct?       11       saw?         12       A. Right. And there's kind of a sandwich of sheets in       14       Q. Okay. And the same thing, two finger select         15       this particular illustration, the way it's peeled apart       15       switches, was disclosed in the '700 application. Fa         16       at the end.       17       Q. Okay. And these you understand for purposes of the       17         18       drawing these parts of the sandwich have been opened       18       to this later that the two finger select switches an         19       up so that we can see	2Q. Could be depressible by a single finger, correct?3A. Yes.9999999991091091091091010109101010111012101311141015101614171416141714161417141617171018101914101511161216131614171517161717111712171418141914101410141114121414	e next slide, these are some both from the '96 application and the '700 patent application about buttons. And we read from '96 th r select switches, right? g back to those buttons we just at that exact 146 is the same one, e same thing, two finger select osed in the '700 application. Fair while we're at it although I'll get the two finger select switches are	ninu s, co 199 colo oreo	16 for a m two planes 9 from the 1sly been co ile patent	r, correct? ct. back up to claim i es two sheets on t look at Figure 29 d this has obvious d us, you don't fil- olor. So, this has	entiometer, co nat's correct. ow going back 16 requires ty es. t's take a look ttion. And th as you told us	A. That A. That Claim I A. Ye D. Let pplica ince, a pplica	or A Q C A A A ap sii S i t h	2 3 4 5 6 7 8 9 10
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8       application. And this has obviously been colored, 9       8       there are two finger select switches, right?         9       since, as you told us, you don't file patent 10       applications in color. So, this has been colored. Is 11       10       Q. Is that referring back to those buttons we just 11         11       this gon the top a sheet? 12       A. Yes. This is 13       11       saw? 12       A. Fight. And there's kind of a sandwich of sheets in 15       12       A. Tim not sure that that exact 146 is the same one 13       14       Q. Okay. And the same thing, two finger select 15       15         14       A. Right. And there's kind of a sandwich of sheets in 15       14       Q. Okay. And the same thing, two finger select 15       15         15       this particular illustration, the way it's peeled apart 16       15       14       Q. Okay. And the same thing, two finger select 15       16         17       Q. Okay. And these you understand for purposes of the 19       17       Q. And you see, while we're at it although I'll g 16       16       18       16         18       trawing these parts of the sandwich have been opened 12       17       Q. And you see, while we're at it although I'll g 14       19       described both in the '96 application and in the '700 20       application as secondary input members? 21       20       application as secondary input members? 22       21       A. Yes. I see that. 23       22 <th>been colored, itent8there are two finger select switches, right?9A. Right.9A. Right.9A. Right.9A. Right.10Q. Is that referring back to those buttons we just11saw?12A. I'm not sure that that exact 146 is the same one,but it's a button.lwich of sheets in149Q. Okay. And the same thing, two finger select15switches, was disclosed in the '700 application. Fair?16A. Right.17Q. And you see, while we're at it although I'll get</th> <th>r select switches, right? g back to those buttons we just at that exact 146 is the same one, e same thing, two finger select osed in the '700 application. Fair while we're at it although I'll get the two finger select switches are</th> <th>olo ore</th> <th>usly been co ile patent</th> <th>d this has obvious d us, you don't fil olor. So, this has</th> <th>ation. And thas you told us</th> <th>pplica ince, a pplica</th> <th>ar sin ar L th</th> <th>8 9 10</th>	been colored, itent8there are two finger select switches, right?9A. Right.9A. Right.9A. Right.9A. Right.10Q. Is that referring back to those buttons we just11saw?12A. I'm not sure that that exact 146 is the same one,but it's a button.lwich of sheets in149Q. Okay. And the same thing, two finger select15switches, was disclosed in the '700 application. Fair?16A. Right.17Q. And you see, while we're at it although I'll get	r select switches, right? g back to those buttons we just at that exact 146 is the same one, e same thing, two finger select osed in the '700 application. Fair while we're at it although I'll get the two finger select switches are	olo ore	usly been co ile patent	d this has obvious d us, you don't fil olor. So, this has	ation. And thas you told us	pplica ince, a pplica	ar sin ar L th	8 9 10
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<ul> <li>drawing these parts of the sandwich have been opened up so that we can see what they look like; but, in fact, they are meant to be sandwiched together like in the corner over there, correct?</li> <li>A. Right. They would be assembled and, you know, glued or together into one composite.</li> <li>Q. Sure. And here (indicating), this is what I'm going to call a "plus" or "cross-shaped stack" of</li> <li>Sheets, isn't it?</li> <li>A. Yes.</li> <li>Sheets, isn't it?</li> <li>A. Yes.</li> <li>Q. And this (indicating) here, which sort of looks</li> <li>to this later that the two finger select switches are described both in the '96 application and in the '700 application as secondary input members?</li> <li>A. Yes. I see that.</li> <li>Q. Okay. Now, claim 16 that we're talking about actually begins with the term a "3-D graphics" controller," correct?</li> <li>A. Correct.</li> </ul>		the two finger select switches are							
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24       Q. Sure. And here (indicating), this is what I'm going to call a "plus" or "cross-shaped stack" of       24       controller," correct?         25       going to call a "plus" or "cross-shaped stack" of       25       A. Correct.         Page 1352         1       sheets, isn't it?       1       Q. And in Slide 26 we see that Mr. Armstrong         2       A. Yes.       2       although in '96 he often used the phrase "6 degrees"         3       Q. And this (indicating) here, which sort of looks       3       freedom," he did talk about "3-D graphic image"			you						
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(4) like frog lily pads or something these are a (4) controllers," correct?									4
5 circular-shaped stack of sheets that have been opened up 5 A. Correct.									
6 to let us see that they are, in fact, made of different 6 Q. And, in fact, he described that his invention, hi	le of different 6 Q. And, in fact, he described that his invention, his	e described that his invention, his	<mark>liff</mark> e	, made of d	they are, in fact,	s see that the	o let us	to	6
			but						
10 depressible by a single finger, right? 10 graphic image controllers.		rollers.							
11 A. Yes. I don't have the claim language memorized; 12 but - Dight That's a statement from his amplication		statement from his section i	nem	anguage m	have the claim la	es. I don't hav			
12but12A. Right. That's a statement from his application13Q. I'm sorry.131996.		r statement from his application if				a correct			
		e same thing in the year 2000 in f			eve so				
15       Q. Would you like to consult it?       15       '700 application; isn't that right?				2					
16       A. No. That's fine.         16       A. Well, except that he changed "6-degree-of-free		at he changed "6-degree-of-freed		-					
17 Q. Okay. [17] to "3-D"									
18 A. You know that pretty well. 18 Q. Okay.	$1 \pm 7$ 10 3-10				hat pretty well.				
19 Q. Let's go to the next slide. Does this from the 19 A in the line where		here						<mark>)</mark> Q	19
20 1996 application disclose a button depressible by a 20 Q. Right.	18Q.Okay.his from the19A in the line where		ble		he next slide. Do				
	18Q. Okay.his from the19A in the line wherepressible by a20Q. Right.				he next slide. Do	pplication dis	996 ap		
	18Q. Okay.his from the pressible by a19A in the line where 20Q. Right. 2121A it says "in a 3-D controller," "in a	m controller."		on depressit	he next slide. Do i disclose a buttor	pplication dis finger?	996 ap	L si	
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24finger.24controllers in both '96 and 2000, those things are in25Q. Either one of them?25the language we just read, aren't they?	18Q. Okay.his from the pressible by a19A in the line where20Q. Right.21A it says "in a 3-D controller," "in a226-degree-of-freedom controller."	f his talking about 3-D graphic im		on depressit	he next slide. Do a disclose a buttor . There's two butt	pplication dis finger? es, it does. Th er could be a	996 ap ingle f A. Ye he othe	L sin 2 A 3 th	22 23

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Page 1355		Page 1357
<ul> <li>A. Yes.</li> <li>Q. Okay. Let's take a look at claim 14, if you'd like to look at it or if you just want to take my word for it.</li> <li>I'm going to ask you: Claim 14 requires six axes of control, correct?</li> <li>A. Yes.</li> <li>Q. If we look at the next slide, first from the '96 application, this quote says: Ideally a pair of unidirectional sensors are used to describe each axis, thus 6 pair of unidirectional sensors, 12 individual sensors, can describe 6 degrees of freedom. Was that in Mr. Armstrong's '96 application?</li> <li>A. Yes. That's a statement from the application.</li> <li>Q. Was it in his application for the '700 patent?</li> <li>A. Yes, it is.</li> <li>Q. And when I ask you if it is in the '700 patent, you understand that I'm referring to the '700 patent specification?</li> <li>A. Well, yes. I understand that. Just for clarity, the citation there is to the '700 patent; but the '700 patent specification from that application from 2000 is printed in the patent.</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 4	requires is a sheet connected to at least eight sensors, correct? A. Yes. Q. Okay. Let's go back and take a look at the '96 application and the '700 specification. We see here the description that Mr. Armstrong gave back in '96 that Figure 2 shows a side view of a 6-degree-of-freedom two-planar device using one circuit board per plane for support of sensors and electronics with eight sensors located on a plane in the base. Do you see that, sir? A. Yes. Q. And essentially, except for the change of "6-degree-of-freedom" to "3-D," the same thing is disclosed in the '700 specification, correct? A. Right. Again, we see that "6-degree-of-freedom" has been changed to "3-D." But other than that, the remainder of it is the same sentence. Q. Okay. Let's take a look at some other parts of the '96 application now. On Slide 29, you see here that this is a discussion of the rotatable collet. Right? A. Yes. Q. And you described this, I think, as being like a
A. So, the same document	24 25	collar around the trackball, correct? A. That's correct.
Page 1356		Page 1358
<ul> <li>Q. Right.</li> <li>A appears in both places.</li> <li>Q. But technically the exercise as it relates to the '700 patent is in comparing the claims to the specification. You understand that?</li> <li>A. Right.</li> <li>Q. So, the questions I've asked you about what's in the '700 patent, you understand that I've been showing you quotations out of the patent specification.</li> <li>A. Right.</li> <li>Q. Which should be the same as what's in the application.</li> <li>A. Right.</li> <li>Q. But since the exercise is a comparison of the claim to the specification for purposes of the '700 patent, I just want to make sure I haven't created any confusion.</li> <li>You're with me, right?</li> <li>A. Right. I understand that. I am relying on your representation and I believe it's correct that the '700 patent has the same specification these parts of it as not in the claims but this part of it, the relevant part, as it did in 2000. I believe that's the case.</li> <li>Q. Okay. We were talking about claim 14 and things</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>Q. I guess we've also heard it referred to as a "collet," a "collar," a "cup"; but all the same thing we're talking about, right?</li> <li>A. Right. Those words all describe that same shape that's the element that's directly around the ball.</li> <li>Q. Okay. And Mr. Armstrong informed readers of his '96 application, didn't he, that the rotatable collet can serve as an additional secondary input member for whatever use may be desired by a software designer or end user. Did you read that, sir?</li> <li>A. Yes.</li> <li>Q. And he disclosed the same thing when he got the specification for his '700 patent, didn't he?</li> <li>A. Yes, he did.</li> <li>Q. You testified at some length this morning about your opinion about the requirement in the '96 application of a single input member movable in 6 degrees of freedom, correct?</li> <li>A. Yes.</li> <li>Q. A single input member. Let's take a look at Slide 30. We've seen this before. We've seen the colored portion before. But do you remember this part of the 1996 application A. Yes, I do.</li> </ul>
	<ul> <li>A. Yes.</li> <li>Q. Okay. Let's take a look at claim 14, if you'd like to look at it or if you just want to take my word for it.</li> <li>Tm going to ask you: Claim 14 requires six axes of control, correct?</li> <li>A. Yes.</li> <li>Q. If we look at the next slide, first from the '96 application, this quote says: Ideally a pair of undirectional sensors, 12 individual sensors, can describe 6 degrees of freedom.</li> <li>Was that in Mr. Armstrong's '96 application?</li> <li>A. Yes. That's a statement from the application.</li> <li>Q. Was it in his application for the '700 patent?</li> <li>A. Yes, it is.</li> <li>Q. And when I ask you if it is in the '700 patent, you understand that I'm referring to the '700 patent specification?</li> <li>A. Well, yes. I understand that. Just for clarity, the citation there is to the '700 patent specification from that application from 2000 is printed in the patent.</li> <li>Q. Okay.</li> <li>A. So, the same document</li> </ul> Page 1356 Q. Right. <ul> <li>A appears in both places.</li> <li>Q. But technically the exercise as it relates to the '700 patent is in comparing the claims to the specification. You understand that I've been showing, you quotations out of the patent specification. <ul> <li>A. Right.</li> <li>Q. So, the questions I've asked you about what's in the '700 patent, you understand that I've been showing, you quotations out of the patent specification.</li> <li>A. Right.</li> <li>Q. So, the questions I've asked you about what's in the '700 patent, you understand that I've been showing, you quotations out of the patent specification.</li> <li>A. Right.</li> <li>Q. Which should be the same as what's in the application.</li> <li>A. Right.</li> <li>Q. But since the exercise is a comparison of the claim to the specification for purposes of the '700 patent, I just want to make sure I haven't created any confusion. You're with me, right?</li> <li>A. Right. I understand that. I am relying on your representation and I believe it's correct</li></ul></li></ul>	A. Yes.1Q. Okay. Let's take a look at claim 14, if you'd like to look at it or if you just want to take my word for it.3

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	Page 1359		Page 1361
1	serve as an additional secondary input member? That's	1	ask you about it. But this is sort of my opportunity to
2	what the language we just read is referring to, isn't	2	focus our attention narrowly on the point that I want to
3	it?	3	make here.
4	A. Right.	4	Doesn't he tell us here that the
5	Q. And turning on the same issue to the '700 patent,	5	joystick-type controller may be manipulable or operable
6	same figure, same language, correct?	6	in up to 6 degrees of freedom?
7	A. That's correct.	7	A. Yes. But in the context, that doesn't mean what
8	Q. Both of them in which Mr. Armstrong made clear that	8	you're implying it means.
9	the collet can serve as a secondary input member,	9	Q. Well
10	correct?	10	A. What it means is it's comparing
11	A. That's correct.	11	Q. Don't you understand, sir, that "up to" generally
12	Q. Let's take a look at some more language from the	12	means you can have at least that many but you may have
13	'96 application on this issue of a single input member.	13	less?
14	In '96 Mr. Armstrong disclosed to the Patent Office the	14	A. In general. But you have to read the sentence
15	embodiment shown in Figure 8 is also shown with two	15	before it and the sentence after it, which is the
16	thumb select switches and two finger select switches,	16	context of the comparison between the joystick handle
17	secondary input members.	17	and the trackball handle. And I think just taking that
18	Do you see that?	18	quote out without the sentences around it makes a
19	A. Yes, I do.	19	suggestion that is really incorrect.
20	Q. And do you see that in the '700 patent	20	Q. Are you familiar with this quotation from the
21	specification, he tells us that the embodiment shown in	21	specification of the '700 patent where Mr. Armstrong
22	Figure 8 is also shown with two thumb select switches	22	informs us that the controllers in preferred
23	and two finger select switches, which he tells us are	23	embodiments, while not restricted or required to be full
24	secondary input members.	24	6 degrees of freedom do you see that?
25	Do you see that, sir?	25	A. Yes.
	Page 1360		Page 1362
1		1	
1	A. Yes, I do see that.	1	Q. Do you understand that he's telling us there that
2	<ul><li>A. Yes, I do see that.</li><li>Q. And if we go to the next slide, you see that in the</li></ul>	1 2 3	Q. Do you understand that he's telling us there that you can have a controller that's up to 6 degrees of
2 3	<ul><li>A. Yes, I do see that.</li><li>Q. And if we go to the next slide, you see that in the discussion of the single input members, Mr. Armstrong.</li></ul>	2	Q. Do you understand that he's telling us there that you can have a controller that's up to 6 degrees of freedom but it's not required to have that many?
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75 (Pages 1359 to 1362)

