Transcript of the Testimony of Andrew Lippman

Date: September 28, 2020

Case: Apple Inc v. Maxell, Ltd.



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Page 1 1 UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD 2 3 APPLE INC. : : Petitioner 4 : VS. : CASE IPR2020-00200 5 : MAXELL, LTD. : 6 Patent Owner : 7 8 9 ORAL AND VIDEOTAPED DEPOSITION OF 10 ANDREW LIPPMAN, PH.D. 11 SEPTEMBER 28, 2020 12 13 14 Called as a witness by the Patent Owner, 15 taken before Debbie Leonard, CSR, RDR, CRR, a 16 Certified Shorthand Reporter in and for the State 17 of Texas, reported by machine shorthand, on 18 September 28, 2020, from 10:45 a.m. to 12:59 19 p.m., proceeding conducted remotely. 20 21 22 23 24 25

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1
                    APPEARANCES
                  (All appearing remotely)
2
     COUNSEL FOR PETITIONER:
3
         JENNIFER C. BAILEY, ESQ.
4
         ERISE IP
         7015 College Boulevard
5
         Suite 700
         Overland Park, Kansas 66211
6
          (913) 777-5600
          jennifer.bailey@eriseip.com
7
     COUNSEL FOR PATENT OWNER:
8
         ROBERT G. PLUTA, ESQ.
9
         AMANDA STREFF BONNER, ESQ.
         MAYER BROWN LLP
10
         71 South Wacker Drive
         Chicago, Illinois 60606
11
          (312) 701-8641
         rpluta@mayerbrown.com
12
         asbonner@mayerbrown.com
13
     VIDEOGRAPHER:
14
15
         Vincent Falcetano
16
17
18
19
20
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	REPORTER'S NOTE	: All quotations from exhibit	ts
24	are reflected i	n the manner in which they we	re
	read into the r	ecord and do not necessarily	
25	denote an exact	quote from the document.	

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Page 5 1 THE VIDEOGRAPHER: Good morning. 2 This is the deposition of Dr. Andrew 3 Lippman taken in the matter of United 4 States Patent and Trademark Office, before 5 the Patent Trial and Appeal Board, of 6 Apple, Inc., Petitioner, versus Maxell, 7 Limited, Patent Owner, case number 8 IPR2020-00200. 9 This deposition is being done 10 remotely via Cisco Webex. The time is approximately 10:45 a.m., and today's date 11 12 is September 28th, 2020. 13 The court reporter is Debbie 14 The video specialist is Vincent Leonard. 15 Falcetano, both from Ace-Federal Reporters, 16 with offices in Washington, DC. 17 Will counsel please identify 18 themselves for the record. 19 MR. PLUTA: Robert Pluta from Mayer 20 Brown on behalf of Maxell, Limited. With 21 me also is Amanda Bonner from Mayer Brown. 22 MS. BAILEY: Jennifer Bailey from 23 Erise IP on behalf of petitioner, Apple, 24 Inc. 25 THE VIDEOGRAPHER: Will our court

Page 6 1 reporter please swear in the doctor. 2 (The witness was placed under oath.) 3 THE VIDEOGRAPHER: You may proceed, 4 Counsel. 5 EXAMINATION 6 BY MR. PLUTA: 7 Good morning, Dr. Lippman. Q. 8 Α. Good morning. 9 Ο. Can you please just state your full 10 name for the record. 11 Sure. My name is Andrew Lippman, Α. 12 L-I-P-P-M-A-N, and I live at 28 Chestnut Street 13 in Salem, Massachusetts. 14 Thank you. Ο. 15 You've been deposed numerous times 16 before, correct? 17 Α. I have. 18 So I won't go over the Q. Okay. 19 general rules, except to say that it's important 20 given this format specifically that we're 21 contending with here, the remote deposition, that 22 we attempt not to talk over each other. Do you 23 understand that? 24 Α. I do. 25 So I'll -- I'll try to wait until Ο.

Page 7 1 you're complete with your answer before I ask the 2 next question, and I'd also ask that you wait 3 until I finish asking the question before 4 answering the question. Fair? 5 Α. Okay. 6 And just one final thing Ο. Great. 7 about IPR depositions in particular is that 8 you're not allowed to talk with counsel during 9 breaks. Do you understand that? 10 Α. I'm sorry. Say that again. There 11 was a squeak on the line. 12 One particular thing about Sure. Ο. 13 IPR depositions is that during any breaks you're 14 not allowed to talk with counsel about the 15 substance of your testimony. Do you understand 16 that? 17 Α. Yes, I do. Can I make a comment? 18 Yes. Q. 19 Those who are not engaged in the Α. 20 discourse might perhaps mute themselves so as to 21 not have spurious noises coming over the channel. 22 Not you. 23 I had to cough, so --Q. 24 All right. Good. Just -- yeah, if 25 you can't hear or you can't hear what I said, I

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Page 8 1 mean, feel free, please, to just speak up and 2 I'll restate the question or ask the court 3 reporter to repeat the question. 4 So let's, I guess, begin. You 5 understand you're here to testify in an IPR 6 proceeding today, correct? 7 Α. Yes. 8 And the proceeding is related to US Ο. 9 patent number 10,084,991, correct? 10 That sounds right. Α. And that is or should be included in 11 Ο. 12 your materials that you have in front of you and 13 designated Exhibit 1001; is that true? 14 (Previously marked Exhibit 1001 was 15 referred to the witness.) 16 THE WITNESS: '991. 17 Ο. (BY MR. PLUTA) Great. 18 I have a clean copy of it. Α. These 19 are not designated as exhibits -- oh, yes, it is. 20 1001, yeah. Yeah. 21 It should be -- most of the exhibit Ο. 22 numbers are in the lower right-hand corner there. 23 Understand. Α. 24 0. Is it okay if we refer to that as 25 the '991 patent today?

Page 9 1 Α. Yes, it is. 2 Q. Great. 3 Did you meet with anyone to prepare 4 for the deposition today? 5 I did. Α. 6 Who did you meet with? Q. 7 I met with Jennifer Bailey. Α. 8 Anyone else? Ο. 9 Α. I believe I might have met with one 10 other counsel, whose name I don't recall offhand, 11 briefly. 12 And was that counsel with Ο. 13 Ms. Bailey's firm? 14 I don't think so. Α. 15 Ο. So you didn't -- you said you didn't 16 recall the counsel's name? 17 Α. No, not offhand. 18 Do you recall the firm that that Q. 19 counsel was with? 20 It can be verified, but I believe Α. 21 Piper. 22 Ο. DLA Piper? 23 Probably, yeah. Α. 24 0. Okay. When did you meet with 25 Ms. Bailey and the attorney from DLA Piper?

		Page 10
1	Α.	Sometime last week.
2	Q.	And did you meet via phone or Webex,
3	or did you m	neet in person?
4	Α.	No, we met remotely.
5	Q.	About how long did you meet?
6	Α.	With who?
7	Q.	I guess that's a fair question.
8		Did you meet with Ms. Bailey and the
9	attorney fro	om DLA Piper together, or were they
10	separate mee	etings?
11	Α.	That was at the tail end of a
12	separate mee	eting.
13	Q.	What do you mean by that answer?
14	Α.	The counsel the additional
15	counsel was	only on a call briefly in the course
16	of one meeti	.ng.
17	Q.	Okay. So you had one meeting with
18	Ms. Bailey,	is that fair, to prepare for today's
19	deposition?	
20	Α.	No. I'm sorry. I don't mean to be
21	unclear. No	o, I had more than one meeting with
22	Ms. Bailey.	I thought you were asking about the
23	third person	1.
24	Q.	Okay. So the attorney from DLA
25	Piper was or	aly present for a portion of a meeting

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Page 11 1 that you had with Ms. Bailey to prepare for 2 today's deposition? 3 I think that's right. Α. 4 And about how long did you meet with Ο. 5 Ms. Bailey to prepare for today's deposition? 6 I don't recall precisely, but Α. 7 several hours. 8 Have you spoken to anyone from Apple Ο. 9 regarding this deposition? 10 Α. No. 11 Ο. Have you spoken to anyone else 12 regarding today's deposition and your preparation 13 of your report? 14 Α. No. 15 Are you familiar with an individual Ο. 16 named Benjamin Bederson? 17 Α. I've met Benjamin Bederson. 18 In what context? Q. 19 In the context of a law case. Α. 20 Do you recall which law case that Ο. 21 was? 22 Α. It was an ITC law case that involved 23 Comcast. 24 Ο. Have you spoken with Dr. Bederson in 25 the context of the dispute between Apple and

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Page 12 1 Maxell? 2 Α. No, I have not. I have not spoken 3 to him since that case, nor actually before, as I 4 can recall. 5 Q. Thank you. 6 Did you review any documents in prep 7 for this deposition today? 8 Α. Yes. 9 Ο. Do you recall which documents? 10 The ones that were sent. Α. 11 Ο. Okay. And the documents that were 12 sent, were all those documents labeled with 13 exhibit numbers or otherwise pleadings in this 14 proceeding, such as the petition? 15 I believe they are. Α. 16 Q. Did you review any other documents 17 in preparation for your deposition today? 18 Α. No. 19 All right. If you could, turn in 0. 20 your materials to your declaration, which is 21 Exhibit 1003. 22 (Previously marked Exhibit 1003 was 23 referred to the witness.) 24 0. (BY MR. PLUTA) Just let me know 25 when you have that in front of you.

