1	UNITED STATES PATENT AND TRADEMARK OFFICE
2	
3	BEFORE THE PATENT TRIAL AND APPEAL BOARD
4	
5	HULU, LLC, Petitioner
6	v.
7	SITO MOBILE R&D IP, LLC and SITO MOBILE, LTD.,
8	Patent Owner.
9	
10	Case IPR2021-00158
11	U.S. Patent No. 9,026,673
12	Case IPR2021-00206
13	U.S. Patent No. 9,135,636
14	Case IPR2021-00219
15	U.S. Patent No. 9,135,636
16	
17	VIDEOTAPED VIDEOCONFERENCE DEPOSITION OF
18	MICHAEL ADAMS
19	Salida, Colorado
20	Friday, October 15, 2021
21	Volume 1
22	Reported by:
	LESLIE JOHNSON
23	RPR, CCRR, CSR No. 11451
24	Job No.: 4833181
25	PAGES 1 - 189
	Page 1

1	UNITED STATES PATENT AND TRADEMARK OFFICE
2	
3	BEFORE THE PATENT TRIAL AND APPEAL BOARD
4	
5	HULU, LLC, Petitioner
6	v.
7	SITO MOBILE R&D IP, LLC and SITO MOBILE, LTD.,
8	Patent Owner.
9	
10	Case IPR2021-00158
11	U.S. Patent No. 9,026,673
12	Case IPR2021-00206
13	U.S. Patent No. 9,135,636
14	Case IPR2021-00219
15	U.S. Patent No. 9,135,636
16	
17	
18	VIDEOTAPED VIDEOCONFERENCE DEPOSITION OF
19	MICHAEL ADAMS, Volume 1, taken on behalf of Petitioner, at
20	Salida, Colorado, beginning at 9:05 a.m. and ending at
21	4:15 p.m., on Friday, October 15, 2021, before LESLIE
22	JOHNSON, Certified Shorthand Reporter No. 11451.
23	
24	
25	
	Page 2

1	APPEARANCES:
2	
3	For Petitioner:
4	O'MELVENY & MYERS
5	BY: BRAD BERG, ESQ.
6	610 Newport Center Drive, 17th Floor
7	Newport Beach, California 92660
8	(949)823-6937
9	bmberg@omm.com
10	For the Patent Owner:
11	DAIGNAULT & IYER, LLP
12	BY: KEVIN SPRENGER, ESQ.
13	8618 Westwood Center Drive, Suite 150
14	Vienna, Virginia 22182
15	ksprenger@daignaultiyer.com
16	Also Present:
17	JOANN YAGER, Videographer
18	
19	
20	
21	
22	
23	
24	
25	
	Page 3

1		I N D E X	
2			
3	WITNESS		EXAMINATION
4	MICHAEL ADAN	4S	
	Volume 1		
5			
6	B	Y MR. BERG	7
7			
8		EXHIBITS	
9		MICHAEL ADAMS	
10	NUMBER	DESCRIPTION	PAGE
11	Exhibit 1	Petitioner Hulu, LLC's Notice of	10
		Deposition of Michael Adams;	
12		IPR2021-00158	
13	Exhibit 2	Petitioner Hulu, LLC's Notice of	10
		Deposition of Michael Adams;	
14		IPR2021-00206	
15	Exhibit 3	Petitioner Hulu, LLC's Notice of	10
		Deposition of Michael Adams;	
16		IPR2021-00219	
17	Exhibit 4	Declaration of Michael Adams;	13
		U.S. Patent No.9,026,673	
18			
	Exhibit 5	Declaration of Michael Adams;	16
19		U.S. Patent No.9,135,636	
20	Exhibit 6	Declaration of Michael Adams;	17
		U.S. Patent No. 9,135,635	
21			
	Exhibit 7	United States Patent 9,026,673 B2	2 22
22			
	Exhibit 8	United States Patent 9,135,636 B2	2 22
23			
	Exhibit 9	United States Patent 9,135,635 B2	2 22
24			
	Exhibit 10	Resume of Michael Adams	27
25			
			Page 4

1		EXHIBITS (Cont.)	
2		MICHAEL ADAMS	
3	NUMBER	DESCRIPTION	PAGE
4	Exhibit 11	Patent Owner's Preliminary Response	60
		to Petition For Inter Partes Review	
5		of United States Patent	
		No. 9,026,673	
6			
	Exhibit 12	United States Patent 6,389,467 Bl	69
7			
	Exhibit 13	United States Patent 6,385,596 Bl	85
8			
	Exhibit 14	United States Patent Application	93
9		Publication 2004/0015703 A1	
10	Exhibit 15	Article entitled "All about ASX Files"	94
11	Exhibit 16	Decision Granting Institution of	170
		Inter Partes Review; Patent	
12		9,026,673 B2	
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
			_
		Pag	еь
		Varitant Lagel Solutions	

1	Salida, Colorado, Friday, October 15, 2021	
2	9:05 a.m.	
3		
4	THE VIDEOGRAPHER: Good morning. We are	
5	on the record at 9:05 a.m. on October 15, 2021.	09:06:01
6	This is the beginning of Media No. 1 of	
7	the recorded deposition of Michael Adams in the	
8	matter of Hulu, LLC versus Sito Mobile R&D IP, LLC.	
9	This deposition is being conducted using Veritext	
10	Virtual Zoom technology, and all participants are	09:06:25
11	attending remotely.	
12	Please note microphones are sensitive and	
13	may pick up whispers, private conversations, and	
14	cellular interference. Until all parties agree to	
15	go off the record, audio and video recording will	09:06:39
16	continue to take place.	
17	My name is JoAnn Yager. I am the	
18	videographer. The court reporter is Leslie Johnson,	
19	and we are here with Veritext Legal Solutions.	
20	If there are any objections to proceeding,	09:06:52
21	please state them at the time of your appearance,	
22	beginning with the noticing attorney.	
23	MR. BERG: Hi. This is Brad Berg for	
24	O'Melveny & Myers representing Petitioner Hulu, LLC.	
25	MR. SPRENGER: And Kevin Sprenger of	09:07:08
		Page 6

1 Daignault and Iyer, LLP representing Sito Mobile. 09:07:12 2 THE VIDEOGRAPHER: The witness may be 3 sworn in. 4 5 MICHAEL ADAMS, 09:07:17 б having been administered an oath, was examined and 7 testified as follows: 8 EXAMINATION 9 10 BY MR. BERG: 09:07:40 Good morning, Mr. Adams. 11 0 12 Good morning. Α Q Can you please state your name for the 13 record. 14 15 Α Yes. It is Michael Adams. 09:07:46 16 Q And do you understand that you are under 17 oath? Yes, I do. 18 Α 19 Mr. Adams, have you been deposed before? Q 20 Α Yes, I have. 09:07:59 And approximately how many times? 21 Q 22 Α I think altogether four times. 23 0 And have any of those four times been done 24 remotely like we're doing today? Yes. I believe two of them were remote. 09:08:16 25 А Page 7

