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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 IPR2025-00598

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DEPOSITION OF  
KEVIN C. ALMEROOTH, PH.D.  
SANTA BARBARA, CALIFORNIA  
MONDAY, DECEMBER 15, 2025

Reported by: Aileen Neitzert, CSR No. 5318  
Job No.: 611500

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YEALINK NETWORK TECHNOLOGY )  
CO., LTD., ) Case IPR2025-00598  
Petitioners, )  
vs. )  
BARCO N.V., )  
Patent Owner. )

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DEPOSITION OF KEVIN C. ALMEROOTH, PH.D.,  
taken on behalf of the Patent Owner, at 1111 East  
Cabrillo Boulevard, Santa Barbara, California,  
beginning at 8:56 a.m., on Monday,  
December 15, 2025, before Aileen Neitzert,  
Certified Shorthand Reporter No. 5318.

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23  
24  
25

INDEX

PAGE

EXAMINATION BY MR. ANDREWS

5

EXHIBITS

PAGE

1001 United States Patent No. 11,966,347

6

1002 Declaration of Kevin C. Almeroth, Ph.D.,  
in Support of Petition for Inter Partes  
Review of U.S. Patent No. 11,996,347

5

1006 United States Patent No. 8,369,498

19

(Exhibits are not attached)

1 Monday, December 15, 2025; 8:56 a.m.

2 Santa Barbara, California

3 - - -

4 THE REPORTER: My name is Aileen Neitzert.

5 My California CSR number is 5318.

6 KEVIN C. ALMEROOTH, PH.D.,

7 having first been duly sworn by the reporter,

8 was examined and testified as follows:

9 EXAMINATION

10 BY MR. ANDREWS:

11 Q. Good morning.

12 A. Good morning.

13 (Exhibit 1002 was previously marked for  
14 identification.)

15 BY MR. ANDREWS:

16 Q. So I'm going to first hand you  
17 Exhibit 1002 in this matter. Do you recognize  
18 this document?

19 A. I do.

20 Q. What is it?

21 A. It is my declaration in this IPR, which is  
22 for the '347 patent.

23 Q. When did you last review the declaration?

24 A. This morning.

25 Q. When reviewing the declaration, did you

1 identify any substantive errors?

2 A. I didn't see anything.

3 (Exhibit 1001 was previously marked for  
4 identification.)

5 BY MR. ANDREWS:

6 Q. I'm also handing you Exhibit 1001. Do you  
7 recognize this document?

8 A. I do.

9 Q. What is it?

10 A. It's the '347 patent, the one at issue in  
11 this IPR.

12 Q. Can you turn to claim 1 of the '347  
13 patent.

14 A. I'm there.

15 Q. So my understanding is that you have  
16 applied certain claim constructions to the terms  
17 of the '347 patent, and then if no claim  
18 construction was specifically identified for a  
19 term, you applied the plain and ordinary meaning  
20 as understood by a person of skill in the art at  
21 the time of filing?

22 A. I believe that is correct. You said time  
23 of filing. Paragraph 67 says it's around  
24 December 17th, 2017. And I did apply the claim  
25 constructions as identified in section 7 or, as

1 you indicated, the plain and ordinary meaning.

2 And I think there's a statement in there that says  
3 my opinions would hold even under any reasonable  
4 interpretation of the claim language.

5 Q. Do you see the limit -- the claim term  
6 "first video data" in claim 1?

7 A. As part of the functional device element?

8 Q. Yes.

9 A. Yes, I see that.

10 Q. What is the first video data?

11 A. My recollection is it's the data that goes  
12 from the camera to the base unit. Give me a  
13 second. I'll find that element. And I guess in  
14 answering that question, I was thinking in the  
15 context of the prior art grounds, but your  
16 question didn't actually provide that context.  
17 That's what I had in mind in terms of what was in  
18 the prior art. Beyond the prior art, since you  
19 didn't specifically ask about it, it would really  
20 just be whatever would constitute video data that  
21 would be received by a base unit or captured by  
22 the base unit.

23 Q. And earlier in that answer, you mentioned  
24 a camera. Is that camera an example of a  
25 functional device?

1           A.    It is an example of a functional device.  
2    Again, there wasn't much context there, so it  
3    could be an example of a functional device  
4    identified in the '347 patent.  I think it has  
5    examples there.  I think there was also camera as  
6    examples in both -- primary references of both --  
7    of both grounds or of all four grounds,  
8    considering that Christison is included or not  
9    included.

10          Q.    Are there other types of functional  
11    devices that can be configured to share video  
12    data?

13          A.    Now I will need clarification on the  
14    context as to whether or not you're referencing --  
15    and what could be within scope of the claims,  
16    what's described in the specification, what's in  
17    the prior art, what would be understood by a  
18    person of skill in the art.  So I'd need some more  
19    context for that question.

20          Q.    Do you identify other functional devices  
21    being configured for first video data to flow into  
22    the base unit in your declaration beyond the  
23    camera you referenced?

24          A.    I believe one paragraph -- so at least --  
25    let me start over.

1           At least for the Beel plus Dinka  
2 references, with or without Christison, it  
3 mentions cameras in paragraph 122, and then in  
4 paragraph 123, it also mentions a whiteboard. And  
5 that's an example of where you can have a camera  
6 pointed at a whiteboard. There are also types of  
7 whiteboards that existed as of the 2017 date which  
8 would convert basically what was being written on  
9 it into video data as another example of types of  
10 data that could be video. And I can check on the  
11 Van de Laar and Kaplan references.

12       Q.    I think we are okay. I don't think that's  
13 necessary.

14       A.    Okay.

15       Q.    Do you see in -- again, in claim 1 of the  
16 '347 patent -- the first process video data?

17       A.    I see that.

18       Q.    What is the relationship between the first  
19 video data and the first process video data?

20       A.    Again, I need some context for the  
21 question. I guess you're asking me in the context  
22 of requirements of the claim?

23       Q.    Yes.

24       A.    Okay. It says the first video data being  
25 processed in the base unit to generate the first

1 processed video data, so that would establish what  
2 the relationship between the two is. One is  
3 preprocessing as claimed and one is post  
4 processing as claimed.

5 Q. And where is the processing occurring?

6 A. It says it's processed in the base unit.

7 Q. And the claim later reads the first  
8 processed video data is sent to the first  
9 peripheral device, correct?

10 A. It does.

11 Q. And the peripheral -- the first peripheral  
12 device is, for example, the dongle you've been  
13 referring to in these proceedings, correct?

14 A. As an example, I think that's correct.

15 Q. And the first peripheral device generates  
16 the second video data?

17 A. It does generate the second video data.

18 Q. And that second video data is then made  
19 available to the processing device?

20 A. Generally speaking. The language is a  
21 little bit more specific in terms of what needs to  
22 be done, but ultimately, I think that video data  
23 would be made available or passed to some part of  
24 the processing system.

25 Q. And then that data goes to the host

1 application or a third-party application?

2 A. I think the language is to make it  
3 available. I could envision a prior art reference  
4 disclosing -- actually transmitting that video as  
5 an example of it having been made available.

6 Q. Do you identify any example of third-party  
7 applications in your declaration?

8 A. I believe I do.

9 Q. What is one example?

10 A. I believe Skype is used as an example in  
11 both grounds.

12 Q. Can you please turn to paragraph 109 of  
13 your declaration.

14 A. I'm there.

15 Q. In paragraph 109, you identify a client  
16 application which has the same apparent  
17 functionality as the host application. Is there  
18 any clarification as to what that apparent  
19 functionality is?

20 A. So I would disagree with the premise of  
21 your question. I think I pointed to an example of  
22 a client application. As disclosed in Beel, that  
23 would be sufficient to meet the requirements of  
24 having a host application. And so the client  
25 application in Beel, in particular the idea that

1 it would be a screen-scraping application would be  
2 sufficient to meet the host application  
3 requirement of at least claim 1 and then the  
4 parallel the corresponding other independent  
5 claims.

6 Q. What do you mean to meet the host  
7 application requirements? In other words, what is  
8 the requirement of the host application?

9 A. Well, further into the element that we  
10 were talking about earlier, it talks about the  
11 second video data that's captured being made  
12 available through a customer standard driver to  
13 either the host application or a third-party  
14 application running on the processing device or to  
15 other processing devices.

16 So the host application, as it's  
17 identified in paragraph 109, traces back to the  
18 processing device limitation, where there it just  
19 required having a host application. So the  
20 requirements, at least that we've looked at so  
21 far, include that the host application be on the  
22 processing device or the processing device having  
23 a host application, and then that host  
24 application, in at least one option in claim 1,  
25 can be the target for second video data that can

1 be made available to it.

2 As to whether or not there are any other  
3 requirements of the host application in other  
4 limitations, I'd have to go through and look. In  
5 fact, at line 45 of column 26, it talks about  
6 third video data received from the host  
7 application, and then it goes on from there.

8 So to answer your question, generally, I  
9 would look through the claim to see where the host  
10 application is identified, and those would form  
11 the requirements of the host application as set  
12 forth in claim 1.

13 Q. You referenced third video data. The  
14 third video data is received from where in  
15 claim 1?

16 A. From the host application and/or from the  
17 third-party application running on the processing  
18 device.

19 Q. And this third video data is received by  
20 the peripheral device, correct?

21 A. It's what it says, "the first peripheral  
22 device receiving the third video data."

23 Q. And the peripheral device processes the  
24 third video data to form a second processed video  
25 data?

1 A. That's what the claim language says.

2 Q. The claim also says that this second  
3 processed data is decoded and/or enhanced and  
4 forwarded to the functional -- to a functional  
5 device. I'm paraphrasing there, but do you see  
6 that?

7 A. I do.

8 Q. So the -- a functional device that the  
9 data is forwarded to, is that the same functional  
10 device or a separate functional device than the  
11 one that sends the first video data?

12 A. Your question wasn't clear on context  
13 again. I'm -- I will assume that you're referring  
14 to requirements of claim 1, and you can correct me  
15 if I'm not correct in my assumption.

16 It says "to a functional device." It  
17 doesn't say to the functional device. Therefore,  
18 based on antecedent basis, it doesn't need to be  
19 the same functional device as identified earlier.

20 Q. In your declaration, you present two  
21 different grounds, correct?

22 A. Two different grounds -- at least two  
23 different grounds. It's the same two base  
24 references, and then there's a third and fourth  
25 ground with or without Christison.

1 Q. Would you characterize both of these  
2 grounds or all four of these grounds as  
3 obviousness grounds?

4 A. I would. I don't think either of them  
5 rise to the level of being anticipation or meet  
6 the requirements for anticipation. It's not how  
7 the P tab represented what the grounds were in the  
8 institution decision, so I don't think they're  
9 anticipation.

10 Q. Can you turn to paragraph 103 in your  
11 declaration.

12 A. I'm there.

13 Q. In the last sentence of paragraph 103, you  
14 indicate, "The combination of these teachings  
15 would yield the predictable result of a  
16 bidirectional web conferencing system employing  
17 software, such as Skype, for hosting unified  
18 communication calls while also utilizing one or  
19 more functional device's capabilities," correct?

20 A. That's what it said, yes.

21 Q. What devices in this combination are  
22 participating in the Skype call?

23 A. So your question is a little bit vague, so  
24 let me run through the different types of devices.  
25 So the claim talks about -- well, sorry. The

1 sentence talks about functional devices. As used  
2 here and in the claim, that would be things like  
3 cameras, projectors, microphones, speakers, both  
4 as separate devices or could be integrated into a  
5 TV, for example, basically all kinds of devices  
6 that could source or sync any of the different  
7 kinds of media.

8 Not specifically called a device in the  
9 context of this sentence, but your question seems  
10 to want a more complete answer about what the  
11 combination looks like. You would also have the  
12 processing devices. I could think of as --  
13 examples of those as being personal computers  
14 running Skype, as one example. And then there are  
15 also the peripheral devices. Those could be  
16 things like dongles, or they might be integrated,  
17 depending on whether or not that would meet  
18 requirements of the claim.

19 And then the claim also refers to base  
20 units. Those could also be kinds of devices;  
21 though, I think in this claim, they're not  
22 referred to as devices but certainly generically  
23 as devices. And there's examples of those both in  
24 Beel, and I believe there were also examples in  
25 Dinka, but I think we largely relied on Beel in

1 the IPR.

2 Those are the ones that come to mind.

3 Q. And so of those devices which come to  
4 mind, which one of those would be configured to  
5 run a unified communications call such as Skype?

6 A. So that would generally be the processing  
7 device. So the way I think about it or the way I  
8 think a person of skill in the art would think  
9 about it in the context of these references in the  
10 use of Skype is you would have a PC or a laptop or  
11 some sort of computer running Windows or macOS or  
12 any of the other common operating systems at the  
13 time. They would have downloaded Skype as  
14 software, and you could set up a Skype call among  
15 one or more other participants and they were going  
16 to have some sort of web meeting. Those  
17 devices -- sorry.