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Page 13 1 Α. Exhibit 1003, yes. 2 Ο. Great. When did you begin preparing 3 your declaration? 4 When did I begin preparing my Α. 5 declaration? My God. Perhaps ten months ago. 6 I'm looking at the declaration. The declaration is signed December 19th of 2019. So, sometime 7 8 before that. 9 Ο. Do you recall when you were retained 10 for this matter to provide a declaration? 11 Α. I don't recall precisely, but on the 12 order of a month, six weeks before that. 13 Okay. So October, November of 2019? Q. 14 October, November -- probably before Α. 15 December, yeah. 16 Q. Did you draft your declaration 17 yourself? 18 Α. The drafting was, in general, done 19 jointly, both over the phone and with my own 20 keyboard, and I'm sure with their keyboard. It's 21 obvious which parts I didn't write. 22 Ο. But your declaration, Exhibit 1003, 23 contains all the opinions you intend to offer in 24 this matter, correct? 25 I think it says something about Α.

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Page 14 1 that, that this contains my opinions as of that 2 time, but I believe I reserve the right to 3 supplement it as need be, or words to that 4 effect. Would you like me to check? 5 Q. Sure. 6 I'm not sure where it says it or Α. 7 whether it even says that. 8 Maybe we can get at it a different Ο. 9 way. 10 You said that your declaration, 11 Exhibit 1003 [indiscernible], correct? 12 THE REPORTER: I'm sorry --13 THE WITNESS: I'm sorry. Say that 14 again. 15 Ο. (BY MR. PLUTA) You stand by the 16 opinions expressed in your declaration, correct? 17 Α. I do. 18 In your declaration, you discuss Q. 19 various pieces of what we call prior art, 20 correct? 21 Α. Yes. 22 Did counsel provide that prior art Ο. 23 to you for your consideration prior to signing 24 your declaration? 25 Α. I believe that's correct.

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Page 15 1 Ο. So are you familiar with the 2 Asmussen reference, Exhibit 1004, you've offered 3 opinions on? 4 (Previously marked Exhibit 1004 was 5 referred to the witness.) 6 THE WITNESS: Yes. 7 Is that a reference Q. (BY MR. PLUTA) 8 that was provided to you by counsel? 9 Α. I believe it was. 10 And what about Exhibit 1005, the 0. Bear reference, is that an exhibit that was -- a 11 12 reference that was provided to you by counsel? 13 (Previously marked Exhibit 1005 was 14 referred to the witness.) 15 THE WITNESS: I believe that's true 16 as well. 17 Ο. (BY MR. PLUTA) Would that be true 18 for all the references in which you rely on the 19 grounds set forth in your declaration, that 20 counsel provided you all those references? 21 Α. That's 11 months ago. I can't be 22 sure, but I don't think there were any that I 23 provided myself. 24 Q. Thank you. 25 Take a look at paragraph 16, please,

Page 16 1 of your declaration, which is on page 89. 2 Α. Okay. 3 Ο. This appears to be a list of the 4 documents you considered in forming your opinion; 5 is that fair? 6 It is such a list. Α. 7 And were these the only documents Ο. 8 you reviewed in preparation for your declaration? 9 I don't recall reviewing anything Α. 10 that's not in that list. 11 Have you reviewed any other Ο. 12 documents since signing your declaration, 13 relating to this matter? 14 No, I have not. Α. 15 Ο. Okay. For example, are you aware 16 that the district court in the underlying 17 litigation issued a claim construction order 18 since you issued this declaration? 19 Α. Wait a minute. I'm sorry. I might 20 have misunderstood your question. Ask me that 21 question again, because I think I might have misunderstood it. 22 23 Sure. So the listing at Ο. 24 paragraph 16 of your declaration, you indicated 25 that those are the documents you reviewed in

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Page 17 1 preparation for your declaration; is that right? 2 Α. Yes. 3 Ο. And then I asked whether you've 4 reviewed any other documents related to this 5 matter since the signing of your declaration. 6 Right. And I guess I misunderstood, Α. 7 because I have a couple of other documents before 8 me that include the patent owner's preliminary 9 response to the petition, and I believe I have 10 the decision-granting institution from the patent 11 And those did -- I don't believe office. 12 those -- I didn't -- I didn't see the decision 13 before the declaration, for sure, and I don't 14 think I saw the response before the declaration. 15 So I'm sorry. I misunderstood your 16 question. 17 Ο. No, that's fine. Thank you. 18 Any other documents that you 19 reviewed that postdate your declaration in 20 December of 2019? 21 Other than those two? Α. No, I don't 22 think so. 23 About how much time did you spend Ο. 24 drafting your report? 25 Drafting my declaration? Α.

Page 18 1 Ο. Yes. 2 Α. I don't recall. 3 Okay. Dr. Lippman, are you familiar Ο. 4 in the context of the '911 patent with the term 5 "communication apparatus"? 6 Yes, I believe that's used in the Α. 7 claim. 8 And do you recall Ο. That's correct. 9 that the petition construes the term 10 "communication apparatus" as used in the claims as a videophone function-added TV receiver? 11 12 Sorry. Which petition? Α. 13 The petition filed by Apple against 0. 14 the '991 patent. 15 Α. Okay. So that's -- I don't believe 16 that's marked as an exhibit. 17 Ο. It is not, correct. It would -- it 18 would be perhaps one of the first documents in 19 your stack, although I haven't seen the documents 20 in front of you, but it's -- it forms the basis 21 of why we're here today. 22 Α. Yeah, I can understand that. The 23 stack is rather disorderly. What -- where are 24 you referring in that? 25 Starting at page 8. Ο.

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Page 19 1 Α. Page 8 of the petition for inter 2 partes review? 3 Ο. Correct. 4 I see page 8. Α. 5 And then on page 9 there's a Q. Okay. 6 discussion of the term "communication apparatus." 7 Do you see that? 8 Α. Yes. 9 Ο. And Apple contends "A proper 10 construction for 'communication apparatus' is a 'videophone function-added TV receiver.'" 11 12 Do you see that? 13 Α. Yes, I do. 14 Did you consider Apple's proper Ο. 15 construction of "communication apparatus" when 16 offering your opinions in this case? 17 Α. I'm not even sure that I saw that 18 before I prepared my declaration, but do I 19 address that in my report or my declaration? 20 Feel free look at Exhibit 1003, Ο. 21 which is your declaration. 22 Α. Right. 23 (Court reporter clarification.) 24 THE REPORTER: Can we just go off 25 the record real quick?

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	Page 20
1	MR. PLUTA: Sure.
2	THE VIDEOGRAPHER: Going off the
3	record, 11:06 a.m.
4	(Recess from 11:06 a.m. to
5	11:08 a.m.)
6	THE VIDEOGRAPHER: We are back on
7	the record, 11:08 a.m.
8	Q. (BY MR. PLUTA) I think there was a
9	question pending. Do you have that in mind, or
10	would you like it read back?
11	A. I suppose it wouldn't hurt to have
12	it read back. I will cease shuffling papers
13	while you're doing that.
14	(The court reporter read the
15	referred-to portion of the record.)
16	MR. PLUTA: That's fine. I guess
17	that really isn't a question.
18	Q. (BY MR. PLUTA) Let me ask the
19	question. We were just discussing Apple's
20	construction of "communication apparatus" set
21	forth in the petition, and the question is, do
22	you address that at all in your declaration and
23	in your analysis of the '991 patent?
24	A. I'm not sure I address it in those
25	terms or precisely, but I it would help if you

Page 21 1 would tell me what you want me to look at. 2 Well, did you -- did you apply a Ο. 3 construction to the term "communication 4 apparatus" in your analysis of the claims? 5 Α. That's a -- that's a difficult 6 question to answer because of the word 7 "construction." And construction of a claim is a 8 term of art in the legal profession, so I don't 9 generally make a construction. I rely on the 10 courts to do that. 11 Ο. Okay. But you understand Apple 12 construed the term "communication apparatus" as 13 used in the claims as a videophone function-added 14 TV receiver, right? 15 Α. You're talking about page 9? 16 Q. Correct. It reads that "A proper construction 17 Α. 18 for 'communication apparatus' is a 'videophone 19 function-added TV receiver.'" 20 And you understand that's Apple's Ο. 21 position, correct? 22 Α. I understand that they asserted 23 that, yes. 24 Ο. And my question is, do you agree 25 with their assertion there when you --