1	Q Okay. So you're familiar with how this	09:08:18
2	remote setup works.	
3	Have you ever used the Veritext platform	
4	before?	
5	A Not Veritext, no. But I have used one	09:08:27
6	which is also based on Zoom, so similar.	
7	Q Okay. And so you understand that, when I	
8	introduce an exhibit, it will appear in your folder,	
9	and then you should be able to open it from there,	
10	correct?	09:08:47
11	A Yes, correct.	
12	Q And I believe you can either open it kind	
13	of in your browser or you can download the document.	
14	And probably what we'll do is, early on here, I'll	
15	introduce kind of a lot of exhibits just so that we	09:08:59
16	have the ability to kind of go back and forth	
17	between the different exhibits.	
18	Is that all right with you?	
19	A Of course, yes.	
20	Q So I assume you're familiar with kind of	09:09:09
21	the ground rules for a deposition?	
22	A Yes, I believe I am.	
23	Q So you understand that today's deposition	
24	is being recorded stenographically, so you should	
25	give verbal answers rather than nodding or shaking	09:09:22
		Page 8

1	your head?	09:09:26
2	A Yes.	
3	Q And you know that your attorney may object	
4	to a question, but you are still required to answer	
5	that question unless your attorney instructs you not	09:09:32
6	to, correct?	
7	A Yes.	
8	Q And, if at any point your answer gets cut	
9	off, let me know and I'll give you a chance to	
10	complete your answer. I'll do my best not to talk	09:09:46
11	over you and ask you to likewise try not to talk	
12	over me. That way it will help the court reporter	
13	keep a clear record of who said what.	
14	Do you understand that?	
15	A Yes.	09:10:00
16	Q And the last thing that I want to say is,	
17	you know, this deposition is not an endurance test.	
18	Certainly, if you need a break, just ask me. I'll	
19	try to take pretty regular breaks just to keep	
20	everyone fresh, but happy to take a break at any	09:10:15
21	time.	
22	You know, my only request will be that if	
23	there is a question pending that you answer the	
24	question before we take a break.	
25	A Okay. Thank you.	09:10:25
		Page 9

1 Mr. Adams, can you please state your home 09:10:30 0 2 address for the record. Yes. It is 22553 Martin Street, Salida, 3 А Colorado 81201. 4 5 And can you please state your work 09:10:49 0 6 address? 7 А It's actually the same address. 8 0 Let me see here. Let me introduce a 9 couple of exhibits. Just bear with me for a second, 10 make sure I remember how to do this. 09:11:06 (Exhibit 1 marked for identification.) 11 BY MR. BERG: 12 All right. So I introduced one exhibit. 13 0 I'm going to introduce two more. 14 15 А Yes. Right now I see Exhibit 001. 09:11:41 (Exhibit 2 marked for identification.) 16 (Exhibit 3 marked for identification.) 17 BY MR. BERG: 18 19 Q Okay. Do you see all three of those 20 exhibits that I've introduced? 09:12:40 A I see the first two of them. I think I 21 22 have to figure out how to go back. Yes. A certain 23 amount of double-clicking going on here. Yeah. Now 24 I see all three, yes. 25 Q Okay. That's great. So let's just --09:12:54 Page 10

1	well, do you want to take a second and just look at	09:12:59
2	those? I just want to ask you if you've seen these	
3	before and kind of make sure you understand what	
4	these are.	
5	A Right. Yeah, let me do that.	09:13:08
6	Okay. The first one I recognize. Well, I	
7	should say I recognize the oh, I see. It's just	
8	a notice of deposition.	
9	Q Yeah. So you may or may not have seen	
10	these before. Either way is obviously fine.	09:13:52
11	A Right. So I'm familiar, obviously,	
12	with I was given a notice for deposition. So,	
13	yeah, I'm familiar with the I may not be familiar	
14	with the individual document, but I understand what	
15	these documents are.	09:14:16
16	First of all, I thought they might be	
17	something else. So that's why	
18	Q Yep. Fair enough.	
19	So let's start with sorry. Go ahead.	
20	A Yeah. So I'm fine, yeah.	09:14:26
21	Q Okay. So let's start with Exhibit 1. So	
22	Exhibit 1 is "Petitioner Hulu, LLC's notice of	
23	deposition of Michael Adams." And this is for Case	
24	IPR 2021-00158, which covers U.S. Patent 9,026,673.	
25	Are you appearing today pursuant to this	09:14:55
		Page 11

1	notice of deposition?	09:14:59
2	A Yes, I am.	
3	Q Okay. So let's go to Exhibit 2.	
4	Exhibit 2 is similarly Petitioner Hulu,	
5	LLC's Notice of Deposition of Michael Adams. And	09:15:13
6	this one is for Case IPR 2021-00206, covering U.S.	
7	Patent No. 9,135,636.	
8	Are you also appearing today pursuant to	
9	this notice of deposition?	
10	A Yes.	09:15:33
11	Q And then the last one, Exhibit 3, is also	
12	Petitioner Hulu, LLC's notice of deposition of	
13	Michael Adams for Case IPR 2021-00219. And this one	
14	is for U.S. Patent No. 9,135,636.	
15	Are you also appearing today pursuant to	09:15:57
16	this notice of deposition?	
17	A Yes.	
18	Q Okay. Great.	
19	So you can I mean, feel free to keep	
20	those open, but you can close them. We won't be	09:16:08
21	talking any more about those today. I just wanted	
22	to get those on the record and establish kind of the	
23	proceedings of this deposition and what it's going	
24	to be covering.	
25	A Okay.	09:16:20
		Page 12

1	Q Now, you are here today to testify as an	09:16:23
2	expert or a consultant on behalf of the patent owner	
3	in this case, Sito Mobile R&D IP, LLC and Sito	
4	Mobile, Ltd., correct?	
5	A Yes.	09:16:39
6	Q Will you understand if I refer to the	
7	patent owner as Sito?	
8	A Yes, I will.	
9	Q Were you retained for this matter by Sito	
10	or by Sito's counsel?	09:16:51
11	A By Sito's counsel.	
12	Q Prior to this matter, have you ever worked	
13	as an expert or a consultant for Sito?	
14	A No, I have not.	
15	Q Prior to this matter, had you ever worked	09:17:05
16	as an expert or a consultant for any of the lawyers	
17	in this matter?	
18	A No.	
19	Q Do you have any notes or other documents	
20	with you at your deposition today?	09:17:15
21	A No, I don't.	
22	Q All right. Let me go ahead and mark a few	
23	additional exhibits here.	
24	(Exhibit 4 marked for identification.)	
25	/ / / /	
		Page 13