18 Those processing devices, those PCs or  
19 laptops, computing devices, would also connect  
20 either to a base station, or in some instances,  
21 they might also have speakers or microphones or  
22 cameras that have their own displays.

23 If there were external peripheral devices,  
24 for example, you were using a laptop in a room  
25 like this, you could connect through a dongle to a

1 base unit. In some cases, you could connect to a  
2 projector directly. There's lots of options for  
3 integrating those devices, but largely, I think,  
4 trying to be responsive to your question, it would  
5 be the laptop that would run the Skype software.

6 Q. Would the base unit run the Skype  
7 application?

8 A. So now it's unclear what your question is  
9 asking about in terms of context. I don't think  
10 it's a claim requirement. It's not what I've  
11 identified in the context of Beel plus Dinka. And  
12 so I don't -- I'm not sure if it's a -- could it  
13 question as a further hypothetical.

14 Q. Let me clarify. So in your combination of  
15 Beel plus Dinka, the base unit does not host the  
16 Skype call?

17 A. I don't believe I have a configuration of  
18 the prior art that includes the base unit running  
19 the Skype application.

20 Q. Can you turn to page 77 of your  
21 declaration.

22 A. I'm there.

23 Q. See you have a paragraph 129 that starts  
24 on page 77 and moves onto page 78?

25 A. I see that.

1 Q. And this paragraph block-quotes a passage  
2 from Dinka which refers to an I/O layer?

3 A. Yes.

4 Q. What is the I/O layer?

5 A. I/O would generally be input/output, and  
6 at least based on this paragraph, it would include  
7 at least the functionality of having a video  
8 engine that has a video codec. And that  
9 input/output layer, including the video engine,  
10 would be arranged to accept video signals from the  
11 webcam input into encode those video signals for  
12 your transmission over the internet via the  
13 network interface.

14 (Exhibit 1006 was previously marked for  
15 identification.)

16 BY MR. ANDREWS:

17 Q. I'm going to pass you Exhibit 1006 for  
18 your reference in case it is helpful. Do you  
19 recognize Exhibit 1006?

20 A. I do.

21 Q. This is Dinka, which we were just  
22 referring to, correct?

23 A. Yes.

24 Q. What element of Dinka has the I/O layer?

25 A. Your question is nonspecific in terms of

1 whether it's referencing Dinka standing on its own  
2 or Dinka as it's represented in the combination.

3 Q. Where is the I/O layer in Dinka standing  
4 on its own?

5 MR. GREENLEAF: Object. Vague.

6 THE WITNESS: So the first cite after that  
7 paragraph is column 9, lines 40 through 45.  
8 Working backwards up that column, it talks about  
9 the communication, "client application 330  
10 comprises a protocol stack having an I/O layer,"  
11 and that's about line 23 of column 9.

12 I suspect there is a figure that has 330  
13 in it, probably Figure 3a as one of the examples.  
14 I believe 3A is part of a TV embodiment. 3b also  
15 has an I/O layer. I think that is for other type  
16 of device embodiment.

17 Ultimately as for its location is an  
18 example I think what's shown here is it could be  
19 on a PC, for example.

20 BY MR. ANDREWS:

21 Q. And its location on a PC, which figure are  
22 you referring to for support for that conclusion?

23 A. 3b.

24 Q. Earlier you asked if -- for clarification  
25 as to whether I was asking for the location of the

1 I/O layer in Dinka or as Dinka is used in the  
2 combination, or something along those lines,  
3 correct?

4 A. Something along those lines.

5 Q. How does the location of the I/O layer  
6 differ in the combination than in Dinka standing  
7 alone?

8 A. Because the combination does not rely on  
9 the I/O layer of Dinka as specifically what's  
10 required by the element. If you work backwards  
11 from paragraph 129 -- this is under subsection  
12 k -- there it says the operating system of the  
13 processing device being configured to capture the  
14 second video data and to make it available through  
15 a customer standard driver to either the host  
16 application or a third-party application running  
17 on the processing device or other processing  
18 devices.

19 So there we're talking about the  
20 processing device of Beel. It's going to be  
21 configured to receive video data through a  
22 customer standard driver based on receiving it  
23 from the dongle or the peripheral device, and from  
24 there, it's going to be received either by a host  
25 application or a third-party application running

1 on the processing device or to other processing  
2 devices. And so that host application or the  
3 third-party application example would be Skype in  
4 that instance. And so it's the idea of running  
5 Skype on the operating system and processing  
6 device of Beel that would be what I've identified  
7 with respect to the third-party application of the  
8 "or."

9 In this context, there could also be a  
10 host application that would not be Skype that  
11 could also be running on the Beel processing  
12 system, and so the point of paragraph 129 shows  
13 that Dinka has an application that can receive  
14 video data and then send it out over the network,  
15 and so it's the application, really, that I'm  
16 relying on in the context of Dinka, not the  
17 specific hardware configuration as expressed in  
18 Figure 3b for a personal computer or 3a for a TV.

19 But also noteworthy is, as expressed in  
20 3b, the idea that you would have I/O layers  
21 communicating with a CPU and have a protocol stack  
22 used to communicate over a network where, like,  
23 the internet is pretty basic functionality in the  
24 context of being able to transmit varying media  
25 types over a network like the internet. And so

1 it'd also be something that, for example, would be  
2 part of Windows and other operating systems and  
3 would exist on a device like Beel.

4 Q. Dinka discloses that the I/O layer  
5 includes a video engine, correct?

6 A. It does.

7 Q. And the video engine accepts video signals  
8 from the webcam input 308?

9 A. I suspect that's one of the places it can  
10 accept input from. Again, not something I'm  
11 specifically relying on for the combination in  
12 terms of that specific path of video.

13 Q. I'll direct you back to paragraph 129 in  
14 your declaration.

15 A. Yes.

16 Q. So I was referring to the video engine  
17 recited in the block quote that starts on page 77  
18 and carries over to page 78.

19 A. Yes, I see that.

20 Q. And can you clarify what you mean when you  
21 say you're not specifically relying on that  
22 passage.

23 A. Sure. I'm not relying on the specific  
24 hardware configuration of the way that Dinka's  
25 personal computer is configured. It's says here

1 the "Dinka also explains how video data is made  
2 available to 'either the host application or a 3rd  
3 party application," essentially to show the  
4 parallels between Beel and Dinka in the sense of  
5 how data would flow to an application and then  
6 ultimately be provided over a network, assuming  
7 it's a third-party application that would provide  
8 internet-based web meetings or group conferencing  
9 like Skype.

10 I'm not relying on the specific hardware  
11 of Dinka to do that. It doesn't say based on the  
12 citation to column 9, line 40 through 45, that  
13 it's relying on those specific layers within  
14 Dinka. Beel is perfectly sufficient to provide  
15 data from the peripheral device to either a host  
16 application or a third-party application, and then  
17 that path is what's described in paragraph 128.

18 It tends to be very similar to what Dinka  
19 discloses in a common computer infrastructure or  
20 architecture and operating system behavior for a  
21 personal computer. But when you get into the  
22 specificity of the I/O layer and numbered boxes,  
23 again, that's -- that aspect of what's described  
24 in Dinka is not what is being integrated into the  
25 combination. It's more the flow of information

1 through Beel and into Skype, for example, as it's  
2 disclosed in Dinka.

3 Q. And so the flow of the signal in Dinka is  
4 from the webcam input?

5 A. I think in this particular citation, that  
6 will be the case. My recollection of Dinka is  
7 it's not so limited to limit the sources of video  
8 and audio to just a webcam example. So my  
9 recollection is Dinka, beyond this cite, was more  
10 general in terms of characterizing its sources of  
11 video data ultimately for processing and delivery  
12 over a network, including, for example, the  
13 internet.

14 Q. And the webcam 308, is that integrated  
15 into the example television or example personal  
16 computer, referring to figures 3a and 3b?

17 A. It's unclear if your question is asking  
18 whether or not the disclosures in Dinka limit the  
19 webcam 308 to be integrated into 103 or 102. I  
20 can certainly see -- again, it's not my  
21 recollection that relying on the webcam  
22 specifically is the only source of video signals  
23 that can be received within the combination.

24 So, ultimately, I don't know if you want  
25 me to look and confirm whether or not I think

1 Dinka would be limited to video input on a webcam,  
2 despite the fact that it's not something I believe  
3 a person of skill in the art would rely on in the  
4 combination -- to limit the combination.

5 Q. So a person of skill in the art would not  
6 refer to the source of the data when determining  
7 the flow of the data?

8 A. No, that's not what I said.

9 Q. Can you please clarify what a person of  
10 skill in the art would take away from that cited  
11 passage.

12 A. Sure. So really it's the idea that Dinka  
13 explains how video data is made available to the  
14 host application or a third-party application  
15 running on the processing device or two other  
16 processing devices.

17 So in the context of Beel, you have all of  
18 the other part of the combination of where video  
19 data can be provided to the base unit and then to  
20 a peripheral device and then to the processing  
21 device. And where Dinka adds is based on it being  
22 provided to the processing device in the manner  
23 identified within Beel, what then becomes the  
24 destination of that information. And a person of  
25 skill in the art would recognize that it could be

1 post -- passed to a host application for, say,  
2 display on the display of the computing device or  
3 the processing device or it could be provided to  
4 an application that would then transmit it over a  
5 network like what would happen in Skype.

6 Skype is -- as a tool, it could quite  
7 easily accept video input from a number of  
8 different sources -- external cameras, webcams,  
9 screen-scrape data -- and deliver that over a  
10 network to other processing devices, and then  
11 that's the aspect of what I'm relying on in this  
12 citation from Dinka, is the idea that it teaches  
13 receiving video data and being able to encode it  
14 for transmission over the internet.

15 So the functionality here identifies that  
16 however the video data could be provided to, in  
17 this case, Skype or generally to an application,  
18 that data could be processed and prepared for  
19 delivery over a network like the internet, which  
20 might involve some additional transcoding or  
21 encoding, decoding and then encoding, or it could  
22 also include processing steps like packetizing it  
23 and preparing it for delivery over a network  
24 interface.

25 And so the specific aspects that I'm

1 relying on, or I think a person of skill in the  
2 art would rely on, from column 9, lines 40  
3 through 45, is the idea that data can be received  
4 from a number of different sources. As one  
5 example, it could be a webcam. That data could  
6 come in a variety of different formats. And even  
7 relying on this aspect of Dinka, it could be  
8 further processed by a video engine or it could  
9 already be in a format that the application could  
10 handle and then would go through and continue to  
11 do processing in order to send it over a network  
12 like the internet, which is something that Skype  
13 does.

14 MR. ANDREWS: Why don't we take a short  
15 break.

16 THE WITNESS: Okay.

17 (Break taken from 9:48 a.m. to 10:04 a.m.)

18 BY MR. ANDREWS:

19 Q. Do you recall last Friday when we  
20 discussed Miracast?

21 A. Yes.

22 Q. What hardware components are usually  
23 involved in communicating via Miracast?

24 A. I thought there was some discussion of  
25 that. I'll just search through the declaration

1 for Miracast.

2 It shows up in a couple places. This is  
3 on the other combination in paragraph 227 of the  
4 declaration.

5 Okay. Could you re-ask the question,  
6 please.

7 Q. Yes. I was asking what hardware  
8 components are usually involved in communications  
9 via Miracast.

10 A. Okay. So, in general, outside the scope  
11 of these particular declarations, usually there's  
12 a source and a sync from Miracast. On the source  
13 side, in terms of hardware, it's going to be  
14 whatever the device is. Obviously not all of the  
15 components will be necessary to support Miracast,  
16 but processing, memory, network communication,  
17 network communication drivers -- some of those  
18 aren't hardware specifically, but in general, all  
19 of the hardware for network communications and  
20 operating the device, CPU, memory, bus. And then  
21 in terms of how the screen-scraping or ^  
22 mirroring of the display is done, there might be  
23 additional hardware, but my recollection is it can  
24 also generally be done in software. So then it's  
25 just the hardware components to execute the

1 software.

2 Q. You mentioned the network communication  
3 elements, so would that be the integrated Wi-Fi or  
4 Bluetooth transmitters or transceivers?

5 A. Again, there isn't context to that  
6 question, so you could imagine a system that  
7 implemented Miracast where it could use a variety  
8 of different network connections. My recollection  
9 of Miracast is it's not limited to an underlying  
10 network delivery medium in terms of even RF or --  
11 and, then, I don't believe Miracast is even  
12 limited with respect to whether or not it's  
13 Bluetooth or Wi-Fi, for example.

14 In common implementations, I think it's  
15 usually one of those two protocols, but I'm not  
16 sure if the question is a hypothetical about what  
17 you could run Miracast over or not.

18 Q. Could you run Miracast over a wired  
19 connection?

20 A. So that sounds like a hypothetical. I  
21 don't see any reason why somebody could not run  
22 Miracast over a wired connection. I think you  
23 could certainly build a -- build a system where  
24 you could.

25 Q. In the context of your ground 2

1 combination, what medium is Miracast communicating  
2 over?