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Page 22 1 MS. BAILEY: Objection. Scope. 2 MR. PLUTA: Sorry. Let me get my 3 question out first. 4 (BY MR. PLUTA) My question is, did Ο. 5 you agree with Apple's assertion with respect to 6 that claim construction when you were drafting 7 your declaration? 8 I don't believe -- I'm not sure that Α. 9 I -- I don't believe that I disputed it. I'm not 10 sure that I said anything about it. 11 Did I -- the entire document is in 12 front of me, and it was drafted 11 months ago and 13 reviewed in the last week, so I apologize for not 14 being able to instantly quote chapter and verse. But if you want to point me at a section where I 15 16 address that, I'd be happy to look. 17 Ο. I understand. What I'm trying to 18 understand, Dr. Lippman, is when you came across 19 the term "communication apparatus" in the claims 20 of the '991 patent, whether you were interpreting 21 the claims in light of the prior art in view of 22 Apple's construction offered in its petition or 23 some other type of construction? 24 Α. I -- I don't believe that I created 25 any other construction. I'm not sure I created

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Page 23 1 any construction. As I say, "construction" is a 2 loaded word that I avoid using. 3 Okay. Please turn to Exhibit 1001, Ο. 4 which is the '991 patent. 5 Excuse me while I shuffle papers. Α. 6 Somewhere here I've got the '991. 7 There we go. This is Exhibit -- apologies --8 Exhibit 1001. 9 Ο. Correct. Thank you. 10 Would you agree that the '991 patent 11 generally relates to an apparatus that allows a 12 user to seamlessly and automatically switch 13 between watching video content and participating 14 in a video call in a single device? 15 Α. That's a mouthful. If I look at my 16 report, I believe I have a summary of '991. 17 Q. Can you answer the question as I 18 posed it? 19 I'm just going to -- I mean, if it's Α. 20 okay, I'm going to refer to what I said in the 21 report as an answer to the question, because I 22 just want to make sure that I -- what I said in the report, because you asked if that was what 23 I -- I believed, or whatever. 24 25 Let me -- let me re-ask the question Ο.

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Page 24 1 because it was a little different than that. Ι 2 asked if you agreed if the patent -- the '991 3 patent generally relates to an apparatus that 4 allows for a user to seamlessly and automatically 5 switch between watching video content and 6 participating in a video call in a single device. 7 Well, what I say is that the patent Α. 8 describes an improved TV receiver that's capable 9 of receiving both traditional over-the-air 10 digital television signals and video on demand, as well as providing functionality for making and 11 12 receiving video telephone calls. 13 Okay. So when you state that, it Ο. 14 sounds like you're agreeing with me, that the 15 '991 patent generally relates to seamlessly 16 switching between video content and participating 17 in a video call within the context of a single 18 device; is that true? 19 It says that -- that -- in the Α. 20 background, the patent describes that those were 21 generally separate devices, so the patent's 22 solution is to combine the independent 23 technologies of the videophone and that of the TV 24 receiver in a device that can handle both 25 reception and TV programming and videophone

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Page 25 1 calls. 2 And you agree that's what the '991 Ο. 3 patent teaches? 4 That's what I say. That's what I Α. 5 said, yes. 6 Q. Take a look at claim 1, Okay. 7 please, of the '991 patent. 8 Α. I'm there. 9 Ο. Claim 1 recites a network 10 interface -- among other things, a "network 11 interface configured to receive first digital 12 information which is received from a contents 13 server which is coupled to the communication apparatus via the network interface and second 14 15 digital information from another communication 16 apparatus." 17 Did I read that correctly? 18 Α. Sounds good to me. 19 And you've designated this claim Ο. 20 element as element 1(a) in your declaration, 21 correct? 22 Α. I believe it's designated 1(a) 23 consistently in most documents. 24 Okay. So if I refer to element Ο. 25 1(a), you're going to know what I'm talking

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Page 26 1 about; it's the network interface element? 2 Α. Yes. 3 Ο. Okay. Thank you. 4 And in the '991 patent, the network 5 interface is illustrated by element 15, correct? 6 Again, where is element -- you said Α. 7 element 15? 8 Correct. Let me point you to Ο. 9 Figure 2, if that would help. 10 Yes, I see Figure 2. Α. 11 Ο. Okay. So as described in the '991 12 patent, the network interface is illustrated by 13 element 15, the network I/F15. Do you agree with 14 that? 15 Α. I'm checking my report, but that 16 sounds, offhand -- I believe I refer to it as 17 that. 18 If I'm shuffling papers, please 19 interrupt and yell. 20 I'm sorry. I'm not sure if I'm --Ο. 21 I'm waiting for your answer, so -- or you're 22 still looking, but the question was, as described 23 in the '991 patent, the network interface is 24 illustrated by element 15; is that correct? 25 A network interface is shown as Α.

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Page 27 1 element 15. 2 Ο. Okay. Thank you. 3 And network interface 15 in the '991 4 patent serves as both a receiver and sender of 5 information, correct? 6 I believe that's right. Α. It's two 7 ways. 8 And you acknowledge that in your Ο. 9 annotation to Figure 2 on page 47 of your 10 declaration, correct? 11 Α. I do. 12 Now, looking back to element 1(a) of Ο. 13 Exhibit 1001, the '991 patent, according to that 14 claim, the network interface must both receive 15 the first digital information and the second 16 information, digital information, correct? 17 Α. I'm sorry. Say that again. 18 Q. According to claim 1, Sure. 19 specifically element 1(a), the network interface 20 must both receive the first digital information 21 and the second digital information, correct? 22 Α. I'm not sure that that's complete or 23 therefore fully correct, because there's also 24 digital information that comes in via the 25 broadcast tuner, number 10.

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Page 28 1 Ο. Okay. But focusing on element 2 1(a) -- do you have that in mind or in front of 3 you? 4 Α. I do. 5 According to that element, the Ο. 6 network interface must both receive the first 7 digital information and the second digital 8 information; is that right? 9 I think that's roughly the same Α. 10 question, and the answer is "not necessarily." First digital information could likewise come 11 12 from the broadcast tuner. 13 Q. I'm sorry. You said the first 14 digital information could come from the broadcast 15 tuner? 16 Α. Yeah, I think that's right. That 17 could be digital information as well. 18 And can you point me to your report Q. 19 where you opine on that? 20 I'm not sure I can in realtime. Α. 21 I don't recall that as being an Ο. 22 opinion that you've offered in Exhibit 1003. 23 MS. BAILEY: Objection. Form. 24 THE WITNESS: Who said what? 25 MS. BAILEY: I stated, "Objection.

Page 29 1 Form." There's not a question. That was a 2 statement. 3 (BY MR. PLUTA) I don't recall that Ο. 4 you opined in your declaration that the broadcast 5 tuner could receive first digital information. 6 Can you please point me to the location in 7 Exhibit 1003 where you made that opinion? 8 I can point you to paragraph 88, Α. 9 where it says, "When in a TV program viewing mode 10 [sic], the function-added TV receiver is 11 'receiving an over the air digital broadcast 12 program signal by the antenna 9.'" 13 So paragraph 88 addresses receiving 14 digital broadcasting via the tuner, and paragraph 89 traces receiving digital information 15 16 for the case of video on demand. 17 Before you ask a question, can I 18 just ask a status check, if everybody is okay, 19 because I've got a panel here that says, "We're 20 detecting background noise from your microphone." 21 This is an offline comment. Is the audio okay 22 for everybody? 23 (Discussion off the record.) 24 0. (BY MR. PLUTA) Okay. Going back --25 so you pointed to paragraph 88 with respect to

Page 30 1 reception of an over-the-air digital broadcast 2 program signal by the antenna 9, correct? 3 A broadcast -- digital broadcast Α. 4 program signal, yes. 5 Q. So with that in mind, I'm going to 6 ask my original question: According to claim 7 element 1(a), the network interface of the '991 8 patent must both receive the first digital 9 information and the second digital information. 10 Do you agree with that? 11 Α. Well, again, in paragraph 89, I 12 state that in video on demand mode, the request 13 for video on demand goes through the network 14 interface. Is that an answer to your question? 15 I'm -- I'm putting the question in Ο. 16 the context of the claim language. Do you 17 understand element 1(a) to have claim language 18 that recites first digital information and second 19 digital information? 20 Α. Yes. 21 And do you understand that claim Ο. 22 language to require the network interface must 23 both receive the first digital information and 24 the second digital information? 25 Yeah -- well, there has to be first Α.

