

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

YEALINK (USA) NETWORK
TECHNOLOGY CO., LTD., and
YEALINK NETWORK TECHNOLOGY
CO., LTD.,

Petitioners,

VS.

BARCO N.V.,

Patent Owner.

Case No.
IPR2024-01439

DEPOSITION OF KEVIN C. ALMEROTH, Ph.D.
Santa Barbara, California
Tuesday, July 1, 2025

Stenographically Reported by:
JUSTYNE N. JOHNSON
RPR, CSR. No. 14301

Job No. 588238

Pages 1-83

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The Deposition of KEVIN C. ALMEROOTH, Ph.D., was taken on behalf of the Patent Owner, at 1111 East Cabrillo Boulevard, Santa Barbara, California, beginning at 9:04 a.m., Pacific time, on July 1, 2025, before JUSTYNE JOHNSON, RPR, Certified Shorthand Reporter No. 14301.

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WITNESS

EXAMINATION

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EXHIBITS

(None)

WITNESS INSTRUCTED NOT TO ANSWER

(None)

1 Santa Barbara, California

2 July 1, 2025 | 9:04 a.m.

3

4 THE STENOGRAPHER: Good morning. We are going on
5 the record at 9:04 a.m., on Tuesday, July 1, 2025, in the
6 matter of Yealink (USA) Network Technology Co., Ltd., et
7 al., v. Barco N.V., Case Number IPR2024-01439. Today's
8 deposition is taking place at 1111 East Cabrillo
9 Boulevard, Santa Barbara, California.

10 My name is Justyne Johnson. I am a California
11 certified shorthand reporter representing the firm Planet
12 Depos, and my certification number is 14301. The deponent
13 is Kevin C. Almeroth, Ph.D.

14 Counsel, can you please introduce yourselves.

15 MR. HALVERSON: Erik Halverson on behalf of
16 patent owner, Barco, N.V., from K & L Gates.

17 MR. YANG: Steven Yang from Dentons, representing
18 Petitioner Yealink and the witness. With me today is Ken
19 Greenleaf, also from Dentons.

20 THE STENOGRAPHER: Dr. Almeroth, can you raise
21 your right hand, please?

22 //

23 ///

24 ///

25 ///

1 KEVIN C. ALMEROOTH, Ph.D.,
2 having first been sworn by the Certified Shorthand
3 Reporter, was examined and testified as follows:

4 THE WITNESS: Yes, ma'am, I do.

5
6 EXAMINATION

7 BY MR. HALVERSON:

8 Q Welcome back, Dr. Almeroth.

9 A Thank you.

10 Q We spent some time yesterday going over your
11 background.

12 Has that changed at all in the last 15 hours?

13 A No, sir.

14 Q Wonderful. I want to talk today a little bit
15 about the '951 patent, which is Exhibit 1001 in this
16 proceeding. It's been handed -- that exhibit, along with
17 a couple of others, including 1002 in this proceeding,
18 which is your declaration, as well as 1008 and 1009, which
19 are the Grimshaw and Uchida, U-c-h-i-d-a, references,
20 respectively.

21 Just like yesterday, we got a bunch of paper
22 behind me (indicating). If you need something else, let
23 me know. It's in one of those boxes if it was part of one
24 of these proceedings.

25 So first question for you today is: What's a

1 peripheral device?

2 A So that is a claim term. I have not offered a
3 specific construction or a description of that term from
4 the specification. So it would have its plain and
5 ordinary meaning. And, typically, the claims pretty much
6 describe what the requirements of the peripheral device
7 are.

8 So taking the '951 patent, Exhibit 101 [sic],
9 Claim 1 as an example, there are requirements for what a
10 peripheral device needs to be or needs to do in the
11 context of those claims. Claim 1 sets forth what it is.
12 There's a wherein clause, and there's also at least one
13 peripheral device limitations. That's how I would
14 describe the requirements of a peripheral device and what
15 it is in the context of Claim 1.

16 Q So if we look at Claim 1, for example, the '951,
17 does the noun "peripheral device" convey anything to a
18 person of ordinary skill in the art that distinguishes it
19 from any other noun?

20 A That is not an analysis that I needed to
21 undertake as part of the opinions in this declaration. It
22 was really just the requirements of what the peripheral
23 device are, as expressed in the claim.

24 Q And so those requirements are the aspects of, for
25 example, Claim 1, subelements A, B, and C there; is that

1 right?

2 A Yes. Where A is the base node limitation, B is
3 the -- at least one peripheral device, and then C is the
4 wherein clause.

5 Oh. Sorry. You -- I think you meant A, B, and C
6 of the wherein clause. There are actually requirements in
7 the base node you have to be able to do -- the claim talks
8 about receiving user-selected arbitrary media content from
9 at least one peripheral device. There's also the -- at
10 least one peripheral device being adapted to communicate
11 the user-selected arbitrary media content to the wireless
12 communications network. And then wherein clause has A, B,
13 and C for the peripheral device as well.

14 Q And so just so that we're all on the same page
15 about nomenclature, is it your understanding that the base
16 node that is the first element of Claim 1 is part of the
17 peripheral device?

18 A No.

19 Q So that is a separate device to which the claimed
20 peripheral device communicates?

21 A It doesn't use the language separate. That
22 certainly could be one way in which the claim could be
23 implemented.

24 Q And are you familiar with any embodiments in the
25 '951 patent where the base node and the peripheral device

1 are not separate devices?

2 A I am not. I'm just recognizing that the
3 requirement that they be separate is not something that's
4 explicit in Claim 1.

5 Q And are you aware of any embodiments in any of
6 the prior art references that you relied on in your
7 declaration in this proceeding where a base node and a
8 peripheral device are not separate devices?

9 A Sitting here now, I am not aware of any
10 embodiments, but I would not take that answer to mean that
11 there aren't some. It's not something that I recall
12 relying on as the basis for my opinion, and it's quite
13 possible there are embodiments that allow the combination
14 of elements within those references. I just don't have
15 them memorized.

16 Q Now, the claim specifically requires that the
17 peripheral device communicate with the base node; right?

18 A There's the limitation where it has to
19 communicate to the wireless communication network, the
20 peripheral device does. Separately, the base node has to
21 be able to receive selected arbitrary media content from
22 the peripheral device via the wireless network. I would
23 expect, typically, they would be in communication with
24 each other.

25 Q And so if they have to -- sorry. Let me start

1 over there.

2 If the base node has to receive arbitrary media
3 content from a peripheral device via a wireless
4 communication network, how could they be part of the same
5 device? "They" being the peripheral and the base node.

6 A Likely would not be. The earlier opinion was
7 just noting that it doesn't say they have to be separate.
8 Whether or not you could build a device where internally
9 they're using wireless to communicate between components,
10 who knows if you could build something like that, whether
11 or not it would be within the scope of the claims. It's
12 kind of a whole direction of consideration about what
13 kinds of devices would be within scope of the claims or
14 not.

15 Q And so the -- the wherein clause that you were
16 referring to earlier that has three subelements in it, A,
17 B, and C, what are those subelements?

18 A Do you want me to read those?

19 Q You don't need to read the full claim, 'cause
20 it's about two thirds of the claim, but just the noun, I
21 guess, of each of those.

22 A Sure. So we're -- between us recognizing that
23 the language speaks for itself, A, refers to a connector
24 adapted to couple to a port of a user processing device.
25 There's B, a transmitter for transferring user-selected

1 arbitrary media content. And then there's C, an input
2 device configured to allow the user to carry out a user
3 action.

4 Q And so when you were looking at prior art
5 references to determine whether or not a peripheral device
6 was present in those references, were you looking for
7 anything beyond the claimed connector to claimed
8 transmitter and the claimed input device?

9 MR. YANG: Objection to form.

10 THE WITNESS: To be clear, I think it's first a
11 consideration of what a person of skill in the art would
12 have understood was being disclosed and taught within the
13 references and then, based on that understanding,
14 determining if what was disclosed was sufficient to meet
15 the limitations of the claim. Very much an effort to
16 void -- avoid any kind of hindsight analysis where it was
17 using the claims as a road map.

18 But with that in mind, certainly, there is a
19 question of whether or not what I have identified as being
20 analogous to the claimed peripheral device would have or
21 support each of those three aspects as described in
22 Claim 1.

23 BY MR. HALVERSON:

24 Q And I guess, would you consider a tablet to be a
25 peripheral device?

1 A As a hypothetical, I would have to give some
2 thought to that. Sitting here now, if it met all of the
3 requirements of the claim, I don't see a reason why a
4 tablet could not be a peripheral device.

5 Q Would a -- would you consider a cell phone to be
6 a peripheral device?

7 A That would be a similar kind of answer. I don't
8 see why a cell phone couldn't be a peripheral device. In
9 fact, I think, in one of the references in Ground 3, a
10 cell phone is acting as a peripheral device.

11 Q What about a laptop? Would a laptop be a
12 peripheral device?

13 A I don't recall any constraints on the term
14 "peripheral device" that would limit a laptop from being a
15 peripheral device as long as it's performing all of the
16 claimed requirements of the peripheral device.

17 Q Is a printer a peripheral device?
18 Spent some time yesterday chatting about
19 printers. Do you remember that?

20 A If -- if it's performing all of the requirements
21 of the claim, I'd have to give some thought as to whether
22 or not there's any aspect of the term "peripheral device,"
23 standing on its own, whether or not there is some aspect
24 of that term that would exclude a printer. I don't
25 believe that's an analysis I've had to undertake in the

1 context of this IPR.

2 Q I don't know that it is, and that's ultimately
3 what my question is getting at is: Have you done any
4 analysis or offered any opinions about what a peripheral
5 device is, setting aside the subelements A, B, and C that
6 are the connector, transmitter, and input device, that
7 provide further color as to what the peripheral device
8 comprises?

9 A Small adjustment in also the requirements outside
10 of the wherein clause that are in the claim. But
11 including all of those, beyond that, I don't recall that I
12 needed to give some additional definition to the
13 peripheral device term standing on its own. I think I
14 used the plain and ordinary meaning in the examples
15 within. The different references for the grounds in this
16 particular IPR were sufficient to meet the requirements of
17 a peripheral device in addition to the specific
18 requirements in the claim.