3 A. I don't recall that it mattered. I don't  
4 recall that it mattered. Let me pull up the  
5 patent and see if, for example, it mentions  
6 anything like wireless in claim 1 of the '347.

7 It shows up in a couple of the dependent  
8 claims, so let me see if I've addressed it there.  
9 I think where it matters to any of the claims, 6,  
10 9, 18, and 23, there are different aspects of  
11 links that have wireless in them. And it's not  
12 all the same link. In those instances, it would  
13 be wireless. In other instances, I don't think it  
14 matters to the claim. So it could be wired or it  
15 could be wireless. Where -- again, where I think  
16 it matters, I think I've addressed it in the  
17 declaration.

18 Q. And to clarify, for claims 6, 9, 18, and  
19 23, that would be wireless link, but then it is  
20 not disclosed for the other claims?

21 A. Wireless appears in 6, 9, 18, and 23. To  
22 my recollection, it doesn't matter for the other  
23 claims because they don't use wireless, and so it  
24 wouldn't have been a focus of what I identified.

25 Now, in some cases, for example, in 227,

1 it cites to a Wi-Fi Miracast even though the claim  
2 language doesn't limit it to being wireless versus  
3 not. But certainly it could be wireless,  
4 especially in the context of, for example, if  
5 you're using USB, wireless USB, as an example, or  
6 Bluetooth, or Wi-Fi.

7 Q. What's a Wi-Fi Direct network?

8 A. Wi-Fi Direct is usually where two devices  
9 are communicating with each other in a mode that  
10 does not require an access point.

11 Q. So in the ground 2 combination, what  
12 network elements host the Skype call?

13 A. Let me look for "processing device" first,  
14 if it shows up in claim 1. So it would at least  
15 be on the dockee's. And let me check one thing to  
16 make sure there isn't some additional hosting set  
17 forth.

18 Paragraph 237 has a callout from Van de  
19 Laar that talks about the WDH as being able to  
20 receive provided input, and it says, "This may be  
21 based on...", and then there's a list, and Skype  
22 is included there.

23 Your question was about hosting a call?  
24 That's primarily going to be on the dock ee, but  
25 there might be additional Skype software on the

1 base unit to facilitate communication with that  
2 WDH in the context where it's using Skype across  
3 the link between the dockee and the WDH.

4 Q. So while the WDH might not be hosting the  
5 Skype call, it will still be participating in the  
6 Skype call?

7 A. "Hosting" and "participating" are a bit  
8 vague. Again, I sort of think about Skype as  
9 running on a laptop in these examples, just like,  
10 say, a Zoom software or a Microsoft meeting  
11 software would work like, and yet they could  
12 communicate -- Skype could have sort of a remote  
13 unit or a base unit in the parlance of the claim  
14 where it's providing additional support for the  
15 Skype software running on the -- on the PC or the  
16 laptop or mobile device in terms of providing some  
17 sort of remote control or coordination, an  
18 extender unit of some sort, something that would  
19 similarly be applied to the combination in the  
20 first ground in terms of having support software  
21 running on the base unit.

22 Q. So would the wide network area access  
23 necessary for the Skype communications be from the  
24 wireless docking host or from the dockee?

25 A. If your question is asking about how the

1 Skype participants would communicate with each  
2 other, my first recollection is it would be those  
3 dockees that would be communicating with each  
4 other, and that communication would happen over  
5 the network, like the internet.

6 My recollection of the ground was not that  
7 the communication would go through the WDH, so  
8 Skype to WDH, WDH to either other WDHs or to  
9 another Skype instance. But I don't recall if  
10 there was some consideration for that as a  
11 possible communication path expressed in the  
12 declaration.

13 Q. So to clarify, your recollection is that  
14 the network communications for Skype would come  
15 through the dockees and not through the WDH?

16 A. And, again, one of the options, I think,  
17 is for there to be Skype extender software as an  
18 example of what provides the communication between  
19 the WDH and the dockee, but that would largely be  
20 to get video from the functional devices to the  
21 dockee through the WDH, and then between the  
22 dockees, they would have essentially an internet  
23 web meeting, as an example.

24 Q. And what dockee devices would be  
25 participating in the call?

1           A.    Again, in the context of the combination,  
2           independent of whether or not it -- with  
3           consideration for the claim, as an example,  
4           paragraph 218 says there are multiple dockee  
5           devices, and then in parentheses, it says such as  
6           smart phones, laptops, or tablets. It's an  
7           open-ended list of what dockee devices could be.  
8           Smart phones, laptops, tablets are examples,  
9           personal computers, as an open-ended list. I  
10          don't know that there would be much of a  
11          prohibition in terms of the types of devices as  
12          long as they could meet the requirements of the  
13          claim.

14          Q.    And separate and aside from those types of  
15          devices, to communicate based on Van de Laar,  
16          would each dockee in its system need to be  
17          participating in the Skype call?

18          A.    It's somewhat of an incomplete  
19          hypothetical both in terms of its characterization  
20          of the scenario and then ultimately what the  
21          objective is that you're testing for. I would  
22          have expected, as part of that question, to hear  
23          and be considered part of the Skype call or part  
24          of the system.

25                I think the way that Van de Laar is set

1 up, there can be all manner of dockees.  
2 Consistent with the discussion last Friday, you  
3 can have dockees that are both controlling devices  
4 in terms of sourcing or syncing data, and I think  
5 Van de Laar calls those primary dockees. They can  
6 also simultaneously be secondary dockees because  
7 they're receiving content sourced from potentially  
8 ^ in the combination and other Skype participants  
9 or receiving multimedia from the WDH as being  
10 controlled by some other participant or dockee.

11 Q. So in the context of ground 2 as applied  
12 to the claims of the '347 patent, are the primary  
13 dockees participating in the Skype call, the  
14 secondary dockees participating in the Skype call,  
15 or are both participating in the Skype call?

16 A. The context of that question implies that  
17 a dockee is either a primary or a secondary but  
18 couldn't be both at the same time. I disagree  
19 with that premise, as articulated last week, and  
20 it applies today as well in the sense of what a  
21 primary dockee is and what a second dockee is.  
22 And you could have a Skype participant where it is  
23 the primary for some content sources or syncs and  
24 a secondary for other content sources and syncs.

25 In the context of a Skype call, one dockee

1 might be a primary for its own camera and  
2 microphone and a secondary for other participants'  
3 cameras and microphones, and so a Skype  
4 participant is both primary for some sources and  
5 syncs and a secondary for other sources and syncs.

6 Q. And so in that example, you indicated that  
7 the dockees in that communication example are both  
8 participating in the Skype call, correct?

9 A. I can envision a scenario where they're  
10 both part of the same Skype call or web meeting or  
11 group conference.

12 Q. Can you envision a scenario where multiple  
13 dockees are involved but only one is participating  
14 in the Skype call?

15 MR. GREENLEAF: Objection. Vague.

16 THE WITNESS: "Participating" is vague.  
17 If you can rephrase, that would be helpful.  
18 Otherwise, I can try to intuit what you were  
19 asking.

20 BY MR. ANDREWS:

21 Q. So in the system which you referenced  
22 where there -- scratch that.

23 So as described in the combination where  
24 there are multiple dockee devices used, is there a  
25 scenario where only one is participating in the

1 Skype call?

2 A. My challenge in understanding your  
3 question is what it means to be participating.  
4 That could have a lot of different meanings, so  
5 I'm not sure which one you're asking about.

6 Q. Have you used Skype before?

7 A. I have.

8 Q. And in Skype, there is a video or an image  
9 if the user is not sharing the video for each user  
10 connected with their personal device, correct?

11 A. Depends on the version, but I think by at  
12 least the priority date, you could certainly have  
13 for individuals not sharing video just a still of  
14 that person.

15 Q. So in the combination, as set forth in  
16 your declaration, would each dockee have their own  
17 video or image when not sharing video?

18 A. As contemplated by the combination, I  
19 don't think it would be limited to that kind of  
20 scenario. I think each -- each participant could  
21 have their own video. There would at least be  
22 multiple participants, each sharing video.

23 In terms of hypotheticals for how many  
24 individuals there could be and what they were  
25 sharing or not sharing, certainly there are

1 different ways in which group calls could be set  
2 up that would follow kind of expected patterns,  
3 some plurality of participants, some number of  
4 which are on mute versus not, some number who are  
5 sharing video and others not. Screen sharing may  
6 be active. It may switch between participants.  
7 And there might be other modes of communication in  
8 use supported through Skype, you know, things like  
9 Chat. There could be other software applications  
10 running in support of a meeting.

11 I think when you start talking about Skype  
12 and unified communication more generally, you get  
13 into an area of a fairly well-understood  
14 videoconferencing, group meetings, presentations  
15 that would have been known to a person of skill in  
16 the art by at least 2017. That's a fairly recent  
17 date.

18 Q. So to clarify, the combination for  
19 ground 2 does not specifically set forth whether  
20 each doctee is participating in the Skype call or  
21 if only one doctee is participating in the Skype  
22 call?

23 MR. GREENLEAF: Objection to form.

24 THE WITNESS: I don't think that's  
25 accurate. I think the declaration goes through

1 what the -- what the disclosures are about the use  
2 of Skype and what would be sufficient to teach or  
3 disclose the elements of the claim.

4 Your question seemed to go more to a  
5 hypothetical in terms of what kinds of scenarios  
6 could exist that would potentially overlap with  
7 the requirements of the claim.

8 BY MR. ANDREWS:

9 Q. So if the ground 2 combination does set  
10 forth whether each dockee is participating in the  
11 Skype call or only one dockee is participating in  
12 the Skype call, which of those two scenarios is  
13 it?

14 A. I don't know that one particular scenario  
15 matters to the claim or not. You'd have to point  
16 me to some element where you thought it was  
17 relevant, whether it was the first scenario or the  
18 second, and I could see if there was some  
19 disclosure as to how that would operate.

20 I don't see something, looking at claim 1,  
21 for example, that requires anything specific from  
22 the second processing device. It's largely the  
23 processing device, functional device, base unit,  
24 peripheral device, and how they're connected  
25 together to ultimately source or sync content to a

1 host application or a third-party application  
2 without specifying requirements as to what another  
3 processing device would need to be configured to  
4 do.

5 But if I'm -- if I'm missing some part of  
6 the claim or there's another claim beyond claim 1  
7 that identifies some additional requirement, you  
8 can point it out to me, and I can then go to that  
9 claim for the -- in the declaration, and we can  
10 talk about that particular claim.

11 MR. ANDREWS: So I'm going to take like a  
12 five-minute break to go over my notes, but -- just  
13 to check and make sure I got everything.

14 THE WITNESS: Sure.

15 (Break taken from 10:38 a.m. to 10:45 a.m.)

16 MR. ANDREWS: So no further questions.

17 THE WITNESS: Okay.

18 MR. GREENLEAF: No questions from me.

19 THE REPORTER: Do either of you want a  
20 rough of the transcript?

21 MR. ANDREWS: A rough would be great.

22 MR. GREENLEAF: Sure.

23 MR. HALVERSON: And then a final by  
24 Monday, so five business days?

25 THE REPORTER: Okay. Sure.

1 MR HALVERSON: Thanks.  
2 (Ending time: 10:47 a.m.)  
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1 STATE OF CALIFORNIA )  
2 COUNTY OF LOS ANGELES ) SS.

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4

5 I, KEVIN C. ALMEROOTH, PH.D., hereby  
6 certify under penalty of perjury under the laws of  
7 the State of California that the foregoing is true  
8 and correct.

9 Executed this \_\_\_\_\_ day of

10

11 \_\_\_\_\_  
12 202\_\_, at \_\_\_\_\_, California.

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KEVIN C. ALMEROOTH, PH.D.

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1 STATE OF CALIFORNIA )  
2 COUNTY OF LOS ANGELES )

3

4 I, AILEEN NEITZERT, do hereby certify:

5

6 That I am a duly qualified Certified  
7 Shorthand Reporter, in and for the State of  
8 California, holder of certificate number 5318,  
9 which is in full force and effect, and that I am  
10 authorized to administer oaths and affirmations;

11 That the foregoing deposition testimony of  
12 the herein named witness was taken before me at  
13 the time and place herein set forth;

14 That prior to being examined, the witness  
15 named in the foregoing deposition, was duly sworn  
16 or affirmed by me, to testify the truth, the whole  
17 truth, and nothing but the truth;

18 That the testimony of the witness and all  
19 objections made at the time of the examination  
20 were recorded stenographically by me and were  
21 thereafter transcribed under my direction and  
22 supervision;

23 That the foregoing pages contain a full,  
24 true, and accurate record of the proceedings and  
25 testimony to the best of my skill and ability;

1 I further certify that I am not a relative  
2 or employee or attorney or counsel of any of the  
3 parties, nor am I financially interested in the  
4 outcome of this action.