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Page 31 1 digital information and second digital 2 information that come through a network 3 interface. 4 Ο. Okay. Thank you. 5 And the network interface of element 6 1(a) must receive both the first and second 7 digital information? 8 Α. Well, I think I've said that you can 9 also have first digital information coming via 10 the tuner. 11 Ο. I understand that's your position. 12 But regardless of whether it's received by the 13 tuner 10 through the antenna 9, do you agree that 14 the network interface is receiving both the first 15 digital information and the second digital 16 information, according to element 1(a) of the 17 '991 patent, claim 1? 18 Well, I'm not sure I understand the Α. 19 question. The patent describes a video 20 television receiver that can do videophones and 21 it can receive digital information. The patent 22 describes digital information as a television 23 That could be one. It also describes program. 24 video on demand as another mode of operation. 25 That can be two. So those can come in via

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Page 32 1 network interfaces. 2 So you would agree that the network Ο. 3 interface element in the '991 patent receives 4 both first digital information and second digital 5 information? 6 There are occasions where it can, Α. 7 but you can also receive first digital 8 information via tuner. 9 Ο. I'm talking specifically about 10 claim 1, element 1(a). 11 Α. I thought I was being responsive to 12 that. 13 Take a look at what you've Ο. 14 designated element 1(e) in the '991 patent. Ιf 15 you could take a look at claim 1, 1(e) states 16 "wherein when the processor receives an inbound 17 videophone call notice while displaying the first 18 digital information on the display, the processor 19 pauses the displaying of the first digital 20 information and renders the camera operative." 21 Did I read that correctly? 22 Α. Yes, you did. 23 And that is what you designate or Ο. 24 denote as element 1(a) -- 1(e) in your 25 declaration?

Page 33 1 Α. Yeah, element 1(e), I believe that's 2 correct. 3 Okay. I'd like to explore your Ο. 4 opinions with respect to that element. Okay? 5 When you look at element 1(e) of 6 claim 1, that element does not simply require 7 that the camera is rendered operative, correct? 8 MS. BAILEY: Objection to form. 9 THE WITNESS: I'm sorry. Say that 10 again. 11 (BY MR. PLUTA) Yes. If you look at Ο. 12 element 1(e) of claim 1, that element does not 13 simply require that the camera is rendered 14 operative, correct? 15 MS. BAILEY: Same objection. 16 THE WITNESS: The claim has several 17 phrases in it, and it says when the 18 processor receives an inbound video call --19 sorry -- videophone call notice while 20 displaying the first digital information, 21 the processor pauses the displaying of the 22 first digital information and renders the 23 camera operative. 24 So claim 1 includes more than just 25 rendering the camera operative. Was that

Page 34 1 what your question was? 2 (BY MR. PLUTA) Correct. Ο. Thank you. 3 And you agree that the camera must 4 be rendered operative by the processor, correct? 5 I think I -- yes. Α. 6 And you agree that the camera must Ο. 7 be rendered operative by the processor when the 8 processor receives an inbound videophone call 9 notice? 10 I'm not sure that it has to be Α. 11 solely rendered by the processor, but ultimately 12 what has to happen is that the camera is rendered 13 operative. 14 If it's not rendered operative by Ο. 15 the processor, how else is it rendered operative, 16 in your opinion? And please point me to your 17 declaration. 18 Excuse me while I shuffle things. Α. Ι 19 can actually do that more quietly, can't I? 20 I know that I discuss this in the 21 context of Asmussen. 22 Sorry. Were you done? Ο. 23 Α. Yes. 24 Q. Okay. Thanks. I didn't want to cut 25 you off.

Page 35 1 Α. I apologize for not signaling that, 2 yes. 3 I understand you discuss it in the Ο. 4 context of Asmussen, but what I'm asking in this 5 specific question relates to looking at the claim 6 language of claim 1 in the '991 patent, and my 7 question is whether you agree that the camera 8 must be rendered operative by the processor when 9 the processor receives an inbound videophone call 10 notice. 11 The -- ultimately the processor is Α. 12 in control of the operation of the camera, but 13 the agency by which it executes that control can 14 be a variety of things. 15 Ο. Well, claim 1 doesn't say anything 16 about that the claim -- the camera can be 17 rendered operative by an agency of various 18 things, right? 19 Well, I guess the point is the Α. 20 processor is executing a program, and so if 21 there's a wire from the processor to the camera 22 to energize it, then in some sense the camera is 23 energized by the processor, but that 24 determination of energizing is -- is what I mean 25 by the agency of it.
	Page 36
1	Q. Okay. Would you agree that the
2	claim element 1(e) requires that the camera is
3	rendered operative by the processor when the
4	processor pauses the displaying of the first
5	digital information?
6	A. I'm sorry. Say that again. I'm
7	looking at the claim language while you say that.
8	Q. Sure. And it should look familiar,
9	but I'm asking if you agree that the claim
10	requires that the camera is rendered operative by
11	the processor when the processor pauses the
12	displaying of the first digital information?
13	MS. BAILEY: Objection. Form.
14	THE WITNESS: I'm not sure in my
15	report that I step through the sequence of
16	elements in quite that way.
17	Q. (BY MR. PLUTA) So are you
18	disagreeing with the statement that the claim
19	requires that the camera is rendered operative by
20	the processor when the processor pauses the
21	displaying of the first digital information?
22	MS. BAILEY: Objection. Form.
23	THE WITNESS: I'm not sure I
24	understand the question that I'm am I
25	disagreeing with what?

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Page 37 1 Ο. (BY MR. PLUTA) Take a look at claim 2 element 1(e). Do you have that language in front 3 of you there? 4 Α. I do. 5 Do you see that it says, towards the Q. 6 last clause of the element, "the processor pauses 7 the displaying of the first digital information 8 and renders the camera operative"? 9 Do you see that? 10 Α. I do. 11 So do you agree that the claim Ο. 12 requires that the camera is rendered operative by 13 the processor when the processor pauses the 14 displaying of the first digital information? 15 MS. BAILEY: Objection. Form. 16 THE WITNESS: I'm not sure I understand the difference between what 17 18 you're asking and what the claim language 19 The claim language says the processor is. 20 pauses the displaying of the first digital 21 information and renders the camera 22 operative. 23 (BY MR. PLUTA) Ο. Okay. 24 Α. I understand that, but I'm having 25 trouble understanding the difference between what

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Page 38 1 you're asking and what the claim language is. 2 I don't see any difference, Ο. 3 actually, other than maybe I'm just phrasing it a 4 little differently, but let me just get your 5 agreement. 6 So you agree that the processor 7 pauses the displaying of the first digital 8 information and then renders the camera 9 operative? 10 I agree that that's in the claim; Α. 11 the processor pauses the displaying of the first 12 digital information and renders the camera 13 operative. 14 Okay. And you don't have any other Ο. 15 reading of the claim that would be different, 16 right? 17 MS. BAILEY: Objection. Form. 18 THE WITNESS: To the extent that 19 that sentence says what it says, it says 20 the processor pauses the displaying and 21 renders the camera operative. But, again, 22 the question is whether -- I mean the --23 not the question but the -- as far as it 24 goes, I understand that sentence, and I 25 don't disagree with it, only as far as it

Page 39 1 qoes. 2 (BY MR. PLUTA) Okay. Staying on Ο. 3 element 1(e), claim element 1(e), would you 4 agree, does not recite that the camera is 5 rendered operative by the processor when a user 6 accepts a videophone call? 7 Objection. MS. BAILEY: Form. 8 THE WITNESS: That language is not 9 in the claim. 10 0. (BY MR. PLUTA) So element 1(e) 11 requires that the camera is rendered operative by 12 the processor without [indiscernible] --13 (Court reporter clarification.) 14 (BY MR. PLUTA) Claim 1(e) requires, Ο. 15 then, that the camera is rendered operative by 16 the processor without user input; is that 17 correct? 18 Objection. MS. BAILEY: Form. 19 THE WITNESS: I'm not sure that the 20 claim is definitive on that. 21 (BY MR. PLUTA) What do you mean? Ο. 22 Α. All that it says is those two things 23 must happen, but recall I used the word "agency" 24 before. It doesn't preclude or eliminate that 25 there be user intervention as a possibility.