19 Q When you say that you don't recall that you
20 needed to give some additional definition of what a
21 peripheral device is, why don't you think you needed to do
22 that?

23 A Because the examples in each of the grounds that
24 I identified were sufficient to meet the requirements of a
25 peripheral device where peripheral devices is -- that term

1 would be applied both in terms of the specific
2 requirements of the claim and more generally in terms of
3 what a peripheral device could be.

4 Q Let's take a peek at the -- why don't we start
5 with Uchida, Exhibit 1009.

6 And I think you offer some opinions in your
7 declaration about what you contend to be a peripheral
8 device in Uchida; is that right?

9 A I do.

10 Q And so how did you arrive at the conclusion that
11 Uchida teaches a peripheral device?

12 A So I'm going to start on about page 123. And --

13 Q And are you in Uchida? Are you in your
14 declaration? Where are we right now?

15 A Exhibit 1002, my declaration. Page 123 is where
16 I start the analysis of Claim 1 based on Uchida and
17 Grimshaw. So I'm going to look through that for the first
18 description of the peripheral device. I think it's
19 probably mentioned in that first limitation.

20 So starting about paragraph 173 -- mentions that
21 a wireless device -- so that's kind of in the context of
22 just establishing that what the base station receives
23 is -- is from -- is via the wireless network and that
24 peripheral device.

25 And then 174, where it specifically claims the --

1 at least one peripheral device, that specifically points
2 to the wireless device 1. And it also -- there's a figure
3 from Uchida that ultimately is referenced.

4 Q Which figure is that?

5 A Figure 2 -- sorry. It's shown in figure 1,
6 wireless device 1. It's also shown in figure 2A, 2B, 2C,
7 and then a blown-up version of it in figure 3. And it was
8 my conclusion that that's a peripheral device. It's a USB
9 device. So based on the plain and ordinary meaning as to
10 what a peripheral device is, that would be an example of a
11 peripheral device.

12 Q So are all USB devices peripheral devices?

13 A Hard to say. I don't have in mind all possible
14 USB devices, but certainly this one, both in the context
15 of how it's described in Uchida, a person of skill in the
16 art would understand that to be a peripheral device.

17 Q And so in paragraph 174, you say, "Uchida
18 discloses that after the pairing process is completed,
19 wireless device 1, e.g. the peripheral device, is
20 configured to communicate image data" -- sentence goes on.

21 Do you see that?

22 A Yes.

23 Q What do you mean "e.g. the peripheral device"?

24 A That that's an example of what a peripheral
25 device would be in the context of Uchida.

1 Q And so what about wireless device 1 suggests that
2 it is -- it is an example of a peripheral device?

3 A Everything that Uchida says about the wireless
4 device. What it is, the fact that it's UCSB [sic], the
5 way that it looks, the way that it operates, the fact that
6 it plugs into a computer, its role, the fact that this is
7 a thing that performs or has all of the requirements of
8 the peripheral device in the context of Claim 1, at least
9 of the '951 patent.

10 Q Do you have Grimshaw in front of you? It's
11 Exhibit 1008.

12 A I do.

13 Q So if you look at the cover of Grimshaw, you see
14 a laptop with a mouse next to it?

15 A I do. I see that.

16 Q Is that mouse a peripheral device?

17 A In a general sense, it would be a peripheral
18 device. And I say "general sense" because it's not the
19 claimed peripheral device. I don't think it would perform
20 all of the requirements of a peripheral device in the
21 context of, for example, Claim 1 of the '951 patent.

22 Q In that same figure, do you see user module 14,
23 16, 18, or 20?

24 A I do.

25 Q Is that a peripheral device?

1 A I don't recall if I said that it was or not. So
2 first exercise would be to see if I said that it was or
3 not.

4 So there's a sentence in paragraph 164, Grimshaw
5 describes user modules that couple to laptop computers to
6 allow transmission to a common display and is thus
7 analogous to the arrangement in Uchida. So I think I've
8 at least offered the opinion that those components are
9 analogous at least in structure. But I don't think I've
10 gone so far as to do an analysis that those components
11 meet all of the requirements of, for example, Claim 1 of
12 the '951 patent with respect to what the peripheral device
13 has to do.

14 So unless there's some later section, like
15 paragraph 165, that specifically says that they are
16 peripherals, then I'm largely relying on the functionality
17 in Uchida as meeting the requirements of the claim with
18 respect to what the peripheral device has to do.

19 So let me look at 165 to see if anywhere I say
20 this is also a peripheral device.

21 Yeah. I don't think I've done the analysis where
22 I've attempted to map 14, 16, 18, or 20 of Grimshaw to the
23 peripheral device. As I mentioned in 164, I said that it
24 was an analogous structure. But since I'm primarily
25 relying on the wireless module 1 of Uchida, I've noted the

1 similarities and then looked at some of the functionality
2 of Grimshaw as being obvious to combine into that wireless
3 device of Uchida.

4 Q In that answer, you referred to peripheral
5 devices as well as -- I think you used "peripherals."

6 Is there a difference, in your mind, as far as
7 how a person of ordinary skill in the art would interpret
8 "peripherals" versus "peripheral devices"?

9 A In that answer, I was using them synonymously.
10 To be accurate, I should have used peripheral device.
11 Beyond that answer, it shouldn't be interpreted as
12 attempting to suggest that those terms would be synonymous
13 from a claim construction perspective.

14 (Stenographer clarification.)

15 BY MR. HALVERSON:

16 Q So you also said that you're largely relying on
17 the functionality in Uchida as meeting the requirements of
18 the claim with respect to what the peripheral device has
19 to do. And it's my understanding that what you have
20 mapped, as far as the obviousness challenge to the claims
21 of the '951 as it relates to Ground 2 for the peripheral
22 device, is just Uchida.

23 A If you look at the motivation to combine section,
24 starting at about 163, it identifies the functionality of
25 Grimshaw that I think would be obvious to combine into the

1 peripheral device of Uchida.

2 Q And so if we look at paragraph 172, your first
3 sentence says, "Uchida discloses this limitation"; right?

4 A Yes.

5 Q And if you look at paragraph 174, first sentence
6 says, "Uchida discloses this limitation, as just
7 discussed"; right?

8 A I see that.

9 Q 176 and 177 both begin "Uchida disclose" -- well,
10 let me try that again.

11 176 begins "Uchida discloses this limitation";
12 right?

13 A It does -- it does say that.

14 Q And 177 begins "Uchida disclosed this
15 limitation"; right?

16 A It does say that.

17 Q 179 begins "Uchida discloses this limitation";
18 right?

19 A It does say that.

20 Q And then when we get to 180, you say, "though
21 Uchida alone or in combination with Grimshaw discloses
22 and/or suggests this limitation"; right?

23 A That's what it says.

24 Q And so is there any teaching of Grimshaw that you
25 rely on that I have missed in sections A through H, which

1 span paragraphs 170 through 179, as it relates to your
2 opinions in your declaration?

3 A Not if you limit the question to just those
4 paragraphs. But I want to be clear that the motivation to
5 combine section also does a mapping that identifies
6 parallelism between the components of Uchida and Grimshaw.
7 And while I'm relying principally on Uchida to show that
8 those limitations are disclosed or taught, Grimshaw is a
9 parallel reference in the sense that it has components
10 that are similar to what are disclosed in Uchida. And
11 that goes to the motivation to combine the particular
12 function of Grimshaw that I'm relying on for 1F and 9F.

13 So the point would be they're not wholly distinct
14 systems until you get to the portion that I've combined.
15 The point is they're very similar systems. They have
16 overlapping functions, but with respect to the obviousness
17 ground, it's all mostly in Uchida. And then I'm relying
18 on one specific aspect from Grimshaw in -- and that comes
19 in in 1F and 9F.

20 Q Okay. You still have Uchida?

21 A Yes, sir.

22 Q Is remote control 2 a peripheral device?

23 A It's unclear from your question if you're asking
24 whether it meets requirements of a peripheral device or
25 it's some kind of peripheral device in the abstract.

1 Q So you've used the plain and ordinary meaning for
2 the term "peripheral device" in the context of this
3 proceeding; right?

4 A Yes.

5 Q And so using that plain and ordinary meaning of
6 peripheral device, is remote control 2 a peripheral
7 device?

8 A So in my analysis, I've really focused on the
9 requirements of the peripheral device as they're expressed
10 in the claim. So I've looked at all of the requirements
11 of the claim. That's been the analysis that I've
12 performed. I haven't tried to separate out those
13 requirements and deal with limitations piecemeal.

14 So from that perspective, first of all, I don't
15 believe I've offered an opinion that the remote control is
16 a peripheral device under some plain and ordinary meaning
17 of that term, divorced from the requirements of the claim,
18 or it's what I focused on in the declaration.

19 So, ultimately, I'd have to give that some
20 thought with respect to whether it would meet the
21 requirements of the claim or not.

22 Q You've not done that analysis as part of your
23 exercise thus far?

24 A I -- I don't recall that I've pointed to the
25 remote control as the peripheral device in the

1 combination. If I'm misremembering the declaration, I
2 would defer to that, but that's my recollection.

3 Q What does the remote control in Uchida do?

4 A I don't have that detail memorized. So I can
5 certainly thumb through Uchida and find something to read,
6 if you would like.

7 Q It's a relatively long reference. You're
8 certainly welcome to. I don't know that you get into the
9 remote control in your declaration. But if helpful, your
10 Uchida overview begins on page 54.

11 A I think your characterization of the declaration
12 is correct that I don't get into a lot of detail about the
13 remote control. So if you're asking beyond the scope of
14 the declaration what functionality Uchida ascribes to the
15 remote control, I can -- I'd have to go look for it. So I
16 can either do that, or I can just defer to what Uchida
17 says.

18 Q Paragraph 91 of your declaration.

19 A Okay.

20 Q Paragraph 91 describes a little bit about Uchida.
21 The first sentence says, "Notably, Uchida's wireless
22 device includes an image transfer stop switch 140, even
23 though the system includes a remote control device 2 that
24 remotely controls the operation of the image projection
25 device, including stopping image projection."