5

6 IN WITNESS WHEREOF, I have subscribed my  
7 name this 22nd day of December, 2025.

8

9

*Aileen Neitzert*

10

AILEEN NEITZERT, CSR NO. 5318

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A			
<b>ability</b>	44:26	<b>affirmed</b>	28:14, 28:18,
<b>able</b>	22:24, 27:13,	<b>after</b>	37:20, 40:8,
<b>about</b>	32:19	<b>again</b>	41:11, 41:16,
7:19, 12:10,		<b>agains@klgates</b>	41:21
13:5, 15:25,		<b>angeles</b>	3:17
16:1, 16:10,		<b>another</b>	43:3, 44:3
17:7, 17:9,		<b>answer</b>	9:9, 34:9,
18:9, 20:8,		<b>answering</b>	41:2, 41:6
20:11, 21:19,		<b>antecedent</b>	<b>answer</b>
30:16, 32:19,		7:14	7:23, 13:8,
32:23, 33:8,		<b>anticipation</b>	16:10
33:25, 38:5,		15:5, 15:6,	<b>applications</b>
39:11, 40:1,		15:9	11:7, 39:9
41:10		<b>any</b>	<b>applied</b>
<b>accept</b>	19:10, 23:10,	6:1, 7:3, 11:6,	6:16, 6:19,
27:7		11:18, 13:2,	33:19, 36:11
<b>accepts</b>	23:7	16:6, 17:12,	<b>applies</b>
<b>access</b>	32:10, 33:22	30:21, 31:9,	36:20
<b>accurate</b>	39:25, 44:25	45:2	<b>apply</b>
<b>across</b>	33:2	<b>anything</b>	6:24
<b>action</b>	45:4	6:2, 31:6,	<b>architecture</b>
<b>active</b>	39:6	40:21	24:20
<b>actually</b>	7:16, 11:4	<b>apparent</b>	<b>area</b>
<b>additional</b>	27:20, 29:23,	11:16, 11:18	33:22, 39:13
32:16, 32:25,		<b>appeal</b>	<b>aren't</b>
33:14, 41:7		1:2, 2:2	29:18
<b>addressed</b>	31:8, 31:16	<b>appearances</b>	<b>around</b>
<b>adds</b>	26:21	3:1	6:23
<b>administer</b>	44:11	<b>appears</b>	<b>arranged</b>
<b>affirmations</b>	44:11	31:21	19:10
		<b>application</b>	<b>art</b>
		11:1, 11:16,	6:20, 7:15,
		11:17, 11:22,	7:18, 8:17,
		11:24, 11:25,	8:18, 11:3,
		12:1, 12:2,	17:8, 18:18,
		12:7, 12:8,	26:3, 26:5,
		12:13, 12:14,	26:10, 26:25,
		12:16, 12:19,	28:2, 39:16
		12:21, 12:23,	<b>articulated</b>
		12:24, 13:3,	36:19
			<b>aside</b>
			35:14
			<b>asked</b>
			20:24
			<b>asking</b>
			9:21, 18:9,

<p>20:25, 25:17, 29:7, 33:25, 37:19, 38:5 <b>aspect</b> 24:23, 27:11, 28:7 <b>aspects</b> 27:25, 31:10 <b>assume</b> 14:13 <b>assuming</b> 24:6 <b>assumption</b> 14:15 <b>attached</b> 4:12 <b>attorney</b> 3:5, 3:13, 3:20, 45:2 <b>audio</b> 25:8 <b>authorized</b> 44:11 <b>available</b> 10:19, 10:23, 11:3, 11:5, 12:12, 13:1, 21:14, 24:2, 26:13 <b>away</b> 26:10</p> <hr/> <p style="text-align: center;"><b>B</b></p> <hr/> <p><b>back</b> 12:17, 23:13 <b>backwards</b> 20:8, 21:10 <b>barbara</b> 1:23, 2:23, 5:2 <b>barco</b> 1:13, 2:13 <b>base</b> 7:12, 7:21, 7:22, 8:22, 9:25, 10:6, 14:23, 16:19, 17:20, 18:1, 18:6, 18:15,</p>	<p>18:18, 26:19, 33:1, 33:13, 33:21, 40:23 <b>based</b> 14:18, 19:6, 21:22, 24:11, 26:21, 32:21, 35:15 <b>basic</b> 22:23 <b>basically</b> 9:8, 16:5 <b>basis</b> 14:18 <b>because</b> 21:8, 31:23, 36:6 <b>becomes</b> 26:23 <b>beel</b> 9:1, 11:22, 11:25, 16:24, 16:25, 18:11, 18:15, 21:20, 22:6, 22:11, 23:3, 24:4, 24:14, 25:1, 26:17, 26:23 <b>been</b> 5:7, 10:12, 11:5, 31:24, 39:15 <b>before</b> 1:2, 2:2, 2:25, 38:6, 44:13 <b>beginning</b> 2:24 <b>behalf</b> 2:22 <b>behavior</b> 24:20 <b>being</b> 8:21, 9:8, 9:24, 12:11, 15:5, 16:13, 21:13, 22:24, 24:24, 26:21, 27:13, 32:2,</p>	<p>32:19, 36:9, 44:15 <b>believe</b> 6:22, 8:24, 11:8, 11:10, 16:24, 18:17, 20:14, 26:2, 30:11 <b>best</b> 44:26 <b>between</b> 9:18, 10:2, 24:4, 33:3, 34:18, 34:21, 39:6 <b>beyond</b> 7:18, 8:22, 25:9, 41:6 <b>bidirectional</b> 15:16 <b>bit</b> 10:21, 15:23, 33:7 <b>block</b> 23:17 <b>block-quotes</b> 19:1 <b>bluetooth</b> 30:4, 30:13, 32:6 <b>board</b> 1:2, 2:2 <b>boston</b> 3:15 <b>both</b> 8:6, 8:7, 11:11, 15:1, 16:3, 16:23, 35:19, 36:3, 36:15, 36:18, 37:4, 37:7, 37:10 <b>boulevard</b> 2:23 <b>boxes</b> 24:22 <b>break</b> 28:15, 28:17,</p>	<p>41:12, 41:15 <b>build</b> 30:23 <b>bus</b> 29:20 <b>business</b> 41:24</p> <hr/> <p style="text-align: center;"><b>C</b></p> <hr/> <p><b>cabrillo</b> 2:23 <b>california</b> 1:23, 2:23, 3:22, 5:2, 5:5, 43:1, 43:8, 43:12, 44:1, 44:9 <b>call</b> 15:22, 17:5, 17:14, 18:16, 32:12, 32:23, 33:5, 33:6, 34:25, 35:17, 35:23, 36:13, 36:14, 36:15, 36:25, 37:8, 37:10, 37:14, 38:1, 39:20, 39:22, 40:11, 40:12 <b>called</b> 16:8 <b>callout</b> 32:18 <b>calls</b> 15:18, 36:5, 39:1 <b>camera</b> 7:12, 7:24, 8:5, 8:23, 9:5, 37:1 <b>cameras</b> 9:3, 16:3, 17:22, 27:8, 37:3 <b>capabilities</b> 15:19 <b>capture</b> 21:13</p>
---	---	---	---

<p><b>captured</b> 7:21, 12:11</p> <p><b>carries</b> 23:18</p> <p><b>case</b> 1:8, 2:8, 19:18, 25:6, 27:17</p> <p><b>cases</b> 18:1, 31:25</p> <p><b>center</b> 3:21</p> <p><b>certain</b> 6:16</p> <p><b>certainly</b> 16:22, 25:20, 30:23, 32:3, 38:12, 38:25</p> <p><b>certificate</b> 44:9</p> <p><b>certified</b> 2:26, 44:7</p> <p><b>certify</b> 43:7, 44:5, 45:1</p> <p><b>challenge</b> 38:2</p> <p><b>characterization</b> 35:19</p> <p><b>characterize</b> 15:1</p> <p><b>characterizing</b> 25:10</p> <p><b>chat</b> 39:9</p> <p><b>check</b> 9:10, 32:15, 41:13</p> <p><b>christison</b> 8:8, 9:2, 14:25</p> <p><b>citation</b> 24:12, 25:5, 27:12</p> <p><b>cite</b> 20:6, 25:9</p> <p><b>cited</b> 26:10</p> <p><b>cites</b> 32:1</p>	<p><b>claim</b> 6:12, 6:16, 6:17, 6:24, 7:4, 7:5, 7:6, 9:15, 9:22, 10:7, 12:3, 12:24, 13:9, 13:12, 13:15, 14:1, 14:2, 14:14, 15:25, 16:2, 16:18, 16:19, 16:21, 18:10, 31:6, 31:14, 32:1, 32:14, 33:13, 35:3, 35:13, 40:3, 40:7, 40:15, 40:20, 41:6, 41:9, 41:10</p> <p><b>claimed</b> 10:3, 10:4</p> <p><b>claims</b> 8:15, 12:5, 31:8, 31:9, 31:18, 31:20, 31:23, 36:12</p> <p><b>clarification</b> 8:13, 11:18, 20:24</p> <p><b>clarify</b> 18:14, 23:20, 26:9, 31:18, 34:13, 39:18</p> <p><b>clear</b> 14:12</p> <p><b>client</b> 11:15, 11:22, 11:24, 20:9</p> <p><b>codec</b> 19:8</p> <p><b>column</b> 13:5, 20:7, 20:8, 20:11, 24:12, 28:2</p> <p><b>com</b> 3:9, 3:17, 3:24</p> <p><b>combination</b> 15:14, 15:21,</p>	<p>16:11, 18:14, 20:2, 21:2, 21:6, 21:8, 23:11, 24:25, 25:23, 26:4, 26:18, 29:3, 31:1, 32:11, 33:19, 35:1, 36:8, 37:23, 38:15, 38:18, 39:18, 40:9</p> <p><b>come</b> 17:2, 17:3, 28:6, 34:14</p> <p><b>common</b> 17:12, 24:19, 30:14</p> <p><b>communicate</b> 22:22, 33:12, 34:1, 35:15</p> <p><b>communicating</b> 22:21, 28:23, 31:1, 32:9, 34:3</p> <p><b>communication</b> 15:18, 20:9, 29:16, 29:17, 30:2, 33:1, 34:4, 34:7, 34:11, 34:18, 37:7, 39:7, 39:12</p> <p><b>communications</b> 17:5, 29:8, 29:19, 33:23, 34:14</p> <p><b>complete</b> 16:10</p> <p><b>components</b> 28:22, 29:8, 29:15, 29:25</p> <p><b>comprises</b> 20:10</p> <p><b>computer</b> 17:11, 22:18, 23:25, 24:19, 24:21, 25:16</p> <p><b>computers</b> 16:13, 35:9</p>	<p><b>computing</b> 17:19, 27:2</p> <p><b>conclusion</b> 20:22</p> <p><b>conference</b> 37:11</p> <p><b>conferencing</b> 15:16, 24:8</p> <p><b>configuration</b> 18:17, 22:17, 23:24</p> <p><b>configured</b> 8:11, 8:21, 17:4, 21:13, 21:21, 23:25, 41:3</p> <p><b>confirm</b> 25:25</p> <p><b>congress</b> 3:14</p> <p><b>connect</b> 17:19, 17:25, 18:1</p> <p><b>connected</b> 38:10, 40:24</p> <p><b>connection</b> 30:19, 30:22</p> <p><b>connections</b> 30:8</p> <p><b>consideration</b> 34:10, 35:3</p> <p><b>considered</b> 35:23</p> <p><b>considering</b> 8:8</p> <p><b>consistent</b> 36:2</p> <p><b>constitute</b> 7:20</p> <p><b>construction</b> 6:18</p> <p><b>constructions</b> 6:16, 6:25</p> <p><b>contain</b> 44:24</p> <p><b>contemplated</b> 38:18</p> <p><b>content</b> 36:7, 36:23,</p>
--	---	--	--