1	BY MR. BERG:	09:18:51
2	Q Okay. So I just introduced Exhibit 4.	
3		
3	It's a little bit larger exhibit, so please let me	
4	know when that one pops up on your screen.	
5	A Yes. I have it open now.	09:19:01
6	Q I just introduced a document that has been	
7	marked as Exhibit 4.	
8	Do you recognize this document, Mr. Adams?	
9	A Yes, I do. This appears to be the U.S.	
10	patent ending '673, which is one of the patents that	09:19:19
11	I was asked to look at.	
12	Hold on a second. I wasn't no, it	
13	isn't. No, it isn't at all. Excuse me.	
14	Q No problem.	
15	A I missed the critical part, which is that	09:19:39
16	this is my declaration that pertains to patent	
17	U.S. patent ending '637.	
18	Q '673, correct?	
19	A '673, yes.	
20	Q Great. I only clarify because we actually	09:20:00
21	do have, as you know, another patent in a related	
22	case that's the '673 patent, so	
23	A Yeah. It's a little confusing.	
24	Q Yes. Okay.	
25	And will you understand if I refer to	09:20:12
		Page 14

1	Exhibit 4 as the '673 declaration?	09:20:18
		09.20.10
2	A Yes, I will.	
3	Q And is the '673 declaration accurate, to	
4	the best of your knowledge?	
5	A Yes, I believe it is.	09:20:35
6	Q Does it contain all the facts or data	
7	considered by you in forming your opinions on the	
8	in the '673 matter?	
9	A Yes.	
10	Q Do you have any corrections or changes to	09:20:52
11	your '673 declaration at this time?	
12	A No. Not that I know of, no.	
13	Q Does this declaration accurately describe	
14	the work that you performed in connection with the	
15	'673 patent?	09:21:07
16	A Yes.	
17	Q And you did not leave anything out?	
18	A No, not as far as I know.	
19	Q I just want to mention for the record that	
20	the '673 declaration is marked in IPR 2021-00158 as	09:21:19
21	Sito Exhibit 2012. Each of the I believe each of	
22	your declarations that we're going to look at today,	
23	Mr. Adams, are marked with that same exhibit number	
24	in the corresponding proceeding.	
25	So I'm going to mark them as Exhibits 4,	09:21:54
		Page 15

1	5, and 6 just to make sure that we can keep them	09:21:56
2	straight. But I just wanted to point that out.	
3	A Yes.	
4	Q Okay. So let me introduce the next one	
5	here.	09:22:08
6	(Exhibit 5 marked for identification.)	
7	BY MR. BERG:	
8	Q Okay. So let me know when that one	
9	this one pops up for you.	
10	A I have it on my screen now.	09:22:35
11	Q So I just introduced a document that's	
12	been marked as Exhibit 5.	
13	Do you recognize this document?	
14	A Yes. This appears to be my declaration	
15	for the U.S. patent ending '636.	09:22:50
16	Q Will you understand if I refer to this as	
17	the '636 declaration?	
18	A Yes.	
19	Q And is the '636 declaration accurate?	
20	A I believe so.	09:23:14
21	Q Does it contain all the facts or data that	
22	you considered in forming your opinions on the '635	
23	patent?	
24	A Yes.	
25	Q And do you have any corrections or changes	09:23:28
		Page 16

1	at this time?	09:23:30
2	A No.	
3	Q Does this declaration accurately describe	
4	the work you performed in connection with the '636	
5	patent?	09:23:43
6	MR. SPRENGER: Objection to form.	
7	THE WITNESS: Yes.	
8	BY MR. BERG:	
9	Q Can you just state your answer one more	
10	time, Mr. Adams?	09:23:52
11	A Yes, it does.	
12	Q Great. Thank you. I just wanted a clean	
13	record there.	
14	Did you leave anything out of the '636	
15	declaration?	09:24:07
16	A Not as far as I know.	
17	MR. SPRENGER: Objection to form.	
18	MR. BERG: Counsel, can you state the	
19	basis for your objection.	
20	MR. SPRENGER: Yeah. Vague. Ambiguous.	09:24:17
21	(Exhibit 6 marked for identification.)	
22	BY MR. BERG:	
23	Q Okay. Mr. Adams, I'm marking one more	
24	exhibit here. Just let me know when that's popped	
25	up.	09:24:44
		Page 17

1	А	Yes. I have that open in front of me now.	09:25:11
2	Q	I just introduced a document that's been	
3	marked Exl	hibit 6.	
4		Do you recognize this document?	
5	A	Yes, I do.	09:25:21
6	Q	And what is it?	
7	A	I see this is my declaration for the	
8	patent end	ding '635, U.S. patent.	
9	Q	Will you understand if I refer to this as	
10	the '635 d	declaration?	09:25:42
11	A	Yes.	
12	Q	To the best of your knowledge, is the '635	
13	declaratio	on accurate?	
14	А	Yes.	
15		MR. SPRENGER: Objection to form.	09:25:51
16	BY MR. BEI	RG:	
17	Q	Is it a complete statement of all of your	
18	opinions a	and the reasons for them?	
19	A	Yes, I believe so.	
20	Q	Does it contain all the facts or data that	09:26:03
21	you consid	dered in forming your opinions on the '635	
22	patent?		
23	А	Yes, it does.	
24	Q	Do you have any corrections or changes?	
25	А	No.	09:26:16
			Page 18

1	Q Does this declaration accurately describe	09:26:21
2	the work that you performed?	
3	MR. SPRENGER: Objection to form.	
4	THE WITNESS: I believe it does.	
5	BY MR. BERG:	09:26:28
б	Q And you did not leave anything out,	
7	correct?	
8	A No.	
9	Q Now, you would agree that there's a lot of	
10	overlap between these three declarations, correct?	09:26:40
11	A Yes. In fact, as I looked at these, I	
12	believe that the specification is identical from one	
13	patent to the next, the difference being the claims.	
14	Q And, in fact, you also prepared four	
15	additional declarations in connection with various	09:27:10
16	IPRs Hulu brought challenging claims from Sito's	
17	other patents, correct?	
18	A Yes, I did.	
19	Q And those also have a lot of overlap,	
20	right?	09:27:24
21	A I believe so.	
22	Q So, if I ask you a question regarding one	
23	of your declarations, say the declaration covering	
24	the '673 patent, and there is some equivalent	
25	statement in another one of your declarations, do	09:27:41
		Page 19