	Page 1363		Page 1365
1	A. That's correct.	1	A. Well, you're asking me to comment on testimony I
2	Q. But this same figure is also Figure 2 in the '96	2	haven't seen.
3	application, correct?	3	Q. Would you like to see it, sir?
4	A. Yes, it is.	4	A. If you'd like, if you think it would be helpful.
5	Q. Okay. And you have told the jury that the '96	5	MR. CAWLEY: May we play that brief clip of
6	specification does not show multiple input members that	6	the deposition, your Honor?
7	together provide 6 degrees of freedom, haven't you?	7	THE COURT: It's your time.
8	A. I'm not sure that's an exact quote, and I think	8	MR. CAWLEY: Okay.
9	that may be a mischaracterization of what I said.	9	BY MR. CAWLEY:
10	Q. In what way?	10	Q. Let's see Mr. Koshiishi's testimony on this
11	A. Well, I think we went through this in detail, that	11	subject.
12	there is a 6-degree-of-freedom input element 12 that	12	(The following testimony was presented by
13	moves in a full 6 degrees of freedom and that there is a	13	video.)
14	second collet around it that rotates that's a second	14	Question: Figure 2 of the '700 patent
15	input element and that it moves back and forth with	15	depicts a cross-section of a game controller that is
16	the ball. And we had lengthy testimony on that. But I	16	described by this patent; is that correct?
17	think that that would more accurately characterize my	17	Answer: Yes.
18	description of that than what you	18	Question: Now, in the middle of the figure,
19	Q. Okay. And you haven't talked to any Nintendo	19	there is a circle that has been labeled with the
20	engineers about that?	20	number "12"; is that correct?
21	A. About that?	21	Answer: Yes.
22	Q. What you just said	22	Question: What is that?
23	A. The trackball	23	Answer: It's a ball sorry. It's a
24	Q. What you just said or this figure.	24	sphere.
25	A. No.	25	Question: Now, the ball is surrounded by a
_	Page 1364		Page 1366
1		1	
1 2	Page 1364 Q. Specifically, have you talked to or met Mr. Koshiishi?	1 2	Page 1366 cup-like structure that has been labeled "16"; is that correct?
	Q. Specifically, have you talked to or met		cup-like structure that has been labeled "16"; is that
2	Q. Specifically, have you talked to or met Mr. Koshiishi?	2	cup-like structure that has been labeled "16"; is that correct?
2 3	<ul><li>Q. Specifically, have you talked to or met</li><li>Mr. Koshiishi?</li><li>A. No. I do not know Mr. Koshiishi.</li></ul>	2 3	cup-like structure that has been labeled "16"; is that correct? Answer: Yes.
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<mark>234</mark> 56	<ul> <li>Q. Specifically, have you talked to or met Mr. Koshiishi?</li> <li>A. No. I do not know Mr. Koshiishi.</li> <li>Q. Were you in court when Mr. Koshiishi's deposition was played?</li> <li>A. No, I was not.</li> </ul>	2 3 4 5 6	cup-like structure that has been labeled "16"; is that correct? Answer: Yes. Question: Can you tell from looking at the figure whether the structure of the game controller allows it to sense the linear movement of the cup? Answer: Yes. Question: If you moved the cup from the
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1 2 3 4 5 6 7 8 9 10 11 12	MR. CAWLEY: No, your Honor. We understand. THE COURT: And same with defendants? MR. GUNTHER: Yes, sir. THE COURT: Okay. Please step forward, sir. You remember, of course, sir, that you are still under oath. THE WITNESS: I do. THE COURT: All right. Go ahead. MR. CAWLEY: Thank you. DIRECT EXAMINATION OF ROBERT HOWE CALLED ON BEHALF OF THE PLAINTIFF BY MR. CAWLEY:	1 2 3 4 5 6 7 8 9 10 11 12	springs from the corner. Now, this is simplified, again. The real mass is actually a ring, and the springs have a different shape. But this is basically how the device works. And on each side here (indicating), there is a capacitor. And the real structure has finger-shaped structures that move away from the central mass. But they function the way this is shown. Okay. So, as the accelerometer I should say as the case of the Wii is moved up and down, we saw from our animation the other day that the mass lags behind a little. So, as the controller goes up, the
13	Q. Professor Howe, why have you returned today?	13	mass is behind it first, then catches up. And as you go
14	A. Well, I've been listening to the Nintendo experts	14 15	down, the mass is behind, then catches up.
15 <mark>16</mark>	in the testimony; and I've come to offer some comments. Q. And what is your opinion?	16	BY MR. CAWLEY: Q. Let me interrupt you, Professor Howe; but why don't
17	A. Well, I'm of the opinion that the '700 patent	17	we go ahead and see that animation.
18	claims we've been discussing are infringed by the	18	A. Great.
19	Nintendo controllers; and those claims are entitled to	19	Oh, yeah. Here we go. Okay. So, the hand
20	the 1996 priority date.	20 21	moves
21 22	Q. And do you also have an opinion as to whether those claims that have been asserted in this case are	22	THE COURT: Is that chart in the way of the can all the jurors see the screen?
23	supported by the specification of the '700 patent?	23	A. So, as the controller moves back and forth, the
24	A. Yes, they are.	24	mass stays in place at first; and then the springs apply
25	Q. Let's talk first about accelerometers. We heard a	25	enough force that it starts to move and catch up.
	Page 1413		Page 1415
1	Page 1413 good bit of testimony about that yesterday; and then, of	1	Page 1415 Now, that displacement is just what these
2	good bit of testimony about that yesterday; and then, of course, we heard about it last week, as well. And	1 2	Now, that displacement is just what these capacitive sensors measure. So, as we go back and forth
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2     3     4     5     6     7     8     9     10     11     12     13     14     15     16     17     18     19     20     21     1	<ul> <li>good bit of testimony about that yesterday; and then, of course, we heard about it last week, as well. And you've already given us some explanation of accelerometers; so, I don't want to repeat all that.</li> <li>But did you hear Mr. Dezmelyk yesterday testify about the structure of the accelerometer in the Wii Remote?</li> <li>A. Yes, I did.</li> <li>Q. And did you watch him draw a sketch of that?</li> <li>A. Yes.</li> <li>MR. CAWLEY: May I approach the THE COURT: You may. MR. CAWLEY: easel, your Honor?</li> <li>BY MR. CAWLEY:</li> <li>Q. Does Mr. Dezmelyk's sketch of the accelerometer show the entire internal structure of the accelerometer?</li> <li>A. No. It's greatly simplified, of course. The basic operating principles are there; but there's a lot more going on in the real chip, of course.</li> <li>Q. Could you step down to the easel and explain that to us?</li> <li>A. Certainly.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Now, that displacement is just what these capacitive sensors measure. So, as we go back and forth here, the mass lags behind. It gets closer to this (indicating) capacitor plate, and that gives it the change in capacitance is measured. That change in distance causes a change in capacitance that is measured. Likewise, when it goes the other way, the same thing happens. Now, up and down, once again, the change in distance between this plate here (indicating) and this plate here (indicating) in the mass provides a signal that then can be amplified and sent out of the device. BY MR. CAWLEY: Q. All right. Can you draw with your red pen the capacitors that are inside the accelerometer? A. You bet. (Illustrating.) So, here's one; here's another; here's a third; and here's a fourth. Q. Are these capacitors sensors? A. Yes, they are. Q. Are there two different sets of capacitors? A. Yes. There's one set for the vertical direction,

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	Page 1416		Page 1418
1	testimony, have you not?	1	Q. Okay. Well, let's go through that just one more
2	A. I have.	2	time. I'll just hold this up.
3	Q. Do you remember who he was?	3	MR. CAWLEY: If I may move this easel now,
4	A. I'm sorry. What was the question?	4	your Honor?
5	Q. Do you remember who he was?	5	THE COURT: You may.
6	A. Yes. He was an engineer from Nintendo, and he was	6	MR. CAWLEY: I think it is in the way.
7	one of the people who actually developed the Wii	7	BY MR. CAWLEY:
8	controllers.	8	Q. What does the third element require?
9	Q. And do you remember this testimony that he gave	9	A. Okay. Well, that's about where your hand is; and
10	A. I do.	10	it says: A third element movable on two mutually
11	Q where he was asked: Isn't it true that one set	11	perpendicular axes, said third element structured to
12	of capacitors in the accelerometer is used to detect	12	activate two bi-directional proportional sensors
13	acceleration on the X axis?	13	providing outputs at least in part controlling objects
14	And he answered: The X axis can be measured,	14	and navigating a viewpoint.
15	as well. But at the same time, measurement can take	15	Q. Now, how does the structure inside the
16	place along the Y and Z axes.	16	accelerometer that Mr. Ikeda testified about and that
17	Do you agree with that?	17	you've told us about satisfy this third element?
18	A. Yes, I do.	18	A. Well, let's see. We've talked about the mass in
19	Q. And then there was a question: Yes, sir. That's	19	the middle there; and that's the third element. And
20	my next question. Isn't it true that a different set of	20	we've seen that because of the springs, it can move on
21	capacitors is used to detect acceleration on the Y axis?	21	two mutually perpendicular axes. It can move up and
22	And he answered: Yes, different capacitors	22	down; it can move right and left.
23	and probes for the Y axis.	23	Then it says: The third element is
24	Do you agree with that?	24	structured to activate two bi-directional proportional
25	A. I do.	25	sensors.
	Page 1417		Page 1419
1	Q. Do you understand that Mr. Ikeda has testified here	1	Now, those are the capacitors we just talked
2	that there are two at least two different sets of	2	about. And there are two of them, as Mr. Ikeda said and
3	capacitors in the accelerometer?	3	as I agreed. There is a set that measures up and down,
4	A. Yes. That's right.	4	and there is a set that measures left and right. And it
5	Q. And has he testified that they are sensors for	5	goes on to say that these sensors provide outputs at
б	different things?	6	least in part controlling objects and navigating a
7	A. That's right.	7	viewpoint.
8	Q. Let me show you just a little bit more of his	8	Q. Okay. Let's talk about that. Is the output of the
9	testimony.	9	accelerometer capable of moving objects and navigating a
10	Question: So, there are capacitors that	10	
11	sense movement in the X axis, correct?		A. Yes, it is. And we've seen that, for instance, in
12	And he answers: That's correct.	12	the boxing game that Mr. Ikeda demonstrated.
13	And there are capacitors that sense movement	13	Q. And Mr. Ikeda also testified about what the output
14	in the Y axis, correct?	14	of this accelerometer is capable of doing, didn't he?
15	And he answers: That's correct.	15	A. Yes, he did.
16	Do you agree with him?	16	Q. He was asked: Could the game designer choose to
17	A. I do.	17	use the output of the accelerometer to move objects on
18	Q. And do you understand that Mr. Ikeda has told us	18	the screen?
19	here that the capacitors that you've drawn on this	19	And he answered: Well, just the way you can
1)/1		20	more Maria if you had a hall literation of the sector of the
20 21	drawing are sensors?	20	move Mario, if you had a ball-like character, you could
21	drawing are sensors? A. Yes. That's right.	21	move that ball in the same way.
21 22	<ul><li>drawing are sensors?</li><li>A. Yes. That's right.</li><li>Q. Now, do these sensors and the associated structure</li></ul>	21 22	move that ball in the same way. Question: Could a game designer choose to
21 22 23	<ul><li>drawing are sensors?</li><li>A. Yes. That's right.</li><li>Q. Now, do these sensors and the associated structure that the proof mass that you told us about, do these</li></ul>	21 22 23	move that ball in the same way. Question: Could a game designer choose to use the output of the accelerometer to change the
21 22 23 24	<ul><li>drawing are sensors?</li><li>A. Yes. That's right.</li><li>Q. Now, do these sensors and the associated structure</li></ul>	21 22	move that ball in the same way. Question: Could a game designer choose to

8 (Pages 1416 to 1419)

	Page 1420		Page 1422
1	Do you agree with Mr. Ikeda?	1	show what's inside that accelerometer.
2	A. Yes, I do.	2	Q. Can you walk us through it?
3	Q. Now, have you seen pictures of the interior	3	A. Sure. Well, again, the key parts here the proof
4	structure of accelerometers?	4	mass, as I mentioned and as Mr. Dezmelyk said, as well,
5	A. Oh, yes, certainly. Many.	5	is actually wrapped around this.
6	Q. And you're familiar with what the internal	6	And then here (indicating) you see a bunch of
7	structure of an accelerometer looks like?	7	these parallel lines, and you can see the label here.
8	A. Yes.	8	It says "Y capacitors." So, these are the ones that
9	Q. Have you seen a picture of the internal structure	9	sense motion, actually in this direction (indicating).
10	of the accelerometer in the Nintendo Wii Remote?	10	Over here (indicating) we see something
11	A. Yes, I have.	11	labeled "X capacitors"; and, again, those sense motion
12	Q. And does that picture accurately depict the	12	in this direction (indicating).
13	internal structure of that accelerometer?	13	So, we have two sets of capacitors shown as
14	A. Yes. As far as I know, it does.	14	structures within this device.
15	MR. CAWLEY: Your Honor, at this time we'd	15	Q. So, is this actually a picture of the two separate
16	offer that picture.	16	capacitors in the Wii Remote accelerometer?
17	MR. PRESTA: Objection, your Honor. That's	17	A. That's correct.
18	the hearsay document that we spoke about before. That's	18	Q. And are they sensors?
19	not a proper predicate. Mr. Howe has previously	19	A. Yes, they are.
20	testified that he doesn't know the company that made the	20	Q. And do they satisfy the elements that you just
21	report or where it came from and he did no verification	21	described to us of this third element claim in the '700
22	whatsoever regarding the report.	22	patent?
23	MR. CAWLEY: It's classic	23	A. Yes. They match the description given in the
24	THE COURT: Is this the type of information	24	claim.
25	he relies upon?	25	Q. Thank you.
	Page 1421		Page 1423
1			
1	BY MR. CAWLEY:	1	Professor Howe, do you consider the Wii
1 2	Q. Is this the type of information that you, as an	1 2	Professor Howe, do you consider the Wii Nunchuk, when it's connected to the Wii Remote, as a
		-	Nunchuk, when it's connected to the Wii Remote, as a hand-operated controller?
2 3 4	<ul><li>Q. Is this the type of information that you, as an expert, would typically rely on in this case?</li><li>A. Yes. And Mr. Dezmelyk cited it, as well.</li></ul>	2	Nunchuk, when it's connected to the Wii Remote, as a hand-operated controller? A. Yes, certainly.
2 3	<ul><li>Q. Is this the type of information that you, as an expert, would typically rely on in this case?</li><li>A. Yes. And Mr. Dezmelyk cited it, as well. THE COURT: Under exception 18 of the hearsay</li></ul>	2 3	<ul><li>Nunchuk, when it's connected to the Wii Remote, as a hand-operated controller?</li><li>A. Yes, certainly.</li><li>Q. And why is that?</li></ul>
2 3 4 5 6	<ul> <li>Q. Is this the type of information that you, as an expert, would typically rely on in this case?</li> <li>A. Yes. And Mr. Dezmelyk cited it, as well. THE COURT: Under exception 18 of the hearsay rule, I'll allow him to display it and discuss it in</li> </ul>	2 3 4	<ul><li>Nunchuk, when it's connected to the Wii Remote, as a hand-operated controller?</li><li>A. Yes, certainly.</li><li>Q. And why is that?</li><li>A. Well, you can't use the Wii Nunchuk by itself. You</li></ul>
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2 3 4 5 6 7 8 9	<ul> <li>Q. Is this the type of information that you, as an expert, would typically rely on in this case?</li> <li>A. Yes. And Mr. Dezmelyk cited it, as well. THE COURT: Under exception 18 of the hearsay rule, I'll allow him to display it and discuss it in front of the jury. The photo itself is not an exhibit. It may be discussed MR. CAWLEY: Thank you, your Honor.</li> </ul>	2 3 4 5 6 7 8 9	<ul><li>Nunchuk, when it's connected to the Wii Remote, as a hand-operated controller?</li><li>A. Yes, certainly.</li><li>Q. And why is that?</li><li>A. Well, you can't use the Wii Nunchuk by itself. You have to use it in combination with the Wii Remote.</li><li>Q. And why does that make a difference?</li><li>A. Well, since you can't use it by itself, it's really</li></ul>
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9 (Pages 1420 to 1423)