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Page 40 1 Ο. Okay. So when you gave an example 2 of agency before, you gave the example of, for 3 example, an intermittent wire between the 4 processor and the camera to render it operative. 5 Are you including other types of agency that 6 allow the processor to render the camera 7 operative? 8 Α. I'm not sure. I don't believe I 9 said what you just said. And if I did, I didn't 10 mean to. 11 If there's a wire between the camera 12 and the processor, then in some way the processor 13 is causing the camera to be operative or not. 14 But the agency has to do with what programming in 15 the processor causes it to make the camera 16 active, not the existence of the wire but rather 17 the programming in the processor. 18 Q. Okay. Sorry. I wasn't trying to 19 mischaracterize your testimony. I think I just 20 misunderstood it. 21 So --22 Α. I apologize for being unclear. 23 The agency that you were discussing Ο. 24 earlier, then, has to do with the programming of 25 the processor? Is that a fair summary?

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Page 41 1 Α. Yes. 2 Are there any other types of Ο. Okay. 3 agency that come into play that allows the 4 processor to act how it's supposed to act? 5 Α. Well, I -- I think the gist of what 6 you're trying to ask is that the processor is 7 executing a program, and it is the programming 8 that actually causes the processor to render the 9 camera operative or not. 10 Q. Okay. And in the context of my 11 question earlier -- let me just go back to that 12 and then we can pick up on this discussion -- I 13 asked whether you agreed that claim element 1(e) 14 renders -- or requires that the camera is 15 rendered operative by the processor without user 16 input, and then you, I think, disagreed with 17 that. And then you referenced your terminology 18 of "agency." I'd like to know what you meant by 19 that in the context of that clause of element 20 1(e). 21 Objection. MS. BAILEY: Form. 22 THE WITNESS: Claim element 1(e) 23 does not preclude that there be user 24 intervention nor does it require it. 25 (BY MR. PLUTA) Okay. So when you Ο.

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Page 42 1 reference an "agency," for lack of a better term, 2 that acts on the processor, you're also including 3 user input as that agency? 4 I think you could probably Α. 5 substitute the word "programming" for "agency" so 6 as not to confuse things by adding some new 7 hard-to-define term. 8 If the processor renders the camera 9 operative, the processor renders the camera 10 operative by dint of the program running in the 11 processor. That program could be responsive to 12 It could be responsive to many other user input. 13 things. 14 Okay. Thank you. Ο. 15 Α. Is this a convenient time to take a 16 break? 17 Ο. Sure. Yes. 18 Α. Not a particularly long break. 19 Ten minutes? Is that fine? Q. 20 MS. BAILEY: I'm fine with five 21 minutes, if that works for you. 22 MR. PLUTA: Five minutes is great. 23 Dr. Lippman, does that MS. BAILEY: 24 work for you? 25 THE WITNESS: Five minutes.

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Page 43 1 THE VIDEOGRAPHER: Going off the 2 record, 11:45 a.m. This ends media file 3 number 1 in the deposition of Dr. Andrew 4 Lippman. 5 (Recess from 11:45 a.m. to 6 11:53 a.m.) 7 THE VIDEOGRAPHER: We are on the 8 record at 11:53 a.m. This begins media 9 file number 2 in the deposition of 10 Dr. Andrew Lippman. 11 (BY MR. PLUTA) Mr. Lippman, please Ο. 12 take a look at Exhibit 1004, which is the patent 13 to Asmussen. 14 Asmussen is one of the references 15 you utilized to express your opinion that the 16 claims of the '991 patent are unpatentable, 17 correct? 18 Rendered obvious, yes. Α. Yes. 19 You don't offer an opinion, however, Ο. 20 that Asmussen alone renders the challenged claims 21 obvious; is that right? 22 I believe that's correct. Α. 23 Asmussen discloses, would you agree, Q. 24 a set top converter box or terminal for a 25 television program delivery system that provides

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Page 44 1 both a menu generation capability as well as a 2 number of advanced features and functional 3 capabilities? 4 Α. I think you're quoting from 5 Asmussen. 6 I am. Column 3, line 21 through 30. Ο. 7 "More specifically, the present Α. 8 invention is an advanced set top converter box 9 that acts as a terminal in the viewer's home." 10 Is that what you were referring to? 11 Ο. I was referring to column 3, 12 lines 21 through 30. But is that your general 13 understanding of what Asmussen discloses? 14 Α. I understand that to be the summary. 15 I accept that. 16 Q. The set top terminal, according to 17 Asmussen and as set forth in column 3, lines 31 18 through 41, is achieved through a set of hardware 19 upgrades which provide additional advanced 20 features and functional capabilities. Do you 21 agree with that? 22 Α. It addresses upgrades to set top 23 boxes. 24 Ο. Take a look at column 4, lines 31 25 through 54, please. If you can, just read those

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Page 45 1 to yourself before I ask the next question. 2 31 through --Α. 3 Ο. 54. 4 I think I'm with you. Α. Do you agree that the objects 5 Q. Okay. 6 of Asmussen's invention are directed primarily 7 towards menus and interfaces allowing users to 8 access television programs and program options? 9 I believe that it is at least a Α. 10 suite of things as listed there. 11 Ο. Okay. Let's, in the context of 12 Asmussen, discuss your opinions relating to the 13 network interface element of claim 1. Okay? 14 Α. Yes. 15 It's your contention that the claim Ο. 16 network interface of the '991 patent is met in 17 Asmussen collectively by the tuner 603 and the 18 receiver 750; is that right? 19 You changed gears. You were talking Α. 20 about claim element 1(e), and now I believe 21 you're talking about claim element 1(a)? 22 Ο. Correct. 23 Α. Give me a moment to return to my 24 report to where I address that. 25 I would suggest -- and maybe Ο. Sure.

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Page 46 1 I can point to paragraph 82. 2 Α. Okay. 3 I'll restate my question. Ο. 4 It is your contention that the claim 5 network interface of the '991 patent is met in 6 Asmussen collectively by the tuner 603 and receiver 750 of Asmussen? 7 8 Α. You're referring to my chart? 9 Ο. I am. 10 The chart says that the collective Α. 11 tuner and receiver 750 are the network interface. 12 And that's your opinion today, Q. 13 correct? 14 I still agree with what I said in my Α. 15 report. 16 Q. Okay. Now, if you could, take a 17 look at Figure 4 of Asmussen, Exhibit 1004. And 18 can you find the tuner 603 in the upper left-hand 19 corner of Figure 4? 20 Α. Yes. 21 So the tuner 603 serves only as a Ο. 22 receiver of cable TV input, correct? 23 In Figure 4, it's shown as receiving Α. 24 CATV input. 25 Okay. Take a look at Figure 11 as Ο.

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Page 47 1 And if you could, find the tuner 603 in well. 2 that figure -- below the figure. 3 Α. I see it, yes. 4 And tuner 603 in Figure 11 serves as Ο. 5 a receiver of the cable in signal from the 6 headend. Would you agree with that? 7 The tuner 603 is receiving a cable Α. 8 signal. 9 Ο. From the headend, correct? 10 Α. Figure 11 says from the headend. 11 Okay. Take a look at Figures 12a Ο. 12 and 12b on the next pages. 13 Okay. Figure 12a and 12b, yeah. Α. 14 Figure 12a shows the components, Ο. 15 according to Asmussen, of the level A, B, and C 16 hardware upgrades; is that correct? 17 Α. That -- [indiscernible] -- in 12a. 18 (Court reporter clarification.) 19 THE WITNESS: That's depicted in 20 12a. 21 And then 12b shows 0. (BY MR. PLUTA) 22 the components of the level D hardware upgrades; 23 is that correct? 24 Α. That's what it says in 12b, yes. 25 Now, in both Figure 12a and 12b, the Ο.