1	you agree that your testimony today would apply to	09:27:44
2	both of those declarations? Or both of those	
3	statements, I should say?	
4	MR. SPRENGER: Objection to form.	
5	THE WITNESS: Well, I think that would	09:27:51
б	depend on the context.	
7	As I mentioned earlier, the claims do	
8	differ from one specification to the next. So	
9	they're not the same thing. And, if we're	
10	considering the claims in relation to the	09:28:09
11	specification, then there could in fact be	
12	differences.	
13	BY MR. BERG:	
14	Q Yeah. So that's a fair point and not what	
15	I'm trying to get at here.	09:28:20
16	What I'm trying to get at is, in the	
17	instance where there is not some claim language	
18	difference and your testimony in two different	
19	declarations is essentially identical.	
20	For example, if we're talking about the	09:28:36
21	background of one of the of one of the prior art	
22	references and you made the same statement in	
23	both in two different declarations.	
24	If I ask you a question about one of those	
25	declarations, would you agree that your testimony	09:28:50
		Page 20

1 would also apply to that same statement in the other 09:28:51 2 declaration? MR. SPRENGER: Objection to form. 3 4 THE WITNESS: I'm really not sure I can 5 make that guarantee, if you like, just because of 09:29:02 the context, you know, given the differing claim 6 7 language. So, if we could take that on a 8 point-by-point basis. 9 BY MR. BERG: Yeah. I mean, so what is happening --09:29:20 10 0 11 sorry. You can finish. 12 So I guess all I'm trying to do here is not ask you the exact same question three different 13 times in the context of three different 14 15 declarations. If we -- I mean, if that's how you 09:29:34 16 want me to proceed, then I'm happy to do that. I 17 just know you have large sections of these declarations that are verbatim, and so that just 18 19 seems like kind of a waste of everyone's time. 20 Α Yeah. I mean, I think if you ask me a 09:29:51 question about, say, the '673 patent, a specific 21 22 question, then we could maybe speed things up by 23 then saying -- you could ask me, well, is this the 24 same for the '636 and the same for the '635. I 25 think I would be comfortable then checking and, you 09:30:15 Page 21

1 know, replying in the affirmative, if that's the 09:30:20 2 case. Okay. So I'm going to introduce a few 3 0 additional exhibits here, just kind of so we can get 4 all of these exhibits kind of introduced and out of 09:30:42 5 6 the way to start. So let's see here. 7 Okay. Mr. Adams, so I've just introduced Exhibits 7, 8, and 9. Could you please let me know 8 9 when you have those open. Yes. I have all three of those opened up. 09:33:27 10 Α (Exhibit 7 marked for identification.) 11 (Exhibit 8 marked for identification.) 12 (Exhibit 9 marked for identification.) 13 BY MR. BERG: 14 15 0 Okay. So let's start with Exhibit 7. 09:33:36 16 А Okay. 17 Q Do you recognize Exhibit 7? Yes, I do. It's United States Patent 18 А 9,026,673 B2. 19 20 0 And will you understand, if I use the term 09:34:05 '673 patent, to refer to this Exhibit 7 patent? 21 22 А Yes. 23 0 Okay. And I'll note that Exhibit 7 is 24 marked as Exhibit 1001 in IPR 2021-00158. 25 Do you understand that? 09:34:32 Page 22

1	A	Yes.	09:34:32
2	Q	Okay. Can you next open up Exhibit 8,	
3	please.		
4	A	Yes. I have it open in front of me now.	
5	Q	Okay. And do you recognize this document?	09:34:48
б	A	Yes. United States patent 9,135,636 B2.	
7	Q	And if I use the term "'636 patent" to	
8	refer to	this exhibit, will you understand that?	
9	A	Yes.	
10	Q	And I'll note that Exhibit 8 is marked as	09:35:11
11	Hulu Exhi	bit 1001 in IPR 2021-00206.	
12		Do you understand that?	
13	A	Yes.	
14	Q	Okay. And lastly, let's look at	
15	Exhibit 9		09:35:37
16	A	Yes. I have it open.	
17	Q	Okay. And do you recognize this document?	
18	А	Yes, I do.	
19	Q	And what is it?	
20	А	United States Patent 9,135,635 B2.	09:35:56
21	Q	And, if I refer to this as the '635	
22	patent, w	ill you understand that I'm referring to	
23	this exhi	bit?	
24	А	Yes, I will.	
25	Q	I'll just note that this is marked as	09:36:20
			Page 23

1	Exhibit 1001 in IPR 2021-00219.	09:36:22
2	Now, have you previously reviewed these	
3	three patents?	
4	A Yes, I have.	
5	Q And I think you noted earlier that the	09:36:47
6	specification is identical or very nearly identical	
7	between these three patents; is that correct?	
8	A Yes. I believe it is at least very	
9	similar. I have not discovered any differences in	
10	the specification itself except for the claim	09:37:08
11	language.	
12	Q And did you review these three patents in	
13	preparing for today's deposition?	
14	A Yes, I did.	
15	Q And what did you do to prepare for today's	09:37:34
16	deposition in addition to reviewing these three	
17	patents?	
18	A Well, I went back and looked at my	
19	declaration, and then I checked where I referred to	
20	the patents. And then I also read through the	09:37:51
21	specification and the claim language of the patents	
22	invented.	
23	Q Did you meet with anyone in preparation	
24	for this deposition?	
25	A Yes, I did.	09:38:06
		Page 24

1	Q And who did you meet with?	09:38:08
2	A With counsel at Daignault and Iyer.	
3	Q And do you remember specifically which	
4	counsel you met with?	
5	A Yes. With Mr. Daignault. And also with	09:38:21
б	Mr. Sprenger.	
7	Q And did you meet with anyone from the	
8	Carmichael firm?	
9	A No.	
10	Q And for approximately how long did you	09:38:43
11	meet with counsel for Sito in preparation for	
12	today's deposition?	
13	A I would say several hours, maybe I	
14	think in total, maybe two or three meetings, and	
15	each maybe about two hours. So all together, you	09:39:05
16	know, whatever that would be.	
17	Q And is that two or three meetings over the	
18	past week or what kind of time frame?	
19	A Yeah, over the past week. Yes.	
20	Q And did you speak with anyone else in	09:39:24
21	preparation for today's deposition?	
22	A No, I did not.	
23	Q Now, in addition to the three patents and	
24	your three declarations, did you review any	
25	additional documents?	09:39:39
		Page 25

1	A Yes. In fact, there is a list at the	09:39:43
2	beginning of each declaration where I refer to	
3	documents. And so I refreshed my memory on those	
4	documents.	
5	Q Are you aware that another expert, Michael	09:40:13
6	Springer, prepared an expert declaration for a CBM	
7	proceeding involving a related patent, the '887	
8	patent in another proceeding?	
9	A Yes, I do know that.	
10	Q Did you review his declaration?	09:40:35
11	A I did review not his declaration, no.	
12	I have not seen his declaration.	
13	Q Did you review his deposition transcript	
14	from that matter?	
15	A No, I did not.	09:40:55
16	Q Have you ever spoken with Dr. Springer?	
17	A No, I haven't.	
18	Q Did you review Dr. Henry Houh's	
19	declaration from these matters?	
20	A Yes, I have. Not completely, but certain	09:41:14
21	sections of them.	
22	Q And, as part of your preparation for	
23	today's deposition, did you conduct any independent	
24	searches, such as searches on the Internet?	
25	A No, I did not.	09:41:33
		Page 26