	Page 1424		Page 1426
1	A. Okay. So, the question: Mr. Takeda, in front of	1	MR. PRESTA: Objection, your Honor. This is
2	you are two objects that have been labeled 295 and 296.	2	going outside the scope of his expert report, as we
3	What is Exhibit 295?	3	spoke about earlier, when he was going to testify on
4	Answer: We call it the "Wii Remote	4	this issue. In particular, claim 19.
5	controller"; so, it's the controller for the Wii video	5	MR. CAWLEY: Well, I can refer your Honor to
6	game.	6	the sections of his report where he offers this opinion.
7	Question: And what's Exhibit 296?	7	MR. PRESTA: There is no opinion.
8	Answer: Well, this is part of the Wii Remote	8	THE COURT: Since it is in rebuttal, I'll
9	control. Exhibit 295, one holds in the right hand.	9	overrule it.
10	Exhibit 296 is the Wii extension which is plugged in	10	BY MR. CAWLEY:
11	here	11	Q. Have you come to any opinions regarding the
12	The Interpreter: And the witness pointed to	12	priority date of the asserted claims?
13	plugging into the Wii Remote.	13	A. Yes, I have.
14	It goes on and the answer continues: and	14	Q. What are your opinions?
15	is held in the left hand. So, it's an extension of the	15	A. My opinion is that the asserted claims are
16	controller for the Wii.	16	supported by and deserve the priority date of the 1996
17	Question: Now, to use the Nunchuk, you have	17	application.
18 19	to plug it into the Wii Remote, correct?	18	Q. How did you come to that conclusion?
20	Answer: Yes, the Nunchuk does not exist as a	19 20	A. Well, it's important to compare the claims, the
20	stand-alone product. The Nunchuk depends on the Wii	20	claim limitations, the terms in the claim to the
22	Remote. It operates when attached to the Wii Remote. Q. So, what do you think is the significance of that	22	original application and make sure that they're there, they're supported, and also to look at the disclosure,
23	testimony?	23	the figures and words in the beginning of the actual
24	A. Well, I think it makes it clear that the Nunchuk	24	'700 patent and make sure that the claims are supported
25	and the Remote together constitute one controller. The	25	
	Page 1425		Dage 1427
	Page 1425		Page 1427
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2	Nunchuk by itself is not a controller. (MR. CAWLEY: May I approach, your Honor?)	2	Q. And when you were studying the disclosure in 1996, from what perspective did you read it?
2 3	Nunchuk by itself is not a controller. MR. CAWLEY: May I approach, your Honor? THE COURT: You may.	2 3	<ul><li>Q. And when you were studying the disclosure in 1996, from what perspective did you read it?</li><li>A. Right. Well, you have to analyze this in terms of</li></ul>
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	Page 1428		Page 1430
1	or improving electronic systems that include sensors	1	A. Yes. Certainly, Mr. Armstrong thought that was one
2	and/or controllers for computers, robotics, video games	2	good idea.
3	or other electronic devices. He or she should have some	3	Q. But is that all it discloses?
4	familiarity with pressure-sensitive variable conductance	4	A. No. Again, there are pressure-sensitive buttons.
5	material. Extensive experience and technical training	5	There are different ways of configuring simple sensors
6	might substitute for educational requirements while	6	to allow complicated control. There's a lot going on in
7	advanced degrees might substitute for some experience.	7	that patent.
8	So, basically this says you need to be	8	Q. And has Mr. Dezmelyk yesterday told us that we
9	somebody with some engineering background who works in	9	should simply disregard everything except the single
10	this area in order to be someone of skill in the art.	10	member of control in 6 degrees of freedom?
11	Q. And did you follow the court's instruction in	11	A. Well, I believe that was his, you know, big
12	reading and then arriving at opinions on the '96	12	message, if you will. But I believe he also pointed out
13	disclosure from the perspective of someone like you just	13	that there are a lot of different ideas there.
14	described?	14	Q. Okay. Well, let's take a look at what he told us.
15	A. Yes.	15	Here's some testimony from Mr. Dezmelyk from
16	Q. Now, yesterday you were here for the testimony of	16	yesterday. There was a question and I won't read it
17	Mr. Dezmelyk, right?	17	all; but I'll just start here, that second paragraph:
18	A. Yes, I was.	18	Now, when you began your testimony about that subject,
19	Q. And based on what you heard and saw during his	19	you went through the '96 application; and you
20	testimony and the teachings of the 1996 application, are	20	testified and I'm not trying to put words in your
21	all of the claim requirements found in the '96	21	mouth here, but maybe we can work together to get
22	application?	22	whatever words you're comfortable with. You testified
23	A. Yes, they are.	23	that in your reading the '96 application, you believed
24	Q. What is disclosed in the '96 application?	24	that the inventions or ideas that Mr. Armstrong
25	A. Well, lots of things. It includes many different	25	disclosed was a single input member that could control
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	Page 1432		Page 1434
1	shortcut. Do you agree that it's inappropriate to look	1	can (indicating) is the handle that the user would
2	at every idea in the application?	2	grab. You see there are a couple of little buttons here
3	A. Well, in analyzing these questions of validity and	3	(indicating).
4	support, yes, you do have to take the whole patent into	4	Then underneath is this set of rockers
5	account. You can't just focus on one of the good ideas	5	(indicating) and the carriage and the sensors mounted on
6	in there and say that's the only thing in the patent. I	6	the circuit sheet and so on.
7	agree with this statement from Mr. Dezmelyk. There are	7	Q. So, is it true that in his application, one of the
8	a lot of ideas in there, and we need to consider the	8	things that Mr. Armstrong discussed in connection with
9	whole patent in addressing this question of validity and	9	this figure was the possibility and even some advantages
10	priority date.	10	of a controller with a single input member that operated
11	Q. So, from reading the whole specification and the	11	in 6 degrees of freedom?
12	whole disclosure in 1996, do you have an opinion as to	12	A. Yes, that's right.
13	whether Brad Armstrong only taught using the technology	13	Q. But is that all he discussed?
14	disclosed in the '96 application with a single input	14	A. No, not at all.
15	member with 6 degrees of freedom?	15	So, again, there are some useful ideas about
16	A. No, I don't. He talks about many ideas, and	16	clever ways of configuring input elements so that they
17	there's nothing in there that limits it to that one	17	can activate a number of different kinds of sensors in
18	idea. Certainly that was an important idea in there,	18	clever ways. There are extra buttons here. So, there
19	but there are other ideas and I think we've seen a	19	are extra input elements here, as well.
20	number of those examples where it's clear the scope	20	Q. Would one of skill in the art reading this
21	is larger than just that one single idea.	21	application in 1996 and looking in this Figure 20 say to
22	Q. Okay. And just since all of this is being	22	themselves, "Oh, this patent teaches the use of a single
23	written down, I sometimes, I guess, get a little	23	input member controlling 6 degrees of freedom"?
24	paranoid about how it's going to look. I think that the long convoluted question that I just asked you was	24	A. Well, that's one of the things it teaches; but they would also see a lot of other interesting and useful
2.5	long convoluted question that I just asked you was	25	would also see a lot of other interesting and useful
	Page 1433		Page 1435
1	whether you had an opinion; and you started off your	1	teachings concerning other parts of this device.
2	whether you had an opinion; and you started off your answer "No, I don't." So	2	teachings concerning other parts of this device. Q. And, Professor Howe, is it your understanding that
2 3	whether you had an opinion; and you started off your answer "No, I don't." So A. Okay.	2 3	teachings concerning other parts of this device. Q. And, Professor Howe, is it your understanding that the scope of what was disclosed in 1999 is limited by
2 3 4	whether you had an opinion; and you started off your answer "No, I don't." So A. Okay. Q. You have an opinion about that?	2 3 4	teachings concerning other parts of this device. Q. And, Professor Howe, is it your understanding that the scope of what was disclosed in 1999 is limited by any one of the 50 drawings in the '98 excuse me
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	Page 1436		Page 1438
1	'700 patent quoted here below?	1	the elements we've seen before, the idea of a trackball,
2	A. Yes, it is. So, here from the '700 patent on	2	the idea of this collar you can move with your fingers,
3	page 2, we have: Hand-operated controllers, providing	3	and then a number of buttons as well. So, there are a
4	up to 6 degrees of freedom.	4	lot of different input modes here.
5	So, the same language, "up to 6 degrees of	5	Q. Do you remember yesterday when Mr. Dezmelyk
6	freedom"; so, it could be less. Certainly that was	6	testified about the early Nintendo controller?
7	contemplated both in the '96 application and in the	7	A. Yes.
8	final '700 patent.	8	Q. I think it's still in front of you there. Is it
9	Q. Okay. Well, if the '96 application disclosed	9	not?
10	members that move in less than 6 degrees of freedom,	10	A. No. These are oh, no. It is, yes. Here it is.
11	what does that say to you about Nintendo's claim that	11	Q. Could you hold that up for the jury?
12	that's all Mr. Armstrong disclosed was members that move	12	A. Sure, yep (complying).
13	in 6 degrees of freedom?	13	Q. Do you remember that Mr. Dezmelyk testified that
14	A. Well, it's not correct. They're trying to narrow	14	the cross-shaped, or what we've heard called as the
15	it down to something that is much broader in the actual	15	"directional pad," and every one of the buttons on that
16	patent and application.	16	controller are separate input members?
17	Q. Anything else you can show us from the application	17	A. That's right. The way you use this thing is you'd
18	that shows that something other than a single controller	18	hold it in two hands, and you could use your thumbs to
19	in 6 degrees of freedom was disclosed?	19	hit the buttons and the cross pad or D-pad.
20	A. Certainly. Can I have the next slide?	20	Q. So, if Mr. Dezmelyk says that in the Nintendo
21	Q. Let's take a look at the next slide.	21	controller every one of those buttons is a separate
22	What are we looking at here?	22	input member, is there any reason why, in Figure 9
23	A. Okay. So, this the top quote is from the '96	23	disclosed by Mr. Armstrong in 1996, his buttons aren't
24	application on page 48. It says: This structuring also	24	also separate input members?
25	offers tremendous advantage in many	25	A. No. They certainly seem to be input members to me.
	Page 1437		Page 1439
1		1	
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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	<ul> <li>non-6-degree-of-freedom applications. So, there he's telling us that the way of</li> <li>putting this particular bit together is also useful in</li> <li>situations where there aren't 6 degrees of freedom.</li> <li>Again, the scope is larger than just that single input</li> <li>6-degree-of-freedom idea. And the lower quote is from the actual '700</li> <li>patent, column 29; and it says: This structuring also</li> <li>offers tremendous advantage in many</li> <li>non-3-degree-of-freedom applications. So, same thing.</li> <li>Here it says you don't have to have 3 degrees of freedom</li> <li>in order to or 3-D I'm sorry you don't have to</li> <li>have 3-D in order to take advantage of the ideas here.</li> <li>Q. And is there disclosure in the '96 application that</li> <li>discloses not just a single input member but multiple</li> <li>input members?</li> <li>A. Yes, certainly.</li> <li>Q. Can you show us that?</li> <li>A. Sure. Well, this is from the '96 application. You</li> <li>can find it on page 61. It's Figure 9. And it shows</li> <li>this idea again of a trackball and a surrounding collar</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. Let's take a look at the next slide. Tell us what we see here from the '96 application on top and the '700 patent below.</li> <li>A. Okay. So, the top quote again is from the '96 application on page 28; and it talks in here about two finger select switches which are secondary input members. <ul> <li>So, again, this is clearly labelling them as input elements.</li> <li>Q. Okay. And the next slide?</li> <li>A. I should add, down below on that</li> <li>Q. Sorry.</li> <li>A last slide, we also have the same words from the '700 patent in Column 14.</li> <li>Q. Thank you. <ul> <li>If we could go to the next slide, then, what</li> <li>do we I don't want to spend a lot of time on these, but what do we see here?</li> <li>A. The words here from the '96 application, page 40, are: Auxiliary secondary input buttons.</li> <li>So, again more inputs.</li> <li>And below are the same words which add: Are</li> </ul> </li> </ul></li></ul>

13 (Pages 1436 to 1439)

	Page 1440		Page 1442
1	A. Okay. So, from the '96 application, page 58, here	1	the trackball piece and the collet or collar piece,
2	we see Figure 6, a figure we're all familiar with by	2	could be separated. For instance, they could be moved
3	now. And this describes two input elements. The text	3	to different parts of the controller. They each could
4	here from the '96 application, page 27, it says: The	4	provide fewer than 6 degrees of freedom, and this means
5	Trackball 12 input member so, that's the round thing	5	you would be able to use them as separate input
6	in the center, of course.	6	elements.
7	And then down below: The rotatable collet	7	Q. Yeah. I was mistaken. This is actually the figure
8	can serve as an additional secondary input member.	8	that Mr. Koshiishi was testifying about, correct?
9	And that's the thing that's colored yellow	9	A. Okay. Yes. It's a different view of the same
10	there, Number 16 in the figure.	10	embodiment, the same example from the patent.
11	Q. All right, sir. And while we're on this figure	11	Q. Okay. And why is his testimony about this
12	and I think we are done with showing these slides	12	(important?)
13	related to secondary input member as opposed to single	13	A. Well, again, this is a Nintendo engineer; so,
14	input member.	14	someone who is skilled in the art. He has, you know,
15	But I notice here some language just outside	15	made his living he's been paid for designing video
16	the highlighting, starting with the sentence: Further,	16	games, and he has said that this constitutes two input
17	the Trackball 12 input member may be interpretable on	17	elements that could be used in a less than
18	all six axes.	18	6-degree-of-freedom context.
19	Do you see that?	19	Q. So, how does that affect your opinion?
20	A. I do.	20	A. Well, it confirms what I said earlier, that we
21	Q. As one of skill in the art reading this, what have	21	aren't limited here by the disclosure in the '96
22	you understood that the word "may" here implies?	22	application or the '700 patent to single input
23	A. Well, when he says "may be interpretable on all six	23	6-degree-of-freedom devices. It's broader than that.
24	axes," he's saying you could interpret or sense the	24	THE COURT: All right. Counsel, we're going
25	motion on all 6 degrees of freedom there; but you don't	25	to go ahead and take a break.
	Page 1441		Page 1443
1	have to. He didn't say "is" interpretable on all six	1	Ladies and gentlemen, I'll ask you to be back
2	have to. He didn't say "is" interpretable on all six axes; he says "may be."	2	Ladies and gentlemen, I'll ask you to be back at 10:00.
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14 (Pages 1440 to 1443)

	Page 1444		Page 1446
1	addresses this specific issue and have not been able to	1	that we were just talking about.
2	find one.	2	You've just shown us some of the drawings
3	THE COURT: All right. Do you have a	3	from the application, correct?
4	pinpoint cite on the pages that I should be looking at?	4	A. That's right.
5	What about just the citation to the case	5	Q. And you've shown us some of the words or text that
6	itself if you don't know the	6	was in the '96 application, right?
7	MR. FARIS: It's a slip opinion, the one that	7	A. That's right.
8	I have, your Honor.	8	Q. And you've been talking about this whole question
9	THE COURT: Do you have that somewhere,	9	raised by Nintendo of whether that application is
10	Betty, the Power Oasis? We had it somewhere in this	10	limited to controllers with a single input member
11	pile of stuff.	11	operable in 6 DOF, and I want to ask you: What is your
12	MR. FARIS: And, I'm sorry. I don't have a	12	conclusion about that?
13	hard copy to hand up.	13	A. Well, the patent is simply not limited to single
14	THE COURT: All right. Well, we're going to	14	input 6-degree-of-freedom controllers; and the claims
15	go ahead and everyone needs a break; so, we'll be in	15	which do not concern those are find support in both
16	recess, then, until ten of. If you find the pinpoint or	16	the 1996 application and the '700 patent.
17	whatever that would be helpful on that, if you'll let	17	Q. Is the disclosure in the '96 application limited to
18 19	myself or Ms. Chen have it, that would be appreciated.	18 19	a single input member movable in 6 DOF? A. No, it's not.
20	MR. FARIS: Yes, your Honor. On the slip opinion, it begins on page 6.	20	Q. Does it include that?
21	THE COURT: Okay.	21	A. Certainly. That's one of the ideas in there, yeah.
22	MR. GUNTHER: Your Honor, was there a second		Q. But why is it not limited to that?
23	issue you were about to raise? Was it	23	A. Well, there's nothing in the text which says that's
24	THE COURT: Well, if we raise it, we're not	24	
	going to get a break; so, we can deal with it when the		which are clearly stated. We saw some of those
	Page 1445		Page 1447
	Page 1445		Page 1447
1	jury comes back.	1	examples.
1 2 2	jury comes back. MR. GUNTHER: Let's take a break.	2	examples. Q. Okay. Now, let me move from move our focus from
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15 (Pages 1444 to 1447)

	Page 1448		Page 1450
1 2 3 4 5 6 7 8 9 10 11 12	you investigate at all to see, in fact, whether there were games that the Wii Classic Controller could be used, for example, to play GameCube games to require actually two joysticks? He answered: Right. I have read that it cannot be done. I certainly have not tried every game in the world. I only tried the games that were in this case. Question: Okay. And you said you read and heard and read it could not be done, did I hear? And he answered: Right. My understanding is that it cannot be done.	1 2 3 4 5 6 7 8 9 10 11	controlling her motion with that one. Now if I push up, she jumps. And when I push down, she crouches down. So, again, we have a down direction as well as a right and left direction. I'm controlling the character. Now, the right side whoops. I hate it when that happens. Okay. Let's get her back up again. Let's not run into any of these catastrophic things. Okay. Now, on this one, if I move to the
13 14 15 16 17 18 19 20 21	Now, Professor Howe, were you in the courtroom yesterday when Mr. Dezmelyk told this jury that the Wii Classic Controller could not be used to play a game using both of the joysticks? A. I was. Q. Is that true, sir? A. No. I was very surprised to hear him say that. Q. Can you demonstrate to us that it's not true? A. Certainly.	12 13 14 15 16 17 18 19 20 21	right, she swings to the right. If I move the left joystick to the left, she swings to the left. If I raise it, she twirls around and jumps up. I push the joystick down, and she crouches down and twirls. So, again, all of the directions on the right thumbstick, I'm controlling the character. So, both thumbsticks are able to do this. Now let's put it in pause mode. Okay? And I caught her in mid stride. Let's find her in a slightly better position. Is that better? I don't know.
22 23 24 25	MR. CAWLEY: Your Honor, may the witness step down? THE COURT: He may. THE WITNESS: Your Honor, would it be okay if Page 1449	22 23 24 25	Okay. Now, on pause mode I can now control the viewpoint. So, for instance, I take the right joystick. I move to the right, and you can see the camera slides right and left. I move up and down, and Page 1451
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	I speak loudly and don't use the microphone? I don't quite have three hands. THE COURT: Yes. THE WITNESS: Thank you. A. Okay. So, here we have the Wii Remote and the Wii Classic Controller plugged into it and here we have a game and BY MR. CAWLEY: Q. What's the name of the game? A. Let's see. This is Bash Brothers Brawl, I believe. But we're not going to see any actual fighting here. We've set it up at a point where I can move characters around and change viewpoints as required by claim 19 without getting into any of the real fisticuffs here. So, let's see. Let me start the game. We're in pause mode right now, and it's not listening to me. Hello? Okay. So, let me start it up here	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>that right joystick moves the camera up and down.</li> <li>I go to the left thumbstick, and I can now</li> <li>rotate the viewpoint and by moving it right and left.</li> <li>And if I move it up and down, I'm changing the viewpoint</li> <li>and rotating it around like so.</li> <li>So, both thumbsticks are able to control</li> <li>in all the directions they move, they are able to</li> <li>control the character; and they are also able to change</li> <li>the viewpoint, move the camera around. So, this matches</li> <li>the requirements in claim 19 for those second and third</li> <li>elements to do that.</li> <li>Q. Thank you. If you'll take the stand again, sir.</li> <li>So, have you just demonstrated to us,</li> <li>Professor Howe, that contrary to what this Mr. Dezmelyk</li> <li>told us, that the on the Wii Classic Controller, both</li> <li>the left and the right joysticks are capable of moving</li> <li>objects on the screen?</li> <li>A. Yes. That's right.</li> </ul>
19 20 21 22	(demonstrating). So, I'm the character on the right. I believe that's Princess Peach, but don't quote me on that one. And I have the two thumbsticks here, and let	19 20 21 22	<ul> <li>Q. And have you also demonstrated to us that on that controller, both the left and the right joysticks are capable of moving the point of view on the screen?</li> <li>A. Yes. That's right.</li> </ul>

