1 UNITED STATES PATENT AND TRADEMARK OFFICE

2 BEFORE THE PATENT TRIAL AND APPEAL BOARD

3

4

5 YEALINK (USA) NETWORK TECHNOLOGY CO., LTD., AND YEALINK NETWORK TECHNOLOGY CO., LTD.,

6

7 Petitioner,

8 vs.

9 BARCO N.V.,

10 Patent Owner.

11 Case No. IPR2025-00597, IPR2025-00598

12

13

14 DEPOSITION OF KEVIN C. ALMEROTH, PH.D.

15 Santa Barbara, California

16 Thursday, May 14, 2026

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21

22 Stenographically Reported by:
JUSTYNE N. JOHNSON

23 RPR, CSR. No. 14301

24 Job No. 631615

25 Pages 1-53

BARCO EXHIBIT 2033
Yealink v. Barco
IPR2025-00598

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3 The Deposition of KEVIN C. ALMEROTH, PH.D., was taken
4 on behalf of Patent Owner, at 633 West Cabrillo Boulevard,
5 Santa Barbara, California, beginning at 9:58 a.m., Pacific
6 time, on May 14, 2026, before JUSTYNE JOHNSON, RPR,
7 Certified Shorthand Reporter No. 14301.
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1 INDEX

2 WITNESS EXAMINATION

3 KEVIN C. ALMEROTH, PH.D.

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1 EXHIBITS
2 (None)
3
INFORMATION TO BE SUPPLIED
4
(None)
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6 WITNESS INSTRUCTED NOT TO ANSWER
7 (None)
8
TRANSCRIPT REQUESTED TO BE MARKED
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(None)
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1 Santa Barbara, California
2 May 14, 2026 | 9:58 a.m.
3
4 THE STENOGRAPHER: Good morning. We are going on
5 the record at 9:58 a.m., on Thursday, May 14, 2026, in the
6 matter of Yealink (US) Technology Co., Ltd., et al., v.
7 Barco N.V., Case Numbers IPR2025-00597 and IPR2025-00598.
8 Today's deposition is taking place at 633 West Cabrillo
9 Boulevard in 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 from K&L Gates on
16 behalf of Barco N.V.
17 MR. GREENLEAF: Kevin Greenleaf defending
18 Dr. Almeroth today with the Dentons firm representing
19 Petitioner.
20 THE STENOGRAPHER: Dr. Almeroth, can you raise
21 your right hand, please?
22 ///
23 ///
24 ///
25 ///

1 KEVIN C. ALMEROTH, 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 Good morning, Dr. Almeroth.
9 A Good morning.
10 Q I understand that you've got e-copies of the
11 exhibits in both of these proceedings. Is that true?
12 A Yes.
13 Q And for ease, we can use those. I just want to
14 put some clarifying comments on the record. So the first
15 one, IPR2025-00597, relates to U.S. Patent Number
16 11,966,346.
17 Do you have that declaration?
18 A I do. You mean the reply declaration?
19 Q Correct. Exhibit 1062 in that proceeding?
20 A Yes.
21 Q And is it okay if we refer to that patent today
22 as the '346 patent?
23 A Yes.
24 Q And then the other proceeding, IPR2025-00597,
25 relates to Patent Number U.S. 11,966,347.

1 Do you have that reply declaration as well?
2 A I do.
3 Q That one is also in Exhibit 1062. So I will do
4 my best to refer to the first as the '346 reply
5 declaration and the second as the '347 reply declaration.
6 Does that work for you?
7 A Yes.
8 Q And I said "347" there, and I didn't actually ask
9 that first question. Is it okay if we refer to U.S.
10 Patent Number 11,966,347 as the '347 patent today?
11 A Yes.
12 Q Great. For all of the other exhibits, the
13 exhibit numbers are the same in all of the proceedings.
14 Thank you to Yealink's counsel for organizing that in an
15 intelligent manner.
16 So for those, we don't need to differentiate.
17 I'm sure they will come up by name and number as we
18 progress. But does that all sound good?
19 A Yes.
20 Q Start with your '347 declaration and just do a
21 little bit of housekeeping on both. The '347 reply
22 declaration, Dr. Almeroth, is 93 paragraphs long; is that
23 right?
24 A Yes.
25 Q And is this your signature on the back?

1 A Yes, for March 31, 2026.
2 Q And this is your declaration responding to some
3 opinions offered by Dr. Michael Brogiolo?
4 A Yes, and in part. And other statements from the
5 patent owner.
6 Q When was the last time that you reviewed the '347
7 reply declaration?
8 A In the last week and then, more specifically,
9 most recently, probably, I took a look through it this
10 morning.
11 Q And did you see anything in there that you needed
12 to change, correct, or otherwise alter?
13 A Let's see. Paragraph 43. Third line down, it
14 says "EX-" and there's no number there. But it's one of
15 the -- it's the USB spec. Let's see. Should be ten...
16 That's 1-1. Exhibit 1056 it looks like it should
17 be.
18 Q Easy enough. Anything else?
19 A I do not see anything else.
20 Q All righty. Your other declaration, the reply
21 '346 declaration, is 97 paragraphs long; is that right?
22 A Yes.
23 Q And is that your signature on the last page?
24 A Yes.
25 Q And this is your declaration responding to

1 opinions offered by Dr. Michael Brogioli and other
2 statements from the patent owner in the '346 proceeding;
3 is that right?
4 A Yes.
5 Q When was the last time that you reviewed the '346
6 reply declaration?
7 A Probably briefly this morning and then more
8 extensively in the last week.
9 Q And as you review that, was there anything in the
10 '346 reply declaration that should be altered, changed, or
11 corrected?
12 A I didn't see it when I looked through it, but
13 that same exhibit number is in paragraph 34.
14 Q That correction of "EX-," close parentheses, to
15 Exhibit 1056?
16 A Yes. Or rather just filling in the number.
17 Q Nothing else?
18 A Not that I found.
19 Q All right. If anything else comes up today, let
20 me know.
21 A I will.
22 Q Or else, we can dive on in.
23 A I will do my best.
24 Q So you rely on the same pieces of prior art and
25 combinations in these two proceedings; is that right?