<p>36:24, 40:25  <b>context</b>  7:15, 7:16,  8:2, 8:14, 8:19,  9:20, 9:21,  14:12, 16:9,  17:9, 18:9,  18:11, 22:9,  22:16, 22:24,  26:17, 30:5,  30:25, 32:4,  33:2, 35:1,  36:11, 36:16,  36:25  <b>continue</b>  28:10  <b>control</b>  33:17  <b>controlled</b>  36:10  <b>controlling</b>  36:3  <b>convert</b>  9:8  <b>coordination</b>  33:17  <b>correct</b>  6:22, 10:9,  10:13, 10:14,  13:20, 14:14,  14:15, 14:21,  15:19, 19:22,  21:3, 23:5,  37:8, 38:10,  43:9  <b>corresponding</b>  12:4  <b>could</b>  8:3, 8:15,  9:10, 11:3,  16:4, 16:6,  16:12, 16:15,  16:20, 17:14,  17:25, 18:1,  18:12, 20:18,  22:9, 22:11,  26:25, 27:3,  27:6, 27:16,</p>	<p>27:18, 27:21,  28:5, 28:7,  28:8, 28:9,  29:5, 30:6,  30:7, 30:17,  30:18, 30:21,  30:23, 30:24,  31:14, 31:15,  32:3, 33:11,  33:12, 35:7,  35:12, 36:22,  38:4, 38:12,  38:20, 38:24,  39:1, 39:9,  40:6, 40:18  <b>couldn't</b>  36:18  <b>counsel</b>  45:2  <b>county</b>  43:3, 44:3  <b>couple</b>  29:2, 31:7  <b>cpu</b>  22:21, 29:20  <b>csr</b>  1:29, 5:5,  45:11  <b>customer</b>  12:12, 21:15,  21:22  <hr/> <p style="text-align: center;"><b>D</b></p> <hr/> <b>data</b>  7:6, 7:10,  7:11, 7:20,  8:12, 8:21, 9:9,  9:10, 9:16,  9:19, 9:24,  10:1, 10:8,  10:16, 10:17,  10:18, 10:22,  10:25, 12:11,  12:25, 13:6,  13:13, 13:14,  13:19, 13:22,  13:24, 13:25,  14:3, 14:9,</p>	<p>14:11, 21:14,  21:21, 22:14,  24:1, 24:5,  24:15, 25:11,  26:6, 26:7,  26:13, 26:19,  27:9, 27:13,  27:16, 27:18,  28:3, 28:5, 36:4  <b>date</b>  9:7, 38:12,  39:17  <b>day</b>  43:10, 45:7  <b>days</b>  41:24  <b>dc</b>  3:7  <b>de</b>  9:11, 32:18,  35:15, 35:25,  36:5  <b>december</b>  1:24, 2:25,  5:1, 6:24, 45:7  <b>decision</b>  15:8  <b>declaration</b>  4:8, 5:21,  5:23, 5:25,  8:22, 11:7,  11:13, 14:20,  15:11, 18:21,  23:14, 28:25,  29:4, 31:17,  34:12, 38:16,  39:25, 41:9  <b>declarations</b>  29:11  <b>decoded</b>  14:3  <b>decoding</b>  27:21  <b>deliver</b>  27:9  <b>delivery</b>  25:11, 27:19,  27:23, 30:10</p>	<p><b>dentons</b>  3:4  <b>dependent</b>  31:7  <b>depending</b>  16:17  <b>depends</b>  38:11  <b>deposition</b>  1:21, 2:21,  44:12, 44:16  <b>described</b>  8:16, 24:17,  24:23, 37:23  <b>despite</b>  26:2  <b>destination</b>  26:24  <b>determining</b>  26:6  <b>device</b>  7:7, 7:25, 8:1,  8:3, 10:9,  10:12, 10:15,  10:19, 12:14,  12:18, 12:22,  13:18, 13:20,  13:22, 13:23,  14:5, 14:8,  14:10, 14:16,  14:17, 14:19,  16:8, 17:7,  20:16, 21:13,  21:17, 21:20,  21:23, 22:1,  22:6, 23:3,  24:15, 26:15,  26:20, 26:21,  26:22, 27:2,  27:3, 29:14,  29:20, 32:13,  33:16, 38:10,  40:22, 40:23,  40:24, 41:3  <b>device's</b>  15:19  <b>devices</b>  8:11, 8:20,</p>
---	--	---	--

<p>12:15, 15:21, 15:24, 16:1, 16:4, 16:5, 16:12, 16:15, 16:20, 16:22, 16:23, 17:3, 17:17, 17:18, 17:19, 17:23, 18:3, 21:18, 22:2, 26:16, 27:10, 32:8, 34:20, 34:24, 35:5, 35:7, 35:11, 35:15, 36:3, 37:24 <b>differ</b> 21:6 <b>different</b> 14:21, 14:22, 14:23, 15:24, 16:6, 27:8, 28:4, 28:6, 30:8, 31:10, 38:4, 39:1 <b>dinka</b> 9:1, 16:25, 18:11, 18:15, 19:2, 19:21, 19:24, 20:1, 20:2, 20:3, 21:1, 21:6, 21:9, 22:13, 22:16, 23:4, 24:1, 24:4, 24:11, 24:14, 24:18, 24:24, 25:2, 25:3, 25:6, 25:9, 25:18, 26:1, 26:12, 26:21, 27:12, 28:7 <b>dinka's</b> 23:24 <b>direct</b> 23:13, 32:7, 32:8 <b>direction</b> 44:22</p>	<p><b>directly</b> 18:2 <b>disagree</b> 11:20, 36:18 <b>disclose</b> 40:3 <b>disclosed</b> 11:22, 25:2, 31:20 <b>discloses</b> 23:4, 24:19 <b>disclosing</b> 11:4 <b>disclosure</b> 40:19 <b>disclosures</b> 25:18, 40:1 <b>discussed</b> 28:20 <b>discussion</b> 28:24, 36:2 <b>display</b> 27:2, 29:22 <b>displays</b> 17:22 <b>dock</b> 32:24 <b>dockee</b> 33:3, 33:24, 34:19, 34:21, 34:24, 35:4, 35:7, 35:16, 36:10, 36:17, 36:21, 36:25, 37:24, 38:16, 39:20, 39:21, 40:10, 40:11 <b>dockee's</b> 32:15 <b>dockees</b> 34:3, 34:15, 34:22, 36:1, 36:3, 36:5, 36:6, 36:13, 36:14, 37:7, 37:13 <b>docking</b> 33:24</p>	<p><b>document</b> 5:18, 6:7 <b>done</b> 10:22, 29:22, 29:24 <b>dongle</b> 10:12, 17:25, 21:23 <b>dongles</b> 16:16 <b>downloaded</b> 17:13 <b>driver</b> 12:12, 21:15, 21:22 <b>drivers</b> 29:17 <b>duly</b> 5:7, 44:7, 44:16</p> <hr/> <p style="text-align: center;"><b>E</b></p> <hr/> <p><b>each</b> 32:9, 34:1, 34:3, 35:16, 38:9, 38:16, 38:20, 38:22, 39:20, 40:10 <b>earlier</b> 7:23, 12:10, 14:19, 20:24 <b>easily</b> 27:7 <b>east</b> 2:22 <b>ee</b> 32:24 <b>effect</b> 44:10 <b>either</b> 12:13, 15:4, 17:20, 21:15, 21:24, 24:2, 24:15, 34:8, 36:17, 41:19 <b>element</b> 7:7, 7:13, 12:9, 19:24,</p>	<p>21:10, 40:16 <b>elements</b> 30:3, 32:12, 40:3 <b>embarcadero</b> 3:21 <b>embodiment</b> 20:14, 20:16 <b>employee</b> 45:2 <b>employing</b> 15:16 <b>encode</b> 19:11, 27:13 <b>encoding</b> 27:21 <b>ending</b> 42:2 <b>engine</b> 19:8, 19:9, 23:5, 23:7, 23:16, 28:8 <b>enhanced</b> 14:3 <b>envision</b> 11:3, 37:9, 37:12 <b>erik</b> 3:20, 3:24 <b>errors</b> 6:1 <b>especially</b> 32:4 <b>essentially</b> 24:3, 34:22 <b>establish</b> 10:1 <b>even</b> 7:3, 28:6, 30:10, 30:11, 32:1 <b>everything</b> 41:13 <b>examination</b> 4:3, 5:9, 44:20 <b>examined</b> 5:8, 44:15 <b>example</b> 7:24, 8:1, 8:3,</p>
---	--	---	---

<p>9:5, 9:9, 10:12, 10:14, 11:5, 11:6, 11:9, 11:10, 11:21, 16:5, 16:14, 17:24, 20:18, 20:19, 22:3, 23:1, 25:1, 25:8, 25:12, 25:15, 28:5, 30:13, 31:5, 31:25, 32:4, 32:5, 34:18, 34:23, 35:3, 37:6, 37:7, 40:21 <b>examples</b> 8:5, 8:6, 16:13, 16:23, 16:24, 20:13, 33:9, 35:8 <b>execute</b> 29:25 <b>executed</b> 43:10 <b>exhibit</b> 5:13, 5:17, 6:3, 6:6, 19:14, 19:17, 19:19 <b>exhibits</b> 4:5, 4:12 <b>exist</b> 23:3, 40:6 <b>existed</b> 9:7 <b>expected</b> 35:22, 39:2 <b>explains</b> 24:1, 26:13 <b>expressed</b> 22:17, 22:19, 34:11 <b>extender</b> 33:18, 34:17 <b>external</b> 17:23, 27:8</p>	<p><b>fact</b> 13:5, 26:2 <b>fairly</b> 39:13, 39:16 <b>far</b> 12:21 <b>figure</b> 20:12, 20:13, 20:21, 22:18 <b>figures</b> 25:16 <b>filing</b> 6:21, 6:23 <b>final</b> 41:23 <b>financially</b> 45:3 <b>find</b> 7:13 <b>first</b> 5:7, 5:16, 7:6, 7:10, 8:21, 9:16, 9:18, 9:19, 9:24, 9:25, 10:7, 10:8, 10:11, 10:15, 13:21, 14:11, 20:6, 32:13, 33:20, 34:2, 40:17 <b>five</b> 41:24 <b>five-minute</b> 41:12 <b>flow</b> 8:21, 24:5, 24:25, 25:3, 26:7 <b>focus</b> 31:24 <b>follow</b> 39:2 <b>follows</b> 5:8 <b>force</b> 44:10 <b>foregoing</b> 43:8, 44:12,</p>	<p>44:16, 44:24 <b>form</b> 13:10, 13:24, 39:23 <b>format</b> 28:9 <b>formats</b> 28:6 <b>forth</b> 13:12, 32:17, 38:15, 39:19, 40:10, 44:14 <b>forwarded</b> 14:4, 14:9 <b>four</b> 8:7, 15:2 <b>fourth</b> 14:24 <b>francisco</b> 3:22 <b>friday</b> 28:19, 36:2 <b>full</b> 44:10, 44:24 <b>functional</b> 7:7, 7:25, 8:1, 8:3, 8:10, 8:20, 14:4, 14:8, 14:9, 14:10, 14:16, 14:17, 14:19, 15:19, 16:1, 34:20, 40:23 <b>functionality</b> 11:17, 11:19, 19:7, 22:23, 27:15 <b>further</b> 12:9, 18:13, 28:8, 41:16, 45:1</p>	<p><b>generally</b> 10:20, 13:8, 17:6, 19:5, 27:17, 29:24, 39:12 <b>generate</b> 9:25, 10:17 <b>generates</b> 10:15 <b>generically</b> 16:22 <b>give</b> 7:12 <b>go</b> 13:4, 28:10, 34:7, 40:4, 41:8, 41:12 <b>goes</b> 7:11, 10:25, 13:7, 39:25 <b>going</b> 5:16, 17:15, 19:17, 21:20, 21:24, 29:13, 32:24, 41:11 <b>good</b> 5:11, 5:12 <b>great</b> 41:21 <b>greenleaf</b> 3:5, 20:5, 37:15, 39:23, 41:18, 41:22 <b>greenleaf@dentons</b> 3:9 <b>ground</b> 14:25, 30:25, 32:11, 33:20, 34:6, 36:11, 39:19, 40:9 <b>grounds</b> 7:15, 8:7, 11:11, 14:21, 14:22, 14:23, 15:2, 15:3, 15:7 <b>group</b> 24:8, 37:11, 39:1, 39:14</p>
<hr/> <p><b>F</b></p> <hr/>		<hr/> <p><b>G</b></p> <hr/>	
<p><b>facilitate</b> 33:1</p>			