16 (Pages 1448 to 1451)

	Page 1468		Page 1470
1	Q. Now I'd like you and I'd like you to you have	1	Q. Are you done with Figure 9? Are you going to
2	the jury notebook. I'd like you to actually refer to	2	A. Yeah. We can move on.
3	the jury notebook and point the jury and myself to the	3	Q. Okay. Well, I'd like to ask you some questions
4	location where you believe those claims are supported in	4	about Figure 9
5	the 1996 application. A. Sure. Well, let's see. There are a number of	5	A. I'm not through with my answer. I'm sorry. I'd
6 7	figures which show many input elements. There are	6 7	like to finish if you Q. Okay. Sure. If you want to finish it, go right
8	for instance, the Remote controller with the trackball	8	ahead.
9	element with the	9	A. Okay. So, we look at Figure 20. It's got the
10	Q. Excuse me.	10	handle at the top. We know that top element pivots back
11	A collar	11	and forth in two directions. It's kind of like a D-pad.
12	Q. Excuse me, Professor Howe.	12	Then there are also buttons there. Again, that's a
13	MR. CAWLEY: Your Honor, I'm sorry. May the	13	three-element case. Now, the shaft of that handle, of
14	witness finish his answer?	14	course, is hooked up down below to a number of other
15	BY MR. PRESTA:	15 16	sensors.
16 17	Q. I was just going to ask if you along with your answer, when you talk about a figure, if you would tell	17	So, taken together, we've now seen and I can go on, but I want to move along here. You see that
18	us what figure you're pointing to in the jury notebook	18	we've seen input elements more than three input
19	so we could follow along, professor.	19	elements on these examples. We've seen that they
20	A. Sure. It will take a second. Forgive me for the	20	include more than one multiaxis input element. And, so,
21	delay, but let me find that for you.	21	to one skilled in the art that is, an engineer who is
22	Okay. Figure 9, for instance	22	used to building these kind of controllers it's clear
23	Q. Okay. Just one second. And I'm not going to	23	that you can put this together and it describes the kind
24	interrupt your answer. I just want to make sure that	24	of thing that the Nintendo controllers have been
25	the jury can get there. There's actually page numbers	25	configured to do.
	Page 1469		Page 1471
1	Page 1469 on the bottom right-hand page of that book.	1	Page 1471 Q. Are you done?
2	on the bottom right-hand page of that book. A. 61.	1 2	
2 3	on the bottom right-hand page of that book. A. 61. Q. Now, that is		<ul><li>Q. Are you done?</li><li>A. I am.</li><li>Q. Okay. Thank you.</li></ul>
2 3 4	<ul> <li>on the bottom right-hand page of that book.</li> <li>A. 61.</li> <li>Q. Now, that is</li> <li>MR. PRESTA: And perhaps we could pull that</li> </ul>	2 3 4	<ul> <li>Q. Are you done?</li> <li>A. I am.</li> <li>Q. Okay. Thank you. Let's stay on Figure 20. Now, you just said</li> </ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>on the bottom right-hand page of that book.</li> <li>A. 61.</li> <li>Q. Now, that is MR. PRESTA: And perhaps we could pull that up, please.</li> <li>BY MR. PRESTA:</li> <li>Q. Is that the one you're referring to?</li> <li>A. Yes.</li> <li>Q. Okay. Now</li> <li>A. May I finish my answer?</li> <li>Q. I'm sorry. Yes, please do.</li> <li>A. Good.</li> <li>Okay. So, here we see the trackball. We've heard testimony from Nintendo engineers saying that could be a 3- or 6-degree-of-freedom input element. We have the collar surrounding. We've seen that could be a three- or six-input element. Then we've also got a bunch of buttons. So, we also have seen, for instance, in Figure 20 so, if you flip forward another 11 pages, 72</li> <li>Q. Okay. Hold on a minute.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. Are you done?</li> <li>A. I am.</li> <li>Q. Okay. Thank you. Let's stay on Figure 20. Now, you just said that this provides support for something that had you said that these have multiple input members that each provide more than one axis of input. You don't agree with that, do you?</li> <li>A. I don't believe that's what I said here.</li> <li>Q. So, then, you'll agree with me that there's only one input member that provides multiple axes of input?</li> <li>A. Yes. In this example, that's right.</li> <li>Q. Okay. So, if we're talking about the things that contribute to 6 degrees of freedom in this embodiment, there's only one, isn't there?</li> <li>A. Well, no. There are two other input elements. They could be used to, you know, add other degrees of freedom.</li> <li>Q. This ball this handle right here (indicating), if these buttons weren't there, does it provide 6 degrees of freedom of input?</li> </ul>

21 (Pages 1468 to 1471)

	Page 1472		Page 1474
1	A. No.	1	right?
2	Q. Now, these buttons are just like mouse buttons,	2	A. That's right.
3	that you could do anything you want with them, right?	3	Q. Okay. Now show me anywhere in this figure where
4	A. That's right. The controller can do anything	4	there are two elements that can each move
5	I'm sorry the game designer can do anything they want	5	bi-directionally to contribute to 6 degrees of freedom
6	with them.	6	of input.
7	Q. And you, in fact haven't you read the	7	A. Sure. I can show you three, as a matter of fact.
8	specification where Mr. Armstrong said that these	8	So, let's see. Up at the top we have the
9	buttons have nothing to do with 6 degrees of freedom?	9	handle itself which can tip in two directions, like so
10		10	(indicating).
11	A. I don't recall that. I can believe it's in there. I don't recall it.	11	
			Down here (indicating) it can take, for
12	Q. Did you hear him testify to that?	12	instance, the shaft, which interacts with the rockers
13	A. I wasn't present for much of Mr. Armstrong's	13	we saw lots of nice animations of that and, so, that
14	testimony.	14	can move bi-directionally.
15	Q. Do you disagree with the fact that these buttons	15	And down at the bottom we have a platform
16	have nothing to do with the 6-degree-of-freedom of	16	here (indicating), and again we saw how that can
17	control?	17	interact with the housing itself to control these two
18	A. Well, I agree certainly that the handle itself can	18	rockers (indicating) to provide bi-directional inputs.
19	provide 6 degrees of freedom of control, yes.	19	Q. Thank you, professor. So, you're pointing to the
20	Q. So but it's your position that that Figure 20	20	inside of the things that are all connected to the one
21	actually supports a device that has three bi-directional	21	handle, right?
22	input members that together provide 6 degrees of	22	A. In this particular case, yes.
23	freedom. Is that your testimony?	23	Q. Now, you have asserted that the claims are broad
24	A. That's Figure 20 is one example or one part of	24	enough, though, to cover things where, in fact, you
25	the scope of the patent that supports reading claim 19,	25	would have two additional input members on the outside
	Page 1473		Page 1475
1	yes.	1	that can be operated by the user, haven't you?
2	Q. Now I want you to point to me where the second	2	A. Yes. That's right.
3	element you're familiar with claim 19, right?	3	Q. So, the claim scope that you're asserting
4	A. I am.	4	doesn't isn't limited to things on the inside.
5	Q. And the second and third elements you have read on	5	You're saying it also covers things on the outside,
6	these two joysticks that each move bi-directionally,	6	right?
7	right?	7	A. Well, it can include those, yes.
8	A. That's right.	8	Q. Does claim 19, the scope that you're asserting,
9	Q. And the claim requires that you have these two	9	cover three things on the outside that the user can
10	elements that move bi-directionally, right?	10	touch?
11	A. That's right.	11	A. Yes, although it covers other things that the user
12	Q. And it also requires a third element that can move	12	can't touch, as well.
13	bi-directionally and activate four sensors, right?	13	Q. And it covers, though, three things that you can
14	A. I believe that's right, yes.	14	touch that each move bi-directionally, right?
15	Q. Now show me in this figure very important	15	A. Yes. That's right.
16	question. I'd like you to be very clear about it.	16	Q. Show me in here where there are three things that
17	Where in this figure are two elements that can be moved	17	you can touch that are each moved bi-directionally.
18	by each of them bi-directionally?	18	That's the question that I want you to help me answer,
19	And you understand that the buttons don't	19	and I want you to show where in this figure are there
20	move bi-directionally, right?	20	three things that the user can touch that can each be
		21	moved bi-directionally?
			moved of uncononally:
21	<ul> <li>A. That's right.</li> <li>O. The buttons are not bi-directional elements, are</li> </ul>		A We don't have it in this figure
21 22	Q. The buttons are not bi-directional elements, are	22	A. We don't have it in this figure.
21			<ul><li>A. We don't have it in this figure.</li><li>Q. Okay. So, just to be clear, Figure 20 does not have three elements that the user can touch that can be</li></ul>

22 (Pages 1472 to 1475)

	Page 1496		Page 1498
1	Q. Me, too.	1	Q. It doesn't say "devices," plural.
2	Now, the court has told us that a controller	2	A. That's right, yep.
3	is defined as: A device held in the user's hand that	3	Q. And this Wii Nunchuk controller by itself is a
4	allows hand or finger inputs to be converted into	4	device, isn't it?
5	electrical signals and it goes on.	5	A. Yes.
6	The part I want to focus on is "a device held	6	Q. And the Wii Remote controller is a device, isn't
7	in the user's hand."	7	it?
8	A. Uh-huh.	8	A. Well, wait a second. I'm sorry. I thought the
9	Q. Now, you recognize that it says "a device," right?	9	first question you asked was about the Remote. Did I
10	A. Yes.	10	mishear?
11 12	Q. And you recognize that it says "the user's hand," singular, right?	11 12	<ul><li>Q. Well, I'm going to ask you both.</li><li>A. Okay.</li></ul>
13	A. I do.	13	Q. The Wii Remote is a device, isn't it?
14	Q. And you don't dispute that, in fact, to operate	14	A. Yes.
15	those two things, you have to hold one in one hand and	15	Q. And the Wii Nunchuk is a device, isn't it?
16	one in the other, right?	16	A. Well, it depends. If it's plugged into the Remote,
17	A. Often it's used that way, yes.	17	then together they form a device. But the Wii Remote by
18	Q. Are you telling me there's another way to use the	18	itself, without the Remote, is a paperweight.
19	Wii Remote and the Nunchuk?	19	Q. Okay. Let me ask you to do a bit of an analogy.
20	A. For instance in fact, I think the jury saw this.	20	Do you use Apple computers at all?
21	We've also talked about the Wii Classic Controller	21	A. Not really. A little. My wife has one.
22	Q. I'm not asking you about the Wii Classic	22	Q. Okay. Are you familiar with you could have a
23	Controller.	23	keyboard on an Apple computer?
24	A. Yeah. You could hold them in both hands.	24	A. Sure.
25	Certainly that capability is there or hold them in	25	Q. And, in fact, Apple also provides input elements
	Page 1497		Page 1499
1	Page 1497 one hand. That capability is there, as I showed with	1	Page 1499 like mice, right, like a mouse?
1	_	1 2	-
	one hand. That capability is there, as I showed with the Classic and the Wii Remote earlier. Q. Is it your position that it only infringes because		<ul><li>like mice, right, like a mouse?</li><li>A. Sure.</li><li>Q. And the mouse is a device, isn't it?</li></ul>
2 3 4	one hand. That capability is there, as I showed with the Classic and the Wii Remote earlier. Q. Is it your position that it only infringes because you can hold these two things in one hand?	2	<ul><li>like mice, right, like a mouse?</li><li>A. Sure.</li><li>Q. And the mouse is a device, isn't it?</li><li>A. Sure.</li></ul>
2 3 4 5	one hand. That capability is there, as I showed with the Classic and the Wii Remote earlier. Q. Is it your position that it only infringes because you can hold these two things in one hand? A. No, no. All of these controllers for video games	2 3 4 5	<ul><li>like mice, right, like a mouse?</li><li>A. Sure.</li><li>Q. And the mouse is a device, isn't it?</li><li>A. Sure.</li><li>Q. And the keyboard is a device, right?</li></ul>
2 3 4 5 6	<ul><li>one hand. That capability is there, as I showed with the Classic and the Wii Remote earlier.</li><li>Q. Is it your position that it only infringes because you can hold these two things in one hand?</li><li>A. No, no. All of these controllers for video games are, you know, held bi-manually.</li></ul>	2 3 4	<ul><li>like mice, right, like a mouse?</li><li>A. Sure.</li><li>Q. And the mouse is a device, isn't it?</li><li>A. Sure.</li><li>Q. And the keyboard is a device, right?</li><li>A. Sure.</li></ul>
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	Page 1508		Page 1510
1	A. That's right. The capacitor plates that are	1	A. I do.
2	attached to the proof mass are separate; so, you could	2	Q. And then he asked you to go back to this Figure 20
3	cut out the proof mass and leave the capacitor plates	3	and say, well, does this figure show three inputs
4	that are attached to the proof mass and you would still	4	movable by hand, right?
5	have a capacitive sensor. Wouldn't do you much good,	5	A. He asked me that, yeah.
6	but the pieces would be there.	6	Q. And you said, "No, it doesn't; it shows one."
7	Q. Okay. Now, this is the photograph that you asked	7	A. That's right.
8	to be shown; is that right?	8	Q. Are you aware, Professor Howe, that it is not the
9	A. That's right. It's an electron micrograph.	9	proper way to do it to compare the product back to the
10	Q. And what did you want to say about that?	10	'96 application?
11	A. Okay. So this is what Mr. Cawley [sic] didn't	11	A. Yes. My understanding is that the proper way to do
12	show me.	12	this is to compare the claims to the product.
13	So, here you see these stripes (indicating)	13	Q. The claim of the patent, correct?
14	are the Y capacitors; and these stripes are the X	14	A. That's right. And that's how you determine
15	capacitors. And all around here in the outside is the	15	infringement.
16	proof mass. So, you can see that if you cut it off here	16	Now, there's another question, which is
17	(indicating) at this end, you have one set that's	17	validity you know, is the patent valid and there
18	attached to the center here. That's the fixed frame	18	what you have to do is compare the claims back to the
19	again, this is inside-out from that drawing that we've	<mark>19</mark>	application and to the current patent text and pictures.
20	been looking at and then the proof mass is around the	20	Q. All right.
21	outside.	21	A. So, he kind of mixed up two issues there.
22	But you'd have one set. Here (indicating)	22	Q. Instead of comparing that controller where the big
23	you can see the anchors, these oval-shaped dark things.	23	point was three hand movable inputs, let's now actually
24	Those are the anchors where the capacitor plates on the	24	compare the claim.
25	fixed side are located.	25	A. Indeed, yeah.
	Page 1509		Page 1511
1	And the other side here (indicating), you see	1	Q. Where is the first input?
2	some of these stripes are attached to this checkerboard	2	A. Okay. So, the second little bit there says:
3	thing. That's the proof mass. And, so, you could cut	3	Structure allowing hand inputs rotating a platform on
4	them off here (indicating). You could cut off the proof	4	two mutually
5	mass, and you'd leave behind both sides of the plates	5	Q. Okay.
6	here. So, they are really separate parts of the	6	A. Yeah.
7	structure; and you can remove the proof mass and leave	7	Q. So, that one requires that it be movable by hand,
8	the capacitive sensor behind.	8	right?
9	Q. Okay. Now, let me go to a different subject.	9	A. That's right.
10	MR. CAWLEY: Let's call up, please, Figure 20	10	Q. Okay. Now, let's look where is the second input
11	from the '96 application.	11	in the claim?
12	A. I don't know if we need the picture. I suspect	12	A. Okay. It says: A second element movable on two
13	we've all memorized it by now.	13	mutually perpendicular
14	BY MR. CAWLEY:	14	Q. What happened to "hand input"?
15	Q. I'm sure when we see it, we'll all remember it.	15	A. Well, those words don't appear in that claim
16	Okay. Here it is again. You remember you	16	element.
17	were asked a lot of questions by Nintendo's lawyer about	17 18	Q. So, this claim is not limited to hand input, is it?
18	this, right? A. I do.	18	A. No, it's not. In fact, we saw getting down to the third element, which is the same as the second
19 20	Q. But I want to clarify something that I'm afraid	20	that the Wii Remote has an accelerometer. You don't
20	crept into your cross-examination. You remember that	20	touch that second element directly, but there's nothing
22	Nintendo's lawyer asked you to consider the controller?	22	in the claim that says you have to touch the element
23	A. That's right.	23	directly.
24	Q. And he asked you if the controller showed three	24	Q. And the same is true of the third element, isn't
	inputs movable by hand. Do you remember that?		it?