1 A I do...
2 Q There was a tail on that answer. Was there
3 something else?
4 A No.
5 Q Okay.
6 A Just -- I think that's it. I do. Just the same
7 references, the same grounds, obviously slight -- just
8 slightly different things.
9 Q And the '347 patent requires, as one of the claim
10 elements, a peripheral device; is that right?
11 A It does. Do you have a hard copy? As we've done
12 before, I could have multiple files open. But for the
13 patents, it might be easier just to have hard copies.
14 Q For you, of course.
15 A Thank you.
16 So yes. '346, Claim 1 does reference a
17 peripheral device.
18 Q As does Independent Claim 12?
19 A It does.
20 Q And 23?
21 A It does.
22 Q And 27?
23 A It does.
24 Q And what is a peripheral device in the context of
25 the '347?

1 A Let's see.
2 Generally, I think I characterized it as a
3 dongle. There are obviously some specific requirements of
4 what that peripheral device has to do in the claims. This
5 is back in the opening declaration. There's a discussion
6 of the '347 patent and its reference to peripheral
7 devices.
8 Q And at a high level, it's my understanding of the
9 claims that the '347 describes information flowing from a
10 functional device to a base unit to a peripheral device to
11 a processing device. Is that consistent with your
12 understanding?
13 A That is at least part of it. I think there was
14 some recollection that it was bidirectional in the '347
15 patent claims.
16 Q So that direction and then also the return
17 direction?
18 A I believe so.
19 Q And if we look at the '346 patent, the other one
20 that you've got in front of you, these independent claims
21 do not require a peripheral device; is that right?
22 A That is my recollection.
23 And I just did a search and I don't see the word
24 "peripheral" included in any of the claims.
25 Q And that includes the independent claims?

1 A That is correct.
2 Q And, in fact, if you look at the fourth claim
3 element of Claim 1, "the processing device."
4 Do you see that?
5 A I see that.
6 Q The last clause beginning "is configured."
7 Do you see that?
8 A I see that.
9 Q "Requires direct communication between the
10 processing device and the base unit"; right?
11 A I see the "configured to" line is what it says,
12 similar to what you said.
13 Q And so for the '346, we have three devices,
14 functional device, base unit, and a processing device, but
15 not that intervening peripheral of the '347; is that
16 right?
17 A There are three devices mentioned in the '346
18 patent. It doesn't exclude having a peripheral device.
19 You can do more than what the claim requires, as long as
20 the limitations are met. But I understand the distinction
21 you're drawing between the explicitly mentioned three
22 devices in the context of the '346 patent and four devices
23 described in the '347 patent.
24 Q And then when you say you can do more than what
25 is explicitly claimed, is it your opinion that that

1 interact directly with the base unit limitation that we
2 were just talking about can be taught or satisfied by
3 intervening devices?
4 A It's a little bit vague what the hypothetical
5 would be in terms of intervening devices. Is it... one
6 would assume that "intervening devices" means to be on the
7 path of. And if those intervening devices would cause the
8 communicate directly requirement to not be present, then I
9 would agree.
10 Q Can you envision a scenario where a communication
11 path that had an intervening device, meaning it goes from
12 device A to device B to device C, that path could satisfy
13 all limitations that said interact directly from A to C?
14 A Generally, no. I would have to give that
15 hypothetical some thought.
16 It would depend on, for example, the surrounding
17 claim language. I mean, this is interacting directly with
18 the base unit over a wireless connection. That might have
19 some words as to that it be over a wireless connection,
20 defining the scope of what the direction needs to be.
21 It -- it's hard to understand every potential
22 hypothetical scenario where there might be some
23 configuration of equipment that would allow the limitation
24 to be met, despite communication going from A to B to C.
25 But I think generally for purposes of this declaration and

1 what I've looked at with respect to the grounds and the
2 references, it was that there was nothing intervening.
3 So I never got to the point of really having to
4 consider whether or not there was a hypothetical scenario
5 where you could have intervening equipment, I think, to
6 use your term.
7 Q Remember Kaplan?
8 A I do.
9 Q Do you want a hard copy or do you got an
10 electronic copy?
11 A Yeah. I would like a hard copy of it, if you got
12 it in a box.
13 Q Told you you'd want your laptop, man.
14 A You know, you've seen me do this; right? Like,
15 if I got the declaration up and I got the reference and
16 I'm reading from the reference -- 'cause it's cited to in
17 the declaration, it gives me, like, a virtual third
18 screen.
19 Q That's just fine. Do we have --
20 MR. GREENLEAF: ... the virtual screen.
21 THE STENOGRAPHER: I didn't hear completely what
22 you said.
23 MR. HALVERSON: He's just muttering. And
24 probably just coaching.
25 Ah.

1 BY MR. HALVERSON:
2 Q So in Kaplan, if you look at figure 2 of Kaplan,
3 it's kind of our big system figure, if you recall from
4 before.
5 A Right.
6 Q And feel free to look anywhere else in Kaplan.
7 But is there any disclosure in Kaplan of communication
8 between 110 and computer 220 without going through 120?
9 A Just so you know where I'm navigating, I think I
10 need to pull up the original declaration. Exhibit 1002
11 from the '347 IPR. 'Cause I'm going to look at the
12 limitation --
13 Q You pro --
14 A -- where I address that.
15 Q You probably want the '346, which is the
16 peripheral list.
17 A Oh, sorry.
18 Q But you're welcome to look at more, if you'd
19 like.
20 A Okay. So looking at the original declaration, it
21 doesn't address your question specifically. It relies on
22 what Van De Laar says about communicating directly. So in
23 the combination where it was the wireless docking host,
24 the WDH that was acting as the base station, that would
25 communicate with the dockee directly.