<p><b>guess</b> 7:13, 9:21</p> <hr/> <p style="text-align: center;"><b>H</b></p> <hr/> <p><b>halverson</b> 3:20, 41:23, 42:1 <b>halverson@klgates</b> 3:24 <b>hand</b> 5:16 <b>handing</b> 6:6 <b>handle</b> 28:10 <b>happen</b> 27:5, 34:4 <b>hardware</b> 22:17, 23:24, 24:10, 28:22, 29:7, 29:13, 29:18, 29:19, 29:23, 29:25 <b>hear</b> 35:22 <b>helpful</b> 19:18, 37:17 <b>here</b> 16:2, 20:18, 23:25, 27:15 <b>hereby</b> 43:6, 44:5 <b>herein</b> 44:13, 44:14 <b>hold</b> 7:3 <b>holder</b> 44:9 <b>host</b> 10:25, 11:17, 11:24, 12:2, 12:6, 12:8, 12:13, 12:16, 12:19, 12:21, 12:23, 13:3, 13:6, 13:9, 13:11, 13:16, 18:15, 21:15,</p>	<p>21:24, 22:2, 22:10, 24:2, 24:15, 26:14, 27:1, 32:12, 33:24, 41:1 <b>hosting</b> 15:17, 32:16, 32:23, 33:4, 33:7 <b>however</b> 27:16 <b>hypothetical</b> 18:13, 30:16, 30:20, 35:19, 40:5 <b>hypotheticals</b> 38:23</p> <hr/> <p style="text-align: center;"><b>I</b></p> <hr/> <p><b>idea</b> 11:25, 22:4, 22:20, 26:12, 27:12, 28:3 <b>identification</b> 5:14, 6:4, 19:15 <b>identified</b> 6:18, 6:25, 8:4, 12:17, 13:10, 14:19, 18:11, 22:6, 26:23, 31:24 <b>identifies</b> 27:15, 41:7 <b>identify</b> 6:1, 8:20, 11:6, 11:15 <b>image</b> 38:8, 38:17 <b>imagine</b> 30:6 <b>implementations</b> 30:14 <b>implemented</b> 30:7 <b>implies</b> 36:16 <b>include</b> 12:21, 19:6,</p>	<p>27:22 <b>included</b> 8:8, 8:9, 32:22 <b>includes</b> 18:18, 23:5 <b>including</b> 19:9, 25:12 <b>incomplete</b> 35:18 <b>independent</b> 12:4, 35:2 <b>index</b> 4:1 <b>indicate</b> 15:14 <b>indicated</b> 7:1, 37:6 <b>individuals</b> 38:13, 38:24 <b>information</b> 24:25, 26:24 <b>infrastructure</b> 24:19 <b>input</b> 19:5, 19:9, 19:11, 23:8, 23:10, 25:4, 26:1, 27:7, 32:20 <b>instance</b> 22:4, 34:9 <b>instances</b> 17:20, 31:12, 31:13 <b>institution</b> 15:8 <b>integrated</b> 16:4, 16:16, 24:24, 25:14, 25:19, 30:3 <b>integrating</b> 18:3 <b>inter</b> 4:9 <b>interested</b> 45:3 <b>interface</b> 19:13, 27:24</p>	<p><b>internet</b> 19:12, 22:23, 22:25, 25:13, 27:14, 27:19, 28:12, 34:5, 34:22 <b>internet-based</b> 24:8 <b>interpretation</b> 7:4 <b>intuit</b> 37:18 <b>involve</b> 27:20 <b>involved</b> 28:23, 29:8, 37:13 <b>ipr</b> 1:8, 2:8, 5:21, 6:11, 17:1 <b>issue</b> 6:10 <b>it'd</b> 23:1</p> <hr/> <p style="text-align: center;"><b>J</b></p> <hr/> <p><b>job</b> 1:30 <b>joshua</b> 3:13, 3:17</p> <hr/> <p style="text-align: center;"><b>K</b></p> <hr/> <p><b>k&amp;l</b> 3:12, 3:19 <b>kaplan</b> 9:11 <b>kevin</b> 1:22, 2:21, 3:5, 3:9, 4:8, 5:6, 43:6, 43:18 <b>kind</b> 38:19, 39:2 <b>kinds</b> 16:5, 16:7, 16:20, 40:5 <b>know</b> 25:24, 35:10, 39:8, 40:14</p>
--	--	---	---

<p><b>known</b> 39:15</p> <hr/> <p style="text-align: center;"><b>L</b></p> <hr/> <p><b>laar</b> 9:11, 32:19, 35:15, 35:25, 36:5</p> <p><b>language</b> 7:4, 10:20, 11:2, 14:1, 32:2</p> <p><b>laptop</b> 17:10, 17:24, 18:5, 33:9, 33:16</p> <p><b>laptops</b> 17:19, 35:6, 35:8</p> <p><b>largely</b> 16:25, 18:3, 34:19, 40:22</p> <p><b>last</b> 5:23, 15:13, 28:19, 36:2, 36:19</p> <p><b>later</b> 10:7</p> <p><b>law</b> 3:5, 3:13, 3:20</p> <p><b>laws</b> 43:7</p> <p><b>layer</b> 19:2, 19:4, 19:9, 19:24, 20:3, 20:10, 20:15, 21:1, 21:5, 21:9, 23:4, 24:22</p> <p><b>layers</b> 22:20, 24:13</p> <p><b>least</b> 8:24, 9:1, 12:3, 12:20, 12:24, 14:22, 19:6, 19:7, 32:14, 38:12, 38:21, 39:16</p> <p><b>level</b> 15:5</p>	<p><b>limit</b> 7:5, 25:7, 25:18, 26:4, 32:2</p> <p><b>limitation</b> 12:18</p> <p><b>limitations</b> 13:4</p> <p><b>limited</b> 25:7, 26:1, 30:9, 30:12, 38:19</p> <p><b>line</b> 13:5, 20:11, 24:12</p> <p><b>lines</b> 20:7, 21:2, 21:4, 28:2</p> <p><b>link</b> 31:12, 31:19, 33:3</p> <p><b>links</b> 31:11</p> <p><b>list</b> 32:21, 35:7, 35:9</p> <p><b>little</b> 10:21, 15:23</p> <p><b>llp</b> 3:12</p> <p><b>location</b> 20:17, 20:21, 20:25, 21:5</p> <p><b>long</b> 35:12</p> <p><b>look</b> 13:4, 13:9, 25:25, 32:13</p> <p><b>looked</b> 12:20</p> <p><b>looking</b> 40:20</p> <p><b>looks</b> 16:11</p> <p><b>los</b> 43:3, 44:3</p> <p><b>lot</b> 38:4</p>	<p><b>lots</b> 18:2</p> <hr/> <p style="text-align: center;"><b>M</b></p> <hr/> <p><b>macos</b> 17:11</p> <p><b>made</b> 10:18, 10:23, 11:5, 12:11, 13:1, 24:1, 26:13, 44:20</p> <p><b>make</b> 11:2, 21:14, 32:16, 41:13</p> <p><b>manner</b> 26:22, 36:1</p> <p><b>many</b> 38:23</p> <p><b>marked</b> 5:13, 6:3, 19:14</p> <p><b>massachusetts</b> 3:15</p> <p><b>matter</b> 5:17, 31:22</p> <p><b>mattered</b> 31:3, 31:4</p> <p><b>matters</b> 31:9, 31:14, 31:16, 40:15</p> <p><b>mean</b> 12:6, 23:20</p> <p><b>meaning</b> 6:19, 7:1</p> <p><b>meanings</b> 38:4</p> <p><b>means</b> 38:3</p> <p><b>media</b> 16:7, 22:24</p> <p><b>medium</b> 30:10, 31:1</p> <p><b>meet</b> 11:23, 12:2, 12:6, 15:5, 16:17, 35:12</p> <p><b>meeting</b> 17:16, 33:10,</p>	<p>34:23, 37:10, 39:10</p> <p><b>meetings</b> 24:8, 39:14</p> <p><b>memory</b> 29:16, 29:20</p> <p><b>mentioned</b> 7:23, 30:2</p> <p><b>mentions</b> 9:3, 9:4, 31:5</p> <p><b>microphone</b> 37:2</p> <p><b>microphones</b> 16:3, 17:21, 37:3</p> <p><b>microsoft</b> 33:10</p> <p><b>might</b> 16:16, 17:21, 27:20, 29:22, 32:25, 33:4, 37:1, 39:7</p> <p><b>mind</b> 7:17, 17:2, 17:4</p> <p><b>miracast</b> 28:20, 28:23, 29:1, 29:9, 29:12, 29:15, 30:7, 30:9, 30:11, 30:17, 30:18, 30:22, 31:1, 32:1</p> <p><b>mirroring</b> 29:22</p> <p><b>missing</b> 41:5</p> <p><b>mobile</b> 33:16</p> <p><b>mode</b> 32:9</p> <p><b>modes</b> 39:7</p> <p><b>monday</b> 1:24, 2:24, 5:1, 41:24</p> <p><b>more</b> 8:18, 10:21,</p>
--	---	---	---

<p>15:19, 16:10, 17:15, 24:25, 25:9, 39:12, 40:4 <b>morning</b> 5:11, 5:12, 5:24 <b>moves</b> 18:24 <b>much</b> 8:2, 35:10 <b>multimedia</b> 36:9 <b>multiple</b> 35:4, 37:12, 37:24, 38:22 <b>mute</b> 39:4</p> <hr/> <p style="text-align: center;"><b>N</b></p> <hr/> <p><b>name</b> 5:4, 45:7 <b>named</b> 44:13, 44:16 <b>nd</b> 45:7 <b>necessary</b> 9:13, 29:15, 33:23 <b>need</b> 8:13, 8:18, 9:20, 14:18, 35:16, 41:3 <b>needs</b> 10:21 <b>neitzert</b> 1:29, 2:25, 5:4, 44:5, 45:11 <b>network</b> 1:4, 1:6, 2:4, 2:6, 19:13, 22:14, 22:22, 22:25, 24:6, 25:12, 27:5, 27:10, 27:19, 27:23, 28:11, 29:16, 29:17, 29:19, 30:2,</p>	<p>30:8, 30:10, 32:7, 32:12, 33:22, 34:5, 34:14 <b>nonspecific</b> 19:25 <b>notes</b> 41:12 <b>noteworthy</b> 22:19 <b>nothing</b> 44:18 <b>number</b> 5:5, 27:7, 28:4, 39:3, 39:4, 44:9 <b>numbered</b> 24:22 <b>nw</b> 3:6</p> <hr/> <p style="text-align: center;"><b>O</b></p> <hr/> <p><b>oaths</b> 44:11 <b>object</b> 20:5 <b>objection</b> 37:15, 39:23 <b>objections</b> 44:20 <b>objective</b> 35:21 <b>obviously</b> 29:14 <b>obviousness</b> 15:3 <b>occurring</b> 10:5 <b>office</b> 1:1, 2:1 <b>okay</b> 9:12, 9:14, 9:24, 28:16, 29:5, 29:10, 41:17, 41:25 <b>one</b> 6:10, 8:24, 10:2, 10:3,</p>	<p>11:9, 12:24, 14:11, 15:18, 16:14, 17:4, 17:15, 20:13, 23:9, 28:4, 30:15, 32:15, 34:16, 36:25, 37:13, 37:25, 38:5, 39:21, 40:11, 40:14 <b>ones</b> 17:2 <b>only</b> 25:22, 37:13, 37:25, 39:21, 40:11 <b>open-ended</b> 35:7, 35:9 <b>operate</b> 40:19 <b>operating</b> 17:12, 21:12, 22:5, 23:2, 24:20, 29:20 <b>opinions</b> 7:3 <b>option</b> 12:24 <b>options</b> 18:2, 34:16 <b>order</b> 28:11 <b>ordinary</b> 6:19, 7:1 <b>other</b> 8:10, 8:20, 12:4, 12:7, 12:15, 13:2, 13:3, 17:12, 17:15, 20:15, 21:17, 22:1, 23:2, 26:15, 26:18, 27:10, 29:3, 31:13, 31:20, 31:22, 32:9, 34:2, 34:4, 34:8, 36:8, 36:10,</p>	<p>36:24, 37:2, 37:5, 39:7, 39:9 <b>others</b> 39:5 <b>otherwise</b> 37:18 <b>out</b> 22:14, 41:8 <b>outcome</b> 45:4 <b>output</b> 19:5, 19:9 <b>outside</b> 29:10 <b>over</b> 8:25, 19:12, 22:14, 22:22, 22:25, 23:18, 24:6, 25:12, 27:4, 27:9, 27:14, 27:19, 27:23, 28:11, 30:17, 30:18, 30:22, 31:2, 34:4, 41:12 <b>overlap</b> 40:6 <b>own</b> 17:22, 20:1, 20:4, 37:1, 38:16, 38:21 <b>owner</b> 1:15, 2:15, 2:22, 3:11</p> <hr/> <p style="text-align: center;"><b>P</b></p> <hr/> <p><b>packetizing</b> 27:22 <b>page</b> 4:2, 4:6, 18:20, 18:24, 23:17, 23:18 <b>pages</b> 44:24 <b>paragraph</b> 6:23, 8:24, 9:3, 9:4, 11:12, 11:15, 12:17,</p>
--	--	--	---