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	Page 1512		Page 1514
1	A. That's right. Nothing about hand touching that	1	6-degree-of-freedom controller?
2	element.	2	A. Yes, they could.
3	Q. So, the second and third element that don't say	3	Q. Couldn't it be used in other kinds of controllers,
4	"hand" could include something movable by hand, correct?	4	as well?
5	A. That's right. It's not excluded. It's not limited	5	A. Yes.
6	out. It could be touched by hand, but it doesn't have	6	Q. So, does this show that Mr. Armstrong, in 1996,
7	to be touched by hand.	7	disclosed technology for use in many kinds of
8	Q. All right, sir. So, to ground us again in the	8	controllers and not just a single input controller with
9	issue, what we were talking about is whether this claim,	9	6 degrees of freedom?
10	19, is disclosed back in 1996 by, among other things,	10	A. Yes. That's correct.
11	Figure 20, correct?	11	Q. Similarly, you were asked about this language.
12	A. That's right.	12	This is a discussion of general controllers, correct?
13	Q. And does Figure 20 show a structure allowing a hand	13	A. Yeah, joystick-type, trackball-types, and so on.
14	input, et cetera?	14	Q. So, doesn't this suggest to you, when read in
15	A. Yep.	15	context, that Mr. Armstrong disclosed technology that
16	Q. And does it show a second element movable on two	16	was usable in many types of controllers?
17	perpendicular axes, et cetera?	17	A. That's right.
18	A. Yes, it does.	18	Q. Including 6-degree-of-freedom single input
19	Q. And does it show a third element movable on two	19	controllers?
20	mutually perpendicular axes, et cetera?	20	A. Yes, and also for non-6-degree-of-freedom
21	A. Yes. That's there, as well.	21	controllers. Again, he says "up to 6 degrees of
22	THE COURT: Anything else, counsel?	22	freedom."
23	MR. CAWLEY: Yes, your Honor.	23	Q. You were asked some questions about the Nunchuk
24	Let's see Figure 21.	24	used with the Remote. Do you remember the testimony of
25		25	Nintendo's own engineer that he considered the Nunchuk
	Page 1513		Page 1515
1		1	
1 2	BY MR. CAWLEY:	1	to be an extension of the Remote?
2	BY MR. CAWLEY: Q. This is Figure 21 from the '700 patent?	2	to be an extension of the Remote? A. Yes. I think those are the words we saw. That's
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32 (Pages 1512 to 1515)

	Page 1516		Page 1518
1	six different ways, not that any given game moves them	1	argument, and then you'll retire.
2	in six different ways.	2	I have a note here that the lunches that were
3	Q. And for all of the controllers that you've told the	3	ordered are now here; so, that works out well in timing.
4	jury are infringing, are they all capable of moving	4	Even though you've heard all of the evidence,
5	things in 6 degrees of freedom?	5	you've not heard my instructions on the law yet. So,
6	A. Yes. That's right.	6	please don't discuss the case among yourselves or let
7	MR. CAWLEY: Pass the witness, your Honor.	7	anybody else discuss them with you; and I'm going to ask
8	THE COURT: All right. You may step down.	8	that you be back here at 1:00.
9	Next witness?	9	(The jury exits the courtroom, 11:23 a.m.)
10	MR. CAWLEY: Your Honor, that's our last	10	THE COURT: All right. We've been going here
11	witness in the rebuttal.	11	for an hour and a half; so, let's take a break until 25
12	THE COURT: So, you rest?	12	of and then I will consider the JMOL motions and any
13	MR. CAWLEY: Yes, your Honor.	13	other issues and then Ms. Chen will have a draft on the
14 15	THE COURT: Defense rests	14	jury issues for you to consider and we'll take the
15 16	MR. CAWLEY: Oh, there is one matter, your	15 16	objections on that.
10	Honor, that we had discussed yesterday and agreed on and it is that the parties have agreed that the actual	17	So, we'll be in recess until 25 of.
18	physical accused products should be introduced into	18	MR. GUNTHER: Your Honor, could I just hand up our JMOLs at the close of the evidence?
19	evidence.	19	THE COURT: Yes. If you've got a
20	THE COURT: All right.	20	different one if it's different than the other one.
21	MR. GUNTHER: Your Honor, that's correct	21	MR. GUNTHER: Yes, sir.
22	along with all of the physicals that have been moved in,	22	THE COURT: All right. We're in recess until
23	photographs and the actual physicals	23	25 of.
24	MR. CAWLEY: Yes. We already have the	24	(Recess, 11:24 a.m. to 11:33 a.m.)
25	photographs in, and we want to make sure that the	25	(Open court, all parties present, jury not
	Page 1517		Page 1519
1	physical	1	present.)
2	THE COURT: All right. They'll be admitted.	2	THE COURT: All right. We've got counsel
3	Of course, the record on appeal is all going to be on a	3	from both sides. Let me start off with Nintendo's
4	disk; so, you'll have to take them back and substitute	4	motion for judgment as a matter of law. I'm
5	the photos.	5	gathering and I believe this is correct that
6	MR. GUNTHER: Understood, your Honor.	6	actually there's no dispute over the infringement by
7	MR. CAWLEY: Understood, your Honor.	7	doctrine of equivalents. That's not being pushed any
8	THE COURT: So, plaintiff rests?	8	further by plaintiffs; is that correct?
9	MR. CAWLEY: Yes, your Honor.	9	MR. BOVENKAMP: That's correct, your Honor.
10	THE COURT: Defense rests?	10	THE COURT: Okay. So, that motion is moot.
11	MR. GUNTHER: We're done, your Honor.	11	It's been dropped by plaintiff. In case there is any
12	THE COURT: Subject to all motions, of	12	well, it's been dropped by plaintiff; so, that one is
13 14	course.	13 14	moot.
14	So, plaintiff closes? MP. CAWLEX: Yes, your Honor	14	So, then we get into the issue of no legally sufficient evidentiary basis for a jury to find that the
15 16	MR. CAWLEY: Yes, your Honor. THE COURT: Defense closes?	16	sufficient evidentiary basis for a jury to find that the accused controllers literally infringed any of the
17		17	asserted claims in the '700 patent. The court concludes
	MR GUNTHER. Ves sir		
18	MR. GUNTHER: Yes, sir. THE COURT: Okay Ladies and gentlemen you		
18 19	THE COURT: Okay. Ladies and gentlemen, you	18	that on a review of the exhibits and the testimony,
19	THE COURT: Okay. Ladies and gentlemen, you have heard all of the evidence in the case. It took a	18 19	that on a review of the exhibits and the testimony, especially of defendant's own witnesses, Ikeda and the
19 20	THE COURT: Okay. Ladies and gentlemen, you have heard all of the evidence in the case. It took a little bit longer this morning than I thought. I	18 19 20	that on a review of the exhibits and the testimony, especially of defendant's own witnesses, Ikeda and the gentleman with the long Koshiishi?
19	THE COURT: Okay. Ladies and gentlemen, you have heard all of the evidence in the case. It took a little bit longer this morning than I thought. I thought we may be taking an earlier break. But what I'm	18 19	that on a review of the exhibits and the testimony, especially of defendant's own witnesses, Ikeda and the gentleman with the long Koshiishi? MR. GUNTHER: Koshiishi, your Honor.
19 20 21	THE COURT: Okay. Ladies and gentlemen, you have heard all of the evidence in the case. It took a little bit longer this morning than I thought. I thought we may be taking an earlier break. But what I'm going to do now is release you for lunch. I'm going to	18 19 20 21	that on a review of the exhibits and the testimony, especially of defendant's own witnesses, Ikeda and the gentleman with the long Koshiishi?
19 20 21 22	THE COURT: Okay. Ladies and gentlemen, you have heard all of the evidence in the case. It took a little bit longer this morning than I thought. I thought we may be taking an earlier break. But what I'm	18 19 20 21 22	that on a review of the exhibits and the testimony, especially of defendant's own witnesses, Ikeda and the gentleman with the long Koshiishi? MR. GUNTHER: Koshiishi, your Honor. THE COURT: Koshiishi. I speak Spanish. I'm

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	Page 1520		Page 1522
1	you're talking about a small amount but to justify a	1	and then it goes down to proximity sensors, variable
	finding, should the jury tend to believe the various	2	resistive and/or capacitive sensors. And then it also
	witnesses, including Dr. Howe, of infringement.	3	mentions piezo sensors.
4	As to, for example, the GameCube controllers,	4	But then, additionally, (reading) and also
5	it's it wasn't quite admitted. But by accusing	5	other electricity controlling, shaping, or informing
6	Mr. Armstrong of copying and writing his claims	6	devices influenced by movement or force.
7	specifically to cover the GameCube, it's a little	7	So, you have the capacitor sensors there; and
8	difficult to say that there wouldn't be at least a	8	if some argument is to be made that, well, this is a
9	finding that those infringed. The argument would be he	9	movement that's going on or something, that seems to be
	deliberately copied them but he was a bad copier. I	10	covered in there, also.
	didn't hear anything about him being a bad copier; so,	11	Now, that's the same language that we see in
	that's virtually I'm not going to say it's an	12	the '700 patent at Column 4 between lines about 20 and
	admission, but it's awful close on what he supposedly	13	29. So, clearly there is sufficient evidence that
	copied.	14	having a pair of capacitors there for each axis or
15	As to the Wii and the big issue here, of	15	capacitive sensors there on each axis would meet that;
	course, is the accelerometer. And I'll note for the	16	and I think that
	record I don't know if it makes any difference to the	17	I've also taken time to review the IEEE
	higher court, but they sometimes seem to talk about how	18	dictionary and the Wiley dictionary and took a look,
	much work or effort a court has put into it. I have	19	also, at the description in the data sheets in those two
	listened very carefully to both experts and have also	20	exhibits where they make it pretty clear that there's
	consulted with the court's technical advisor, Dr. Howard	21	probes and capacitors set out there. And after as I
	Schmidt, professor at Rice University, who, of course,	22	said before, discussing this in detail from the point of
	has his doctorate in chemistry, his master's in	23	view of one of skill in the art and, in my case,
	chemistry, his bachelor's in electrical engineering and	24 25	discussions, obviously, with a technical advisor and listoning to the experts and Mr. Useds and
20	computer science, and is executive director of the	20	listening to the experts and Mr. Ikeda and
	Page 1521		Page 1523
	carbon and nanotechnology laboratory and has been	1	Mr. Koshiishi, I think there is evidence there on that.
	keeping up with all of this, helped me during the	2	Then we have the next issue, and it's
	Markman phase and discussed this, also.	3	slightly different. In the original motion for JMOL, it
4	It is true that the Analog refer to their	4	was in terms of (reading) as a matter of law the '700
	device, their chip, as "a sensor." But that does seem	5	application was a continuation-in-part of the '525
	to be a matter of how you phrase it. For example, in	6	patent, not a continuation. And here, it's (reading) no
	the military there are sensors that they use to	7	legally sufficient evidentiary basis exists for a
	determine whether someone is approaching; but that's a	8	reasonable jury to find that the '700 patent has an
	combination of a couple of different sensors, vibration	9 10	effective filing date earlier than November 16 of 2000.
	and sound and so, in the sensor that the soldier puts	11	So, the JMOL seems to have switched to
	out, there are sensors inside it. And, similarly, in this sensor, the testimony of Mr. Ikeda I don't even	12	evidentiary basis as opposed to just a finding as a matter of law. And actually, I think that is the
	have to rely on plaintiff's witnesses indicated that	13	correct argument to make. It is, in fact, a
	there were pairs of capacitors on each axis, or for each	14	determination as at least in part based upon facts.
	axis. That was quite clear. That bolstered what	15	And, again, listening to the testimony of the witnesses
		16	and reviewing the application, the '525 patent itself,
	Ur Howe said		and reviewing the application, the 525 patent risen,
17	Dr. Howe said. But when the man who is in charge of the Wij		and the figures comparing them with the claims, it to
17 18	But when the man who is in charge of the Wii	17	and the figures, comparing them with the claims, it to some degree as with the accelerometer product for
18	But when the man who is in charge of the Wii program says that, I have to take that very seriously.	17 18	some degree as with the accelerometer product, for
18 19	But when the man who is in charge of the Wii program says that, I have to take that very seriously. And then the question about whether is the	17 18 19	some degree as with the accelerometer product, for that matter is going to come down to evaluation by
18 19 20	But when the man who is in charge of the Wii program says that, I have to take that very seriously. And then the question about whether is the capacitor or are capacitors sensors, I think that's	17 18 19 20	some degree as with the accelerometer product, for that matter is going to come down to evaluation by the jury of the credibility of the respective experts
18 19 20 21	But when the man who is in charge of the Wii program says that, I have to take that very seriously. And then the question about whether is the capacitor or are capacitors sensors, I think that's pretty well covered, both in the '700 patent and in the	17 18 19	some degree as with the accelerometer product, for that matter is going to come down to evaluation by the jury of the credibility of the respective experts and the other witnesses in their determination.
18 19 20 21 22	But when the man who is in charge of the Wii program says that, I have to take that very seriously. And then the question about whether is the capacitor or are capacitors sensors, I think that's pretty well covered, both in the '700 patent and in the earlier application. For ease of reference, I'll refer	17 18 19 20 21	some degree as with the accelerometer product, for that matter is going to come down to evaluation by the jury of the credibility of the respective experts and the other witnesses in their determination. I mean, obviously they could decide that
18 19 20 21 22 23	But when the man who is in charge of the Wii program says that, I have to take that very seriously. And then the question about whether is the capacitor or are capacitors sensors, I think that's pretty well covered, both in the '700 patent and in the	17 18 19 20 21 22	some degree as with the accelerometer product, for that matter is going to come down to evaluation by the jury of the credibility of the respective experts and the other witnesses in their determination.