1 So as to whether or not Kaplan says anything
2 about whether or not 120 is necessary in all embodiments,
3 I have not looked. If you'd like me to look briefly, I
4 can take a quick minute and scan -- skim through it and
5 see.
6 Q You're certainly welcome to. But so it's my
7 understanding, then, based on that, that you're not
8 relying on the Kaplan hardware to teach the communication
9 path of the '346 claims; rather, certain functionality
10 from the Kaplan reference being used to modify the Van De
11 Laar reference. Is that fair?
12 A I wouldn't characterize it that way. I think
13 about it in my head -- and I think the way I've tried to
14 express it in the declaration is using the wireless
15 docking host, the WDH, as the base station to facilitate
16 the ability of a system like Kaplan to have multiple
17 functional devices that coordinate through the WDH kind of
18 the base unit.
19 So I think Kaplan does have a path in figure 2
20 that goes from a peripheral device over a communication
21 link to a processing device. It does include that USB
22 device 120. But, otherwise, the communication paths are
23 quite similar or can be constructed in alternate ways, as
24 described in the declaration.
25 Q You also offer some opinions in these

1 declarations, Dr. Almeroth, about secondary
2 considerations. Do you recall that?
3 A I do.
4 Q Did you review the Crestron that you reference
5 in, for example, paragraph 93 of the '346 reply
6 declaration?
7 A I have.
8 Q As part of this proceeding?
9 A It was all fairly contemporaneous. I would think
10 so.
11 Q And the reason I ask is you don't have any
12 citations to it in here. What's the basis for that
13 statement?
14 A Reviewing the patent owner response, paragraph 93
15 cites to 58 through 62 that cites to the Crestron license.
16 So I'm responding to those opinions and references to the
17 license through that path.
18 Q And then the preceding section, you're pointing
19 to -- or I guess titled, excuse me. Let me start over.
20 I'm halfway through the question and...
21 If you look at paragraph 88, Dr. Almeroth, of
22 your '346 reply declaration, it's under a heading
23 "Commercial Success Analysis of Feature Attribution."
24 Do you see that?
25 A I do.

1 Q What are you responding to in this section?
2 A Evidence of commercial success used as a
3 secondary consideration as described by patent owner and,
4 I believe, Dr. Brogioli.
5 Q And then, unlike in the section that we were just
6 looking at here, there are no citations to the patent
7 owner response or to Dr. Brogioli until we get to his --
8 Dr. Brogioli's deposition in paragraph 91. I want to
9 probe into a little bit of what you recall responding to
10 in 88, 89, and 90.
11 So what is your understanding of what patent
12 owner's commercial success argument is for the '346
13 patent?
14 A My recollection is that patent owner argues that
15 the ClickShare products embody the '346 patent claims, and
16 then the commercial success, as they have articulated it,
17 is a basis to conclude there are secondary considerations
18 that would overcome the obviousness analysis that I have
19 performed.
20 Q And approximately how much time did you spend
21 analyzing patent owner's commercial success arguments for
22 the '346?
23 A A little bit hard to say since it overlaps with
24 arguments that patent owner made in the related district
25 court litigation. An analysis I did in that context for

1 understanding the ClickShare products which overlaps or is
2 essentially the same or is a subset of what's in these
3 declarations. The opening declarations had some
4 discussions about aspects of ClickShare products, and I've
5 analyzed those.
6 And so the amount of time I've taken looking at
7 the ClickShare products, what their features are, are
8 probably couple of hours. Maybe a bit more.
9 Q And if you look at the bottom of page 52, there's
10 a cite to Exhibit 1062.
11 Do you see that?
12 A Yes.
13 Q Do you have a copy of 1061 on your machine too?
14 A I do. And I do not need a... actually, yeah. I
15 do not.
16 Q You don't have it?
17 A I do not have 1061.
18 Q I don't know that I do either. And I brought an
19 abridged set of documents. Let's see.
20 Do you recall what product 1061 relates to?
21 A C5, based on page 5 of the '346 declaration
22 relates to Exhibit 1061 of the ClickShare C5 data sheet.
23 Q How about that.
24 Do you know whether or not Barco has ever
25 contended that the '346 patent is practiced by its C5

1 product?
2 A I recall, with some level of confidence, that
3 during the district court they made representations that
4 their products practiced the claims of the patents that
5 were at issue in the underlying litigation. As it relates
6 to the '346 patent, I don't have a specific recollection.
7 Q Did you analyze any other Barco products as part
8 of your response to Dr. Brogioli's secondary
9 considerations analysis for the '346?
10 A Yes.
11 Q Which other ones?
12 A The products that Dr. Brogioli is referring to as
13 the basis for his analysis that, from my recollection,
14 there is significant overlap in functionality. There are
15 differences in features, and so there are also issues
16 about the different kinds of products and whether or not
17 they represent base stations or whether or not they
18 represent dongles.
19 So I had that general understanding in mind as I
20 was responding to the commercial success secondary
21 consideration, in particular, focused on this issue of
22 whether or not there was a nexus. And that really points
23 to all sorts of different features that would be common
24 across the whole range of products. So not just limited
25 to C5.

1 Q Two answers ago, you had referenced the
2 underlying litigation. Do you recall whether or not the
3 '346 was part of that underlying litigation?
4 A It is my recollection that it was not. But in
5 that sense, there are overlapping claim elements. And
6 then, ultimately, the point of this section has to do with
7 the whole host of additional features that are part of
8 ClickShare that demonstrates that there would not have
9 been a nexus.
10 Q And do you have the '347 --
11 A I do.
12 Q -- reply -- sorry. Let me -- I paused. You
13 answered. I wasn't quite done. That's on me. Let me try
14 it again.
15 Do you also have your '347 reply declaration,
16 Dr. Almeroth?
17 A I do.
18 Q Thanks.
19 I didn't see it. But is there a similar
20 commercial success analysis in your '347 reply?
21 A I don't believe there is.
22 Q Why is that?
23 A Let's see.
24 There -- there's another portion of the report
25 that -- of the '346 reply declaration that I did not go

1 through that addresses the inability to establish a nexus
2 for commercial success. That was paragraph 62. That
3 paragraph exists in the '347 reply declaration as a
4 paragraph 83.
5 And so that goes to a criticism of Dr. Brogioli
6 and his ability to establish a nexus for purposes of
7 commercial success. That applies to both the '346 and
8 '347 patents. And so I did not need to do the additional
9 analysis in the '347 patent. I'd have to go back and look
10 to see if there was a difference here or if Dr. Brogioli
11 had the same kinds of opinions that I responded to in the
12 '346.
13 In the separate subsection D, it could quite
14 possibly have been an oversight. Could have updated
15 this -- the same paragraphs if he made the same opinion.
16 Q But as far as you know, there's not a corollary
17 to 88, 89, and 90 from the '346 reply declaration
18 somewhere in the '347 reply declaration; right?
19 A Not those specific paragraphs. They have been
20 copied over.
21 Q Or the opinions that are in there? 'Cause these
22 are affirmative opinions, not responding opinions, as far
23 as I can tell, in 88, 89, and 90.
24 A I'm not sure I'd agree with your
25 characterization. I mean, the first sentence of 88 says,