<p>15:10, 15:13, 18:23, 19:1, 19:6, 20:7, 21:11, 22:12, 23:13, 24:17, 29:3, 32:18, 35:4 <b>parallel</b> 12:4 <b>parallels</b> 24:4 <b>paraphrasing</b> 14:5 <b>parentheses</b> 35:5 <b>parlance</b> 33:13 <b>part</b> 7:7, 10:23, 20:14, 23:2, 26:18, 35:22, 35:23, 37:10, 41:5 <b>partes</b> 4:9 <b>participant</b> 36:10, 36:22, 37:4, 38:20 <b>participants</b> 17:15, 34:1, 36:8, 37:2, 38:22, 39:3, 39:6 <b>participating</b> 15:22, 33:5, 33:7, 34:25, 35:17, 36:13, 36:14, 36:15, 37:8, 37:13, 37:16, 37:25, 38:3, 39:20, 39:21, 40:10, 40:11 <b>particular</b> 11:25, 25:5, 29:11, 40:14, 41:10 <b>parties</b> 45:3</p>	<p><b>party</b> 24:3 <b>pass</b> 19:17 <b>passage</b> 19:1, 23:22, 26:11 <b>passed</b> 10:23, 27:1 <b>patent</b> 1:1, 1:2, 1:15, 2:1, 2:2, 2:15, 2:22, 3:11, 4:7, 4:10, 4:11, 5:22, 6:10, 6:13, 6:17, 8:4, 9:16, 31:5, 36:12 <b>path</b> 23:12, 24:17, 34:11 <b>patterns</b> 39:2 <b>pc</b> 17:10, 20:19, 20:21, 33:15 <b>pcs</b> 17:18 <b>penalty</b> 43:7 <b>perfectly</b> 24:14 <b>peripheral</b> 10:9, 10:11, 10:15, 13:20, 13:21, 13:23, 16:15, 17:23, 21:23, 24:15, 26:20, 40:24 <b>perjury</b> 43:7 <b>person</b> 6:20, 8:18, 17:8, 26:3, 26:5, 26:9, 26:24, 28:1, 38:14, 39:15 <b>personal</b> 16:13, 22:18,</p>	<p>23:25, 24:21, 25:15, 35:9, 38:10 <b>petition</b> 4:9 <b>petitioners</b> 1:9, 2:9, 3:3 <b>ph</b> 1:22, 2:21, 4:8, 5:6, 43:6, 43:18 <b>phones</b> 35:6, 35:8 <b>place</b> 44:14 <b>places</b> 23:9, 29:2 <b>plain</b> 6:19, 7:1 <b>please</b> 11:12, 26:9, 29:6 <b>plurality</b> 39:3 <b>plus</b> 9:1, 18:11, 18:15 <b>point</b> 22:12, 32:10, 40:15, 41:8 <b>pointed</b> 9:6, 11:21 <b>possible</b> 34:11 <b>post</b> 10:3, 27:1 <b>potentially</b> 36:7, 40:6 <b>predictable</b> 15:15 <b>premise</b> 11:20, 36:19 <b>prepared</b> 27:18 <b>preparing</b> 27:23 <b>preprocessing</b> 10:3</p>	<p><b>present</b> 14:20 <b>presentations</b> 39:14 <b>pretty</b> 22:23 <b>previously</b> 5:13, 6:3, 19:14 <b>primarily</b> 32:24 <b>primary</b> 8:6, 36:5, 36:12, 36:17, 36:21, 36:23, 37:1, 37:4 <b>prior</b> 7:15, 7:18, 8:17, 11:3, 18:18, 44:15 <b>priority</b> 38:12 <b>probably</b> 20:13 <b>proceedings</b> 10:13, 44:25 <b>process</b> 9:16, 9:19 <b>processed</b> 9:25, 10:1, 10:6, 10:8, 13:24, 14:3, 27:18, 28:8 <b>processes</b> 13:23 <b>processing</b> 10:4, 10:5, 10:19, 10:24, 12:14, 12:15, 12:18, 12:22, 13:17, 16:12, 17:6, 17:18, 21:13, 21:17, 21:20, 22:1, 22:5, 22:11, 25:11, 26:15, 26:16, 26:20, 26:22, 27:3,</p>
---	--	--	--

<p>27:10, 27:22, 28:11, 29:16, 32:13, 40:22, 40:23, 41:3 <b>prohibition</b> 35:11 <b>projector</b> 18:2 <b>projectors</b> 16:3 <b>protocol</b> 20:10, 22:21 <b>protocols</b> 30:15 <b>provide</b> 7:16, 24:7, 24:14 <b>provided</b> 24:6, 26:19, 26:22, 27:3, 27:16, 32:20 <b>provides</b> 34:18 <b>providing</b> 33:14, 33:16 <b>pull</b> 31:4</p> <hr/> <p style="text-align: center;"><b>Q</b></p> <hr/> <p><b>qualified</b> 44:7 <b>question</b> 7:14, 7:16, 8:19, 9:21, 11:21, 13:8, 14:12, 15:23, 16:9, 18:4, 18:8, 18:13, 19:25, 25:17, 29:5, 30:6, 30:16, 32:23, 33:25, 35:22, 36:16, 38:3, 40:4 <b>questions</b> 41:16, 41:18 <b>quite</b> 27:6</p>	<p><b>quote</b> 23:17</p> <hr/> <p style="text-align: center;"><b>R</b></p> <hr/> <p><b>re-ask</b> 29:5 <b>reads</b> 10:7 <b>really</b> 7:19, 22:15, 26:12 <b>reason</b> 30:21 <b>reasonable</b> 7:3 <b>recall</b> 28:19, 31:3, 31:4, 34:9 <b>receive</b> 21:21, 22:13, 32:20 <b>received</b> 7:21, 13:6, 13:14, 13:19, 21:24, 25:23, 28:3 <b>receiving</b> 13:22, 21:22, 27:13, 36:7, 36:9 <b>recent</b> 39:16 <b>recited</b> 23:17 <b>recognize</b> 5:17, 6:7, 19:19, 26:25 <b>recollection</b> 7:11, 25:6, 25:9, 25:21, 29:23, 30:8, 31:22, 34:2, 34:6, 34:13 <b>record</b> 44:25 <b>recorded</b> 44:21 <b>refer</b> 26:6</p>	<p><b>reference</b> 11:3, 19:18 <b>referenced</b> 8:23, 13:13, 37:21 <b>references</b> 8:6, 9:2, 9:11, 14:24, 17:9 <b>referencing</b> 8:14, 20:1 <b>referred</b> 16:22 <b>referring</b> 10:13, 14:13, 19:22, 20:22, 23:16, 25:16 <b>refers</b> 16:19, 19:2 <b>relationship</b> 9:18, 10:2 <b>relative</b> 45:1 <b>relevant</b> 40:17 <b>relied</b> 16:25 <b>rely</b> 21:8, 26:3, 28:2 <b>relying</b> 22:16, 23:11, 23:21, 23:23, 24:10, 24:13, 25:21, 27:11, 28:1, 28:7 <b>remote</b> 33:12, 33:17 <b>rephrase</b> 37:17 <b>reported</b> 1:29 <b>reporter</b> 2:26, 5:4, 5:7, 41:19, 41:25, 44:8 <b>represented</b> 15:7, 20:2 <b>require</b> 32:10</p>	<p><b>required</b> 12:19, 21:10 <b>requirement</b> 12:3, 12:8, 18:10, 41:7 <b>requirements</b> 9:22, 11:23, 12:7, 12:20, 13:3, 13:11, 14:14, 15:6, 16:18, 35:12, 40:7, 41:2 <b>requires</b> 40:21 <b>respect</b> 22:7, 30:12 <b>responsive</b> 18:4 <b>result</b> 15:15 <b>review</b> 4:10, 5:23 <b>reviewing</b> 5:25 <b>rf</b> 30:10 <b>rise</b> 15:5 <b>room</b> 17:24 <b>rough</b> 41:20, 41:21 <b>run</b> 15:24, 17:5, 18:5, 18:6, 30:17, 30:18, 30:21 <b>running</b> 12:14, 13:17, 16:14, 17:11, 18:18, 21:16, 21:25, 22:4, 22:11, 26:15, 33:9, 33:15, 33:21, 39:10</p> <hr/> <p style="text-align: center;"><b>S</b></p> <hr/> <p><b>said</b> 6:22, 15:20,</p>
--	--	---	---

<p>26:8  <b>same</b>                  11:16, 14:9,                  14:19, 14:23,                  31:12, 36:18,                  37:10  <b>san</b>                  3:22  <b>santa</b>                  1:23, 2:23, 5:2  <b>say</b>                  14:17, 23:21,                  24:11, 27:1,                  33:10  <b>says</b>                  6:23, 7:2,                  9:24, 10:6,                  13:21, 14:1,                  14:2, 14:16,                  21:12, 23:25,                  32:20, 35:4,                  35:5  <b>scenario</b>                  35:20, 37:9,                  37:12, 37:25,                  38:20, 40:14,                  40:17  <b>scenarios</b>                  40:5, 40:12  <b>scope</b>                  8:15, 29:10  <b>scratch</b>                  37:22  <b>screen</b>                  39:5  <b>screen-scrape</b>                  27:9  <b>screen-scraping</b>                  12:1, 29:21  <b>search</b>                  28:25  <b>second</b>                  7:13, 10:16,                  10:17, 10:18,                  12:11, 12:25,                  13:24, 14:2,                  21:14, 36:21,                  40:18, 40:22</p>	<p><b>secondary</b>                  36:6, 36:14,                  36:17, 36:24,                  37:2, 37:5  <b>section</b>                  6:25  <b>see</b>                  6:2, 7:5, 7:9,                  9:15, 9:17,                  13:9, 14:5,                  18:23, 18:25,                  23:19, 25:20,                  30:21, 31:5,                  31:8, 40:18,                  40:20  <b>seemed</b>                  40:4  <b>seems</b>                  16:9  <b>send</b>                  22:14, 28:11  <b>sends</b>                  14:11  <b>sense</b>                  24:4, 36:20  <b>sent</b>                  10:8  <b>sentence</b>                  15:13, 16:1,                  16:9  <b>separate</b>                  14:10, 16:4,                  35:14  <b>set</b>                  13:11, 17:14,                  32:16, 35:25,                  38:15, 39:1,                  39:19, 40:9,                  44:14  <b>share</b>                  8:11  <b>sharing</b>                  38:9, 38:13,                  38:17, 38:22,                  38:25, 39:5  <b>short</b>                  28:14  <b>shorthand</b>                  2:26, 44:8</p>	<p><b>show</b>                  24:3  <b>shown</b>                  20:18  <b>shows</b>                  22:12, 29:2,                  31:7, 32:14  <b>side</b>                  29:13  <b>signal</b>                  25:3  <b>signals</b>                  19:10, 19:11,                  23:7, 25:22  <b>signature-5tmlq</b>                  45:9  <b>similar</b>                  24:18  <b>similarly</b>                  33:19  <b>simultaneously</b>                  36:6  <b>since</b>                  7:18  <b>skill</b>                  6:20, 8:18,                  17:8, 26:3,                  26:5, 26:10,                  26:25, 28:1,                  39:15, 44:26  <b>skype</b>                  11:10, 15:17,                  15:22, 16:14,                  17:5, 17:10,                  17:13, 17:14,                  18:5, 18:6,                  18:16, 18:19,                  22:3, 22:5,                  22:10, 24:9,                  25:1, 27:5,                  27:6, 27:17,                  28:12, 32:12,                  32:21, 32:25,                  33:2, 33:5,                  33:6, 33:8,                  33:12, 33:15,                  33:23, 34:1,                  34:8, 34:9,</p>	<p>34:14, 34:17,                  35:17, 35:23,                  36:8, 36:13,                  36:14, 36:15,                  36:22, 36:25,                  37:3, 37:8,                  37:10, 37:14,                  38:1, 38:6,                  38:8, 39:8,                  39:11, 39:20,                  39:21, 40:2,                  40:11, 40:12  <b>smart</b>                  35:6, 35:8  <b>software</b>                  15:17, 17:14,                  18:5, 29:24,                  30:1, 32:25,                  33:10, 33:11,                  33:15, 33:20,                  34:17, 39:9  <b>some</b>                  8:18, 9:20,                  10:23, 17:11,                  17:16, 17:20,                  18:1, 27:20,                  28:24, 29:17,                  31:25, 32:16,                  33:16, 33:18,                  34:10, 36:10,                  36:23, 37:4,                  39:3, 39:4,                  40:16, 40:18,                  41:5, 41:7  <b>somebody</b>                  30:21  <b>something</b>                  21:2, 21:4,                  23:1, 23:10,                  26:2, 28:12,                  33:18, 40:20  <b>somewhat</b>                  35:18  <b>sorry</b>                  15:25, 17:17  <b>sort</b>                  17:11, 17:16,                  33:8, 33:12,</p>
--	---	---	--