1 And you cite to paragraph 115 of Uchida there.

2 Do you see that?

3 A I do.

4 Q Why does Uchida describe both of those?

5 A So a person of skill in the art reading this, I
6 think -- and given the timeframe in the state of the
7 art -- would understand that there are multiple reasons to
8 have a start-stop device. One of the examples would be
9 for purposes of giving local control to the different
10 entities or users of the system. So a start-stop switch
11 on the peripheral device itself would give more control to
12 the user. A start-stop device on a remote for the
13 projector would give some additional control to the
14 operator of the projector.

15 And so I can think of scenarios, say, in a
16 classroom setting or a meeting setting where a user would
17 want to ensure that their screen would not be projected.
18 Say they're surfing ESPN and they don't want to be called
19 out for that. So they would use the on/off switch on
20 their peripheral device to set it to off to ensure that
21 their screen couldn't be displayed. And then from the
22 projector perspective, that person would have their own
23 motivations.

24 So it's pretty much the way cameras work also, in
25 the sense that sometimes you have software controls of the

1 camera but you can also physically slide a cover over the
2 camera to just doubly ensure that somebody can't hack into
3 your computer and turn on your camera.

4 So in these kinds of systems, it was understood
5 to have multiple fail-safes for either allowing images or
6 stopping images from being projected. Person of skill in
7 the art would have understood those design considerations,
8 the trade-offs.

9 And Uchida supports that understanding by having
10 not only a transfer stop switch on the peripheral device
11 itself but also having one of those kinds of switches
12 available for the operator of the projector.

13 Q Would you --

14 A There's also -- sorry.

15 Q Go ahead.

16 A There's also the motivation that's described in
17 paragraph 91 with respect to using it as a way of
18 determining who would project in this -- in this sense
19 where there are multiple peripheral devices connected to a
20 projector.

21 Q Does Uchida describe an embodiment where there
22 are multiple -- sorry. Let me start over.

23 When you use peripheral devices there, you're
24 referring to component number 1 in Uchida's figures 1, 2,
25 and 3 --

1 A I --

2 Q -- right?

3 A -- am.

4 Q And so are there embodiments in Uchida that
5 describe multiple instances of wireless device 1 being
6 paired to a single projector 3?

7 A That is my recollection. And I thought there was
8 a specific sentence from Uchida referenced in
9 paragraph 163 (indicating).

10 Q Are you pointing to paragraph 163 of your
11 declaration or paragraph 163 of Uchida?

12 A My declaration. And it references paragraphs
13 122, 186, and also 12. Let me make sure that those are --

14 Q And it looks like it may also reference 112, 58,
15 and 36 and 37?

16 A That's probably the better -- yes. And that's --

17 Q Not sure how that quote fits into it.

18 But -- so what -- what aspect of Uchida do you
19 believe supports the understanding that Uchida disc- --
20 discusses a scenario where multiple users are connected to
21 the same display or projector?

22 A So this is paragraph 63. Says, "Furthermore,
23 according to the invention described in Claim 11, the
24 number of times the same wireless setting information can
25 be written to a device can be set so that it becomes

1 possible to transmit image data from multiple computer
2 devices to an image projection device, making it possible
3 to provide an appropriate image projection system for a
4 conference."

5 So it's got multiple computer devices, and that
6 would include the wireless device 1 in each of those
7 computer devices 4. So you would have multiple peripheral
8 devices being able to transmit data to a projector.

9 Q Sorry. I don't see any of that in paragraph 63.
10 What are you looking at?

11 A 36.

12 Q Ah. That's why.

13 A And that's the first paragraph cited in my
14 declaration, paragraph 163. It's also the portion that's
15 quoted after the cite to 36, 37, 58, and 112 in my
16 declaration.

17 Q And you've left off the beginning of that clause,
18 the number of times when you quoted that in your
19 declaration; right?

20 A I -- I do start the quote with "the same wireless
21 setting information can be written to multiple wireless
22 devices 1." That's obviously not the full paragraph.

23 Q And so if you look at Claim 11, which is what
24 paragraph 36 of Uchida is referring to, that's describing
25 a limitation on how many different times wireless setting

1 information can be written to something and then
2 describing what happens when the number of rights exceeds
3 that preprogrammed number of rights; is that right? And
4 paragraph -- or excuse me. Claim 11 appears on page 3 of
5 Uchida.

6 A I see Claim 11. It says what it says. I -- I
7 don't think there is any consideration in Claim 11 that
8 would suggest to a person of skill in the art that Uchida
9 did not contemplate multiple computer devices with
10 multiple wireless devices as being something taught by
11 Uchida.

12 Q What is the device in Claim 11?

13 I guess, precursor question: Do you see the
14 phrase "the device" in Claim 11?

15 A I do.

16 Q And so what is that, "the device"?

17 A It may refer to the remote control device. I'd
18 have to look. I'm not 100 percent sure. I'd have to look
19 at it a little more closely. I don't have an answer that
20 immediately comes to mind.

21 And, again, it doesn't really matter which device
22 it is since, regardless, even in these paragraphs and
23 setting aside the rest of the citations, it contemplates
24 multiple computer devices and multiple wireless devices.

25 Q And does it contemplate that at the same time?

1 A Absolutely.

2 Q And so if you look at figure 2 -- and feel free
3 to look at both figure 2 and Claim 8 -- the connection
4 information that wireless device 1 uses is provided to
5 wireless device 1 from remote control 2; is that right?

6 A Sorry. Where are you? I'm not sure where you're
7 reading from to get that characterization.

8 Q Claim 8 and then figure 2. Specifically, about
9 halfway through Claim 8, it says, "a wireless
10 communication unit that communicates with a wireless unit
11 of the image projection device using settings based on the
12 wireless setting information written from the remote
13 control device when the connector is connected to the
14 computer device. And a program storage unit that stores a
15 program that causes the computer device to function as an
16 image transition" -- and then it goes on -- transmission
17 -- excuse me.

18 A Okay. And so your question is -- I'm not sure
19 what your question is.

20 Q The connection information that wireless device 1
21 uses is provided to wireless device 1 from remote
22 control 2; is that right?

23 A In Claim 8 that's what it looks like it's
24 specifically claiming.

25 Q And, in fact, in Claim 1, it's the remote control

1 device that has wireless setting information; is that
2 right?

3 A Yes, for Claim 1, it says, "The remote control
4 device has a wireless setting information-generating means
5 for generating wireless setting information."

6 So that would be an aspect of the invention, as
7 described in Claim 1.

8 Q And then, in fact, that clause of -- or that
9 claim element goes on to say, "required for wireless
10 communication between the image protection device and the
11 computer device"; right?

12 A That is the requirement of Claim 1. That's part
13 of -- or part of the rest of the requirement of Claim 1.

14 Q And so that wireless setting information that the
15 wireless device 1 uses comes from the remote control
16 device; is that right?

17 A In that aspect of the invention as it's claimed
18 in Claim 1.

19 Q Are you aware of any other embodiments in Uchida
20 describing a different origin for wireless setting
21 information?

22 A I have not specifically looked. My recollection
23 is that where the information comes from to set up the
24 wireless network is not a requirement of the claims of the
25 '951 patent. So how Uchida accomplishes it or how a

1 person of skill in the art would understand that it could
2 be set is not relevant to an aspect of the claim language
3 of the '951 patent.

4 Q Do you have figure 3 in front of you of Uchida
5 still?

6 A I can get it.

7 Q And like the PCTs, they do it backwards with the
8 figures in the back.

9 A Got it.

10 Q What is slider 140 or switch 140? And
11 paragraph 71 may be helpful.

12 A Yes. It's the image transfer stop switch, and it
13 goes on in a fairly lengthy paragraph.

14 Q And so image transfer stop switch is part of what
15 you have identified as the peripheral of Uchida; right?

16 A It is. It's part of that wireless device 1
17 that's shown in figure 3, which is what I've identified as
18 meeting the requirements of the peripheral device.

19 Q And what I'm not sure that I fully understand
20 from your declaration is: Are you contending that that
21 image transfer stop switch teaches the triggering element
22 of claim element 1F or 9F?

23 A As paragraph 180 says, "Uchida alone would
24 disclose to this limitation." So the answer would be F --
25 would be yes. And to be clear, there's really two parts

1 of this. There's the input device in its configuration
2 that -- well, there's probably three parts or at least
3 three parts. There's the configuration piece, the
4 carrying out of a user action, and then the triggering of
5 the transfer. So it's important to understand the
6 distinction between triggering as being the button action
7 itself versus the button causing the triggering action to
8 take place.

9 Q And so what is the triggering of the transfer, as
10 you used that phrase in your last answer? What does that
11 mean?

12 A The claim language says, "It triggers the
13 transfer of said user-selected arbitrary media content
14 from the transmitter to the wireless communications
15 network and to the base node through the wireless
16 communication network for display on the first display."
17 And then that input device being a physical actuator.

18 Q And so what aspect of the image transfer stop
19 switch 140 are you saying meets the triggering of the
20 transfer element of that claim?

21 A That is an illuminating question because it's not
22 the button itself that is the triggering of the transfer.
23 It's the button -- the switch itself that allows the user
24 to carry out a user action on the input device. That
25 triggers the transfer of said user-selected arbitrary

1 media content. So you have the button, and the fact that
2 it can be selected or activated, it's a physical actuator,
3 and then that triggers the transfer. So the process is,
4 once that button is -- is activated, once the switch is
5 activated, then that triggers the transfer. And that is
6 when you have the switch going from the off position to
7 the on position. And then the process of that happening
8 is referred to in Uchida in paragraph 70 through 72, which
9 I think are included on pages 139 and 140 of my
10 declaration.

11 Q So it's not the process of flipping that switch
12 from one side to the other that you think meets the
13 triggering of the transfer claim element; it's some other
14 aspect?

15 A I'm not sure what that question means. But what
16 I can say is it says that you have to have an input device
17 configured to allow the user to carry out a user action on
18 the input device. So that is being able to move to
19 actuate the switch from the off position to the on
20 position. That action triggers the transfer of said
21 user-selected arbitrary media content.