1 "Patent owner presents the evidence of commercial success
2 of ClickShare products."
3 And then there is the earlier paragraphs, though
4 I -- I don't have the patent owner response to go through
5 and check. But I believe they're intended to be
6 responded-to opinions that patent owner has made.
7 And sorry. I thought there was one other thing.
8 I think that's all.
9 Q Ask a couple questions about Beel. Hard copy?
10 A Please.
11 MR. HALVERSON: Mr. Greenleaf?
12 MR. GREENLEAF: No, I'm good.
13 BY MR. HALVERSON:
14 Q If you look at paragraph 71 of Beel for me --
15 (Stenographer sneezed.)
16 MR. HALVERSON: God bless you.
17 THE STENOGRAPHER: Thank you.
18 MR. HALVERSON: He -- she sneezed. Not you. I
19 can bless you too, but...
20 THE WITNESS: It's fine.
21 All right. 71.
22 MR. HALVERSON: Sorry. You beat me to it.
23 BY MR. HALVERSON:
24 Q Paragraph 71 of Beel, Exhibit 1005 in both
25 proceedings, references another aspect of the invention.

1 Do you see that at the very top?
2 A I do.
3 Q And at the very end of paragraph 71, it's talking
4 about a "third software code portion." Do you see that?
5 A I do.
6 Q Goes on to say, "for receiving media content from
7 the network and for displaying the media content on the
8 display, in accordance with a set of rules."
9 Do you see that?
10 A I do.
11 Q What are the rules that Beel uses for that?
12 A Okay. I took a moment to see if there was
13 discussion of what the rules were in the context of either
14 of the reply declarations or the opening declarations, and
15 I don't see anything specifically. So I'm going to pull
16 up Beel and see what it says about Beel's...
17 Paragraph 123 of Beel, about eight lines down, it
18 says, "The base node 36 can be adapted to display the
19 received user-collected arbitrary media content in
20 accordance with a set of rules, (e.g. FIFO)" -- for first
21 in, first out -- "automatically on request approval forced
22 to display in accordance with the priority," et cetera.
23 And it goes on from there.
24 That's talking about video going from the
25 processing device to the base node to the display, so it's

1 at least in that direction that there are rules. If you
2 want me to see if there are rules in the other direction
3 as well, I can see about that.
4 Q Or any other rules that are part of Beel. I
5 think the next one is paragraph 132. But by all means.
6 A So I read a portion of 123. It's a long
7 paragraph. There are additional references to rules in
8 that paragraph. They are mentioned in 132.
9 Q And what are the rules in 132 governing?
10 A The program that can be loaded onto the base node
11 that can receive content from one or more
12 client-processing devices through connection units or
13 optionally 49 or 52. I'd have to go back and look at what
14 those are for showing media content on one or a plurality
15 of displays. And --
16 Q Are there -- sorry. Go ahead.
17 A And the rules allow display in accordance with
18 rules that are similar to what I read from the previous
19 paragraph.
20 Q And are there other instances of rules being
21 described in Beel?
22 A 135 seems to mention a similar scenario.
23 Q I think 157 does too.
24 A 157.
25 Now, there is a paragraph 24 that talks about

1 firewall rules.
2 Q Are the firewall rules in paragraph 24 the kinds
3 of rules that would be governing displaying the media
4 content of the display in accordance with a set of rules
5 that's referenced in paragraph 71?
6 A I don't see why they wouldn't be. This talks
7 about how software can block communication if some of that
8 communication includes video. And it were blocked by a
9 firewall rule, then it would be able to be forwarded and
10 then ultimately displayed.
11 Q Other than -- I lost my notes...
12 Other than what you saw in paragraphs 157 and
13 135, 132, 123 and -24, are there other disclosures in Beel
14 of rules?
15 A Those are the paragraphs that seem to show up
16 when you search for the word "rules." I -- I'd have to
17 understand the context of the question in terms of what --
18 the scope of how you're using the term "rule."
19 There are certainly all sorts of checks that
20 devices will go through before functionality can be
21 carried out, like rules about whether or not you can
22 communicate data that depend on whether or not you have a
23 network connection. There can be checks for permission
24 both in terms of accessing video for outbound traffic or
25 assessing the rules, like what this describes, in terms of

1 checking inbound permissions and availability of devices.
2 So it depends on, really, how you're defining the
3 word "rule" and the scope of what functionality a system
4 would be considered part of a rule or something that
5 needed to be satisfied before functionality could be
6 carried out. So it's a little bit of a question without
7 sufficient context to give a complete answer.
8 Q You familiar with the concept of multiplexing as
9 it appears in the '347 patent?
10 A Yes.
11 Q What is "multiplexing"?
12 A In the context of the '347 patent... let me pull
13 that up. Talks about processing that can be done for
14 audio and webcam and coding, mixing, demultiplexing, and
15 other processing. That's part of a description around
16 column 13, line 60.
17 In that context, it would generally mean the
18 ability to have multiple streams that would exist in a
19 single signal or transmission that can be separated. Some
20 cases, that might include an audio and a video stream
21 encoded into packets and that's part of the decoding
22 process, you're demultiplexing. So separating those out
23 to go to their respective next step, whether or not
24 they're presented for output or encoded and transmitted
25 over a network or not.