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Page 48 1 cable TV signals are input to the set top 2 terminal 220 through the tuner 603; is that 3 right? 4 I'm sorry. What are you referring Α. 5 to? 6 Take a look at 12a and 12b, or else Q. 7 I could just break up the question if you want to 8 look at them separately. 9 I guess I'm ready for your question. Α. 10 Okay. In both Figures 12a and 12b, 0. 11 the cable TV signals shown there are input to the 12 set top terminal 220 through the tuner 603. Do 13 you agree with that? 14 Not exactly. It says that cable Α. 15 television input signals are going to the tuner. 16 Q. Okay. So I'm having a hard time 17 distinguishing why you disagree with my question. You said "not exactly." What did I get wrong? 18 19 MS. BAILEY: Objection. Form. 20 THE WITNESS: What's shown in Figure 21 12a is that a cable input signal goes to 22 the tuner. 23 (BY MR. PLUTA) Okay. And would you Q. 24 agree the same is shown in Figure 12b? 25 Α. That a --

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Page 49 1 Ο. That the cable TV input is going 2 into the tuner? 3 Α. A cable -- an input from the cable 4 is going into the tuner. Well, actually, 12b, 5 it's kind of funny, isn't it? It shows the arrow 6 going the other way. 7 Right. And would you agree that Q. 8 that's likely a mistake, that it's supposed to be 9 going into the tuner 603, the cable TV input in 10 Figure 12b? 11 I'd have to look at Α. I don't know. 12 it. 13 Go ahead. Q. 14 I don't know. Might be. Α. 15 Let's take a look at Asmussen at Ο. 16 column 28, 7 through 12. 17 Α. Column 28. 18 Lines 7 through 12. Are you there? Q. 19 Α. I'm there. I'm looking at it, yes. 20 Okay. So it says, "Figure 12b Ο. 21 diagrams the intersection between the set top 22 terminal 220 and the Level D hardware upgrade, 23 indicated generally at 130. As shown in the 24 figure, the cable TV [sic] signals are input to 25 the set top terminal 220 through its tuner 603

Page 50 1 and receiver component 601." 2 Do you see that? 3 Α. Yes, sir. 4 So would you agree that in Figure Ο. 5 12b the cable TV signals are input to the set top 6 terminal 220 through the terminal? 7 Α. TV signals are input into there, 8 yes. 9 Ο. Okay. Thank you. 10 Now, you also, we discussed, contend 11 that Asmussen's receiver, element 750, is part of 12 the network interface of claim 1, correct? 13 I believe I do in the chart, yes. Α. 14 Okay. Can you take a look at Ο. 15 Figure 30, please, of Asmussen. 16 Α. Okay. 17 Ο. And you'll see on the far right is 18 receiver 750? 19 Α. Yes. 20 And the receiver 750 is shown by the Ο. 21 arrow to receive an input, correct? 22 Α. Yes. 23 In fact, if we look at column 50, Q. 24 lines 44 through 49 of Asmussen, would you agree 25 that the receiver 750 is described as receiving

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Page 51 1 an incoming, i.e., downstream video conferencing 2 signal? 3 Α. I'm turning to Asmussen column 50. 4 Sorry. Which --5 Line 44, please. Q. 6 Column 50, lines 44 --Α. 7 Through 49. Q. 8 Yeah, line 44, he says, "In regards Α. 9 to reception, an incoming [sic] video 10 conferencing signal is received by receiver 750." 11 Ο. Okay. So are you aware of any other 12 disclosure in Asmussen other than Figure 30 in 13 column 50 that discuss the receiver 750? 14 That's asking me to look at a Α. 15 I can't assert definitively that there negative. 16 are no other references to 750, but that's a reference to 750 in column 50. 17 18 Sorry if that was a complicated 19 sentence. 20 Ο. That's okay. 21 If you refer to paragraph 15 of 22 your -- I'm sorry -- 115 of your declaration, 23 you're discussing the receiver 750. Would you 24 agree that the receiver 750 is part of Asmussen's 25 upgraded components?

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Page 52 1 Α. I'm sorry. Say that again. I was 2 looking at -- I turned to paragraph 115. 3 Ο. 115. 4 I was glancing at 115 while you Α. 5 asked your question. I apologize. 6 Q. No problem. 7 So my question is, do you Okay. 8 agree that receiver 750 is part of Asmussen's 9 upgraded components? 10 I hadn't used the word "upgrade," I Α. 11 guess, but they are part of the system that is 12 used for transmitting and receiving data on a 13 video call. 14 Ο. Now, does receiver 715 -- I'm sorry. 15 Strike that. 16 Does Asmussen's receiver 750 discuss 17 anything about transmission? 18 Α. I'm not sure I understand the 19 question. 20 You just testified that Asmussen Ο. 21 discusses reception and transmission in the 22 discussion of paragraph 115. Is that a fair 23 summary of what we were just discussing? 24 Α. I'm not sure, but paragraph 115 does 25 say the upgraded capabilities include video

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Page 53 1 calling and that video calling requires an 2 upstream or reverse pass -- path or transmission 3 communication capability. 4 Okay. And my question is does Ο. 5 receiver 750 provide that transmission 6 capability? 7 Α. The receiver provides the reception 8 capability. The receiver is the component that 9 receives incoming downstream video conferencing 10 signals. 11 Ο. Okay. Take a look at paragraph 116, 12 please. 13 Paragraph 116 in my declaration? Α. 14 Correct. Thank you. Ο. 15 Α. Yes. 16 Q. You state here that "Figure 12a is 17 an exemplary embodiment of how the receiver 750 18 and the transmitter 730 would be integrated into 19 the set top terminal"; is that correct? 20 Α. Yes. 21 And that's still your opinion today? Ο. 22 Α. Unless you misstated what I wrote, 23 what I wrote is my opinion. 24 0. Okay. And, again, Figure 12a is 25 generally referred to by Asmussen as showing the

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1	level A, B, and C hardware upgrades, correct?
2	A. It's so labeled.
3	Q. Asmussen does not disclose receiver
4	750 or the transmitter 730 as being included in
5	the level A, B, and C hardware upgrades, does it?
6	A. I'll take your word for that.
7	Q. But your opinion today is that the
8	receiver 750 and the transmitter 730 can be
9	integrated into the level A, B, and C hardware
10	upgrades shown in Figure 12a?
11	MS. BAILEY: Objection. Form.
12	(Court reporter clarification.)
13	THE WITNESS: Are you back to me?
14	Apologies.
15	What I say is they are integrated
16	into the set top terminal.
17	Q. (BY MR. PLUTA) Why do you point to
18	Figure 12a as an exemplary embodiment of how the
19	receiver 750 and transmitter 730 would be
20	integrated into the set top terminal?
21	A. Hold that one second while I shuffle
22	papers.
23	Because these figures are showing
24	aspects of the set top box or set top terminal
25	where there exists upstream RF data as well as

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Page 55 1 downstream data. 2 Okay. And your opinion is that you Ο. 3 could just incorporate receiver 750 into the 4 hardware upgrades A, B, and C of Asmussen? 5 I'm not sure that I said it exactly Α. 6 that way. One can incorporate 750 and 730 into 7 the set top terminal to interface to the cable 8 television network. 9 Ο. Is receiver 750 not integrated by 10 Asmussen into the set top terminal? 11 Α. I'm --12 MS. BAILEY: Objection. Form. 13 THE WITNESS: I think I'm getting 14 confused. What -- what are you asking? 15 Ο. (BY MR. PLUTA) I believe you said 16 Figure 12a is an example of how receiver 750 17 would be integrated into the set top terminal. 18 But my question is, isn't receiver 715 [sic] 19 already part of the set top terminal in Asmussen? 20 THE REPORTER: I'm sorry. Did you 21 say 750 or 715? 22 MR. PLUTA: 7-5-0. 23 THE WITNESS: I think I heard 7-1-5 24 as well. It's probably a slip of the 25 tongue.

Page 56 1 Receiver 750 and transmitter 730 are 2 integrated into the set top terminal. What 3 I say is that it could be upgraded to 4 insert -- to include certain functionality 5 and associated hardware, such as receiver 6 component 601, and Figure 12a illustrates a 7 way that they would be integrated into the 8 set top terminal. 9 (BY MR. PLUTA) Okay. But you would Ο. 10 agree that receiver 750 and transmitter 730 are 11 not shown in Asmussen as being incorporated into 12 Figure 12a, the hardware upgrades A, B, and C, 13 correct? 14 I'm not sure that Asmussen has a Α. 15 depiction of that, but that's not necessary. 16 Q. Let's take a look at paragraph 128 17 of your declaration. 18 I'm at paragraph 128. Α. 19 Here is one of the paragraphs 0. Okay. 20 that you contend that Asmussen teaches the 21 microprocessor rendering the camera operative 22 [sic] when the processor receives an inbound 23 videophone call notice; is that right? 24 Α. I'm sorry. Are we changing contexts 25 from claim 1(a) to claim element 1(e)?

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Page 57 1 Ο. We are. 2 Α. Thank you. Okay. I'm at 3 paragraph 128. 4 Ο. Okay. So your contention is that 5 Asmussen teaches the microprocessor rendering a 6 camera operative when the processor receives an 7 inbound videophone call notice; is that right? 8 Α. 128 says, "Asmussen teaches the 9 microprocessor rendering the camera operating" --10 you can use "operative" if you want -- "when the 11 processor receives an inbound videophone call 12 notice." 13 And as support for that, you Ο. Okay. 14 cite Asmussen column 34 -- sorry -- column 21, 15 lines 34 through 42; is that right? 16 Α. That is cited. I'm turning to 17 column 21. 18 I'd like to focus on first the Q. 19 second-to-last sentence of paragraph 128. There 20 you state that "no reasonable skilled person 21 would design a video calling system to always 22 leave the camera on (regardless of whether an 23 incoming call is detected or is active)." 24 Do you see that? 25 Α. Yes.