22 And so what Uchida describes is once the user has
23 moved it from the off position to the on position, the set
24 of steps that Uchida's system is configured to perform
25 ultimately resulting in an image being displayed by the

1 projector.

2 Q All right. So now I'm a little confused.
3 Because, in your last answer, you disagreed with your
4 previous answer. And so the answer two questions ago was
5 "That is an illuminating question because it's not the
6 action itself that is the triggering of the transfer."
7 And then when I asked whether or not that was what you
8 meant, you said, "I'm not sure what that question means,"
9 and then you gave a longer response to that.

10 And so what I'm trying to figure out is, two
11 answers ago, when you said "that is an illuminating
12 question because it's not the action itself that is the
13 triggering of the transfer," what did you mean?

14 A What I'm saying is your question is attempting to
15 conflate the user action with the triggering. There is
16 the user action moving the switch from off to on.

17 Q Mm-hmm.

18 A That initiates the trigger. So there's the user
19 action. It's the device configured to allow the user to
20 carry out a user action. Okay. You've got wireless
21 device 1. It's got an on/off switch. When you move it
22 from off to on, that user action causes the triggering to
23 happen.

24 Q Okay. And so what is the triggering, then?

25 A The triggering is what's described in

1 paragraph 71 to 72 of Uchida, when the off -- and it's in
2 the off mode and it's moved to the on mode. I can read
3 those paragraphs into the record, if you want. But that
4 is the triggering process and how it operates.

5 Q Oh. So the beginning of paragraph 71 is the
6 action that you said is not the triggering; right?

7 A No.

8 Q Well, the first sentence of paragraph 71 says,
9 "The image transfer stop switch is a slide switch that
10 serves as an image transmission stop operation unit for
11 instructing the image production device 3 to stop
12 transmitting the image data."

13 And so that's the slide switch itself, and then
14 the sentence goes on to talk about how the changeover
15 switch that switches between on and off is how the
16 operation of that switch works; right?

17 A It's going to be what I've described. So I'll
18 say it again.

19 Q I don't need you to repeat the same thing, if
20 your --

21 MR. YANG: Just -- if you want him to answer the
22 question, let him.

23 THE WITNESS: It's the same process that I've
24 described. It's the user to carry out -- input device
25 configured to allow the user to carry out a user action.

1 That's the slide switch on the wireless device. When you
2 move it from the off to the on mode, then that triggers
3 the transfer of said user-selected arbitrary media. So
4 moving the switch is not the physical trigger itself.
5 It's the physical actuation of the button. It's the user
6 action. And then the result of that is when it moves to
7 the on mode, that triggers the transfer of said
8 user-selected arbitrary media content.

9 That's described starting at page 140 of the
10 declaration, when it says "when the image transfer stop
11 switch 140 is operated to the image stop on mode." It
12 goes on to describe what happens.

13 So that's the -- the result of the triggering --
14 that's the action of triggering the transfer of said
15 user-selected arbitrary media content.

16 BY MR. HALVERSON:

17 Q So is it your understanding that the claimed user
18 action is the trigger? Or is the claimed user action not
19 the trigger?

20 A The claimed user action is moving the switch from
21 the off to the on position. So -- and, again, the claim
22 language, "an input device configured to allow the user to
23 carry out a user action on the input device."

24 Q And so you've paused there, but there's no comma
25 there. And I'm wondering if, in your mind, the user

1 action has to trigger transfer of said user-selected
2 arbitrary media content, or if, in your mind, the input
3 device has to be configured to allow the user to carry out
4 a user action and then, separately, there is a trigger
5 that transfers user-selected arbitrary media content.

6 A Yeah. I'm not sure it's either of those choices.
7 The first one might be closer. It -- it requires a device
8 to be configured. How does the device have to be
9 configured? It has to be configured to allow the user to
10 carry out a user action.

11 Q Mm-hmm.

12 A It also requires a physical actuator. So that's
13 the switch. So you have a device that's configured with
14 the switch, and then when that switch is moved from the
15 off to the on mode or when it's activated, the -- it has
16 to be configured in at least one scenario where the
17 movement of that switch triggers the transfer of said
18 user-selected arbitrary media content.

19 So you have the user action that results in the
20 trigger. And it's important not to say that it's the
21 user -- the user action that is the trigger itself. The
22 user action -- the user carries out a user action, and
23 that causes the trigger -- that triggers the transfer.

24 Q There's a distinction you're drawing that I'm not
25 understanding. And let me -- let me ask the question

1 because I want to make sure that the -- the back-and-forth
2 is clear, but -- so you said you have a user action that
3 results in the trigger, and then you said it's important
4 not to say that the user action is the trigger action
5 itself.

6 And so are you saying that the user action is
7 step 1; there may be a step 2, and then there is a trigger
8 that occurs?

9 A I'm -- I'm not dividing it into steps.

10 Q And I guess, is it your understanding, then, that
11 the action of moving the switch from one position to
12 another position causes the transfer of selected arbitrary
13 media content from the transmitter?

14 A The claim says "trigger." I think it does
15 trigger it. Substituting the word "causes" for the word
16 "trigger," I think it causes it -- it's a required step.
17 But for the movement of off to on, that arbitrary media
18 content is not transferred.

19 Q And is there a difference between trigger and
20 causes?

21 MR. YANG: Objection. Form.

22 THE WITNESS: I -- I'm -- I don't have a context
23 to answer that question.

24 BY MR. HALVERSON:

25 Q Well, you said that you were substituting the

1 word "causes" for the word "trigger." And so I'm
2 wondering what that did, in your mind, for the answer that
3 you gave.

4 MR. YANG: Objection to form, and it -- I --

5 THE WITNESS: So the "you" is you. You used the
6 word cause in your question. The claim says "trigger." I
7 think it triggers it. If somebody were to substitute the
8 word "cause" for "triggers," that changes the claim
9 language. Separately, that may also still be met by
10 Uchida. I think it probably would be -- likely would be.
11 But the opinion that matters in the context of the
12 declaration is the use of the word "triggers" because
13 that's in the claim language. And the claim language is
14 specifically to trigger the transfer. And that's what
15 happens when you go from off mode to on mode.

16 BY MR. HALVERSON:

17 Q And so when that switch is in off mode, is it
18 your understanding that no transmission is occurring?

19 A That question is a little broad. Like, no
20 transmission, you haven't been specific on what
21 transmissions between what devices and whether or not you
22 can have control or heartbeat messages.

23 Q I can put some context on it.

24 A There might be some communication, but I think
25 the teachings of Uchida are that the arbitrary media

1 content is not being transmitted when the wireless
2 device 1 is in the off mode.

3 Q And when you say "not being transmitted," which
4 two devices are you saying the arbitrary user content --
5 excuse me -- arbitrary media content is not traversing
6 between?

7 A So the -- the original question was transmitted.
8 Transmitted usually implies just the transmitter, not an
9 action of a receiver. Your later question kind of changed
10 that to include the involvement of both a transmitter and
11 some receiver. This is transfer of user-selected
12 arbitrary media content from the transmitter to the
13 wireless communication network and to the base station
14 node.

15 It's -- in Uchida, it would be from the computer
16 via that wireless device 1 to anywhere, including through
17 the wireless transmitter of the wireless device to the
18 wireless network, to the base station, to anywhere.

19 Q So when the image transfer stop switch 140 is in
20 the off position, it's your understanding that no media
21 content is leaving wireless device 11?

22 A Nothing that I've identified as the user-selected
23 arbitrary media content would be transmitted from the
24 wireless device.

25 MR. HALVERSON: Why don't we take a short break?

1 THE WITNESS: Okay.

2 THE STENOGRAPHER: Off the record at 10:13 a.m.

3 (Off the record.)

4 THE STENOGRAPHER: Back on the record at
5 10:27 a.m.

6 MR. HALVERSON: All right.

7 BY MR. HALVERSON:

8 Q And so, Dr. Almeroth, it's my understanding that
9 you have opined that the projector of Uchida meets the
10 base node limitations of the independent claims that are
11 challenged in this proceeding; is that right?

12 A I think that's right. Let me just confirm --
13 refresh my recollection. It's the projection device, but
14 it's specifically including the control unit and the
15 wireless unit. So it's -- it's an aspect of that
16 projection device that's the base node.

17 Q And the control unit and the wireless unit are
18 the -- you said wireless unit; right? -- not wireless
19 device?

20 A Wireless unit 306.

21 Q Okay.

22 A Paragraph 172 of my declaration, Exhibit 1002.

23 Q And control unit 303?

24 A Correct.

25 Q Okay. And it's my understanding that you are not

1 relying on a base unit from Grimshaw; is that correct?

2 A For "what of the combination meets the base
3 node," I'm relying on what's disclosed in Uchida. But as
4 the motivation to combine shows, and similar to what I
5 answered before, there's also a base node in a projector
6 in Grimshaw to demonstrate kind of the parallel components
7 within Grimshaw.

8 Q And what is the base node of Grimshaw?

9 A Again, I don't think I've pointed to something in
10 Grimshaw that is specifically the base node. I've said,
11 in the motivation to combine, that there are corresponding
12 components that are similar to what is in Uchida. But
13 it's ultimately what's in Uchida that I'm relying on as
14 supporting the disclosures in the combination.

15 Q Okay. And just so that the record is clear, you
16 said, "But as the motivation combined shows, and similar
17 to what I answered before, there's also a base node in a
18 projector in Grimshaw to demonstrate kind of the parallel
19 components within Grimshaw."

20 So what is the base node in a projector in
21 Grimshaw?

22 A So I don't -- if you're understanding my answer
23 correctly, that would not be a valid question. I'm not
24 pointing to something in Grimshaw that is specifically the
25 base node. There's corresponding elements of Grimshaw

1 from an architecture perspective, but I'm not pointing to
2 something specifically in Grimshaw as meeting the
3 requirements of a base node for purposes of what I'm
4 relying on in the combination.

5 Q What is that corresponding element in Grimshaw?

6 A My recollection is that Grimshaw also has a
7 projector, and there's an aspect of the projector in
8 Grimshaw that's able to receive wireless communication.
9 Let me see if I say more than what's in paragraph 164 of
10 my declaration. Because there's also references to
11 section 8D, which is the overview of Grimshaw on page 52,
12 still in my declaration.