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	Page 1524		Page 1526
1	the determination they have to make. And, likewise,	1	expert, the court finds there is sufficient evidence for
2	they've got to rely on the evidence they have received	2	a jury to make a decision there.
3	on this other. But the court finds that there is	3	So, for those reasons, I will overrule the
4	sufficient evidence for this to go to a jury and for	4	motions for JMOL on that general.
5	them to make that determination and so on that issue	5	And let's see. This brings up, I guess, a
6	about evidentiary basis for the on the effective	6	couple of points. And one of them is this in your
7	filing date.	7	motion and this deals with the tactile feedback.
8	And then on the your next one is there's	8	Now, I will point out that when the
9	no legally sufficient basis for the jury to find that	9	Markman Hearing came along, the parties represented to
10	the '700 patent is not anticipated or rendered obvious.	10	the court that that had been agreed upon, there was no
11	Actually, I don't think that's the test. You have to	11	dispute. I got that in at least one of the briefs,
12	prove that it is; they don't have to prove that it's	12	perhaps two of them. And then at the hearing itself and
13	not. They don't have to find that it's not. If they	13	the transcript I've checked and that that was the
14	find I mean, they could find that you just failed to	14	representation that was made, that there was no real
15	prove it. And only if it was against I mean, there	15	dispute.
16	would have to be a lot of evidence going the other way,	16	Now it seems to be that there needs to be
17	I think, to overturn that. But regardless, I think	17	some kind of an instruction to the jury on what that
18	the I mean, it may just be a wording question there;	18	means; and, so, I'm intending to give that. I think
19	but I want to be sure we're not getting confused on the	19	it's fairly clearly set out in the specification itself.
20	burden. The burden is on defendant by clear and	20	The specification states what the what they're
21	convincing evidence on that issue.	21	talking about with tactile feedback and then refers back
22	And to say there is no evidence for them to	22	to an earlier patent, giving it as an example or its
23	find that you didn't meet your burden, I think, is	23	equivalents. I'm referring here particularly to
24	incorrect. So, on that basis I'll deny it. But if what	24	Column 4 of the I'm sorry Column 5 of the '700
25	you really meant was is that as a matter of law there	25	patent.
	Page 1525		Page 1527
1	is enough evidence for the court to just decide	1	Now, has there been any agreement I mean,
2	anticipation and obviousness, the court finds that that	2	I've got well, let me not get out of order.
3	is hotly contested and not proper at this time for a	3	Anyways, based on that, I don't believe that
4	JMOL.	4	is a basis for granting judgment as a matter of law. I
5	And then, finally, the not well,	5	think there is testimony about a weight, and the jury
6	there's the again, the written description, the no	6	think there is testimony about a weight, and the jury can decide whether or not it winds up meeting a
6 7	there's the again, the written description, the no legally sufficient basis to find that the claims of the	6 7	think there is testimony about a weight, and the jury can decide whether or not it winds up meeting a definition that they are going to have to be given.
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6 7 8 9	there's the again, the written description, the no legally sufficient basis to find that the claims of the '700 patent are supported by the written description of the '700 patent specification. Again, the court finds	6 7 8 9	think there is testimony about a weight, and the jury can decide whether or not it winds up meeting a definition that they are going to have to be given. MR. FARIS: Your Honor? THE COURT: Yes.
6 7 8 9 10	there's the again, the written description, the no legally sufficient basis to find that the claims of the '700 patent are supported by the written description of the '700 patent specification. Again, the court finds that is contested. A good deal of that may depend on	6 7 8 9 10	think there is testimony about a weight, and the jury can decide whether or not it winds up meeting a definition that they are going to have to be given. MR. FARIS: Your Honor? THE COURT: Yes. MR. FARIS: I just need to say something on
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	Page 1528		Page 1530
1	next.	1	life at that point. No idea you were talking about
2	MR. FARIS: Thank you, your Honor.	2	things held in two hands or that was even going to be an
3	THE COURT: If I try to make the definition	3	issue.
4	in the middle of the JMOL, it's going to be very	4	But to now move for JMOL after those
5	confusing. Let me get through the JMOL.	5	representations at the hearing and after sitting quiet
6	I think there is evidence that there is, in	6	with my claim construction there saying "hand" as
7	fact, a rumble feature, vibration feature in each of	7	opposed to "hands," "hand or hands," or "hand(s)" and
8	the in the accused product and it does involve a	8	I know you've asked your witnesses a lot of questions;
9	weight and it does involve a shaft and I understand	9	and, boy, it sounds like a neat argument. But that one
10	there may be some disagreement on the evidence. That's	10	you've brought on yourself.
11	something the jury will have to decide; so, JMOL on that	11	You made the representation at the hearing.
12	ground is denied.	12	You let that definition go forward. If that was
13	There's also a JMOL on this issue of "hand,"	13	something important, that should have been brought to my
14	and that seems to be one that you've kind of walked into	14	attention so I could have considered whether it was
15	with your eyes wide shut. At the Markman Hearing	15	going to be "hand" or "hands." And to now bring it up,
16	Claim Construction Hearing I'm looking at I think	16	that, I think, is well, I mean, I guess it's a neat
17	it's part 2, starting about page 9. I was asking	17	argument; but it's unsupportable in terms of JMOL or as
18	Mr. Stevenson, for plaintiffs: The specification makes	18	a matter of law or anything else. And I am definitely
19	it pretty clear that it's something in the human hands	19	not granting JMOL on the basis that now suddenly it's
20	or a handheld game interface or something like that. Is	20	"hand" versus "hands" with those two pieces of the
21	there any question from plaintiff's point of view that	21	controller there. So, that's being denied.
22	that part of it is what we're talking about, a handheld	22	But I've stated for the record the reasons
23	user interface or a hand device?	23	for it, especially when you take into the there's
24	Mr. Stevenson: Not really any significant	24	also and I think I mean, the reason for that is we
25	dispute there. The real issue is, is it a single input	25	take a look as far back as the '525 patent, Column 1,
	Page 1529		Page 1531
1	member.	1	Background of the Invention, right at the beginning, at
2	The Court: Okay.	2	about line 17: Computer image controllers which serve
3	Mr. Stevenson: That's the fight.	3	as interface input devices between the human hand(s).
4	A little bit later, starting at line 14: And	4	So, it's human hands; but with that "(s)," it clearly
5	the same for defendant. Would you agree that we're	5	could refer to "hand" or "hands."
6	talking about and I think all your constructions talk	6	There was no doubt at the hearing, there was
7	about hand-operable or held in the hands?	7	no doubt when I was writing my construction, and no
8	Mr. Gunther: Yes, sir.	8	doubt that all through this case, until we got to this
9	Now, as it happened, I used the singular in	9	trial, that there was any question about that; and I
10	the construction. I don't recall any objection to that,	10	think that was pretty obvious from the specification
11	any request for clarification on that, or any debate	11	itself. Same thing in the '700 patent. So, that's
12	that it was going to be one hand or two hands. I mean,	12	denied on that ground.
13	almost all these controllers, like the GameCube and	13	I think I have covered all of the issues
14		14	brought up. Is there one that I have missed,
	everything else, is actually generally held in two		
15	hands. You've got two thumbsticks, two joysticks,	15	Mr. Gunther?
15 16	hands. You've got two thumbsticks, two joysticks, whatever. You're using two thumbs; although, I suppose	15 16	MR. GUNTHER: Your Honor, can I let Mr. Blank
15 16 17	hands. You've got two thumbsticks, two joysticks, whatever. You're using two thumbs; although, I suppose someone who is quick could use one hand.	15 16 17	MR. GUNTHER: Your Honor, can I let Mr. Blank speak to that?
15 16 17 18	hands. You've got two thumbsticks, two joysticks, whatever. You're using two thumbs; although, I suppose someone who is quick could use one hand. To move for JMOL on the basis of that	15 16 17 18	MR. GUNTHER: Your Honor, can I let Mr. Blank speak to that? THE COURT: That's fine.
15 16 17 18 19	hands. You've got two thumbsticks, two joysticks, whatever. You're using two thumbs; although, I suppose someone who is quick could use one hand. To move for JMOL on the basis of that undisputed and definition of the "use of hand," the	15 16 17 18 19	MR. GUNTHER: Your Honor, can I let Mr. Blank speak to that? THE COURT: That's fine. MR. GUNTHER: Is that okay?
15 16 17 18 19 20	hands. You've got two thumbsticks, two joysticks, whatever. You're using two thumbs; although, I suppose someone who is quick could use one hand. To move for JMOL on the basis of that undisputed and definition of the "use of hand," the use of the singular when that wasn't a dispute in	15 16 17 18 19 20	MR. GUNTHER: Your Honor, can I let Mr. Blank speak to that? THE COURT: That's fine. MR. GUNTHER: Is that okay? THE COURT: I mean, I tried to go through
15 16 17 18 19 20 21	hands. You've got two thumbsticks, two joysticks, whatever. You're using two thumbs; although, I suppose someone who is quick could use one hand. To move for JMOL on the basis of that undisputed and definition of the "use of hand," the use of the singular when that wasn't a dispute in fact, I specifically asked about that, didn't seem to be	15 16 17 18 19 20 21	MR. GUNTHER: Your Honor, can I let Mr. Blank speak to that? THE COURT: That's fine. MR. GUNTHER: Is that okay? THE COURT: I mean, I tried to go through your motion and hit all the points that you raised. But
15 16 17 18 19 20 21 22	hands. You've got two thumbsticks, two joysticks, whatever. You're using two thumbs; although, I suppose someone who is quick could use one hand. To move for JMOL on the basis of that undisputed and definition of the "use of hand," the use of the singular when that wasn't a dispute in fact, I specifically asked about that, didn't seem to be any dispute. That wasn't a problem. No one was	15 16 17 18 19 20 21 22	MR. GUNTHER: Your Honor, can I let Mr. Blank speak to that? THE COURT: That's fine. MR. GUNTHER: Is that okay? THE COURT: I mean, I tried to go through your motion and hit all the points that you raised. But if there is a general point that was raised and I
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15 16 17 18 19 20 21 22	hands. You've got two thumbsticks, two joysticks, whatever. You're using two thumbs; although, I suppose someone who is quick could use one hand. To move for JMOL on the basis of that undisputed and definition of the "use of hand," the use of the singular when that wasn't a dispute in fact, I specifically asked about that, didn't seem to be any dispute. That wasn't a problem. No one was	15 16 17 18 19 20 21 22	MR. GUNTHER: Your Honor, can I let Mr. Blank speak to that? THE COURT: That's fine. MR. GUNTHER: Is that okay? THE COURT: I mean, I tried to go through your motion and hit all the points that you raised. But if there is a general point that was raised and I

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	Page 1540		Page 1542
1	and then go ahead with the clear and convincing evidence	1	play that. There hasn't been any objection to those,
2	on this particular issue.	2	and I have said more than once, through the pretrial,
3	That explains why I'm going to do what I'm	3	that if there is a problem with them, let me know. But
4	going to do, and at this point do we have any	4	to wait now at this point to say for all of those
5	objections as to the instructions?	5	constructions, go back to the Markman briefing, I'm not
6	MR. BOVENKAMP: Yes, your Honor. Plaintiffs	6	going to accept that. Now, if there are some particular
7	would request that the court give the instruction that,	7	ones, bring them out.
8	with regards to preambles of the claim, that all of the	8	MR. BLANK: Okay.
9	claims in this case have preambles. (Reading) A	9	LAW CLERK: I think he was referring to
10	preamble is the first words of a patent claim and is	10	(indicating) these
11	often a single phrase indicating the field of art.	11	THE COURT: Well, that's not what he said.
12	Preambles here are not claim limitations; rather, the	12	He said he's objecting to all of the ones in Appendix A.
13	remaining parts of the claim define the scope of the	13	If that's not what you meant, then explain
14	invention.	14	what you mean.
15	THE COURT: Overruled. Is that it?	15	MR. BLANK: What I'm saying is is that we
16	MR. BOVENKAMP: A moment to consult, your	16	proposed with the proposed final jury instructions
17	Honor. I think that's it, though.	17	filed on April 18th, 2008, we attached as an appendix
18 19	One more, your Honor.	18	the constructions that we advanced during the
20	THE COURT: Okay. MR. BOVENKAMP: We would also request that	19 20	Markman Hearing. That's all I'm saying. That's all I'm
20	the jury be instructed with regards to the presumption	20	trying to do is preserve the right to argue those if and when the Federal Circuit looks at this on a de novo
22	of validity for a patent.	22	basis. That's all I'm saying.
23	THE COURT: All right. Overruled for the	23	THE COURT: All right. Overruled.
24	reasons stated. We're already going to since I'm	24	The one I guess I'd be interested in is the
25	relying on Chiron, I think I'll rely on them completely.	25	tactile feedback, because that's the one that there
		-	
	Page 1541		Page 1543
1	Page 1541 MR BOVENKAMP: Okay Those are all the	1	Page 1543
1	MR. BOVENKAMP: Okay. Those are all the	1	hasn't been any agreement on or no prior ruling on.
2	MR. BOVENKAMP: Okay. Those are all the objections that we have, your Honor.	2	hasn't been any agreement on or no prior ruling on. MR. BLANK: The only issue on that, your
2 3	MR. BOVENKAMP: Okay. Those are all the objections that we have, your Honor. THE COURT: Okay. From defendants?	2 3	hasn't been any agreement on or no prior ruling on. MR. BLANK: The only issue on that, your Honor, is I see that your instruction is "a motor having
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2 3 4 5 6 7 8 9 10	MR. BOVENKAMP: Okay. Those are all the objections that we have, your Honor. THE COURT: Okay. From defendants? MR. BLANK: Nintendo objects to the claim constructions set forth in THE COURT: Okay. You need to speak into the microphone, sir. MR. BLANK: I'm sorry, your Honor. Nintendo objects to the instructions set forth in Appendix A, which are the claim constructions,	2 3 4 5 6 7 8	hasn't been any agreement on or no prior ruling on. MR. BLANK: The only issue on that, your Honor, is I see that your instruction is "a motor having a shaft with an offset weight and equivalents thereof"; and our Nintendo's position is that the corresponding structure is a "motor, shaft, and offset weight on the shaft and equivalents thereof." THE COURT: All right. What's plaintiff's position on that? MR. BOVENKAMP: Your Honor, frankly, I'm
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2 3 4 5 7 8 9 10 11 12	MR. BOVENKAMP: Okay. Those are all the objections that we have, your Honor. THE COURT: Okay. From defendants? MR. BLANK: Nintendo objects to the claim constructions set forth in THE COURT: Okay. You need to speak into the microphone, sir. MR. BLANK: I'm sorry, your Honor. Nintendo objects to the instructions set forth in Appendix A, which are the claim constructions, for the reasons set forth in its Markman briefing. THE COURT: No. That's unacceptable.	2 3 4 5 6 7 8 9 10 11 12	hasn't been any agreement on or no prior ruling on. MR. BLANK: The only issue on that, your Honor, is I see that your instruction is "a motor having a shaft with an offset weight and equivalents thereof"; and our Nintendo's position is that the corresponding structure is a "motor, shaft, and offset weight on the shaft and equivalents thereof." THE COURT: All right. What's plaintiff's position on that? MR. BOVENKAMP: Your Honor, frankly, I'm surprised that we're having a disagreement about this. There is no question there was an agreement between the
2 3 4 5 6 7 8 9 10 11 12 13	MR. BOVENKAMP: Okay. Those are all the objections that we have, your Honor. THE COURT: Okay. From defendants? MR. BLANK: Nintendo objects to the claim constructions set forth in THE COURT: Okay. You need to speak into the microphone, sir. MR. BLANK: I'm sorry, your Honor. Nintendo objects to the instructions set forth in Appendix A, which are the claim constructions, for the reasons set forth in its Markman briefing. THE COURT: No. That's unacceptable. MR. BLANK: I'm sorry.	2 3 4 5 6 7 8 9 10 11 12 13	hasn't been any agreement on or no prior ruling on. MR. BLANK: The only issue on that, your Honor, is I see that your instruction is "a motor having a shaft with an offset weight and equivalents thereof"; and our Nintendo's position is that the corresponding structure is a "motor, shaft, and offset weight on the shaft and equivalents thereof." THE COURT: All right. What's plaintiff's position on that? MR. BOVENKAMP: Your Honor, frankly, I'm surprised that we're having a disagreement about this. There is no question there was an agreement between the parties during the Markman briefing on the construction
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. BOVENKAMP: Okay. Those are all the objections that we have, your Honor. THE COURT: Okay. From defendants? MR. BLANK: Nintendo objects to the claim constructions set forth in THE COURT: Okay. You need to speak into the microphone, sir. MR. BLANK: I'm sorry, your Honor. Nintendo objects to the instructions set forth in Appendix A, which are the claim constructions, for the reasons set forth in its Markman briefing. THE COURT: No. That's unacceptable. MR. BLANK: I'm sorry. THE COURT: That is absolutely unacceptable.	2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>hasn't been any agreement on or no prior ruling on. MR. BLANK: The only issue on that, your</li> <li>Honor, is I see that your instruction is "a motor having a shaft with an offset weight and equivalents thereof"; and our Nintendo's position is that the corresponding structure is a "motor, shaft, and offset weight on the shaft and equivalents thereof." THE COURT: All right. What's plaintiff's position on that? MR. BOVENKAMP: Your Honor, frankly, I'm surprised that we're having a disagreement about this. There is no question there was an agreement between the parties during the Markman briefing on the construction of this term. There was originally a dispute in the</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. BOVENKAMP: Okay. Those are all the objections that we have, your Honor. THE COURT: Okay. From defendants? MR. BLANK: Nintendo objects to the claim constructions set forth in THE COURT: Okay. You need to speak into the microphone, sir. MR. BLANK: I'm sorry, your Honor. Nintendo objects to the instructions set forth in Appendix A, which are the claim constructions, for the reasons set forth in its Markman briefing. THE COURT: No. That's unacceptable. MR. BLANK: I'm sorry. THE COURT: That is absolutely unacceptable. This idea that, "Oh, well, there's some error out there	2 3 4 5 6 7 8 9 10 11 12 13 14 15	hasn't been any agreement on or no prior ruling on. MR. BLANK: The only issue on that, your Honor, is I see that your instruction is "a motor having a shaft with an offset weight and equivalents thereof"; and our Nintendo's position is that the corresponding structure is a "motor, shaft, and offset weight on the shaft and equivalents thereof." THE COURT: All right. What's plaintiff's position on that? MR. BOVENKAMP: Your Honor, frankly, I'm surprised that we're having a disagreement about this. There is no question there was an agreement between the parties during the Markman briefing on the construction of this term. There was originally a dispute in the claim construction proceedings that Anascape contended
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. BOVENKAMP: Okay. Those are all the objections that we have, your Honor. THE COURT: Okay. From defendants? MR. BLANK: Nintendo objects to the claim constructions set forth in THE COURT: Okay. You need to speak into the microphone, sir. MR. BLANK: I'm sorry, your Honor. Nintendo objects to the instructions set forth in Appendix A, which are the claim constructions, for the reasons set forth in its Markman briefing. THE COURT: No. That's unacceptable. MR. BLANK: I'm sorry. THE COURT: That is absolutely unacceptable. This idea that, "Oh, well, there's some error out there and you'll just have to find it, judge," that may be what the Fed Circuit is intending to do with that case;	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	hasn't been any agreement on or no prior ruling on. MR. BLANK: The only issue on that, your Honor, is I see that your instruction is "a motor having a shaft with an offset weight and equivalents thereof"; and our Nintendo's position is that the corresponding structure is a "motor, shaft, and offset weight on the shaft and equivalents thereof." THE COURT: All right. What's plaintiff's position on that? MR. BOVENKAMP: Your Honor, frankly, I'm surprised that we're having a disagreement about this. There is no question there was an agreement between the parties during the Markman briefing on the construction of this term. There was originally a dispute in the claim construction proceedings that Anascape contended was not a 112(6) clause; defendants contended that it was.
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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 23	MR. BOVENKAMP: Okay. Those are all the objections that we have, your Honor. THE COURT: Okay. From defendants? MR. BLANK: Nintendo objects to the claim constructions set forth in THE COURT: Okay. You need to speak into the microphone, sir. MR. BLANK: I'm sorry, your Honor. Nintendo objects to the instructions set forth in Appendix A, which are the claim constructions, for the reasons set forth in its Markman briefing. THE COURT: No. That's unacceptable. MR. BLANK: I'm sorry. THE COURT: That is absolutely unacceptable. This idea that, "Oh, well, there's some error out there and you'll just have to find it, judge," that may be what the Fed Circuit is intending to do with that case; but they're going to have to say it. So, you go ahead and state your objections. You've waited through this entire trial, and you have not argued about them. They've been sitting there in front of the jury. And to play that game at this point, I think, is just absolutely abominable. It's one of the problems I have	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	hasn't been any agreement on or no prior ruling on. MR. BLANK: The only issue on that, your Honor, is I see that your instruction is "a motor having a shaft with an offset weight and equivalents thereof"; and our Nintendo's position is that the corresponding structure is a "motor, shaft, and offset weight on the shaft and equivalents thereof." THE COURT: All right. What's plaintiff's position on that? MR. BOVENKAMP: Your Honor, frankly, I'm surprised that we're having a disagreement about this. There is no question there was an agreement between the parties during the Markman briefing on the construction of this term. There was originally a dispute in the claim construction proceedings that Anascape contended was not a 112(6) clause; defendants contended that it was. In order to simplify and streamline things, right prior to the Markman briefing, Anascape agreed verbatim to the defendant's proposed constructions. We noted that on the first page with a footnote in our opening brief. The court recognized that at the Markman Hearing, your Honor. We don't think it's an
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. BOVENKAMP: Okay. Those are all the objections that we have, your Honor. THE COURT: Okay. From defendants? MR. BLANK: Nintendo objects to the claim constructions set forth in THE COURT: Okay. You need to speak into the microphone, sir. MR. BLANK: I'm sorry, your Honor. Nintendo objects to the instructions set forth in Appendix A, which are the claim constructions, for the reasons set forth in its Markman briefing. THE COURT: No. That's unacceptable. MR. BLANK: I'm sorry. THE COURT: That is absolutely unacceptable. This idea that, "Oh, well, there's some error out there and you'll just have to find it, judge," that may be what the Fed Circuit is intending to do with that case; but they're going to have to say it. So, you go ahead and state your objections. You've waited through this entire trial, and you have not argued about them. They've been sitting there in front of the jury. And to play that game at this point, I think, is just	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	hasn't been any agreement on or no prior ruling on. MR. BLANK: The only issue on that, your Honor, is I see that your instruction is "a motor having a shaft with an offset weight and equivalents thereof"; and our Nintendo's position is that the corresponding structure is a "motor, shaft, and offset weight on the shaft and equivalents thereof." THE COURT: All right. What's plaintiff's position on that? MR. BOVENKAMP: Your Honor, frankly, I'm surprised that we're having a disagreement about this. There is no question there was an agreement between the parties during the Markman briefing on the construction of this term. There was originally a dispute in the claim construction proceedings that Anascape contended was not a 112(6) clause; defendants contended that it was. In order to simplify and streamline things, right prior to the Markman briefing, Anascape agreed verbatim to the defendant's proposed constructions. We noted that on the first page with a footnote in our opening brief. The court recognized that at the