<p>33:17, 33:18  <b>sounds</b>  30:20  <b>source</b>  16:6, 25:22,  26:6, 29:12,  40:25  <b>sourced</b>  36:7  <b>sources</b>  25:7, 25:10,  27:8, 28:4,  36:23, 36:24,  37:4, 37:5  <b>sourcing</b>  36:4  <b>speakers</b>  16:3, 17:21  <b>speaking</b>  10:20  <b>specific</b>  10:21, 22:17,  23:12, 23:23,  24:10, 24:13,  27:25, 40:21  <b>specifically</b>  6:18, 7:19,  16:8, 21:9,  23:11, 23:21,  25:22, 29:18,  39:19  <b>specification</b>  8:16  <b>specificity</b>  24:22  <b>specifying</b>  41:2  <b>ss</b>  43:2  <b>stack</b>  20:10, 22:21  <b>standard</b>  12:12, 21:15,  21:22  <b>standing</b>  20:1, 20:3,  21:6  <b>start</b>  8:25, 39:11</p>	<p><b>starts</b>  18:23, 23:17  <b>state</b>  43:1, 43:8,  44:1, 44:8  <b>statement</b>  7:2  <b>states</b>  1:1, 2:1, 4:7,  4:11  <b>station</b>  17:20  <b>stenographically</b>  44:21  <b>steps</b>  27:22  <b>still</b>  33:5, 38:13  <b>street</b>  3:6, 3:14  <b>subscribed</b>  45:6  <b>subsection</b>  21:11  <b>substantive</b>  6:1  <b>sufficient</b>  11:23, 12:2,  24:14, 40:2  <b>suite</b>  3:14, 3:21  <b>supervision</b>  44:23  <b>support</b>  4:9, 20:22,  29:15, 33:14,  33:20, 39:10  <b>supported</b>  39:8  <b>sure</b>  18:12, 23:23,  26:12, 30:16,  32:16, 38:5,  41:13, 41:14,  41:22, 41:25  <b>suspect</b>  20:12, 23:9  <b>switch</b>  39:6</p>	<p><b>sworn</b>  5:7, 44:16  <b>sync</b>  16:6, 29:12,  40:25  <b>syncing</b>  36:4  <b>syncs</b>  36:23, 36:24,  37:5  <b>system</b>  10:24, 15:16,  21:12, 22:5,  22:12, 24:20,  30:6, 30:23,  35:16, 35:24,  37:21  <b>systems</b>  17:12, 23:2</p> <hr/> <p style="text-align: center;"><b>T</b></p> <hr/> <p><b>tab</b>  15:7  <b>tablets</b>  35:6, 35:8  <b>take</b>  26:10, 28:14,  41:11  <b>taken</b>  2:22, 28:17,  41:15, 44:13  <b>talk</b>  41:10  <b>talking</b>  12:10, 21:19,  39:11  <b>talks</b>  12:10, 13:5,  15:25, 16:1,  20:8, 32:19  <b>target</b>  12:25  <b>teach</b>  40:2  <b>teaches</b>  27:12  <b>teachings</b>  15:14</p>	<p><b>technology</b>  1:5, 1:6, 2:5,  2:6  <b>television</b>  25:15  <b>tends</b>  24:18  <b>term</b>  6:19, 7:5  <b>terms</b>  6:16, 7:17,  10:21, 18:9,  19:25, 23:12,  25:10, 29:13,  29:21, 30:10,  33:16, 33:20,  35:11, 35:19,  36:4, 38:23,  40:5  <b>testified</b>  5:8  <b>testify</b>  44:17  <b>testimony</b>  44:12, 44:19,  44:26  <b>testing</b>  35:21  <b>th</b>  6:24  <b>thanks</b>  42:1  <b>thereafter</b>  44:22  <b>therefore</b>  14:17  <b>thing</b>  32:15  <b>things</b>  16:2, 16:16,  39:8  <b>think</b>  7:2, 8:4, 8:5,  9:12, 10:14,  10:22, 11:2,  11:21, 15:4,  15:8, 16:12,  16:21, 16:25,</p>
---	---	--	---

<p>17:7, 17:8, 18:3, 18:9, 20:15, 20:18, 25:5, 25:25, 28:1, 30:14, 30:22, 31:9, 31:13, 31:15, 31:16, 33:8, 34:16, 35:25, 36:4, 38:11, 38:19, 38:20, 39:11, 39:24, 39:25 <b>thinking</b> 7:14 <b>third</b> 13:6, 13:13, 13:14, 13:19, 13:22, 13:24, 14:24 <b>third-party</b> 11:1, 11:6, 12:13, 13:17, 21:16, 21:25, 22:3, 22:7, 24:7, 24:16, 26:14, 41:1 <b>thought</b> 28:24, 40:16 <b>through</b> 12:12, 13:4, 13:9, 15:24, 17:25, 20:7, 21:14, 21:21, 24:12, 25:1, 28:3, 28:10, 28:25, 34:7, 34:15, 34:21, 39:8, 39:25 <b>time</b> 6:21, 6:22, 17:13, 36:18, 42:2, 44:14, 44:20 <b>today</b> 36:20 <b>together</b> 40:25</p>	<p><b>tool</b> 27:6 <b>traces</b> 12:17 <b>trademark</b> 1:1, 2:1 <b>transceivers</b> 30:4 <b>transcoding</b> 27:20 <b>transcribed</b> 44:22 <b>transcript</b> 41:20 <b>transmission</b> 19:12, 27:14 <b>transmit</b> 22:24, 27:4 <b>transmitters</b> 30:4 <b>transmitting</b> 11:4 <b>trial</b> 1:2, 2:2 <b>true</b> 43:8, 44:25 <b>truth</b> 44:17, 44:18 <b>try</b> 37:18 <b>trying</b> 18:4 <b>turn</b> 6:12, 11:12, 15:10, 18:20 <b>tv</b> 16:5, 20:14, 22:18 <b>two</b> 10:2, 14:20, 14:22, 14:23, 26:15, 30:15, 32:8, 40:12 <b>type</b> 20:15 <b>types</b> 8:10, 9:6, 9:9, 15:24, 22:25,</p>	<p>35:11, 35:14 <hr/><b>U</b><hr/><b>ultimately</b> 10:22, 20:17, 24:6, 25:11, 25:24, 35:20, 40:25 <b>unclear</b> 18:8, 25:17 <b>under</b> 7:3, 21:11, 43:7, 44:22 <b>underlying</b> 30:9 <b>understanding</b> 6:15, 38:2 <b>understood</b> 6:20, 8:17 <b>unified</b> 15:17, 17:5, 39:12 <b>unit</b> 7:12, 7:21, 7:22, 8:22, 9:25, 10:6, 18:1, 18:6, 18:15, 18:18, 26:19, 33:1, 33:13, 33:18, 33:21, 40:23 <b>united</b> 1:1, 2:1, 4:7, 4:11 <b>units</b> 16:20 <b>usa</b> 1:4, 2:4 <b>usb</b> 32:5 <b>use</b> 17:10, 30:7, 31:23, 39:8, 40:1 <b>user</b> 38:9 <b>using</b> 17:24, 32:5,</p>	<p>33:2 <b>usually</b> 28:22, 29:8, 29:11, 30:15, 32:8 <b>utilizing</b> 15:18 <hr/><b>V</b><hr/><b>vague</b> 15:23, 20:5, 33:8, 37:15, 37:16 <b>van</b> 9:11, 32:18, 35:15, 35:25, 36:5 <b>variety</b> 28:6, 30:7 <b>varying</b> 22:24 <b>version</b> 38:11 <b>versus</b> 32:2, 39:4 <b>via</b> 19:12, 28:23, 29:9 <b>video</b> 7:6, 7:10, 7:20, 8:11, 8:21, 9:9, 9:10, 9:16, 9:19, 9:24, 10:1, 10:8, 10:16, 10:17, 10:18, 10:22, 11:4, 12:11, 12:25, 13:6, 13:13, 13:14, 13:19, 13:22, 13:24, 14:11, 19:7, 19:8, 19:9, 19:10, 19:11, 21:14, 21:21, 22:14, 23:5, 23:7, 23:12, 23:16, 24:1,</p>
---	---	--	--

<p>25:7, 25:11, 25:22, 26:1, 26:13, 26:18, 27:7, 27:13, 27:16, 28:8, 34:20, 38:8, 38:9, 38:13, 38:17, 38:21, 38:22, 39:5 <b>videoconferencing</b> 39:14 <b>vs</b> 1:11, 2:11</p> <hr/> <p style="text-align: center;"><b>W</b></p> <p><b>want</b> 16:10, 25:24, 41:19 <b>washington</b> 3:7 <b>way</b> 17:7, 23:24, 35:25 <b>ways</b> 39:1 <b>wdh</b> 32:19, 33:2, 33:3, 33:4, 34:7, 34:8, 34:15, 34:19, 34:21, 36:9 <b>wdhs</b> 34:8 <b>we're</b> 21:19 <b>we've</b> 12:20 <b>web</b> 15:16, 17:16, 24:8, 34:23, 37:10 <b>webcam</b> 19:11, 23:8, 25:4, 25:8, 25:14, 25:19, 25:21, 26:1, 28:5 <b>webcams</b> 27:8</p>	<p><b>week</b> 36:19 <b>well-understood</b> 39:13 <b>whatever</b> 7:20, 29:14 <b>whereof</b> 45:6 <b>whether</b> 8:14, 13:2, 16:17, 20:1, 20:25, 25:18, 25:25, 30:12, 35:2, 39:19, 40:10, 40:17 <b>whiteboard</b> 9:4, 9:6 <b>whiteboards</b> 9:7 <b>whole</b> 44:17 <b>wi-fi</b> 30:3, 30:13, 32:1, 32:6, 32:7, 32:8 <b>wide</b> 33:22 <b>windows</b> 17:11, 23:2 <b>wired</b> 30:18, 30:22, 31:14 <b>wireless</b> 31:6, 31:11, 31:13, 31:15, 31:19, 31:21, 31:23, 32:2, 32:3, 32:5, 33:24 <b>within</b> 8:15, 24:13, 25:23, 26:23 <b>without</b> 9:2, 14:25, 41:2 <b>witness</b> 20:6, 28:16, 37:16, 39:24,</p>	<p>41:14, 41:17, 44:13, 44:15, 44:19, 45:6 <b>words</b> 12:7 <b>work</b> 21:10, 33:11 <b>working</b> 20:8 <b>wouldn't</b> 31:24 <b>written</b> 9:8</p> <hr/> <p style="text-align: center;"><b>Y</b></p> <p><b>yealink</b> 1:4, 1:6, 2:4, 2:6 <b>yield</b> 15:15</p> <hr/> <p style="text-align: center;"><b>Z</b></p> <p><b>zoom</b> 33:10</p> <hr/> <p style="text-align: center;">.</p> <p><b>.7500</b> 3:8 <b>.8238</b> 3:23 <b>.9076</b> 3:16</p> <hr/> <p style="text-align: center;"><b>0</b></p> <p><b>00598</b> 1:8, 2:8 <b>02114</b> 3:15 <b>04</b> 28:17</p> <hr/> <p style="text-align: center;"><b>1</b></p> <p><b>10</b> 28:17, 41:15, 42:2 <b>1001</b> 4:7, 6:3, 6:6 <b>1002</b> 4:8, 5:13, 5:17</p>	<p><b>1006</b> 4:11, 19:14, 19:17, 19:19 <b>102</b> 25:19 <b>103</b> 15:10, 15:13, 25:19 <b>109</b> 11:12, 11:15, 12:17 <b>11,966,347</b> 4:7 <b>11,996,347</b> 4:10 <b>1111</b> 2:22 <b>1200</b> 3:21 <b>122</b> 9:3 <b>123</b> 9:4 <b>128</b> 24:17 <b>129</b> 18:23, 21:11, 22:12, 23:13 <b>15</b> 1:24, 2:25, 5:1 <b>17</b> 6:24 <b>18</b> 31:10, 31:18, 31:21 <b>19</b> 4:11 <b>1900</b> 3:6</p> <hr/> <p style="text-align: center;"><b>2</b></p> <p><b>20</b> 6:24 <b>20006</b> 3:7 <b>2017</b> 6:24, 9:7, 39:16</p>
--	---	---	---

<p><b>202</b> 43:12 <b>202.496</b> 3:8 <b>2025</b> 1:8, 1:24, 2:8, 2:25, 5:1, 45:7 <b>218</b> 35:4 <b>22</b> 45:7 <b>227</b> 29:3, 31:25 <b>23</b> 20:11, 31:10, 31:19, 31:21 <b>237</b> 32:18 <b>26</b> 13:5 <b>2900</b> 3:14</p> <hr/> <p style="text-align: center;"><b>3</b></p>	<p>28:2 <b>415.882</b> 3:23 <b>45</b> 13:5, 20:7, 24:12, 28:3, 41:15 <b>47</b> 42:2 <b>48</b> 28:17</p> <hr/> <p style="text-align: center;"><b>5</b></p>	
<p><b>308</b> 23:8, 25:14, 25:19 <b>330</b> 20:9, 20:12 <b>347</b> 5:22, 6:10, 6:12, 6:17, 8:4, 9:16, 31:6, 36:12 <b>38</b> 41:15 <b>3a</b> 20:13, 20:14, 22:18, 25:16 <b>3b</b> 20:14, 20:23, 22:18, 22:20, 25:16 <b>3rd</b> 24:2</p> <hr/> <p style="text-align: center;"><b>4</b></p>	<p><b>5318</b> 1:29, 2:26, 5:5, 44:9, 45:11 <b>56</b> 2:24, 5:1</p> <hr/> <p style="text-align: center;"><b>6</b></p> <p><b>611500</b> 1:30 <b>617.951</b> 3:16 <b>67</b> 6:23</p> <hr/> <p style="text-align: center;"><b>7</b></p> <p><b>77</b> 18:20, 18:24, 23:17 <b>78</b> 18:24, 23:18</p> <hr/> <p style="text-align: center;"><b>8</b></p> <p><b>8</b> 2:24, 5:1 <b>8,369,498</b> 4:11</p> <hr/> <p style="text-align: center;"><b>9</b></p>	
<p><b>40</b> 20:7, 24:12,</p>	<p>28:17 <b>94111</b> 3:22</p>	