1	Q Did you do any other independent research?	09:41:34
2	A No, I did not.	
3	(Exhibit 10 marked for identification.)	
4	BY MR. BERG:	
5	Q Okay. Okay. So I just introduced what's	09:41:42
6	been marked as Exhibit 10.	
7	Let me know when you have that open.	
8	A Yes. I have it open.	
9	Q Okay. And what is Exhibit 10?	
10	A It appears to be my curriculum vitae.	09:43:03
11	Q And I'll just note the version of	
12	Exhibit 10 that I introduced is marked as Sito's	
13	Exhibit 2013 in IPR 2021-00158.	
14	Do you see that?	
15	A Yes.	09:43:40
16	Q And do you understand that the same CV was	
17	also submitted in connection with the other two IPRs	
18	that we're talking about today?	
19	A Yes.	
20	Q And I'll just state for the record that,	09:43:54
21	in each of those instances, it's also marked as	
22	Exhibit 2013 in those proceedings.	
23	So I'd like to ask you a few questions	
24	about your background, Mr. Adams.	
25	So, starting with your undergraduate, can	09:44:16
		Page 27

1	you please describe your education for the record?	09:44:20
2	A Yes. My I have an undergraduate degree	
3	in electronic and electrical engineering from the	
4	University of Bristol in England.	
5	Q And what year did you graduate with that	09:44:44
6	Bachelor of Science degree?	
7	A 1979.	
8	Q And did you do any post-bachelor	
9	education?	
10	A Not at university, no.	09:45:02
11	Q And, when you say "not at university," can	
12	you describe what you mean by that?	
13	A Well, in the various roles that I've had	
14	over the years, I've attended, you know, 30, 40	
15	probably training sessions for various aspects and	09:45:26
16	attended many conferences and delivered many papers.	
17	So I would say my education has continued up until	
18	the present time.	
19	Q Fair enough.	
20	Do you have any legal education or formal	09:45:51
21	training in the law?	
22	A No, I do not.	
23	Q Have you ever taken any classes on	
24	intellectual property?	
25	A I have not taken formal classes, but I did	09:46:05
		Page 28

1	act as a reviewer for a book on entrepreneurship,	09:46:10
2	and sections of that book dealt with intellectual	
3	property. So I have read extensively about	
4	intellectual property.	
5	Q And are you a patent agent by chance?	09:46:29
6	A No, I'm not.	
7	Q You do have several issued patents,	
8	though; is that correct?	
9	A Yes, I do.	
10	Q And did you work with a patent agent or	09:46:47
11	patent attorney in submitting and getting those	
12	applications issued, or did you represent yourself	
13	in those proceedings?	
14	A No. I worked with a patent attorney.	
15	Q So, after you graduated with your	09:47:09
16	bachelor's degree, can you describe what you did	
17	next professionally?	
18	A Yes. I went to work for a small process	
19	control company where I developed hardware,	
20	firmware, and software systems. That was until	09:47:28
21	1981. And, at that time, I moved to a position with	
22	Digital Equipment Corporation, where I worked on	
23	communications technologies, including ISDN, X25,	
24	and the like. And I developed software in various	
25	computing languages and also managed teams.	09:48:06
		Page 29

1 In 1988 I moved to Northern Telecom and 09:48:14 2 worked for their research arm, Bell Northern Research, where I developed -- further developed 3 4 communications, protocols and implemented software 5 and managed teams, including frame relay, SMDS and 09:48:29 б ATM. 7 And then in 1993 I moved to Colorado to 8 take a position with Time Warner Cable, where I 9 worked on video-on-demand systems and set-top boxes. Continued to work on network communications 09:48:58 10 11 protocols. And eventually worked on the -- in fact, 12 I managed the engineering team for Time Warner Cable for their RoadRunner group, which was their cable 13 modem initiative. So, ultimately, I managed a team 14 15 of about 100 engineers as vice president of 09:49:28 16 RoadRunner Engineering. 17 I left that position in 2003 to join a company called Terayon, which developed MPEG 18 19 splicing equipment. And I worked on that for 20 approximately three years in an engineering and 09:49:58 customer-facing role as vice president of 21 22 technology. 23 And then in 1996 I joined a company called 24 Tandberg Television as a vice president, again, in 25 an engineering capacity. And that company was 09:50:23 Page 30

1	acquired approximately a year later by Ericsson and	09:50:25
2	was referred to as Ericsson TV.	
3	And I stayed with Ericsson, again	
4	performing similar engineering tasks and management	
5	tasks, development tasks. And left Ericsson in	09:50:47
6	2012.	
7	I then worked independently for several	
8	cable companies as clients and was also a principal	
9	with a company called IBB Consulting in that period.	
10	And I've continued to do similar work	09:51:19
11	within the industry and also taken on expert witness	
12	roles since then as an independent consultant.	
13	Q Okay. Great. Thank you for that thorough	
14	answer. Obviously, you've had a varied career and	
15	done a lot of things. And I'd like to go through	09:51:48
16	some of those roles and unpack a little bit more	
17	about what you did and how it's relevant to the	
18	patents today. So thank you for that, and also	
19	providing those years to give me a sense of timing.	
20	So taking the first job at Kent Process	09:52:06
21	Control, was anything that you were doing in those	
22	couple of years that you were there kind of related	
23	to the technology at issue in the three patents that	
24	we're talking about today?	
25	A No, it was not.	09:52:26
		Page 31

1	Q And then moving on to your time at Digital	09:52:27
2	Equipment Company, was anything that you were doing	
3	there relevant to the technology at issue in these	
4	patents?	
5	A In the sense of the networking technology	09:52:41
6	that underlies these patents, yes, it was.	
7	Q And can you describe a little bit about	
8	that networking technology and how that's relevant	
9	to these patents?	
10	A Well, at Digital Equipment, I worked on a	09:52:57
11	number of network protocol. All of these	
12	technologies, such as X25, for example, ultimately	
13	evolved into the IP network as we know it today. In	
14	other words, they were packet-based networks. And	
15	our current IP technologies are packet-based.	09:53:23
16	Actually, the patents do not limit themselves to IP,	
17	but also talk about general packet-based networks.	
18	So yes, the work I did at Digital	
19	Equipment was mainly associated with developing	
20	protocols for the evolving packet-based network	09:53:49
21	technology that we know today as the Internet.	
22	Q And then you next went to Northern	
23	Telecom. Was any of your experience there relevant	
24	to the technology at issue in the patents we're	
25	talking about today?	09:54:18
		Page 32