1 And then... that's the one instance in this
2 specification. And then it also shows up in column 3 and
3 5 and 14 and 16.
4 Q And you see the verb "mixing" in those same
5 spots?
6 A Yes.
7 Q What's "mixing" in the context of the '347
8 patent?
9 A It doesn't give much of a definition, at least
10 around the term, so I'd need a minute to go through and
11 see if it says something else more specifically. But at
12 least as a first approximation, "mixing" is generally the
13 idea of taking two different sources and combining them
14 together, typically associated with audio.
15 So in figure 4, box 28, is a mixer on the decode
16 pa -- sorry, on the audio path. That might take multiple
17 sources and combine them together. So, for example, if
18 you have a lapel microphone and then you also had a
19 microphone on the table, you might want to mix with those
20 sounds together.
21 If you had a narration and, say, some background
22 music and you wanted to combine those together, you could
23 do that through a sound mixer. Sound mixer is called out
24 in figure 7. So unless there's some disclosure I'm
25 missing, those are probably the best first approximation

1 of what "mixing" refers to.
2 Q And I think there's some corresponding text
3 associated with figure 4. If you control+F just "mixer,"
4 you might get a paragraph which, I think, is consistent
5 with what you were just talking about. Begins with
6 "reference to figure 4."
7 A Do you have a column number?
8 Q I'm on Google. Hang on.
9 A Okay. Got it. Column 17, line 19, with
10 reference to figure 4.
11 Q Is that consistent with the description that you
12 had given a little bit ago?
13 THE STENOGRAPHER: Counsel, I need go off the
14 record.
15 Off the record at 10:50.
16 (Off the record.)
17 THE STENOGRAPHER: Back on the record at
18 10:50 a.m.
19 My apologies.
20 THE WITNESS: I don't need the question repeated.
21 BY MR. HALVERSON:
22 Q Sounds good.
23 A Generally it looks like there -- it's consistent
24 with what I've said. I've given at least one example of
25 what a mixer does. I don't -- I don't know that my

1 description is a complete enumeration of all the
2 functionalities that a mixer can perform.
3 Q Ever heard of a concept called "auto composing"?
4 A Generally, yes.
5 Q What is it?
6 A Depends on the context. I've heard it in
7 different contexts. Examples that come to mind,
8 generating music automatically for composition.
9 Composing, I guess, could be for written text as well. I
10 don't know that there's some specific definition devoid of
11 context that I have seen or would have in mind, sitting
12 here now.
13 Q I've only heard of it in the context of music,
14 video, and text as far as generating new media, for lack
15 of a better word. Are you familiar with that concept,
16 auto composing, outside of those areas?
17 A Possibly.
18 Q In the --
19 A Audio, video, and text is pretty broad, but still
20 images.
21 Q Okay.
22 A And so then we're in a round where pretty much
23 any type of media that can be produced would seem like it
24 would be conducive to being automatically composed and,
25 again, depending on how you define that term.

1 One second. I did say it depends on context. I
2 guess the term "auto composed" is used in, for example,
3 Beel. But, I guess, I'd have to look specifically at any
4 of the references to see if it says something specifically
5 about what that term means or what it would mean in
6 context.
7 Q Where do you see the Beel?
8 A Paragraph 123. The second to last full sentence,
9 "The base node 36 may be adapted to auto compose the media
10 content on the central display connected to it (e.g. from
11 one or more processing devices)."
12 Q You were handed another document, Dr. Almeroth.
13 Do you know what that one is?
14 A Van De Laar.
15 Q All right.
16 Are you familiar with a concept of "mirror cast"?
17 A Yes.
18 Q Generally, what is "mirror cast"?
19 A "Mirror cast" is a functionality that allows you
20 to mirror a display. And there's an underlying protocol
21 for being able to communicate the mirrored data. There's
22 some discussion of mirror cast in -- I believe it's in
23 both of the declarations.
24 Q And I think it's not just display. Is it your
25 understanding that you can also transmit audio via a

1 mirror cast?
2 A I believe so.
3 Q Does that allow for the receipt of audio and
4 video as well or just the mirror and transmission?
5 A It would allow for the reception as well.
6 Q So by the same device that is transmitting or by
7 the other device? That was a bad question. Let me try
8 that one again.
9 When you say it allows for the reception, what is
10 receiving data in the mirror cast communication protocol?
11 A I would have to check. My recollection is,
12 generally, there is a source and then there is a sync; the
13 source providing the mirror cast data and then the sync is
14 receiving it. But similar, since you just handed me
15 Van De Laar, I believe mirror cast would support full
16 duplex in the sense that a mirror cast device can both
17 source and sync mirrored data.
18 Q At the same time? And the reason I ask is you
19 used "duplexed."
20 A Yes. I don't see a reason why you couldn't do it
21 at the same time, either as a single mirror cast session
22 or two independent mirror cast sections -- sessions in two
23 different directions.
24 Q And you had referenced Van De Laar in that -- two
25 answers ago. Is it your understanding that in

1 Van De Laar, the same device can be a primary and a
2 secondary dockee at the same time?
3 A Yes.
4 Q And what is the basis for that?
5 A Let's see. Oh, I thought I had the paragraph in
6 mind. It's not the one.
7 Q Figure 2 probably did.
8 A 93, is it?
9 Q What part of 93 are you thinking about there?
10 A Check.
11 Q Might be paragraph 60.
12 A It's the wrong side.
13 Q Are you looking for the transforming language?
14 A "Operating in the capacity as a primary,
15 secondary, or both by having any combination of write and
16 read permissions."
17 That's the first cite in 47. Sorry. Paragraph
18 47 of the '346 reply declaration.
19 And then it goes on from there to mention 49 and
20 60. As it references, it says it "allows for one or more
21 primary dockees to be connected to the wireless dockee
22 host at the same time and that each primary dockee could
23 send AV data to the WDH and receive AV data from the"
24 D- -- "WDH."
25 Q Sorry. Where were you reading from?

1 A Paragraph 47 of the '346 reply declaration.
2 Q Ah. So I had asked, "Is it your understanding
3 that in Van De Laar the same device can be a primary and a
4 secondary dockee at the same time?"
5 You said, "Yes."
6 And I said, "What's the basis for that?"
7 And I thought you were looking at Van De Laar,
8 not your declaration. Is there --
9 A My --
10 Q -- a portion of Van De Laar that serves as the
11 basis for your understanding that the same device can be a
12 primary and a secondary dockee at the same time?
13 A Yes. And so the basis for that is described in
14 paragraph 47 of the declaration which then cites to
15 Exhibit 1007, which is Van De Laar. And paragraphs cited
16 in that paragraph of my declaration are 95, 59, and 60.
17 And so 60 is an example where it talks about the
18 functionality of being able to have any combination of
19 read and write permissions and then being able to
20 transfer -- transform a primary into a secondary device
21 verse -- which then says, Well, is it then saying it can
22 only be one or the other at the same time. And so where
23 do you understand the idea of it being both at the same
24 time.
25 And that gets into the context of the primary and