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Page 58 1 And is that still your opinion Ο. 2 today? 3 Yes. Α. 4 Okay. Could a camera be on but not Ο. 5 operative? 6 Objection to form. MS. BAILEY: 7 THE WITNESS: That's an interesting 8 question. So if I modified that to say "no 9 reasonable skilled person would design a 10 video calling system to leave the camera 11 operative because a camera that's operative 12 has the potential to violate the user's 13 privacy," I would agree with that too. 14 (BY MR. PLUTA) Well, I'm focusing Ο. 15 on what you wrote in your declaration. 16 You said that "no reasonable skilled 17 person would design a video calling system to 18 always leave the camera on (regardless of whether 19 an incoming call is detected or active)." 20 So I -- I'm wondering whether a 21 camera could be on but not operative. 22 MS. BAILEY: Objection. Form. 23 THE WITNESS: I don't think that I 24 teased it apart to the point of making that 25 distinction.

Page 59 1 (BY MR. PLUTA) Well, do you agree Ο. 2 that no reasonable skilled person would design a 3 video calling system to always leave the camera 4 on? 5 Α. To -- no one would design a video 6 calling system to leave the camera on 7 continuously when -- when there was no video call 8 qoinq on. That seems to me to be relatively 9 plain English, but I'm not sure why -- the 10 distinction you're trying to draw. 11 Well, I go back to my original Ο. 12 question: Could a camera be on but not 13 operative? 14 MS. BAILEY: Objection. Form. 15 THE WITNESS: As I say, I don't think I teased those apart, so I suppose 16 17 I'd have to consider what "on" would mean 18 when it's not operative. 19 (BY MR. PLUTA) Well, you agree that Ο. 20 the claim language of the '991 patent discusses 21 rendering the camera operative, correct? 22 Α. The claim language, I believe, uses 23 the word "operative." 24 Ο. And you haven't considered any 25 differences between a camera, for example, being

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Page 60 1 operative versus being on? 2 Independent of any of those things, Α. 3 when there is a camera that's aimed at you, it 4 has the potential to violate your privacy and 5 waste power. So that camera would be disabled 6 when it was not being used for its application. 7 Would camera being disabled be the Q. 8 same thing as or equivalent to the camera being 9 off? 10 Objection. MS. BAILEY: Form. And 11 scope. 12 THE WITNESS: I suspect there are 13 ways of disabling the camera without having 14 it off. One could put a lens cap on it. 15 (BY MR. PLUTA) Well, have you ever Ο. 16 considered a camera, or any device, really, 17 having, for example, a wake-up function? 18 MS. BAILEY: Objection. Form. And 19 scope. 20 THE WITNESS: I'm not sure I 21 understand what a wake-up function is. 22 (BY MR. PLUTA) Ο. You don't have an 23 understanding of what a wake-up function is for 24 an electronic device? 25 I don't understand what you're Α.

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Page 61 1 asking as a wake-up function. 2 I'm trying to get at the question Ο. 3 which I originally asked, whether a camera could 4 be on but not operative. And I'm asking whether 5 you considered a device such as a camera 6 incorporating a wake-up function, in other words, 7 that the camera is on but not operative and is 8 only operative when the wake-up function is 9 implemented? 10 Objection. MS. BAILEY: Form. And 11 scope. 12 THE WITNESS: I don't believe I 13 considered a wake-up function. I don't 14 think I used those terms in my report. 15 Ο. (BY MR. PLUTA) In the context of 16 your experience, have you ever heard the term 17 "wake-up function" in the context of electronic 18 devices? 19 Objection. MS. BAILEY: Scope. 20 THE WITNESS: I'm not sure I 21 understand what you mean by "wake-up 22 function." 23 (BY MR. PLUTA) In the last sentence Ο. 24 of paragraph 128, you state that "A camera that 25 is always 'on' has the potential to violate the

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Page 62 1 user's privacy and also would unnecessarily waste 2 power and computational resources." 3 How would a camera that's always on 4 unnecessarily waste power in the context of the 5 '991 patent? 6 Well, an electronic device that's on Α. 7 uses power. 8 Okay. Is -- is power a concern in Ο. 9 set top boxes? 10 [Indiscernible.] Α. 11 THE REPORTER: I'm sorry. Did you 12 I missed it. answer? 13 THE WITNESS: I didn't answer, no. 14 I'm thinking about that concept. 15 Power is a concern in -- what does 16 "concern" mean? Power -- what does 17 "concern" mean? 18 Well, I'm trying to Q. (BY MR. PLUTA) 19 get at your -- your statement, that you state 20 that a camera that is always on would 21 unnecessarily waste power. Okay? 22 And my question is, is power and, I 23 guess, the wasting of power a concern in set top 24 box design? 25 Power is a concern in the design of Α.

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Page 63 1 any electronic system. 2 Would you agree that most set top Ο. 3 boxes are plugged into a power source? 4 Α. Yes. 5 So how, if a camera is always on, Q. 6 would it unnecessarily waste power? 7 Α. Because it's using power when it's 8 on. 9 (Court reporter clarification.) 10 0. (BY MR. PLUTA) So why is power 11 consumption a concern for devices that are 12 plugged in? 13 Α. Power is a concern for many reasons, 14 including heat dissipation, design of the power 15 supply, design of the overall system. One always 16 keeps a system -- the complete operation of a 17 system in mind, and its power consumption is part 18 of that. 19 And has that been the case and Ο. 20 consideration for engineers going back 20 years? 21 That power has been a concern of Α. 22 designing anything? 23 Q. Yes. 24 Α. I would say so. 25 In the latter half of that last Ο.

Page 64 1 sentence of paragraph 128, you also state that a camera that is always on has -- would 2 3 unnecessarily waste computational resources. 4 What do you mean by that? 5 Well, if the camera is in any way Α. 6 active or processing any information, then it 7 would be using computational resources. 8 So is it your opinion that a camera Ο. 9 that's always on is using computational resources 10 regardless of whether it's processing video 11 signals? 12 Objection. MS. BAILEY: Form. 13 THE WITNESS: A camera that's on is 14 processing something. If the lens cap is on, for example, then it's processing a 15 16 scene that's dark, but a -- an electronic device that is on is at least doing 17 18 something. 19 (BY MR. PLUTA) Let's go back up to Ο. 20 the middle of paragraph 128, still on page 82 of 21 your declaration. 22 Α. Okay. 23 You state that "Additionally, Ο. 24 Asmussen teaches the setting for the default 25 state of the camera is selectively enabled as on

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Page 65 1 or off to support video calling, thus indicating that at least in some instances (when the user 2 3 sets the default state to 'on'), the camera is 4 rendered on when there is an inbound video call." 5 Did I read that correctly? 6 Yes, I believe you did. Α. 7 That wasn't me shuffling papers. 8 That was me. Ο. 9 Is that still your opinion today? 10 Α. Yes. 11 And in a default "off" state in Ο. 12 Asmussen, the camera would not be rendered 13 operative until the user manually activates the 14 camera, correct? 15 Α. Something would have to activate it. 16 Q. Okay. And Asmussen discloses the 17 user doing that, correct? 18 Does Asmussen specifically say that? Α. 19 That may be implied. 20 Right. And take a look at Ο. 21 paragraph 129 in your declaration. At the very 22 end of that paragraph, you state, "...I further 23 note that in a default 'off' state, it is my 24 opinion the camera would not be rendered 25 operative until the user manually activated the

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Page 66 1 camera." 2 Is that your opinion? 3 That's my opinion. Α. 4 You also state that the "on" state Ο. 5 of the camera occurs in response to an inbound 6 video call because Asmussen teaches setting the 7 default state to support video calling; is that 8 right? 9 He allows the default state of the Α. 10 camera to be on and the camera is used for video 11 calling. 12 Well, in Asmussen the "on" state of Ο. 13 the camera can only occur if the user manually 14 activates the camera into an "on" state; isn't 15 that correct? 16 MS. BAILEY: Objection. Form. 17 THE WITNESS: I'm not sure I 18 understood the question, but I don't 19 believe so. 20 (BY MR. PLUTA) You don't believe Ο. 21 that in Asmussen, the "on" state of the camera 22 can only occur if the user manually activates the 23 camera into an "on" state? 24 MS. BAILEY: Objection. Form. 25 THE WITNESS: I believe I say

Page 67 1 something different in paragraph 128. 2 (BY MR. PLUTA) You state, "In my Ο. 3 opinion the 'on' state of the camera occurs in 4 response to an inbound video call because 5 Asmussen teaches setting the default state 'to 6 support video calling.'" 7 Is that the section you're pointing 8 to? 9 Α. Yes. 10 Q. And how is the state of the camera 11 set by Asmussen? 12 Well, Asmussen provides the ability Α. 13 for the user to set a default where the default 14 is that the camera be on. 15 Ο. So the user would set that default 16 state? 17 Α. At some point in time. Not at the 18 time of an incoming call, but at some point in 19 It's a default state. It's a setting. time. 20 Yes. 21 So when you state that "the 'on' Ο. 22 state of the camera occurs in response to an 23 inbound video call, " you're assuming the user 24 already manually activated the camera into an 25 "on" state?