13 Q I appreciate the clarity on the page numbers.

14 A Sure. Paragraph 79 of my declaration, there's
15 communication system that provides audio, video,
16 telephony, presentation, and/or annual conferencing
17 functions. Paragraph 80, you get from the laptop computer
18 to a module via the data port. And then there's a display
19 module that's shown in figure 1 of Grimshaw on page 54 of
20 the declaration. That display module is connected to the
21 communication system. The connection to the communication
22 system is the aspect that would have the wireless
23 component so that it would -- can communicate over a
24 wireless network to the laptop computer and the user
25 module.

1 So there are parallel components, as described in
2 Grimshaw, but I've not specifically mapped those
3 components to the requirements of the claims of the
4 '951 patent.

5 Q You said, "It can communicate over a wireless
6 network to the laptop computer."

7 What is the "it"?

8 A The display module. So that's paragraph 81. The
9 display module connected to the communications system.
10 And that communication system includes the user modules
11 with the wireless port that's connected to the laptop
12 computers, all of which are displayed in figure 1 of
13 Grimshaw.

14 So, ultimately, there's significant overlap
15 between the components of Grimshaw and Uchida. But as the
16 limitation-by-limitation walk-through describes, I'm
17 relying on the disclosures of Uchida specifically in the
18 combination. And I think you -- you pointed that out
19 earlier when each of the first sentences ref- -- refers to
20 the limitation being disclosed in Uchida.

21 Q Is control module 12 wirelessly or wiredly [sic]
22 connected to display module 22 in Grimshaw?

23 A I don't have that answer memorized or memorized
24 to the degree that I can give you an answer. I can try
25 and figure it out by reading through Grimshaw, if you'd

1 like. I just don't remember.

2 Q Yeah. I -- I can't tell. And figure 2 has a
3 series of dotted lines in it.

4 A Okay.

5 Q And then figure 3 has a series of straight
6 connected lines. And it's unclear to me, reading through
7 Grimshaw, whether or not this is a hardwired room system
8 or a wireless room system. And I was wondering if you had
9 an opinion on that.

10 A Given that paragraph --

11 Q Which paragraph?

12 A 80 of my declaration, at the end, references
13 Grimshaw at column 8, line 10 through 28. In
14 references -- sorry. It references the communication
15 system, and that's Exhibit 1012. That's not Grimshaw.
16 One second.

17 Okay. Paragraph 26 of Grimshaw.

18 Q Mm-hmm.

19 A Which is referenced in paragraph 80 of my
20 declaration in describing Grimshaw.

21 Q Mm-hmm.

22 A It describes the communication system, which is
23 the communication system that connects the display module
24 and then also the laptop computers and their communi- --
25 user modules, which would be analogous to the peripheral

1 devices at least in structure. And it shows that the data
2 connections 342, 352, 363, 362, 372 enable user
3 modules 14, 16, 18, and 20 to exchange data signals and
4 otherwise communicate with communication system 10,
5 communication system 10 being the thing that connects all
6 of this together.

7 The data connections 342 to 372 may include any
8 combination of power connections, computer display
9 connections, network connections, et cetera. These
10 connections can include any combination of wireless and/or
11 wired connections, including -- and then it lists a number
12 of types of connection types.

13 So that would teach that the communication system
14 of Grimshaw is fairly flexible in terms of being a
15 combination of wired and/or wireless. So it could be all
16 wired, all wireless, partially wireless, and partially
17 wired.

18 Q And so those connections 342 to 372 -- okay. I
19 got those numbers right -- hang on. Let me go back and
20 try again.

21 Yeah. So the connections 342 to 372 are
22 referring to a series of devices that are identified
23 within communications system 10; is that right?

24 A They are part of communications system 10.

25 Q But if you look at, for example, paragraph 34 of

1 Grimshaw, 346 to 376 are indicators, and 344 to 364 are
2 buttons.

3 And so how are -- how is a button a data
4 connection?

5 A Oh, I'm -- you'll have to point me to the portion
6 of Grimshaw that says 342 is a button.

7 Q I don't think 342 is a button. But where it says
8 "the data connections 342 through 372," is it your
9 understanding that all of the elements between 342 and 372
10 are data connections? Or is it your understanding, then,
11 that 342 through 372 are referring just to 342, 352, 362,
12 and 372?

13 A So in paragraph 26, where it says "the data
14 connections 342 to 372," that should just be referring to
15 342, 352, 362, and 372.

16 Q And so when we look at figure 3, those four
17 connections go from the user modules -- the four user
18 modules in the bottom left of figure 3 to the control
19 module 12, which is the big box in the middle; is that
20 right?

21 A There is a control module 12 in the middle or on
22 the right side of figure 3.

23 Q And the connections between control module 12 and
24 user module 14, 16, 18, and 20 are 342, 352, 362, and 372,
25 respectively; correct?

1 A Those are the data connections.

2 Q And then in addition to that, there are power
3 connections; is that what you're --

4 A I think there's also power. I think power
5 doesn't have to connect to 12.

6 Q And so all of this was predicated by my question
7 of how is control unit 12 connected to display module 22,
8 and you said it could be wireless. And you identified
9 that passage that we were just looking at in paragraph --
10 wherever it went --

11 A 26.

12 Q -- 26, but that passage in paragraph 26 is only
13 referring to the connections between the display modules
14 and the control module; right?

15 A No. So one -- one thing you've missed is, in 26,
16 there's also a reference to the communication system 10.

17 Q Mm-hmm.

18 A So 10 includes both into control module 12 and
19 out of control module 12.

20 Q So you're then referring to in figure 3 --

21 A There's a --

22 Q -- the two lines that go out of element 12 into
23 element 330 as part of the wireless signals that you have
24 identified in paragraph 26; is that right?

25 A Not quite. So I -- I appreciate your

1 characterization that 26 includes discussion of the data
2 connections between the user modules and the control
3 module.

4 My point is it references communication system 10
5 with reference to communication system 10, and at least
6 the communication -- or the data connections from the user
7 modules to the control module are described as being wired
8 and/or wireless.

9 This is all in the context of -- I think,
10 consistent with your statement earlier -- Uchida -- or
11 sorry -- Grimshaw doesn't limit the kinds of connections
12 between the modules in the communication system to being
13 wired or wireless. Where it does identify aspects of that
14 communication system, it identifies them as being wired
15 and/or wireless and having that flexibility.

16 So a person of skill in the art reading this,
17 both, I think, consistent with your characterization,
18 wouldn't see a limitation that it would all have to be
19 wired or that, from control module 12 to 330 to 22, would
20 need to be wired. And, certainly, a person of skill in
21 the art reading this would understand that using
22 conventional technology, any of this could be done with
23 wired or wireless communication, consistent with teachings
24 about that system that show up in paragraph 26, as an
25 example.

1 Q What's element 22 in figure 3?

2 A Display module 22.

3 Q What's element 330 in figure 3?

4 A You can probably search through it and find it
5 faster.

6 Q If you look at paragraph 16.

7 A Converter 330.

8 Q And if you look at the end of paragraph 16.

9 A Right. That's where I'm looking. Converter 330
10 may be a Cat5 to HDMI converter. This is one embodiment,
11 as other converter types may be used instead.

12 Q Is HDMI wired or wireless?

13 A It can actually be either. HDMI usually refers
14 to the plug itself. But, certainly, you can send HDMI
15 over wireless. Regardless of whether you can or can't, it
16 says it's only one embodiment, as other converter types
17 may be used instead.

18 A person of skill in the art would understand one
19 of those aspects could be wireless as well as wired. Both
20 were equally common in -- in going from some sort of
21 control device to an on-screen projector.

22 Q What is Cat5?

23 A Category 5 cable.

24 Q Is that a wired or wireless communication medium?

25 A It's wired.

1 Q Are there any wireless converters described in
2 Grimshaw?

3 A I said, this is only one embodiment, as other
4 converter types may be used, it says. And a person of
5 skill in the art would understand that that could also be
6 done wirelessly. And as I said, connecting projectors to
7 processing devices, base stations, something that would
8 provide input to a display, like a TV, as shown in
9 figure 1, it was conventionally done wired and wireless.
10 Both were -- were well known and pretty common.

11 So when it says this is the only embodiment, a
12 person of skill in the art would understand that covers
13 the range of conventional techniques that would be used,
14 including wired and wireless.

15 Q What is user-selected arbitrary content?

16 A I think there's something in the declaration
17 about that term. Let's see...

18 Q And in the interest of full disclosure, let me
19 ask it again because I missed a word.

20 What is user-selected arbitrary media content?

21 A So this comes from the '951 patent at column 11,
22 43 through 50. It's in my declaration at paragraph 65.
23 You've added the term "user-selected arbitrary media
24 content."

25 Arbitrary media content refers to the fact that a

1 user may generate, create, or select any media content.

2 So user-selected arbitrary media content would limit that
3 to user-selected arbitrary media content.

4 Q What is "media content"?

5 A So breaking that term further, I haven't tried to
6 give it some plain and ordinary meaning, but, typically,
7 media content would involve things like audio or video or
8 images or data displayed on the screen, if it follows the
9 rest of the requirements of what the claim is requiring.

10 Q I think you used same level of skill in the art
11 in this declaration as you did in the '002 declaration
12 that we discussed yesterday; is that right?

13 A That is my recollection.

14 Q I think you used it in the next two as well; is
15 that right?

16 A The next two being the next two IPRs that I filed
17 declarations on, the answer --

18 Q Yes.

19 A -- would be yes.

20 Q So the same answer that we went through yesterday
21 would apply?

22 A They would. And will apply later.

23 Q I've got to ask that tomorrow.

24 We spent some time discussing plug and play
25 yesterday also. Do you recall that?

1 A Yes.

2 Q Has any of your opinions about plug and play
3 changed between yesterday and today?

4 A No.

5 Q Okay. Spent a fair amount of time yesterday
6 talking about drivers, preinstalled generic drivers.

7 Do you recall that?

8 A I do.

9 Q Have any of your opinions about those changed
10 between yesterday and today?

11 A No.

12 Q You have a claim construction section in your
13 declaration that ends at approximately page 46.

14 A Yes.

15 Q How did you interpret any term that is not
16 identified in this section?

17 A Plain and ordinary meaning in the context of the
18 claims and in light of the specification, as understood by
19 a person of skill in the art around September 14, 2011,
20 and the prosecution history. Kind of what paragraph 62
21 and 63 say -- of my declaration.