1 secondary both being a source of a sync at the same time,
2 which is the definition of what the primary and secondary
3 dockees are where it would have control over a particular
4 device.
5 So you could have one dockee that is a primary
6 for a camera and a secondary for room audio and then a
7 corresponding dockee that would be primary for the audio
8 source and secondary for the video source. And so each
9 are both primary and secondaries at the same time for
10 different combinations of devices, assuming you only had
11 write access that was allowed to a single device where, in
12 fact, you also have devices like whiteboards where you can
13 have multiple primaries at the same time.
14 So depending on the kinds of functional devices
15 and permissions, you can have primary and secondary -- you
16 can have processing devices take on the role exclusively
17 of a primary dockee, exclusively the role of a secondary
18 dockee, or a combination of performing primary dockee
19 functionality and secondary dockee functionality.
20 Q How does Van De Laar use mirror cast or how does
21 Van De Laar describe mirror cast being used?
22 A It's cited in a couple of different places. The
23 one that helps establish the layering aspect of mirror
24 cast is in 124 where it characterizes it as a next layer,
25 so below the TCP -- or sorry, TCP or UDP or even the IP

1 layer. So you're at the WiFi layer, so the data move
2 layer, and you're using WiFi mirror cast as a sync and
3 then also a source.
4 So that's paragraph 124. And it -- and also in
5 125, and then there's a figure that goes along with it
6 that's referenced in 126. Those paragraphs are a bit more
7 the specific paragraphs that describe kind of the protocol
8 layer which the functionality operates.
9 120 -- or sorry, 72 just mentions support for
10 mirror cast. 80 characterizes it as a wireless
11 technology, not so much providing the relative layering as
12 compared to TCP, UDP, and IP. It comes in 123. There's
13 more in 116, 119 that I can go into as well.
14 Q And so at least based on 124, 125, and 126, which
15 is where the bulk of that description came from, the
16 mirror cast protocol is sitting on the WDH -- is that
17 right? -- which is the same as the host 300?
18 A Sorry. Could you repeat the question?
19 Q Sure. So if you look -- you've -- could look at
20 paragraph 124, are you looking at your declaration or are
21 you looking at all three?
22 A I got 124 and the declaration up, not on a
23 relevant paragraph, and figure 3 on the paper copy.
24 Q So if we look at -- and, I guess, for
25 orientation, WFM in figure 3, which we see in 120, 130,

1 and 300 is WiFi mirror cast; right?
2 A It is.
3 Q So WiFi mirror cast serves as a source in primary
4 dockee 320; right?
5 A It is.
6 Q A source and a sync in WDH 300; right?
7 A Correct.
8 Q And then a sync in the secondary dockee 330;
9 right?
10 A That's the example in figure 4.
11 Q Figure 3?
12 A Sorry. Figure 3.
13 Q And I think you had testified earlier that that
14 is a bidirectional communication protocol; is that right?
15 A When you say "that is," that possibly modifies
16 the protocol. I said yes. Within the protocol you could
17 do bidirectional. The example in figure 3 is where 330,
18 the secondary, is only acting as a sync.
19 If 330 were doing its own sharing, then it would
20 also be a source and you could have an arrow from the
21 other direction for 311 and 312.
22 Q Could you have a bidirectional arrow for 311 and
23 312?
24 A I think they're just conceptual, so certainly you
25 could put another arrowhead on 311 and 312. The

1 implementation of that could take a couple of different
2 forms. Whether or not mirror cast within the session
3 would support full duplex or whether or not full duplex
4 would be supported across multiple sessions have probably
5 two different ways to implement it and it might only be
6 one, depending on the feature is the of mirror cast.
7 MR. HALVERSON: How are your fingers doing?
8 THE STENOGRAPHER: They're fine.
9 MR. HALVERSON:
10 Q You doing all right?
11 A Yeah.
12 MR. HALVERSON: You doing all right?
13 MR. GREENLEAF: (Nodded head in the affirmative.)
14 MR. HALVERSON: Can we keep going?
15 MR. GREENLEAF: (Nodded head in the affirmative.)
16 MR. HALVERSON: Okay.
17 BY MR. HALVERSON:
18 Q Van De Laar also refers to Skype; is that
19 correct?
20 A Yes.
21 Q And what is Skype used for in Van De Laar?
22 A So Skype is -- gosh, you know, it will actually
23 do a couple of different things. But you can use Skype
24 for things like video conferencing, phone calls. You can
25 also do screen sharing within Skype as well.

1 Q Why would one use Skype and mirror cast at the
2 same time?
3 A Yeah. So you could think of an example of where
4 you're in a room and there is a remote participant. Say
5 someone from Dentons in DC wanted to listen to what was
6 being said.
7 Q Can we use New York?
8 A Sure. New York.
9 Q 'Cause Steve's involved.
10 A So I would have a Skype session set up with that
11 person, and I'd be able to see their video. And then this
12 room also had a projection. And so I could connect my
13 screen and use mirror cast to send to a projector,
14 potentially through a base station, potentially through a
15 dongle, what I'm seeing on my screen. That way, if I had
16 a Skype session with Stephen, then I could protect that
17 conversation or that video so that you could see it as
18 well.
19 Q And then all of us in this room would see Steve
20 up at the front on the display?
21 A And that would be accomplished from my computer
22 to the display, potentially through a base station using
23 mirror cast.
24 Q Would Steve be able to see us?
25 A Not unless I reversed the screen share and did a

1 screenshare, probably through Skype, back to him. But
2 then he could mirror cast what I was sending him up on to
3 the screen. So, actually, let me back up.
4 In order to see us, there would need to be a
5 camera. The data from that camera would need to be
6 collected. That could be used as an input source for
7 Skype. Just like that is an input source, this computer
8 (indicating) has an integrated camera. That could be used
9 as a source. You could screenshare in Skype.
10 So it can take multiple sources of input and then
11 send it to the other side. So you could certainly set up
12 a system to do something like that.
13 Q And I think I tracked all of that, except the
14 very end when you said "multiple sources of input" in
15 Skype. What would be the multiple sources of input in
16 that example that you gave?
17 A Integrated camera, screen-scraped data from this
18 computer (indicating). You could have a dongle that was
19 providing video. You could just be sending video over
20 WiFi. You could have video that was screen scraped and
21 provided over mirror cast from an external source. You
22 could have unencoded raw video through, like, an RCA cable
23 plugged into the laptop, and it would do its own video
24 code and decode.
25 Those are kinds of the common examples of sources