1	A Yes, it was. Again, I worked on	09:54:19
2	packet-based networking technology, including frame	
3	relay, SMDS and ATM.	
4	Q And then your next several positions, I	
5	believe, were all with Time Warner Cable. And let's	09:54:43
6	see. Just to make sure I have the timing right,	
7	this is basically from 1993 to 1996 that you were at	
8	Time Warner Cable; is that correct?	
9	A No. I was actually at Time Warner Cable	
10	from 1993 to 2003.	09:55:05
11	Q Oh, yeah. Sorry. I see that now. I got	
12	confused because I saw the I think in the	
13	transcript, it says that you joined okay. Well,	
14	that's fine. Okay. So through 2003.	
15	So for about 10 years you were at Time	09:55:31
16	Warner Cable. And this includes kind of the time	
17	when these when these patents well, when	
18	these the priority applications to which these	
19	patents claimed priority were filed, correct?	
20	A Yes.	09:55:50
21	Q So let's take your three different roles	
22	that you've got here at Time Warner actually,	
23	you've got four different roles.	
24	So the first one you had is senior project	
25	engineer at Time Warner Cable.	09:56:05
		Page 33

1	Approximately what years were you in that	09:56:08
	role at Time Warner Cable?	
2		
3	A I believe that was approximately the first	
4	two years, so '93 to '95.	
5	Q And can you describe if any of the	09:56:23
6	well, let me just back up. So strike that.	
7	Did any of the stuff that you worked on	
8	during your time as a senior project engineer relate	
9	to the patents at issue in these matters?	
10	A Yes, they did.	09:56:38
11	Q And can you describe how?	
12	A Yes. As I say here in my CV, I worked on	
13	network architecture, video compression, and network	
14	adaptation functions. These are all fundamental	
15	underpinnings of the technologies that are specified	09:57:03
16	in the patent.	
17	Q And you mention here that you developed	
18	the network architecture for Time Warner Full	
19	Service Network, which was the first video-on-demand	
20	system, correct?	09:57:23
21	A Yes, that's correct.	
22	Q And can you describe a little bit about	
23	how that Full Service Network operated?	
24	A Yes. It provided video-on-demand	
25	functionality to a set-top box, and it did that by	09:57:42
		Page 34

1 delivering compressed digital media video and audio 09:57:48 2 over the network, which included an ATM network and 3 a cable TV network to additional set-top box. 4 Q And, when you say "over the network," what kind of network was that that the Full Service 5 09:58:22 б Network operated on? 7 Α The core of the network was implemented 8 using ATM technology. The cable portion of the 9 network adapted that ATM to a modulated QAM 64 technology. The set-top box itself received ATM 09:58:54 10 11 packets, but assembled them into IP packets. And 12 then those IP packets carried compressed audio and video information, which was decoded and presented 13 to the subscriber. 14 15 And, if the subscriber wanted to watch a 09:59:26 0 16 particular On Demand program, how would the subscriber do that in the Full Service Network 17 18 system? 19 They would select the particular program, А 20 whether it be movie or a TV show, using a menu 09:59:44 21 system. 22 0 And how would the set-top box go about 23 requesting that from the Full Service Network? 24 Α Yes. It used an object request protocol 25 form of remote program language to request the --10:00:10 Page 35

1 the specific program from a server. And then the 10:00:18 2 server would stream the program to the set-top box. And, when you say that it would stream the 3 Q 4 program to the set-top box, can you describe a 5 little bit about what you mean by the word "stream"? 10:00:44 б What I mean by "stream" there is that the Α 7 compressed media would be placed into ATM packets 8 and delivered over the network to the set-top box. 9 Did the -- did the users of the Full Q Service Network, when they were requesting On Demand 10:01:20 10 11 video, have the ability to control the video by, for example, pausing or rewinding or fast-forwarding? 12 Yes, they did. 13 Α And when a user would -- well, let me back 14 0 15 10:01:44 up. 16 In the event where a user just requested a 17 particular On Demand video and didn't have any other interaction with the system, would the Full Service 18 19 Network just proceed to stream the entire requested 20 video to the user? 10:01:59 MR. SPRENGER: Objection to form. 21 22 THE WITNESS: Yes, it would. 23 BY MR. BERG: 24 Did the programs streamed on the Full 0 25 Service Network, the On Demand programs, include any 10:02:14 Page 36
1	sort of advertisements?	10:02:18
2	A The primary the primary service was	
3	through these On Demand, which was a pay service.	
4	And, in that case, there was no advertising.	
5	Q And were there any other use cases that	10:02:44
6	did include advertising?	
7	A I'm not sure, to tell you the truth. I	
8	wasn't familiar with all of the media that was	
9	served as part of the Full Service Network.	
10	Q So now let's take the case where a user	10:03:13
11	requests a particular On Demand media and partway	
12	through pauses the playback of that media.	
13	How would the back-end server respond to	
14	that instruction to pause playback?	
15	A It would stop sending any more media on	10:03:34
16	the receipt of a pause request.	
17	Q And then, once the user pressed "resume,"	
18	how would the back-end system handle that	
19	instruction?	
20	A Yeah. If the user pressed "play" again,	10:03:56
21	then it would resume sending the media to the	
22	set-top box.	
23	Q So the user is able to control by using	
24	"pause" or "resume" whether or not the back-end	
25	system was or the back-end server was sending	10:04:17
		Page 37

1	media; is that fair?	10:04:20
2	A That's correct.	
3	Q Now, it looks like from your description	
4	here in your CV, that the Full Service Network also	
5	included some interactive features like home	10:04:37
6	shopping and multiplayer games; is that correct?	
7	A Yes, it did.	
8	Q Can you describe a little bit about how	
9	those features worked in the Full Service Network?	
10	A Yes. Home shopping was a menu-based	10:04:57
11	system which would potentially have video assets	
12	describing the products and would allow the customer	
13	to buy those products online using basically a menu	
14	system.	
15	And then multiplayer games were either	10:05:28
16	downloaded to a separate game player, which was an	
17	Atari console, or in fact they could also be played	
18	on the set-top box themselves using the remote	
19	control as the game controller.	
20	Q And how did so, in these interactive	10:06:00
21	context, how was input from the user sent to the	
22	remote server?	
23	A Using IP packets, which were adapted to an	
24	ATM network.	
25	Q One other question about the	10:06:33
		Page 38