22 (Stenographer clarification.)

23 BY MR. HALVERSON:

24 Q Have you offered opinions in the past about
25 design choice in the context of obviousness analysis?

1 A Yes.

2 Q What's your understanding of design choice?

3 A Generally, design choice is kind of one of the
4 criteria a person can use in considering whether or not
5 something would be obvious. There -- goes in line with
6 design choice, something that a person of skill in the art
7 would have familiarity with, would understand the
8 advantages and disadvantages, the pros and cons, and would
9 be able to implement the different design choices into a
10 combination using the knowledge and experience of a person
11 of skill in the art and where the inclusion of the
12 particular -- the design choice would have a predictable
13 outcome to a person of skill in the art.

14 These are kind of some of the concepts that are
15 rooted in -- in the KSR case, something that the Supreme
16 Court identified as factors in considering whether or not
17 a combination would be obvious or whether or not claims
18 would be obvious -- sorry -- whether or not a combination
19 would render claims obvious.

20 Q You still have Uchida in front of you?

21 A Yes.

22 Q What, if anything, is coming out of projector 3
23 when the switch 140 is in the off position?

24 A I don't recall Uchida providing some specific
25 description of what would be coming out of the projector.

1 And I think, by coming out of the projector, you're
2 focused on the display side of the projector, as opposed
3 to some sort of wireless transmission -- wireless data
4 transmission over the network.

5 Q That's correct. So, for example, if you look at
6 figure 1 of Uchida, we see -- or it's also on your
7 paragraph 162. But we see what appears to be wireless
8 signals coming into the projector from remote 2 and
9 wireless device 1. And when I say "coming out," I mean
10 what would be displayed then on -- in the screen to the
11 right side of the projector.

12 Does that --

13 A I --

14 Q -- change anything in your answer?

15 A Okay. No. I don't recall Uchida putting any
16 sort of constraint on what would be displayed on the
17 screen in that scenario. So I think it would be up to a
18 person of skill in the art to understand the various
19 options, whether a blank screen is displayed or sometimes,
20 when you turn on a projector, it shows the manufacturers
21 or some sort of screen like that or whether or not the
22 screen would be blanked, meaning the -- the bulb would not
23 be illuminated and it wouldn't show anything. I think
24 that's at least described as an option if -- depending on
25 the setting on the remote itself.

1 Q Can you go -- can you go to paragraph 167 of your
2 declaration in this proceeding?

3 A I'm there.

4 Q The first sentence is long and has a handful of
5 clauses. But -- I don't want to read it. You're --
6 you're welcome to. But I want to ask a couple questions
7 about the second sentence where you say, "such a
8 modification would have been desirable."

9 Do you see that?

10 A Yes.

11 Q And so the scenario that you're addressing here
12 where multiple users wish to take over control of a shared
13 display to present image data from their computer, you're
14 referring to presenting image data from their computer to
15 the rest of the group; right? That's what you mean by
16 that "i.e."?

17 A The "i.e. share their screen with the group"
18 would be based on having it projected via the projector
19 onto the screen.

20 Q Like shown in Uchida?

21 A Like shown in Uchida, yes.

22 Q And so what I'm trying to wrap my head around is,
23 earlier today, we had a discussion about how it's your
24 opinion that Uchida teaches the triggering of the -- the
25 triggering -- the transfer of user-selected arbitrary

1 media content from the transmitter to the wireless
2 communication network; right?

3 A Yes.

4 Q And so what is it that you're relying on Grimshaw
5 for, then?

6 A So Grimshaw reinforces that concept, which is why
7 you get paragraph 182 as it relates to Claim 1 and 9.
8 Moreover, some of the dependent claims that are at issue
9 in this IPR goes specifically to what's described as --
10 let me find the claim.

11 To provide -- so Uchida provide -- sorry.
12 Grimshaw provides further support for the concept of then
13 having multiple participants and their ability to display
14 content individually to the extent the claim requires that
15 kind of specificity.

16 Q And is it your opinion that the claim requires
17 that kind of specificity?

18 A As we saw in limitations 1F and 9F, I believe
19 Uchida alone discloses the requirements of the claim. And
20 you asked questions earlier about whether or not it
21 includes multiple devices and then wireless come --
22 devices, and I said it did, and we went through the
23 passages in Uchida.

24 I think, there, Grimshaw is useful in
25 establishing the understanding a person of skill in the

1 art would have had about those kinds of disclosures from
2 Uchida, and that -- that description is what part of the
3 motivation to combine deals with. And that's some of the
4 paragraphs we were talking about earlier, starting in my
5 declaration, paragraph 161 through 168.

6 Q And those all appear in the section titled
7 "Rationale to Modify Uchida System"; right?

8 A Correct.

9 Q And so what modification are you proposing to
10 Uchida's system?

11 A Really, the modification is to provide additional
12 details about the way in which the use of the on/off modes
13 in Uchida could be implemented in an environment where
14 there are multiple user devices, multiple computers.
15 There aren't specific limitations in the '951 patent about
16 how that's to be carried out. But Uchida provides
17 support -- or sorry -- Grimshaw provides support to a
18 person of skill in the art wishing to understand further
19 details about how that coordination could take place,
20 which is ultimately why it's -- Uchida alone is sufficient
21 to meet all the requirements at least -- of at least the
22 '951 claims at issue.

23 Q So when you say "the modification to provide
24 additional details about the way in which the on/off modes
25 in Uchida could be implemented," what are those details?

1 A In the limitation-by-limitation walk-through, as
2 you noted earlier, it principally relies on Uchida. Then
3 when you get to things like 1F and 9F, it references
4 Grimshaw. Those are the additional details of Grimshaw
5 that I'm relying on as further support. And when you used
6 the "and" of "Uchida and Grimshaw," the aspects of
7 Grimshaw that a person of skill in the art would rely on.

8 Q So if we go look at 1F and 9F, which begin on
9 page 139 of your declaration in this proceeding, the only
10 time that Grimshaw is mentioned -- or the first time,
11 excuse me, is in paragraph 182; is that right?

12 A Yes --

13 Q And --

14 A -- I think that's right.

15 Q -- in paragraph 182, you are citing back to
16 section 9B1; is that right?

17 A Correct. Which then ties to paragraph 163 that I
18 mentioned earlier, which starts with "and although Uchida
19 contemplates multiple computers and wireless devices
20 similarly connected to the image protection device, Uchida
21 does not specifically address a scenario where multiple
22 users are vying for control over the display to project
23 images from their individual computers. Grimshaw
24 specifically addresses such a scenario and provides
25 suitable solutions."

1 So in this instance, Grimshaw provided the
2 additional details about how that scenario would be
3 handled, though, again, I don't think a -- handling that
4 scenario in a particular way is a limitation of the
5 '951 claims. But Grimshaw is there to describe how that
6 coordination could be implemented, therefore, filling out
7 the understanding a person of skill in the art would have
8 had about how that functionality would work in its own
9 system where there are multiple computers, any one of
10 which could project onto a screen.

11 Q And so is it your understanding that the claims
12 of the '951 patent that you are opining on in this
13 declaration require multiple computers vying for control
14 over a display?

15 A I don't think that's an explicit requirement of
16 the '951 claims. But to the extent it's argued that it
17 is, then this combination would certainly address that for
18 the reasons set forth in the declaration.

19 Q And so other than addressing a scenario that you
20 contend is not part of the claims explicitly, is there any
21 other reason why a person of ordinary skill in the art
22 would look at Grimshaw in this combination?

23 A Actually, I think there's a lot of reasons why a
24 person of skill in the art would look at Grimshaw beyond
25 the claims themselves. And those are all sort of set

1 forth in the declaration, and you asked questions about
2 those earlier. It goes to the -- the similar nature of
3 the architectures and what the components are and what
4 they do.

5 I think it -- it also goes to kind of what the
6 state of the art was for these kinds of systems. So it
7 would provide general context for knowledge a person of
8 skill in the art would have, in this case, made explicit
9 based on the combination and the motivation, as described
10 in Ground 2.

11 Q How would wireless device 1 obtain the network
12 configuration data -- sorry. Let me strike that. Let me
13 ask it a different way.

14 How would network device 1 obtain the wireless
15 setting information if not from remote 2, in Uchida?

16 A So a person of skill in the art reading Uchida
17 would understand you could get whatever configuration
18 information you needed via lots of different ways. You
19 could use a protocol like UPnP that we discussed
20 yesterday. It could be part of the application. At least
21 the basic configuration information to get onto the
22 wireless network, you could get through standard
23 protocols, like DHCP. There's mDNS. Multicast DNS, is
24 another option for UPnP. It could be statically
25 configured by a person. You could use another device, as

1 opposed to a remote. Any of those would have been
2 conventional ways in which a device could be configured.

3 Q Does Grimshaw describe any
4 nonfurniture-integrated communication systems?

5 A I don't have Grimshaw memorized. Whether or not
6 it's furniture-integrated, to use your term, or not, it's
7 not a requirement of the '951 claim. So I don't think I
8 specifically looked to determine if there were such
9 embodiments.

10 My sense is, based on the disclosures in
11 Grimshaw, a person of skill in the art would understand
12 that it's not limited to -- again, to use your term --
13 furniture-integrated embodiments. And, of course, there's
14 paragraph 44 of Grimshaw that expresses that there's some
15 flexibility in Grimshaw based on the understanding a
16 person of skill in the art would have, which would also
17 further support the idea that its technology is not
18 limited to furniture-integrated technology or components.

19 Q And what about 44 of Grimshaw are you relying on
20 for that?

21 A That the disclosures in Grimshaw are dis- -- are
22 intended to be open-ended. A little bit more of the
23 phrasing, and it says, "In their other verb forms, when
24 used in conjunction with a listing of one or more
25 components or other items are each to be construed as

1 open-ended," meaning that the listing is not to be
2 considered as excluding other additional components or
3 items.