1 of video.
2 Q Go back to your '347 reply.
3 A Okay. Got it.
4 Q Do you have an opinion on whether or not the
5 ClickShare C5 -- that product we were talking about
6 earlier today -- practices the '347 patent?
7 A I'd have to go back and look at the patent
8 owner -- well, I -- let me start over.
9 It's a bit of an odd question. It's -- my first
10 thought is it's not my burden to establish whether or not
11 ours practices claims of the '347 patent. So then I'm
12 trying to think about whether or not Dr. Brogioli or
13 patent owner have presented evidence as to whether or not
14 it practices the claims, and I'm doing a claim-by-claim
15 analysis and presenting evidence of each limitation why it
16 was present.
17 Normally, the question of secondary
18 considerations is patent owner's burden. And so the
19 answer to the question is if the patent owner hasn't
20 offered an opinion based on the evidence, then there isn't
21 really anything for me to respond to. And I don't believe
22 evidence was presented. And so I haven't offered an
23 opinion, one way or another.
24 And since you raised it, and I can't stop
25 thinking about it, maybe we should do a break.

1 MR. HALVERSON: Sure. We can go off the record.
2 THE STENOGRAPHER: Off the record at 11:17 a.m.
3 (Off the record.)
4 THE STENOGRAPHER: Back on the record at
5 11:26 a.m.
6 BY MR. HALVERSON:
7 Q Welcome back, Dr. Almeroth.
8 A Thank you.
9 Q We were chatting about Barco's C5. Do you
10 remember that?
11 A Yes.
12 Q In the context of the '347 -- and if you go to
13 paragraph 90 of your reply declaration in the '347,
14 there's a reference to Exhibit 1061.
15 A Yes.
16 Q And if I recall, you had said that you have not
17 offered an opinion, one way or the other, about whether or
18 not the C5 practices any claim of the '347; is that
19 correct?
20 A Sorry. Could you repeat the question?
21 Q If I recall, you had said you have not offered an
22 opinion, one way or the other, about whether or not the
23 Barco C5 practices any claim of the '347 patent; is that
24 correct?
25 A I think I said I didn't recall. Or if I didn't

1 say, I should have said I don't recall whether I did
2 specifically. There's quite possibly something in the
3 declaration in probably 87 could be characterized as
4 providing opinions about aspects of the claim about which
5 Dr. Brogioli has no opinions about. And so my response
6 would basically be a failure of proof to establish that
7 there was a nexus in that the products did practice the
8 '347 patent.
9 Q So we'll circle back to that in just a second.
10 Paragraph 90 references the '346.
11 Do you see that?
12 A It does.
13 Q Should that be the '347?
14 A Yes.
15 Q Okay. So your prior longer answer was talking
16 about failure of proof to establish that there is a nexus
17 in the products that did practice the '347. I want to
18 unpack that a little bit.
19 So my understanding of the nexus requirements in
20 secondary considerations is there needs to be a nexus or a
21 connection between the evidence of secondary
22 considerations and the claimed technology. Is that
23 consistent with your understanding?
24 A From a non-legal perspective, I also understand
25 that there are interpretations that there is a but-for

1 requirement in the sense of if you can attribute
2 commercial success to other factors or other features,
3 that the failure to establish that it's -- that the nexus
4 is in the claims technology is what's responsible for the
5 commercial success, then that's not sufficient.
6 Q And as a precursor to all of that, there needs to
7 be evidence that there is a product that practices the
8 patent; right?
9 A That would be one way to establish kind of the
10 technical prong to then determine whether or not the
11 commercial success was tied to the patent. Obviously, the
12 inverse of that, if you had a product that didn't practice
13 the claims, then that would be much harder to establish
14 the nexus.
15 Q Is it possible to establish a nexus that has
16 practiced claims?
17 A I think that gets into a legal question.
18 Q Have you ever seen that before?
19 A Not that I specifically recall. Sometimes it's
20 qualitative. But then that suffers from the same kinds of
21 failure to establish a nexus. Criticisms.
22 Q Maybe here's a better question for all of this.
23 Do you offer any opinions that any of Barco's products do
24 not practice the '346 or '347 patents in these two
25 proceedings?

1 A I don't specifically recall. I would defer to
2 what the declaration says. So, for example, paragraph 87,
3 which I think is probably similar between the '346 and the
4 '347, I happen to be looking at paragraph 87 of the '347
5 declaration. And it points out that... 88.
6 (Stenographer clarification.)
7 THE WITNESS: 87 and 88 where Dr. Brogioli
8 doesn't have any experience with the kinds of technology
9 and products. And so that would support an idea that
10 there was a failure of proof to establish a practicing
11 opinion.
12 BY MR. HALVERSON;
13 Q Have you ever used the ClickShare C5?
14 A I have used a ClickShare product. I don't
15 remember if it was the C5 or not. I think in some of the
16 other declarations there were screenshots. It was the one
17 about -- I forget the language of the claim -- zero
18 configuration, zero footprint or con...
19 I forget what the terms were. But there were
20 screenshots from a product. And that one -- I've used at
21 least that one.
22 Q Have you ever joined Teams or a Zoom call whether
23 Teams or Zoom was posted on a ClickShare base unit?
24 A I don't believe so. I haven't personally done
25 that.