1	video-on-demand system and the electronic program	10:06:35
2	guide and so forth.	
3	Was there any additional information	
4	you know, in addition to, say, the video stream, was	
5	there any, for example, identification information	10:06:48
6	that was sent along with the video stream to allow	
7	the system to know to identify the particular	
8	media that was being played?	
9	MR. SPRENGER: Objection to form.	
10	THE WITNESS: I'm not sure. Basically, if	10:07:08
11	the set-top box requested media, then I believe that	
12	the response which included that media was obviously	
13	what was requested. I don't believe there was	
14	additional information in there.	
15	BY MR. BERG:	10:07:37
16	Q So there was no, like, metadata, for	
17	example, multiplexed into that signal?	
18	A No, there wasn't.	
19	Q Now, could the Full Service Network you	
20	mentioned that it was primarily movies.	10:07:59
21	Could it did it have any feature that	
22	allowed it to handle, for example, a playlist of	
23	requested media?	
24	A I don't believe so.	
25	Q So then after you were a senior project	10:08:27
		Page 39

1	engineer, which I think you said was from 1993 to	10:08:30
2	1995, you became a principal network architect at	
3	Time Warner Cable; is that correct?	
4	A That's correct.	
5	Q And it looks like you were working on what	10:08:45
6	your CV refers to as the Pegasus program?	
7	A That's correct.	
8	Q Was the Pegasus program part of the Full	
9	Service Network or related to it in some way?	
10	MR. SPRENGER: Objection to form.	10:09:05
11	THE WITNESS: The Pegasus program was a	
12	large-scale development program for a digital cable	
13	system. And, yes, it did rely on some of the	
14	learnings from the Full Service Network.	
15	BY MR. BERG:	10:09:26
16	Q And can you describe how your work on the	
17	Pegasus program relates to the patents at issue in	
18	these matters?	
19	A It relates in the sense that the Pegasus	
20	program delivered video and audio compressed data to	10:09:54
21	a set-top device over a network. In that sense, it	
22	is there are some similarities.	
23	Q And was the Pegasus program a streaming	
24	program like you described the Full Service Network	
25	to be?	10:10:32
		Page 40

1	A It used a technology known as MPEG-2	10:10:33
2	Transport. And that is a packet-based technology.	
3	And so, yes, it does fit into the world of streaming	
4	video.	
5	Q And the Pegasus program supported video on	10:10:55
6	demand as well?	
7	A Actually, yes, it did. And I should say	
8	that it also supported broadcast services. And, in	
9	fact, I was referring to the video-on-demand aspects	
10	of the Pegasus program when I talked about streaming	10:11:21
11	of data rather than, you know, broadcasted data.	
12	I should also point out that, at the time	
13	we were developing the Pegasus program, we wouldn't	
14	have used the terminology "streaming," which sort of	
15	came along a little bit later and was more applied	10:11:45
16	to specifically streaming media over Internet	
17	protocol networks.	
18	Q Yeah. That makes sense.	
19	Can you describe how the video-on-demand	
20	and broadcast aspects of the Pegasus program	10:12:14
21	differed from each other?	
22	A They differed in the sense that the user	
23	could request a video-on-demand program, whereas the	
24	broadcast aspects, they would tune to the channel,	
25	and you would start to watch the program at the	10:12:40
		Page 41

1 point in the program that it was at, in the way that 10:12:47 2 you would with a conventional cable system, prior to that, an analog cable system. So the difference was 3 4 the way the user perceived the service. 5 I should point out that both in the 10:13:08 б broadcast and video-on-demand services, we used the 7 same technology, which is called the MPEG systems 8 layer or MPEG-2 Transport, to send the packets of 9 compressed media to the digital set-top box. And in the video-on-demand context of the 10:13:34 10 0 11 Pegasus program, how would a user go about 12 requesting media? 13 А By using a menu system. So similar in that sense to the Full 14 0 15 Service Network? 10:13:50 16 А Similar. A different menu, but a similar 17 concept. And in the on demand context, the user had 18 0 19 the ability to pause and resume playback of a 20 video-on-demand movie or file? 10:14:06 21 А Yes. 22 MR. SPRENGER: Objection to form. 23 BY MR. BERG: 24 Now, when a user requested a particular 0 25 item of media on the Pegasus program, how would the 10:14:19 Page 42

1	back-end system respond to that request?	10:14:25
2	A So, in the Pegasus system, the user would	
3	request a particular media program, a digital asset,	
4	as we would refer to it. It would then it would	
5	then be connected via a session to a server, a media	10:14:49
6	server. And that media server would start to send	
7	MPEG-2 transport packets containing the digital	
8	media to the set-top box.	
9	Q And how would the back-end system respond	
10	if the user provided a pause instruction?	10:15:15
11	A It would temporarily stop sending further	
12	packets of compressed digital media.	
13	Q And how would it respond to a "resume"	
14	instruction from the user?	
15	A It would start sending them again.	10:15:37
16	Q So then, like the Full Service Network in	
17	the Pegasus program, the user, by using the "pause"	
18	and "resume" functionality, could control whether or	
19	not the back-end system was sending data, correct?	
20	A Yes, it could, sending the compressed	10:16:00
21	digital media. Yes, it could.	
22	Q If a user, for example, made it halfway	
23	through a movie and then stopped, intending to pick	
24	up that movie at another time in the next day or	
25	something like that, did the Pegasus program allow a	10:16:23
		Page 43

1 user to pick up where they left off, or would they 10:16:27 2 have to start from the beginning? MR. SPRENGER: Objection to form. 3 4 THE WITNESS: I actually think it depended 5 on how long it had been since the user had viewed a 10:16:46 б movie whether or not the session remembered where 7 they had stopped watching it. So I think the 8 question -- the answer is, it depends. 9 BY MR. BERG: Okay. Thank you. 10:17:06 10 0 11 I know we're talking about systems that you worked on a long time ago, so I appreciate your 12 attempts at remembering how these worked. 13 Yeah. I wrote a book about them, so if 14 А 15 you'd like to know more, there's a book called 10:17:20 16 "OpenCable Architecture" that talks about some 17 these -- the way some of these systems worked. Thank you for that information. I may 18 0 19 give it a read. 20 In the broadcast aspect of the Pegasus 10:17:37 program, did a user have any ability to pause and 21 22 resume playback? 23 Α Not initially, no. So was that functionality added at some 24 Ο 25 point later on? 10:17:57 Page 44