4 Q And that's specifically in the context of the
5 quoted phrases in paragraph 44 and their other verb forms;
6 right?

7 A I don't think it's specific to paragraph 44. I
8 think it's describing the concept that the embodiments are
9 nonlimiting examples of what the invention would be
10 throughout the specification of Grimshaw.

11 Q So it's your opinion that the language of
12 paragraph 44 is intended to suggest that the disclosures
13 of Grimshaw are not limited to the description of Grimshaw
14 but rather are more open-ended than the examples provided
15 in Grimshaw?

16 A I think more specifically to your question, that
17 paragraph 44 would suggest that it -- the technology
18 described in Grimshaw would not be limited to the term you
19 used for furniture-integrated infrastructure. But even
20 beyond paragraph 44, a person of skill in the art would
21 have that understanding, again, based on commercial
22 systems that were very similar that weren't limited to
23 being embedded or integrated into furniture.

24 Q Are you aware of any disclosure of Grimshaw of
25 embodiment that is not integrated into a piece of

1 furniture?

2 A Hard question to answer. I don't think any
3 embodiment described in Grimshaw, to my recollection, is
4 limited to being embedded in -- in furniture. And, again,
5 if the embodiment describes it as being integrated into
6 furniture, it doesn't change my opinion with respect to
7 the claims. The claims of the '951 patent aren't limited
8 to non-embedded infrastructure.

9 (Stenographer clarification.)

10 MR. HALVERSON: Why don't we take another quick
11 break?

12 MR. YANG: Sure.

13 THE STENOGRAPHER: Off the record at 11:21 a.m.

14 (Off the record.)

15 THE STENOGRAPHER: Back on the record at
16 11:37 a.m.

17 BY MR. HALVERSON:

18 Q Okay. Couple of questions about some background
19 references in your declaration, Dr. Almeroth. If you
20 don't mind, go to paragraph 47 for me. Talking about
21 something called a Imation system --

22 A Yes.

23 Q -- is that right?

24 What is the Imation system?

25 A There's some references that go into a fair

1 amount of detail about what it was. But as the page 6 of
2 Exhibit 50 show -- 1050 shows, there's a USB dongle that
3 can be part of the base unit. You can take that out. You
4 can plug it into a computer. And that will be able to
5 communicate with a projector receiver, and then that can
6 ultimately be connected to a projector. So you'd have,
7 like, a PC, or you'd want to project the display. You'd
8 have a wireless dongle that would plug into that PC using
9 USB, and that would communicate with a projector through
10 this projector receiver and then on to the projector for
11 display on a screen.

12 Q I've handed you something that's been previously
13 marked as Exhibit 1050.

14 Do you see that?

15 A I do.

16 Q Is this the Imation system that you are referring
17 to in paragraphs 46 and 47 of your declaration?

18 A It's the user guide for the system.

19 Q So in paragraph 46, you say that one example was
20 sold by Imation from at least during 2008.

21 You see that?

22 A I do.

23 Q What does that mean?

24 A It was sold by Imation by no later than 2008.

25 Q How do you know that?

1 A Based on knowledge about Mac OS support dates,
2 when that was available; references to Norton Antivirus
3 2009. I think there was also a copyright date of 2008.
4 And so it was a user guide for a product that Imation
5 sold.

6 Q What is Imation?

7 A The name of the company.

8 Q And so this product includes a -- oh, I see.
9 Okay.

10 A Page 2 has what it includes.

11 Q Yeah. You're talking about the left side of
12 page 2?

13 A Yes.

14 Q And so paragraph 47, you say, "After only about
15 20 seconds, a start screen appears."

16 Do you see that?

17 A Yes. Bullet point 4.

18 Q I think that's where it is in Exhibit 1050. I
19 was looking at paragraph 47 of your declaration, but I
20 think they were saying the same thing.

21 A Yes.

22 Q And then next sentence says, "Since no other
23 installation steps were indicated, preinstalled generic
24 drivers and generic communication protocols of the
25 computer's operating system most likely allowed setup of

1 the USB transmitter dongle and communication between the
2 PC and dongle."

3 Do you see that?

4 A I do.

5 Q Is there a memory within the USB transmitter
6 dongle?

7 A There typically would be.

8 Q As of -- what did you say? 2008? Yeah. As of
9 2008, do you recall what size flash drives existed in the
10 USB dongle form?

11 A Not specifically. It would have been in the
12 range of at least tens and hundreds of megabytes.

13 Q And so how do you know that there is not an
14 installation process that occurred when the user plugged
15 the USB transmitter dongle into their machine, as
16 instructed in step 3 on page 2 of Exhibit 1050?

17 A So there certainly could be software involved in
18 that process. In fact, there would be some, given that it
19 discusses the autoinstall in the note at the bottom.

20 But the point in paragraph 47 is with respect to
21 drivers that would have been used. The fact that it's USB
22 based and the way that USB 2.0 operated, when you would
23 plug in a USB device, you would be using the USB protocol.
24 You'd be using the USB drivers in order to make that work.

25 I believe there is a discussion on which

1 operating systems are supported. And by 2008, Windows,
2 which is shown in some of the examples here, and Mac OS,
3 for the versions supported, which are all at the end, all
4 had USB drivers for the different interfaces or modes
5 installed as standard in part of the operating system. I
6 think that was first in Windows 98 or at least some in
7 Windows 9 -- definitely Windows 98.

8 So if you're going to plug in a USB device,
9 you're going to be using the USB drivers that are
10 installed on that device.

11 Q Did anything in Exhibit 1050 suggest that -- or
12 prohibit the use of a special purpose driver being
13 installed?

14 A It doesn't specifically say. But you would at
15 least have to use the USB drivers, and I think that is the
16 reason why I'm careful with language in paragraph 47. I
17 haven't specifically looked, but the whole point is you
18 had systems like this that used USB. If I had more
19 information on specifically what drivers it used, it could
20 have actually been a ground, at least based on the printed
21 publication of the user guide.

22 All I'm relying on it for is to establish what
23 the state of the art was, and it quite possibly and likely
24 would have used the USB drivers that were installed as
25 part of the operating system. So arguing whether it's --

1 it could use custom drivers or not, it's -- it's darn
2 close in terms of establishing what the state of the art
3 was for essentially very similar kinds of functionality.

4 Q Set this to the side. Go to paragraph 56 for me.
5 Are you there?

6 A Okay.

7 Q The last sentence of 56 describes automatically
8 launching software.

9 Does "automatically" mean without user
10 involvement or without user invention -- intervention?
11 Excuse me.

12 A So "automatically" depends on the context.
13 Usually, "automatically" refers to two things that require
14 some further understanding: The without portion, so,
15 typically, without human intervention or without something
16 happening; and then the second is according to some sort
17 of timeframe, that within some timeframe, like after
18 something was plugged in.

19 Just based on this sentence, I'm not sure how
20 that reference is specifically characterizing
21 "automatically" without looking at it in more detail.

22 Q We talked a little bit earlier today about the
23 remote of Uchida.

24 Do you remember that? Remote control device 2?

25 A Yes.

1 Q And we were discussing why there would be a
2 system that included multiple instances of ways to impact
3 the transmission of data from the wireless unit 1 of
4 Uchida to the projector -- projection device 3 of Uchida.
5 Do you recall that?

6 A I recall discussing that Uchida's remote control
7 also had a button on it.

8 Q And, in fact, Uchida's remote control has -- has
9 many buttons on it; right?

10 A It has more than one. Probably at least several.

11 Q If you look at figure -- where did it go? -- 4 --

12 A I see that.

13 Q -- how many buttons are there in Uchida's remote
14 control 2?

15 A If you count the numbers, one, two, three... it
16 shows 10.

17 Q And you would agree that a remote control of
18 Uchida is the source of the wireless network information
19 for wireless device 1; right?

20 A I -- I know you asked questions about that. I
21 think my answer at the time -- and it's the same now -- is
22 there were at least claims that identified as part of the
23 claim requirement the source of some of the configuration
24 information. But I -- I didn't have Uchida memorized to
25 the point that I would agree that it's the only way in

1 which configuration information can be provided.

2 And then later you asked the question if it was
3 the only way that that information could be provided, and
4 I said no and then gave you lots of examples of other ways
5 it could be done.

6 Q And were there any embodiments that you recall
7 reading in Uchida about those lots of examples of other
8 ways it could be done?

9 A I -- I don't have Uchida memorized. It's not my
10 understanding that the '951 claims require a specific way
11 of using or providing configuration information. To the
12 extent that is a distinction that the patent owner raises,
13 then I likely would look through Uchida to see either if
14 there's something explicit or whether or not the different
15 ways are something that would be obvious to a person of
16 skill in the art.

17 Q Have you read the institution decision in this
18 proceeding?

19 A I have.

20 Q Have you read the institution decision in all
21 four proceedings?

22 A Yes.

23 Q I suspect I know the answer, but do you agree
24 with them, disagree with them, or some mix of those?

25 A It would depend on the statements made in the

1 particular institution decision. My recollection for the
2 last two, there was no patent owner preliminary response.
3 So I don't recall the patent office saying anything in
4 those institution decisions that disagreed with opinions
5 I've offered.

6 The same is true with respect to the '002
7 institution decision. I think they largely agreed with
8 patent owner and with my opinions. I don't recall there
9 being anything in the '002.

10 In the '951, for Ground 1, they made statements
11 that seem to suggest that they wanted more information
12 about a particular aspect of Ono. And I think I have
13 opinions that would clarify my position to the point of
14 overcoming any confusion that they had with respect to
15 what Ono discloses versus what the claims require.

16 I don't recall they said anything about Ground 2.
17 With respect to Ground 3 in Ichieda, they raised a
18 question that, again, I think I can provide clarifying
19 information based on what's in the declaration and what's
20 in the Ichieda reference.