1 Q Have you ever joined a Teams or a Zoom call using
2 a ClickShare product call?
3 A No. I don't use ClickShare. I would have only
4 looked at it in the context of this litigation. It might
5 have been part of some demo. But whether or not I've done
6 it is -- I'm not a representative user of the product.
7 Q Do you still have Beel in front of you?
8 A I do.
9 Q And this is going to be in your other
10 declaration, the '346. It's my understanding that your
11 Beel-based opinions in the '346 proceeding are based, at
12 least in part, on the third and fourth embodiments of
13 Beel. And then you incorporate the prior teachings of
14 Beel; is that correct?
15 A I do.
16 Q And...
17 A Paragraphs 9, 10, 11.
18 Q And you're in your reply declaration for the '346
19 there?
20 A Yes.
21 43 it comes up, so there's a couple different
22 sections in the declaration.
23 Q And I want to make sure that I understand the
24 differences between the third and fourth embodiments in
25 Beel, if you would indulge me. So my understanding of the

1 fourth embodiment, which begins at paragraph 247 of Beel.
2 A Okay.
3 Q It's primarily directed towards the situation
4 where there is no USB port available; is that right? You
5 see that in 249?
6 A I see that. My only caveat is the difference in
7 the absoluteness of your question and then says there's
8 often no USB port. I can envision the fourth embodiment
9 being used even if there wasn't a USB. It's not the same
10 as not having one.
11 Q So it's your understanding that the fourth
12 embodiment of Beel could be used on, for example, this
13 laptop (indicating) that has USB ports on it?
14 A It could be. The fourth embodiment just says not
15 to use the USB port where it's not required to perform the
16 aspect of the claims.
17 Q And so the beginning of the fourth embodiment in
18 paragraph 247 says that the software is copied on the
19 client operating device.
20 Do you see that?
21 A I do see that.
22 Q From where is it copied?
23 A Let's see. I think part of this is discussed in
24 10. Beel doesn't say -- doesn't provide a constraint or a
25 direction on where the software can be obtained. So you

1 can download it from a network, could be pre-installed,
2 come as a CD-ROM. I don't think that Beel says for the
3 fourth embodiment where it could come from. It could come
4 from the USB device... a USB device operating similar to a
5 CD-ROM or at least as a hard drive.
6 Q What does paragraph 250 explain?
7 A Application distribution is easy -- easy and
8 widely accepted through application stores.
9 Q What's an "application store"?
10 A Something like an Apple App Store, an online
11 source of software. So could be something like an app
12 store for a mobile device. Could also be just a software
13 store where instead of ordering a CD or a series of
14 diskettes, you can download the software itself online.
15 Q Do you know when Apple phones and tablets started
16 supporting USB?
17 A I don't have a date in mind.
18 Q Do you think it was before or after 2015?
19 A I don't have a basis, sitting here right now, to
20 say, one way or another. I would suspect it would be
21 before.
22 Q Did your first iPhone still use a lightning
23 cable?
24 A Yes.
25 Q What was the first iPhone that you had?

1 A It was not the first one. It would have been
2 iPhone 3 or 4 or something like that. It was not at the
3 very beginning, but one of a first generation of devices.
4 Q And do you recall at least the existence of a
5 transition from those lightning cables to USB?
6 A Yes.
7 Q And do you recall whether or not the phones that
8 used or required lightning cables supported USB?
9 A I don't.
10 Q Do you have the '346 in front of you?
11 A I do.
12 Q See Claim 10?
13 A I do.
14 Q What's an "endpoint" in the context of the '346?
15 A Okay. They had something on claim construction
16 around endpoints. Let me see. Paragraph 93 of
17 Exhibit 1002.
18 Q In which?
19 A Exhibit 1002 -- the '346.
20 So it's... the opening declaration quotes the
21 '346 patent from column 9, lines 11 through 18.
22 "Endpoints can be described as data sources or
23 syncs and are defined for USB devices which can be
24 physical devices or virtual devices and the present
25 invention endpoint should be interpreted broadly as data

1 sources or syncs. Hence data can be stored at an endpoint
2 or omitted and an endpoint can act as a kind of buffer can
3 be defined for physical devices or virtual devices."
4 Q In Claim 10 of the '346, where is that endpoint
5 presented?
6 A I don't see, in Claim 10, a requirement for it to
7 be presented. I don't see the word "presented" in
8 Claim 10. That's in the dependent limitation, I guess. I
9 can look in the independent limitation Claim 1 and see if
10 it's presented there.
11 Claim 1... about line 25 of column 26 says,
12 "Wherein the client software and the driver when executed
13 on the processing device are configured to present at
14 least one functional device to the operating system of the
15 processing device as a virtual functional device."
16 So I guess if you're asking about Claim 10, which
17 encompasses those limitations.
18 Q It would be the processing device?
19 A It would be -- well, I hesitated because I wasn't
20 sure if you're asking about the functional device being
21 presented to the operating system. If that's what you
22 were, then the virtual functional device gets presented to
23 the operating system.
24 MR. HALVERSON: Want to give me two minutes to
25 skim through my notes? I think I might be done.

1 MR. GREENLEAF: Okay.
2 THE STENOGRAPHER: Off the record at 11:47 a.m.
3 (Off the record.)
4 THE STENOGRAPHER: Back on the record at
5 11:49 a.m.
6 MR. HALVERSON: Dr. Almeroth, pending anything
7 from Mr. Greenleaf, that's it for me today. Appreciate
8 your time.
9 THE WITNESS: Thank you.
10 MR. GREENLEAF: No questions.
11 THE STENOGRAPHER: Off the record at 11:49 a.m.
12 (Time noted 11:49 a.m.)
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1 I, JUSTYNE N. JOHNSON Certified Reporter and Notary
2 Public within and for the State of California do hereby
3 certify:
4 That KEVIN C. ALMEROTH, PH.D., the witness
5 whose deposition is hereinbefore set forth, was duly sworn
6 by me before the commencement of such deposition and that
7 such deposition was taken before me and is a true record
8 of the testimony given by such witness.
9 I further certify that the adverse party,
10 YEALINK (US) TECHNOLOGY CO., LTD., was represented by
11 counsel at the deposition.
12 I further certify that the deposition of
13 KEVIN C. ALMEROTH, PH.D., occurred at the Hilton Santa
14 Barbara Beachfront Resort, located at 633 West Cabrillo
15 Boulevard, on Thursday, May 14, 2026, commencing at
16 9:58 a.m. to 11:49 a.m.
17 I further certify that I am not related to
18 any of the parties to this action by blood or marriage, I
19 am not employed to any of the parties to this action, and
20 that I am in no way interested, financially or otherwise,
21 in the outcome of this matter.
22 IN WITNESS WHEREOF, I have hereunto set my
23 hand this 14th day of May, 2026.
24 My commission expires: October 31, 2026
25
Justyne Johnson

A
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