39 (Pages 1540 to 1543)

	Page 1544		Page 1546
1	I've got here a copy of the original or the revised	1	THE COURT: Wait a minute. Let me get there.
2	joint claim construction statement where that came up.	2	MR. BLANK: Yes, sir.
3	And then noting at looks like page 1 of Anascape's	3	THE COURT: Did you say page 13?
4	opening claim construction brief, Footnote 3: Since	4	MR. BLANK: Yes, sir.
5	filing the revised PR 4-3 statement on May 1, 2007, the	5	THE COURT: Okay. All right. Yes?
6	parties have agreed to constructions for two additional	6	MR. BLANK: Yeah. Second paragraph the
7	terms. And then they Anascape has agreed to	7	first full paragraph, your Honor.
8	Microsoft's proposed constructions of Exhibit 2 of the	8	THE COURT: Right.
9	revised PR 4-3 statement.	9	MR. BLANK: The sentence that begins
10	Now, I suppose Nintendo could say, "Oh, we're	10	"rather." Nintendo believes that that should read
11	not Microsoft; we're different." But you sure didn't	11	and would request that the jury be charged as follows:
12	say it at the Markman Hearing, and I think it is a	12	Rather, the 1996 application itself must describe the
13	little late now to be trying to bring this up.	13	invention in the claim and do so in sufficient detail
14	But taking a look, then, at what we have in	14	that one skilled in the art can clearly conclude that
15	the patent itself, we have in the Abstract the reference	15	the inventor invented and possessed the full scope of
16	to "tactile feedback motor with shaft and offset	16	the claimed inventions recited in the asserted claims as
17	weight." And then on the '700 patent, Column 5, lines	17	of July 5th, 1996.
18	20 to 21, we have the words: Active tactile feedback	18	THE COURT: All right. And a number of cases
19	means (electric motor, shaft and weight).	19	talk about invention and possession, and in the cases it
20	And then a little bit further down in	20	makes clear that the inventor had that. There's been
21	Column 5, at line 22: "Tactile feedback means" in	21	on the other hand, I've got to explain this to a jury of
22	reference to the active type as herein used can be an	22	laypeople; and what I'm trying to do is give them the
23	equivalent to or that which is detailed in the	23	idea that he invented it with all of its limitations and
24	incorporated U.S. Patent Number 5,589,828, which is	24	in sufficient detail. No issue has been brought up
25	shown and described therein basically as a motor with a	25	about possession. As Mr. Gunther said, you know, who
	Page 1545		Page 1547
1	shaft and weight on the shaft I'm sorry with a	1	owns the patent or so forth hasn't been in. And to try
2	shaft and weight on the shaft, the shaft being offset so	2	to explain to the jury that by "possession" we don't
3	that when rotated, vibration occurs which can be felt by	3	really mean who actually owns it, we mean that he has it
4	the hand(s) operating the controller.	4	all in his mind I think that concept has been
5	And taking a look at the '828 patent, we see	5	properly conveyed by the wording that we have in the
6	a description of that.	6	instruction as it is; that is and it talks about it,
7	Based on all of that and based on the	7	for example, right above there: The July 5th, 1996,
8	agreement that came earlier, the court concludes that	8	application must disclose the invention of the new claim
9	the function of "tactile feedback means for providing	9	with all of its limitations.
10	vibration" is: Providing electromechanical-created	10	And I don't think while the phrase you're
11	vibration to the user. And the structure is: Motor	11	using is one that is used in some cases, I don't think
12	having a shaft with an offset weight and equivalents	12	it helps the jury understand what the issue is here; so,
13	thereof.	13	I'll deny that.
14	So, I will deny your objection as to the	14	MR. BLANK: Okay. And, likewise, your Honor,
15	construction of that particular term and partly for not	15	on page 23, just for the record, the middle paragraph
16	having brought it up I think it's a little bit late	16	that begins, "This written description requirement for a
17	to change everything now after having made those	17	particular claim is satisfied," we would request that
1 0		18	the jury be charged as follows: This written
18	agreements, but also based on the references and my	10	
19	review of the patent the underlying patent and the	19	description requirement for a particular claim is
19 20	review of the patent the underlying patent and the disclosures.	20	satisfied if the November 16th, 2000, patent application
19 20 21	review of the patent the underlying patent and the disclosures. Go ahead, counsel.	20 21	satisfied if the November 16th, 2000, patent application demonstrates to a person of ordinary skill in the art at
19 20 21 22	review of the patent the underlying patent and the disclosures. Go ahead, counsel. MR. BLANK: Okay. On page 13 of the	20 21 22	satisfied if the November 16th, 2000, patent application demonstrates to a person of ordinary skill in the art at the time the 2000 application was filed that
19 20 21 22 23	review of the patent the underlying patent and the disclosures. Go ahead, counsel. MR. BLANK: Okay. On page 13 of the instructions, your Honor, the sentence that begins:	20 21 22 23	satisfied if the November 16th, 2000, patent application demonstrates to a person of ordinary skill in the art at the time the 2000 application was filed that Mr. Armstrong invented and possessed the full scope of
19 20 21 22	review of the patent the underlying patent and the disclosures. Go ahead, counsel. MR. BLANK: Okay. On page 13 of the	20 21 22	satisfied if the November 16th, 2000, patent application demonstrates to a person of ordinary skill in the art at the time the 2000 application was filed that

40 (Pages 1544 to 1547)

	Page 1548		Page 1550
1 2 3 4 5 6 7 8 9 10 11	THE COURT: I'm going to deny that. What I am going to add at the end of that sentence, where it says that it describes the invention will include the phrase that we had before "with all of its limitations." And that will tie in with what's on page 13. Next? MR. BLANK: Yes, sir. Back to page 13, your Honor. The second full paragraph that begins "This written description requirement," we would propose that after the first sentence and before the last sentence, the following charge as follows: Individually	1 2 3 4 5 6 7 8 9 10 11	It's basic law that what the damage expert says, the jury can accept part or none or all. I don't think I need to belabor the court with the fact that there's clearly evidence supporting lump sum. The Sony decision, the plaintiff's admission that he liked lump sum and that he knows big companies like lump sum is strong evidence. The only thing that I heard the court express concern about and this may not have been the court's concern, but it was the fact that there was no expert testifying about and saying that it should be lump
12	describing each element of the asserted claims in a	12	sum. I cannot give the court a case in point on lump
13 14	patent application is not sufficient to satisfy the written description requirement. It is necessary for	13 14	sum, but I can refer the court and have given copies to Betty of several cases the plaintiff's attorneys have
15	the application to support the full scope of the claimed	15	copies but the Federal Circuit in Unisplay versus
16	embodiments as a whole, period.	16	American Electronic, 69 F.3d 512, 1995, where they were
17	THE COURT: Overruled.	17	appealing from a plaintiff verdict, the court noted at
18	MR. BLANK: The final objection with respect	18	page 7 that there there was a particular license in
19	to the liability-related instructions goes to the issue	19	that case, kind of like our Sony license. The court
20	of whose burden it is to prove priority and Mr. Faris is	20	said that that particular license agreement should carry
21	going to speak to that and then we have one additional	21 22	considerable weight.
22 23	objection with respect to damages that Mr. Germer will address.	22 23	I would say the Sony lump-sum settlement
23 24	THE COURT: All right.	24	should carry considerable weight, not just some evidence.
25	MR. FARIS: Your Honor, we have also reviewed	25	But then the court said more broadly and
	Page 1549		Page 1551
1	the Power Oasis case. And given the changes which you	1	this is the point I hope to make (reading) in
2	have made to the instructions, to that specific	2	rendering our decision, the court said, we do not hold
		-	
3	instruction. by removing that specific statement	3	
3 4	instruction, by removing that specific statement concerning burden	3 4	that a jury may only arrive at a royalty specifically
	concerning burden THE COURT: You need to speak up so she can		that a jury may only arrive at a royalty specifically articulated by the parties during the trial. A court is
4	concerning burden	4	that a jury may only arrive at a royalty specifically
4 5 6 7	concerning burden THE COURT: You need to speak up so she can hear you. MR. FARIS: Yes, sir. Given that change, we	4 5 6 7	that a jury may only arrive at a royalty specifically articulated by the parties during the trial. A court is not restricted in finding a reasonable royalty to a specific figure put forth by one of the parties. Rather, a jury's choice simply must be within the range
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4 5 7 8 9	concerning burden THE COURT: You need to speak up so she can hear you. MR. FARIS: Yes, sir. Given that change, we don't have an objection to that specific instruction. THE COURT: Okay. Good.	4 5 7 8 9	that a jury may only arrive at a royalty specifically articulated by the parties during the trial. A court is not restricted in finding a reasonable royalty to a specific figure put forth by one of the parties. Rather, a jury's choice simply must be within the range encompassed by the record as a whole. And I would urge the court that that same
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41 (Pages 1548 to 1551)

	Page 1552		Page 1554
1	"Oh, I think it should be lump sum" if there's evidence	1	and how do you extract out the lump sum from those other
2	fairly raising it. And I have other cases; but that's	2	factors that were in those licenses.
3	the tenor of it, your Honor.	3	I could be wrong, but I don't recall a just
4	I think clearly if we look at the record in	4	bare what is sometimes called a "bare license" for a
5	the case, we're going to see that it's a pretty strong	5	lump sum. If I'm recalling right, they're almost all
6	record for lump sum; and that, I think, is what the jury	6	involving other issues, more than one patent,
7	is going to have to decide, which way they want to go.	7	cross-licensing, and so forth.
8	Thank you and unfortunately, as I said	8	And, so, without that and without some other
9	last night, I mean, I do think this is not a trivial	9	testimony and given the I guess, the evidence that we
10	matter because if the defendant doesn't get this	10	have from it seems to be uncontroverted that in this
11	submission and we're entitled to it not that we're	11	particular case and it was the last question I think
12	going to win it. The jury still can decide and may well	12	the expert was asked by counsel, was that this lump sum
13	decide, if they go for plaintiff, to give a running	13	would be only for the amount of time between, I guess,
14	royalty. But if we don't get this in our submission and	14	the filing of suit and today. And actually, that's not
15	we're right that there's evidence in here, then clearly	15	correct. The lump sum would be for all time.
16	the whole damage part of the case at least would have to	16	I asked a question I was concerned about
17	be redone.	17	that; and I actually asked a question of what's lump
18	THE COURT: I mean, you make some good	18	sum, what's but there was no follow-up, nothing to
19	arguments there; and the I'm gathering that the	19	get into anything further. And I don't think it would
20	defendants don't want it in there still, the	20	be proper for the jury to give a lump-sum judgment just
21	possibility.	21 22	based on damages suffered up to today. It's obviously a
22 23	MR. GUNTHER: Plaintiffs, your Honor? MR. BOVENKAMP: Plaintiffs.	22	lump sum for all time, and they've had no evidence on that at all.
23 24		23 24	
25	THE COURT: Plaintiffs. I'm sorry. MR. BOVENKAMP: That's correct, your Honor.	25	For those reasons, I and I have submitted "lump sum" questions before. I'm not submitting it in
25	-	25	
_	Page 1553		Page 1555
1	We do not.	1	this particular case.
2	We do not. THE COURT: Okay. I mean, it's possible you	2	this particular case. I think I'll also note that I had to make up
2 3	We do not. THE COURT: Okay. I mean, it's possible you were so confident you were going to win and you wouldn't	2 3	this particular case. I think I'll also note that I had to make up that question the last time I submitted it because I
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42 (Pages 1552 to 1555)

	Page 1568		Page 1570
1	Anything that was publicly known or used in	1	disclosed in the specification. Rather, the 1996
2	the United States by someone other than the inventor	2	application itself must describe the invention in the
3	before the inventor made the invention;	3	claim and do so in sufficient detail that one skilled in
4	Two, anything that was sold or on sale in the	4	the art can clearly conclude that the inventor invented
5	United States more than one year before the effective	5	the claimed invention as of July 5, 1996. A disclosure
б	filing date of the '700 patent;	6	in the application that merely renders the claim obvious
7	Three, anything that was patented or	7	is not sufficient to meet this written description
8	described in a printed publication anywhere in the world	8	requirement. The disclosure must describe the claim of
9	before the inventor made the invention or more than one	9	the '700 patent with all its limitations.
10	year before the effective filing date of the '700	10	The written description requirement may be
11	patent;	11	satisfied by the words, structures, figures, diagrams,
12	And, four, anything that was invented by	12	formulas, et cetera, in the patent application and any
13	another person in this country before the inventor made	13	combination of them, as understood by one of ordinary
14	the invention, if the other person did not abandon,	14	skill in the field of technology of the invention. A
15	suppress, or conceal his or her invention.	15	requirement in a claim need not be expressly disclosed
16	Two of the different categories of prior art	16	in the patent application as originally filed, provided
17	refer to the date on which the inventor made the	17	persons of ordinary skill in the field of technology of
18	invention. This is called the "date of the invention."	18	the invention would have understood that the missing
19	For purposes of this case, the date of the invention for	19	requirement is inherent in the written description of
20	a particular claim is the same as the effective filing	20	the patent application.
21	date, which is referred to in the other two categories	21	Nintendo can meet its burden of proving that
22	of prior art.	22	the 1996 application fails to satisfy the written
23	The effective filing date of a claim of the	23	description requirement for a particular claim of the
24	'700 patent is the date the application was filed	24	'700 patent and, thus, establish that claim is not
25	November 16, 2000 or the date on which the earlier	25	entitled to the July 5, 1996, effective filing date
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	Page 1569		Page 1571
1	Page 1569 patent application was filed July 5th, 1996 if	1	
1 2	patent application was filed July 5th, 1996 if that earlier application discloses the invention in that	1 2	Page 1571
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19 existed. 19 the claims of the patent asserted by Anascape with the				the claims of the patent asserted by Anascape with the
20 In determining whether to combine what is 20 prior art references to determine whether Nintendo has				
8		8		proved by clear and convincing evidence that one or more
22 consider whether or not there was some motivation or 22 of the claims was obvious.		1 / 2		
23 suggestion for a skilled person to make the combination 23 Now, to be valid, a patent must meet the				
24 covered by the patent claims. You should also consider 24 written description requirement. In order to meet this				
25 whether or not someone reading the prior art would have 25 written description requirement, the description of the				
meaner or not someone reading are prior art would have 120 million description requirement, the description of the		includer of not someone reading the prior art would have		inter description requirement, the description of the