21 Q What clarifying information do you have about
22 Ono?

23 A So there, there was a question from the board
24 about -- and I don't want to put words in their mouth. I
25 don't have the institution decision. If you want me to

1 kind of read it verbatim, I can. But they seem to suggest
2 that in some instances, Ono disclosed that based on using
3 the remote or what's in Corbett, that actuating the button
4 would not result in a display of an image on the screen.
5 The answer would be, actually, Ono alone, in combination
6 with Corbett, also is specifically configured to allow the
7 user to carry out the user action on the input device.
8 And that would trigger the transfer of the media.

9 And one aspect there that I think is particularly
10 important is with respect to that process and how it's
11 described in Ono.

12 Q Are you on page 89 or back in the motivation to
13 combine section?

14 A I'm on page 92 of my declaration. And so the
15 point would be that Ono describes, once the button is
16 activated, not only the connection request but the trigger
17 leading to the connection request and the whole process
18 from S1 through to the image transfer.

19 So Ono is specifically configured to, based on
20 the button press, trigger the transfer of the arbitrary
21 media content from the transmitter to the wireless
22 communication network. And even if there are situations
23 where, say, the projector is turned off and it may not be
24 displayed on the screen, it's still configured to allow
25 the user to carry out the user action that would trigger

1 the transfer to take place.

2 Q If the projector is turned off, how is the
3 peripheral device transferring user-selected arbitrary
4 media content to the base node through the wireless
5 communication network?

6 A So two things. Whether the projector is turned
7 on or off doesn't change the configuration of the input
8 device in the peripheral device. It's still configured to
9 trigger the transfer of that information. It may not be
10 successful. And if this were a method claim, an instance
11 where the projector is turned off and where it's
12 understood to be a requirement of the claim, that it must
13 successfully be displayed in order for the -- the method
14 step to be met, that would at least be met when all of the
15 conditions arose, like the projector being turned on, the
16 network being configured properly, et cetera. But with
17 respect to how that input device is configured, it's
18 configured to do that transfer regardless of whether or
19 not the transfer successfully takes place or not.

20 So in the context of Claim 1, which is the
21 electronic meeting tool, that's how it's configured to
22 operate.

23 Q In Ono, what device creates the wireless
24 communication network?

25 MR. YANG: Do you need the -- the reference in

1 front of you, Doctor?

2 MR. HALVERSON: That's not an objection, Steve.

3 MR. YANG: No. I'm not --

4 MR. HALVERSON: Come on, man.

5 THE WITNESS: Not -- not yet.

6 MR. YANG: I did not think you were making this
7 into a memory test, but...

8 MR. HALVERSON: He's done this enough times that
9 if he needs it, he can ask for it.

10 MR. YANG: Okay. Well, I think he just did.

11 MR. HALVERSON: That's typical.

12 THE WITNESS: I actually don't need it yet.

13 MR. YANG: Well --

14 THE WITNESS: So --

15 MR. YANG: -- I stand corrected.

16 THE WITNESS: I'm not sure I understand the
17 question. The -- the creation of the wireless network
18 would be to have an access point that would advertise its
19 availability and then for the computer and the -- the Ono
20 peripheral device to connect to that network and then
21 similar for the base node. So there's the standard set of
22 steps you would have to go through to -- to be able to
23 configure the wireless network.

24 BY MR. HALVERSON:

25 Q How many devices does it take to have a wireless

1 network?

2 A That is not a question that I needed to answer in
3 the context of this declaration, and it depends.

4 Sometimes you have very specific references in terms of
5 their definitions as to what a wireless network would be,
6 and it almost becomes philosophical.

7 In the context of what this claim would require,
8 you'd have the wireless network, you'd have the peripheral
9 device communicating with that wireless communication
10 network, and you'd have the base node. There isn't a
11 requirement that there be an access point or not, whether
12 or not you could use 802.11 ad hoc mode. And so they
13 could use Wi-Fi direct. It doesn't specifically say. So
14 I could envision different scenarios that would be
15 sufficient to meet the claim. And what I focused on is
16 the ones that are disclosed at least in the context of
17 this question from Ono.

18 Q Have you ever seen a wireless network that had a
19 single device on it?

20 A That becomes somewhat philosophical. Again, in
21 the sense of if you just have an access point and you
22 don't have any devices associated with that access point
23 on its SSID, do you really have a network or not?
24 Sometimes it matters for the way that the claims use a
25 particular term; sometimes it doesn't.

1 In this instance, I'm not sure how to answer the
2 hypothetical since I don't think the patent contemplates a
3 wireless communication network with only one device on it.

4 Q And so if you look at the flowchart that you were
5 referring to on page 92 of your declaration -- and
6 actually, I should do this in paragraphs because there's
7 two page numbers.

8 If you look at the flowchart that appears above
9 paragraph 125 of your declaration, the connection request
10 S1, you're not relying on that as the trigger of Claim 1
11 or Claim 9; right?

12 A That question is somewhat ambiguous. I think, as
13 it describes, there is the configuration to allow the user
14 to carry out a user action. So we've established -- I've
15 established here what that is, the user pressing the
16 confirm or enter key on the remote control as it would be
17 integrated into the peripheral device based on an
18 obviousness analysis.

19 The second piece is, as a result of that, it
20 would trigger the transfer. Figure 89 from Exhibit 1005
21 describes that triggering process and what happens as a
22 result of the user pressing the confirm key on the remote
23 control.

24 Q When you say "it would trigger," what -- what is
25 "it"?

1 A The pressing of the confirm key on the remote
2 controller.

3 Q So when you say "The second piece is, as a result
4 of that, it would trigger the transfer," what you're
5 saying is the second piece is, as a result of that -- the
6 pressing of the confirm key on the remote controller would
7 trigger the transfer?

8 A Would trigger the transfer. That's correct.

9 Q Okay.

10 A And to be clear, when I say "trigger the
11 transfer," it's shorthand for the rest of the requirements
12 of -- of the claims.

13 Q Understood.

14 A Okay.

15 Q Understood.

16 You had a -- that whole experience was triggered
17 by --

18 A Uh-huh.

19 Q -- my question about what -- sorry. I won't mix
20 that language. It's loaded. Let me try again.

21 That whole exchange about Ono resulted from my
22 question of: Do you have an opinion now about the
23 clarification that you would provide or -- or detail that
24 you would provide about Ono in response to the institution
25 decision; right?

1 A Not sure I would characterize it that way, but I
2 think it does generally come from how I would respond to
3 the PTAB's request for additional information around this
4 issue.

5 Q And -- and I'm not trying to put any words in
6 your mouth. I'm just trying to set the groundwork for
7 what I want to do with Ichieda.

8 A Okay.

9 Q But so same thing for Uchida. And if you'd like
10 Ichieda, I'm happy to give it to you now.

11 A I -- I --

12 MR. YANG: I defer to the witness.

13 THE WITNESS: Okay.

14 MR. YANG: But I will make an objection that to
15 the extent counsel's asking for specific information from
16 references in -- and the references are not in front of
17 the witness.

18 Go ahead.

19 THE WITNESS: Okay. So let me do it this way:
20 My understanding, again, from the institution decision --
21 I don't want to try and summarize it -- sorry. I -- I
22 don't want to say what the PTAB said in the institution
23 decision. I think that speaks for itself. Generally, it
24 was a question around the combination of the first and
25 third embodiment of Ichieda. And there were questions

1 about whether or not the button press in the combination
2 would have occurred on the PC or on the cell phone.

3 And so the -- the additional information I would
4 have provided comes in the context of paragraph 229 of my
5 declaration.

6 BY MR. HALVERSON:

7 Q Mm-hmm.

8 A And this goes specifically to how Ichieda would
9 describe in the combination, where the cell phone is the
10 peripheral device and would be providing the content to
11 the projector, how there would be a physical actuator on
12 that peripheral device, and that peripheral device would
13 be configured to allow the user to carry out a user action
14 on the input device of the peripheral device that would
15 trigger the transfer of said user-selected arbitrary media
16 content and remainder of that requirement.

17 Q And what is the input device of the peripheral
18 device?

19 A So the input device of the peripheral device
20 would be -- that's actually in a figure from Ichieda.
21 There's an example of that figure throughout the
22 declaration. One example is after paragraph 230. So that
23 input device would be the buttons on the information
24 terminal 80, which would be that cell phone. And so that
25 would be the input device. And I think, if I recall,

1 paragraph 280 -- 228 calls that the operation section 83,
2 and that's described in paragraph 228 for this
3 combination.

4 Q And that's 228 of your declaration?

5 A 228 of my declaration. That's correct.

6 And if I had the institution decision and -- and
7 it's probably useful. If you have it, I can point out the
8 two specific components in the question that the board
9 raises on this one. Do you -- you can -- well, if you
10 have the institution decision, I can tell you what
11 specifically those components are.

12 Q I don't have the institution decision.

13 A Okay.

14 Q I was just curious --

15 A Yeah. Sure thing.

16 Q -- as to the -- your thoughts on it and -- and
17 what reactions you had to it.

18 A Okay. So, ultimately, I -- I forgot the -- there
19 were two numbers for each of the information terminal. I
20 think it was 83 and 81 on the information terminal. And
21 the question that the board asked was why would that be
22 the button on the peripheral, why would that be used to
23 trigger the transfer, as opposed to 91 and 93 of the
24 personal computer.

25 And the answer to that is because, when the

1 information terminal was being used as the connection to
2 the projector 50, Ichieda specifically describes using 83
3 and 81 as the button that triggers the transfer.

4 Q So if we look at figure 12 -- and I'm on para --
5 page 160, just above paragraph 211. I think you can
6 probably stay where you are, but it's --

7 A Okay.

8 Q I think it's the same pictures as this one here.

9 A Yes. Got it.

10 MR. HALVERSON: You see? (Indicating.)

11 BY MR. HALVERSON:

12 Q The access point 70 is the device that sits
13 between the projector and the communication section 96;
14 right?

15 A That is true for the third embodiment. That is
16 not what the combined first and third embodiment that is
17 the basis for the ground.

18 Q Understood. Understood.

19 MR. HALVERSON: Okay. Perfect. Pending anything
20 else from Mr. Yang, I got everything that I want for
21 today.

22 MR. YANG: I do not have any questions for the
23 witness. We will review and sign.

24 THE STENOGRAPHER: Off the record at 12:11 p.m.

25 (Time noted 12:11 p.m.)

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