Page 68 1 MS. BAILEY: Objection. Form. 2 THE WITNESS: No, merely that the 3 default state of the camera has been set to 4 on. 5 (BY MR. PLUTA) By the user? Q. 6 At some time. Α. 7 The next sentence in paragraph 128, Q. 8 you state, "Additionally, rendering the camera 9 operative when the processor receives an inbound 10 video call -- videophone call notice would be the 11 most logical and straightforward design." 12 Do you see that? 13 Α. Yes. 14 Asmussen doesn't expressly disclose Ο. 15 that rendering the camera operative occurs when 16 the processor receives inbound video call notice. 17 Do you agree with that? 18 Α. I'm sorry. Say that again, because 19 that's a negative. That's a hard question to 20 answer. 21 Asmussen does not expressly disclose Ο. 22 that rendering the camera operative occurs when 23 the processor receives an inbound videophone call 24 notice. Would you agree with that? 25 Asmussen states that the user can Α.

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Page 69 1 set the system up so as to have a default of the 2 camera being on. And my assertion in 3 paragraph 128 is that the camera therefore 4 becoming on is in response to an inbound video 5 call because it's there to support video calling. 6 But there's nothing in Asmussen that Q. 7 expressly discloses that; that's an assumption 8 you're making and an opinion you're rendering. 9 Correct? 10 Objection. MS. BAILEY: Form. 11 THE WITNESS: I state it as my 12 opinion, and I refer to 21, 34. So let me 13 just see if I can check that. 14 So let me refer you to Asmussen 15 column 21, line 34, which is what I've 16 referred to there. Have you got that? 17 Ο. (BY MR. PLUTA) Yes. 18 So it says to support video calling, Α. 19 the user can set up such things as the default 20 state of the video camera on or off. 21 Through the video call options menu Ο. 22 1022, correct? 23 Α. Sorry. Yes. 24 So that's my reference in Asmussen 25 for -- for that conclusion or paragraph.

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	Page 70
1	Q. And the column 21, line 34 through
2	42, for that matter, does not disclose anything
3	about rendering the camera operative when the
4	processor receives an inbound video call notice.
5	Would you agree with that?
6	A. Well, it says that the default state
7	of the camera is on, which what I say is the
8	logical and straightforward design.
9	Q. I understand what you wrote in your
10	report. What I'm getting at is the citation in
11	Asmussen column 21, line 34 through 42, does not
12	state that the camera is rendered operative when
13	the processor receives an inbound video call
14	videophone call notice. Do you agree with that?
15	A. That language is not in the
16	citation?
17	Q. Can you please turn your attention
18	to Exhibit 1005, which is the Bear reference.
19	A. Excuse me for a moment. You're
20	going to hear shuffling.
21	Q. Sure.
22	A. Before we turn to Bear, can I take a
23	two-minute break?
24	Q. Absolutely.
25	A. What's our agreed time for this

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Page 71 1 break? 2 Just 11 -- or 12:50, in your case. Q. 3 Twelve five zero? Α. 4 Ο. Yes. 5 Α. Roger. 6 THE VIDEOGRAPHER: Going off the 7 record, 12:44 p.m. This ends media file 8 number 2 in the deposition of Dr. Andrew 9 Lippman. 10 (Recess from 12:44 p.m. to 11 12:52 a.m.) 12 THE VIDEOGRAPHER: We are back on 13 the record at 12:52 p.m. This begins media 14 file number 3 in the deposition of 15 Dr. Andrew Lippman. (BY MR. PLUTA) All right. 16 Q. 17 Dr. Lippman, let's take a look at Bear, which is 18 Exhibit 1005, and your opinions with respect to 19 that. So, find Bear and then also turn to 20 paragraph 134 of your declaration. 21 Α. I have Bear with no extra paper 22 shuffling needed, and I have paragraph 134. 23 Great. If you could just review Ο. 24 paragraph 134 and your opinions on Bear related 25 to element 1(e), and I'll have a couple
Page 72 1 questions. 2 Α. Okay. 3 Okay. And please now turn to Bear Ο. 4 Exhibit 1005 at column 10, line 38. If you could 5 read to yourself Bear at column 10, line 38 to 6 51, and let me know when you're done. 7 Α. Okay. 8 I think I've read it. You're 9 talking about column 10, line 38 through 64? 10 Ο. Yeah. I was going to refer to up to 11 51, but if you read a little bit more, that's 12 perfectly fine. 13 Bear, in that area, refers to lens 14 cover 310, correct? 15 It does. Α. 16 Q. And did you consider lens cover 310 17 in forming your opinions in paragraph 134 of your 18 declaration? 19 Α. I'll check 134, but I don't believe 20 that I did. 21 Bear discloses in column 10, Ο. 22 lines 38 through 51 that the lens cover must be 23 removed in order to capture video; is that 24 correct? 25 He states that that is one way that Α.

Page 73 1 you could do it. 2 And one way Bear discloses removing Ο. 3 the lens cover is for the user [indiscernible]; 4 is that right? 5 (Court reporter clarification.) 6 Ο. (BY MR. PLUTA) One way Bear 7 discloses removing the lens cover is for the user 8 to do it manually; is that right? 9 He says, "In one embodiment, the Α. 10 shutter may only be opened by the user for 11 privacy reasons." 12 And another way Bear discloses for Ο. 13 removing a lens cover is for the processor to 14 remove the lens cover; is that right? 15 Α. Does it really state that? He says 16 the cover "may be automatically opened when a 17 capture event occurs." 18 Okay. And would you understand a Q. 19 processor to be doing that, from the disclosure 20 in Bear, or is that not clear? 21 Α. I'm not sure. But when you say it's 22 automatically opened, it says when it's opened, 23 when an event occurs, that the processor detects. 24 That might be a reasonable leap. 25 Well, is it your opinion that the Ο.

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Page 74 1 processor in Bear renders the camera operative 2 when a call is received even if lens cover 310 is 3 not removed? 4 I don't believe I address the lens Α. 5 cover in my report. It is not required that the 6 lens cover be on in Bear. 7 Okay. With respect to your opinions Q. 8 in Bear -- regarding Bear, you're not providing 9 any opinions that Bear discloses rendering the 10 camera operative while first information is being 11 displayed; is that correct? 12 MS. BAILEY: Objection. Form. 13 THE WITNESS: I don't think I 14 analyzed Bear with respect to first 15 information. 16 MR. PLUTA: I don't have any further 17 questions right now. I pass the witness. 18 MS. BAILEY: I don't have any 19 questions. 20 MR. PLUTA: Dr. Lippman, thanks for 21 your time this afternoon. 22 THE WITNESS: That's it? 23 (Discussion off the record.) 24 THE VIDEOGRAPHER: This is the 25 end -- I'm sorry. This is the end of the

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1	deposition. The time is 12:59 p.m., and we
2	are off the record.
3	(Off the record at 12:59 p.m.)
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1		ORAL	AND VIDEOTAPED DEPOSITION OF	
			ANDREW LIPPMAN, PH.D.	
2			SEPTEMBER 28, 2020	
3			CHANGES AND SIGNATURE	
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1			CHANGES AND SIGNATURE ANDREW LIPPMAN, PH.D.	
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Page 78 1 THE STATE OF TEXAS : 2 COUNTY OF HARRIS : 3 I, Debbie Leonard, CSR, RDR, CRR, a 4 Certified Shorthand Reporter in and for the State of Texas, do hereby certify that the facts as 5 stated by me in the caption hereto are true; that the above and foregoing answers of the witness, 6 ANDREW LIPPMAN, PH.D., to the interrogatories as indicated were made before me by the said witness 7 after being first duly sworn to testify the truth, and same were reduced to typewriting under 8 my direction; that the above and foregoing deposition as set forth in typewriting is a full, 9 true, and correct transcript of the proceedings had at the time of taking of said deposition. 10 I further certify that I am not, in any 11 capacity, a regular employee of the party in whose behalf this deposition is taken, nor in the 12 regular employ of his attorney; and I certify that I am not interested in the cause, nor of kin 13 or counsel to either of the parties. 14 Certified by me on this 5th of October, 2020. 15 16 17 18 Debbie Leonard, CSR, RDR, CRR Texas CSR No.: 8190 19 Expiration Date: 7/31/2022 20 21 22 23 24 25

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