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	Page 1580		Page 1582
1	invention in the specification portion of the '700	1	Anascape for the infringement. Your damage award, if
2	patent must be detailed enough to describe the invention	2	you reach this issue, should put the patent holder in
3	that is claimed in the claims of the '700 patent.	3	approximately the same financial position that it would
4	Nintendo may also establish that a patent claim of the	4	have been in had the infringement not occurred, but in
5	'700 patent is invalid by showing, by clear and	5	no event may the damages be less than a reasonable
6	convincing evidence, that the written description of the	6	royalty.
7	invention of the '700 patent itself is not adequate. In	7	Anascape has the burden to establish the
8	the patent application process, the applicant may change	8	amount of its damages by a preponderance of the
9	the claims between the time the patent application is	9	evidence. Damages are limited to acts of infringement
10	first filed and the time a patent is finally granted.	10	in the United States. You should award only those
11	An applicant may amend claims or add new claims. These		damages that Anascape establishes that it more likely
12	changes may narrow or broaden the scope of the claims.	12	than not suffered. Anascape is not entitled to damages
13 14	The purpose of the written description requirement is to	13 14	that are remote or speculative or based on guesswork. While Anascape is not required to prove its damages with
15	ensure that the '700 patent provides an adequate description of the invention and to ensure that the	$14 \\ 15$	mathematical precision, it must prove them with
16	scope of the claims that are eventually issued remain	16	reasonable certainty.
17	within the scope of the written description of the	17	In this case Anascape is seeking damages in
18	invention that was provided with the application for the	18	the form of a reasonable royalty. A royalty is the
19	'700 patent.	19	amount of money a licensee pays to a patent owner for
20	This written description requirement for a	20	use made of the invention under the patent. A
21	particular claim is satisfied if the person of ordinary	21	reasonable royalty is the amount of money a willing
22	skill reading the specification of the '700 patent would	22	patent owner and a willing prospective licensee would
23	recognize that it describes the invention with all its	23	have agreed upon at the time of the infringement for a
24	limitations.	24	license to make use of the invention. It is the royalty
25	The written description requirement may be	25	that would have resulted from an arm's-length
	Page 1581		Page 1583
1	Page 1581 satisfied by words, structures, figures, diagrams,	1	Page 1583 negotiation on or about June 14, 2005, between a willing
2	satisfied by words, structures, figures, diagrams, formulas, et cetera, in the patent and any combination	2	negotiation on or about June 14, 2005, between a willing licensor and a willing licensee, assuming that both
2 3	satisfied by words, structures, figures, diagrams, formulas, et cetera, in the patent and any combination of them as understood by one of ordinary skill in the	2 3	negotiation on or about June 14, 2005, between a willing licensor and a willing licensee, assuming that both parties believed the claims in question to be valid and
2 3 4	satisfied by words, structures, figures, diagrams, formulas, et cetera, in the patent and any combination of them as understood by one of ordinary skill in the field of the technology of the invention. A requirement	2 3 4	negotiation on or about June 14, 2005, between a willing licensor and a willing licensee, assuming that both parties believed the claims in question to be valid and infringed and that the licensee would respect the
2 3 4 5	satisfied by words, structures, figures, diagrams, formulas, et cetera, in the patent and any combination of them as understood by one of ordinary skill in the field of the technology of the invention. A requirement in a claim need not be expressly disclosed in the	2 3 4 5	negotiation on or about June 14, 2005, between a willing licensor and a willing licensee, assuming that both parties believed the claims in question to be valid and infringed and that the licensee would respect the patent.
2 3 4 5 6	satisfied by words, structures, figures, diagrams, formulas, et cetera, in the patent and any combination of them as understood by one of ordinary skill in the field of the technology of the invention. A requirement in a claim need not be expressly disclosed in the specification, provided persons of ordinary skill in the	2 3 4 5 6	negotiation on or about June 14, 2005, between a willing licensor and a willing licensee, assuming that both parties believed the claims in question to be valid and infringed and that the licensee would respect the patent. In making your determination of the amount of
2 3 4 5 6 7	satisfied by words, structures, figures, diagrams, formulas, et cetera, in the patent and any combination of them as understood by one of ordinary skill in the field of the technology of the invention. A requirement in a claim need not be expressly disclosed in the specification, provided persons of ordinary skill in the field of technology of the invention would have	2 3 4 5 6 7	negotiation on or about June 14, 2005, between a willing licensor and a willing licensee, assuming that both parties believed the claims in question to be valid and infringed and that the licensee would respect the patent. In making your determination of the amount of a reasonable royalty, it is important that you focus on
2 3 4 5 6 7 8	satisfied by words, structures, figures, diagrams, formulas, et cetera, in the patent and any combination of them as understood by one of ordinary skill in the field of the technology of the invention. A requirement in a claim need not be expressly disclosed in the specification, provided persons of ordinary skill in the field of technology of the invention would have understood that the missing requirement is inherent in	2 3 4 5 6 7 8	negotiation on or about June 14, 2005, between a willing licensor and a willing licensee, assuming that both parties believed the claims in question to be valid and infringed and that the licensee would respect the patent. In making your determination of the amount of a reasonable royalty, it is important that you focus on the time period when the infringer first infringed the
2 3 4 5 6 7 8 9	satisfied by words, structures, figures, diagrams, formulas, et cetera, in the patent and any combination of them as understood by one of ordinary skill in the field of the technology of the invention. A requirement in a claim need not be expressly disclosed in the specification, provided persons of ordinary skill in the field of technology of the invention would have understood that the missing requirement is inherent in the written description of the specification.	2 3 4 5 6 7 8 9	negotiation on or about June 14, 2005, between a willing licensor and a willing licensee, assuming that both parties believed the claims in question to be valid and infringed and that the licensee would respect the patent. In making your determination of the amount of a reasonable royalty, it is important that you focus on the time period when the infringer first infringed the patent and the facts that existed at that time. Your
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49 (Pages 1580 to 1583)

	Page 1584		Page 1586
1	evaluating evidence about amounts paid under other	1	infringer would have been willing to pay and the patent
2	licenses and agreements, you should consider whether	2	owner would have been willing to accept, acting as
3	such licenses and to what extent the license was	3	normally prudent businesspeople.
4	comparable; that is, was the technology exchanged and	4	The amount that a licensor and a licensee
5	the terms of the agreement similar in terms and scope to	5	would have agreed upon just before the patent-in-suit
6	the technology of the patent-in-suit and the bare	6	were issued if both had been reasonably and voluntarily
7	license for the patent in the hypothetical negotiation;	7	trying to reach an agreement; that is, the amount which
8	The nature of the commercial relationship	8	a prudent licensee who desired, as a business
9	between the patent owner and the licensee, such as	9	proposition, to obtain a license to use a particular
10	whether they were competitors or whether their	10	system or method embodying the patented invention would
11	relationship was that of an inventor and a promoter;	11	have been willing to pay as a royalty and still be able
12	The established profitability of the patented	12	to make a reasonable profit and which amount would have
13	method or system, its commercial success, and its	13	been acceptable by a prudent patentee who was willing to
14	popularity at the time;	14	grant a license.
15	Whether the patent owner had an established	15	Now, you'll also get, a little bit later, a
16	policy of granting licenses or retaining the patented	16	form which the lawyers, I think, on both sides will be
17	invention as its exclusive right, or whether the patent	17	showing you with a verdict and each one of those is a
18	holder had a policy of granting licenses under special	18	particular question on some of those issues you received
19	conditions designed to preserve its exclusivity;	19	an instruction on; and after the final argument, I have
20	The size of the anticipated market for the	20	a few more instructions on what you'll be doing in the
21	invention at the time the infringement began;	21	jury room.
22	The duration of the patent and of the	22	At this time, since plaintiff generally has
23	license, as well as the terms and scope of the license,	23	the burden of proof, plaintiff will begin the closing
24 25	such as whether it is exclusive or nonexclusive or	24 25	argument.
25	subject to territorial restrictions;	25	MR. CAWLEY: Thank you, your Honor.
	Page 1585		Page 1587
1	Seven, the rates paid by the licensee for the	1	This is a story about a man who had a vision.
2	Seven, the rates paid by the licensee for the use of other patents comparable to the plaintiff's	2	This is a story about a man who had a vision. His vision was to become an inventor, and one of the
2 3	Seven, the rates paid by the licensee for the use of other patents comparable to the plaintiff's patent;	2 3	This is a story about a man who had a vision. His vision was to become an inventor, and one of the things he had the vision to invent was a way of
2 3 4	Seven, the rates paid by the licensee for the use of other patents comparable to the plaintiff's patent; Eight, whether the licensee's sales of the	2 3 4	This is a story about a man who had a vision. His vision was to become an inventor, and one of the things he had the vision to invent was a way of controlling something that he saw would be needed in the
2 3 4 5	Seven, the rates paid by the licensee for the use of other patents comparable to the plaintiff's patent; Eight, whether the licensee's sales of the patented invention promote sales of its other methods or	2 3 4 5	This is a story about a man who had a vision. His vision was to become an inventor, and one of the things he had the vision to invent was a way of controlling something that he saw would be needed in the future. He had the vision to see that in the future,
2 3 4 5 6	Seven, the rates paid by the licensee for the use of other patents comparable to the plaintiff's patent; Eight, whether the licensee's sales of the patented invention promote sales of its other methods or systems and whether the invention generates sales to the	2 3 4 5 6	This is a story about a man who had a vision. His vision was to become an inventor, and one of the things he had the vision to invent was a way of controlling something that he saw would be needed in the future. He had the vision to see that in the future, video games would operate in three dimensions and that
2 3 4 5 6 7	Seven, the rates paid by the licensee for the use of other patents comparable to the plaintiff's patent; Eight, whether the licensee's sales of the patented invention promote sales of its other methods or systems and whether the invention generates sales to the inventor of his nonpatented items.	2 3 4 5 6 7	This is a story about a man who had a vision. His vision was to become an inventor, and one of the things he had the vision to invent was a way of controlling something that he saw would be needed in the future. He had the vision to see that in the future, video games would operate in three dimensions and that the simple kinds of controllers that the industry used
2 3 4 5 6 7 8	Seven, the rates paid by the licensee for the use of other patents comparable to the plaintiff's patent; Eight, whether the licensee's sales of the patented invention promote sales of its other methods or systems and whether the invention generates sales to the inventor of his nonpatented items. Nine, the utility and advantages of the	2 3 4 5 6 7 8	This is a story about a man who had a vision. His vision was to become an inventor, and one of the things he had the vision to invent was a way of controlling something that he saw would be needed in the future. He had the vision to see that in the future, video games would operate in three dimensions and that the simple kinds of controllers that the industry used up until the time of his invention wouldn't be good
2 3 4 5 6 7 8 9	Seven, the rates paid by the licensee for the use of other patents comparable to the plaintiff's patent; Eight, whether the licensee's sales of the patented invention promote sales of its other methods or systems and whether the invention generates sales to the inventor of his nonpatented items. Nine, the utility and advantages of the patent property over the old methods or systems, if any,	2 3 4 5 6 7 8 9	This is a story about a man who had a vision. His vision was to become an inventor, and one of the things he had the vision to invent was a way of controlling something that he saw would be needed in the future. He had the vision to see that in the future, video games would operate in three dimensions and that the simple kinds of controllers that the industry used up until the time of his invention wouldn't be good enough.
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	Page 1612		Page 1614
1	He files his application in 1996, and then he	1	definition of controllers on the market today.
2	goes about trying to commercialize what you see in front	2	They are not innovating; they're writing
3	of you on the table. He tries to sell single input	3	claims. They're trying to write claims to copy products
4	member 6-degree-of-freedom controllers. He calls them	4	that are on the market. Mr. Armstrong is no longer
5	"global navigators." No one wants them. He sells 30 of	5	trying to find success in his own ideas; he's trying to
6	them altogether. He attempts to license other	6	find success in the ideas of others.
7	companies. He testified that he enters into a joint	7	Mr. Tyler again in September this is very
8	venture with a company called "Key Tronic" to	8	shortly before the '700 application is filed in November
9	manufacture single input member 6-degree-of-freedom	9	of 2000 to Mr. Armstrong, on 6 degrees of freedom: I
10	controllers. Key Tronic never makes a single one.	10	wonder if we can change the claims to reflect our new
11	He testified that he his good friend he	11 12	direction?
12 13	enters into a license with his good friend, Mr. Tyler, when he's at Mad Catz. Mr. Tyler, the person who	13	Now, both Mr. Tyler and Mr. Armstrong
$14^{13}$	founded Mad Catz, who has his ear to the video game	$14^{13}$	testified that they couldn't remember what the new direction is. I ask you to use your common sense and
15	industry. He licenses his invention to Mr. Tyler; and	15	your perception of what's gone on in this case and the
16	Mr. Tyler, on behalf of Mad Catz, never makes any	16	evidence that has come in before you. And I will
17	controllers that embodied Mr. Armstrong's invention. He	17	suggest to you that the reason that there is a reason
18	never does it. The video game industry today you can	18	and a new direction. And what that new direction was
19	look today, and there has been no evidence that any	19	was to write claims in 2002 that copied the GameCube
20	company in the video game industry has ever developed a		controller. They tried to cover the GameCube controller
21	controller like the ones you see before you with a	21	and to take that invention as his own. The new
22	single handle or a single ball that's movable in	22	direction was to claim Nintendo's technology as his own.
23	6 degrees of freedom to achieve that kind of control.	23	And I want you to keep in mind one thing.
24	So, after ten years of failure, of trying, he	24	Mr. Armstrong is a 56 percent owner of Anascape. He
25	thinks he's got a revolutionary idea; but as he goes out	25	stands to get the lion's share of the \$50 million that
	Page 1613		Page 1615
1	to the market, the video game industry is not	1	they are asking for in this case. And it's not just
2	interested. What does he do? What does the dreamer do?	2	\$50 million, ladies and gentlemen, because the patent
3	What he does is he enters into an agreement;	3	continues out until 2012; and they are going to ask for
4	and he forms a company called "Anascape" with his	4	a 5 percent royalty on all of that. So, it could be a
5	business partner, his friend but his business partner,	5	hundred million or more at the end of the day.
6	in 1999. And what do they do with Mr. Tyler's money?	6	That's Mr. Armstrong. Now let's look at what
7	Mr. Tyler testified that he put in over a million	7	the evidence showed about Mr. Ikeda.
8	dollars into the enterprise. Do they do more R&D? Do	8	He had a revolutionary idea. His idea was
9 10	they go out and try to market a product? No. What they do is they sit down and spend that time and money trying	9 10	for a controller with an accelerometer and a pointer that could respond to body motion as it was moved
11	do is they sit down and spend that time and money trying to write new claims trying to change the application in	11	around. His idea also came from his prior experience.
12	a way not to cover what Mr. Armstrong disclosed in his	$12^{11}$	He was an engineer with 15 years working in video games
13	1996 application but to try to cover the work of others,	13	at Nintendo, right after he got his degree in electrical
14	to try to cover the work of Nintendo in this case.	14	engineering and got out of college. That's what he
15	Mr. Tyler let's go to the next slide.	15	focused on. And his idea came from, you'll recall, his
16	Mr. Tyler and you saw this slide. It's	16	experience with that Game Boy game called "Kirby Tilt 'n
17	Defendant's Exhibit 216 in evidence. Mr. Tyler takes	17	Tumble" which had an accelerometer in it and it gave him
18	the 1996 warehouse application; and in the year 2000, he	18	the idea, when he was put on that group that was doing
19	starts giving Mr. Armstrong ideas on what he should do	19	planning, to come up with a prototype. And he came up
20	to write new claims. And one of the things he says is:	20	with a prototype; and he took it to his boss,
21	I think we can get some additional valuable claims out	21	Mr. Miyamoto. And Mr. Miyamoto thought it was a good
22	of this application, the zero application. That's the	22	idea, and it began to catch fire. There was excitement
23	1996 application. He says: Broadens definition of 6	23	at the company. And the next thing you know, Mr. Ikeda
24	DOF controllers 6-degree-of-freedom controllers to	24	is in charge of the group that's developing the
25	3-D graphic image controllers, probably a better	25	controller for Nintendo's next generation system. And

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