1	A Yeah. There was a later addition to the	10:17:58
2	Pegasus program, and this was after I was no longer	
3	working on it, that implemented a functionality	
4	called "start over," which would allow you to join a	
5	broadcast program and skip back to the beginning of	10:18:21
6	it. So, essentially, at that point, you were	
7	watching a broadcast program in a video-on-demand	
8	mode.	
9	Q Do you know when that start-over feature	
10	was implemented?	10:18:40
11	A I'm not sure.	
12	Q You mentioned it was after you had stopped	
13	working on the Pegasus program?	
14	A Yes. It was after after 2000 at least.	
15	I worked on the Pegasus program until approximately	10:19:03
16	the year 2000.	
17	Q And I notice the Pegasus program also	
18	includes interactive TV.	
19	Can you describe a little bit about how	
20	that functioned in the Pegasus program?	10:19:25
21	A The interactive TV functions of the	
22	Pegasus program were not really implemented. Quite	
23	frankly, it became focused on video-on-demand and	
24	digital broadcast services.	
25	So, although we had did intend it to	10:19:59
		Page 45

1	provide a lot of interactivity, it turned out that	10:20:04
2	users weren't particularly interested in paying for	
3	interactive TV. And so, although we specified	
4	capabilities, a lot of them were not implemented.	
5	Q I understand.	10:20:23
6	In the video-on-demand context, did the	
7	Pegasus program include metadata that was sent along	
8	with the video?	
9	A No, it did not.	
10	Q And how about in the broadcast context?	10:20:39
11	A No, it did not.	
12	Q Was the broadcast TV I guess was there	
13	a like an electronic program guide that	
14	corresponded to the broadcast TV situation?	
15	A Yes, there was.	10:21:15
16	Q And how was the information for the	
17	electronic program guide provided to the user?	
18	A It used a number of specifications which	
19	are part of the MPEG systems layer, which include	
20	information about the program title and description	10:21:39
21	and so forth. And it's part of the MPEG systems	
22	specification.	
23	Q And how would how would the set-top box	
24	link up what was in the electronic program guide	
25	with what the viewer was actually watching, if it	10:22:04
		Page 46

1	did that at all?	10:22:08
2	MR. SPRENGER: Objection to form.	
3	THE WITNESS: Yeah. Essentially, the MPEG	
4	system specification specifies a number of tables.	
5	And those tables include information about the	10:22:25
6	programs that are being broadcast. And, ultimately,	
7	the tables include the specific ID of a stream and	
8	the so-called PID or packet identifier of a stream.	
9	So, at that point, it's possible for the	
10	set-top box to understand the correspondence between	10:23:03
11	what's being sent in the MPEG streams it's a	
12	multiplex stream and associate that with the	
13	information that's sent in the tables, which is also	
14	multiplexed.	
15	BY MR. BERG:	10:23:30
15 16	Q I understand.	10:23:30
		10:23:30
16	Q I understand.	10:23:30
16 17	Q I understand. Going back to the video-on-demand context,	10:23:30
16 17 18	Q I understand. Going back to the video-on-demand context, was there any advertisement insertion in the	
16 17 18 19	Q I understand. Going back to the video-on-demand context, was there any advertisement insertion in the video-on-demand service of the Pegasus program?	
16 17 18 19 20	Q I understand. Going back to the video-on-demand context, was there any advertisement insertion in the video-on-demand service of the Pegasus program? A Not in the video on demand while I worked	
16 17 18 19 20 21	Q I understand. Going back to the video-on-demand context, was there any advertisement insertion in the video-on-demand service of the Pegasus program? A Not in the video on demand while I worked on it, no.	
16 17 18 19 20 21 22	Q I understand. Going back to the video-on-demand context, was there any advertisement insertion in the video-on-demand service of the Pegasus program? A Not in the video on demand while I worked on it, no. Q So your next role at Time Warner was as a	
16 17 18 19 20 21 22 23	Q I understand. Going back to the video-on-demand context, was there any advertisement insertion in the video-on-demand service of the Pegasus program? A Not in the video on demand while I worked on it, no. Q So your next role at Time Warner was as a corporate vice president of network engineering; is	

1	Q And when did you start in that role?	10:24:14
2	A I believe it was early 2000.	
3	Q And can you describe how your work in that	
4	role related to the patents at issue in these cases?	
5	A I think probably the part of it that is	10:24:37
б	most relevant is that I worked on something called	
7	the multiple ISP trial, which was an initiative by	
8	Time Warner Cable to support ISPs, Internet service	
9	providers, other than RoadRunner on their cable	
10	networks. And, of course, these provided cable	10:25:06
11	modem services, IP services.	
12	Q And then your last role at Time Warner was	
13	as a corporate vice president of the Broadband	
14	Technology Group; is that correct?	
15	A That's correct.	10:25:33
16	Q And when did you start in that role?	
17	A In 2001.	
18	Q And in that role, you managed the	
19	RoadRunner product; is that right? Or the	
20	RoadRunner project maybe is a better way to say it?	10:25:59
21	MR. SPRENGER: Objection to form.	
22	THE WITNESS: I managed the engineering	
23	team.	
24	BY MR. BERG:	
25	Q And can you describe what RoadRunner was?	10:26:09
		Page 48

1	Noch DeedDurnen was a bigh speed	10.00.14
1	A Yeah. RoadRunner was a high-speed	10:26:14
2	Internet service offered by Time Warner Cable to its	
3	subscribers via a cable modem.	
4	Q And did any of your work in that role	
5	apply to the patents at issue in these cases?	10:26:32
6	A Yes, it did.	
7	Q And can you describe how that work applied	
8	to these patents?	
9	A Yes. As a group, we were Time Warner	
10	Cable was extremely interested in emerging streaming	10:26:52
11	media over the Internet, which up until that point	
12	had been extremely limited because of dial-up	
13	modems. And so it was impossible to send anything	
14	other than very low-quality video.	
15	But, given that we were now providing a	10:27:17
16	high-speed data service in the megabits per second	
17	to our subscribers, we were very aware that the	
18	world would move towards a streaming media	
19	technology base such as we see today with Amazon	
20	Prime, for example.	10:27:44
21	So we were at the beginning of that, and	
22	we worked closely with various manufacturers and	
23	developers to understand how that service might fit	
24	with the RoadRunner service.	
25	Q You mentioned the problems with early	10:28:05
		Page 49

1	streaming systems, the low quality, for example.	10:28:07
2	In addition to, you know, eventually	
3	providing higher speed Internet service, did you	
4	work at Time Warner on any projects to otherwise	
5	improve the quality of streaming video?	10:28:29
6	A Not specifically, no. We were focused on	
7	improving the quality of all services over the	
8	network, so in other words, improving the quality of	
9	the network layer itself.	
10	Q I see.	10:28:55
11	And remind me when you left Time Warner	
12	for Terayon Communication Systems.	
13	A That was towards the end of 2003.	
14	Q And then I think you mentioned that at	
15	some point you became involved in consulting first	10:29:24
16	with IBB Consulting; is that correct?	
17	A Actually, first of all, I became an	
18	independent consultant. And then it was actually	
19	during work for Charter Communications as an	
20	independent consultant where I worked alongside IBB,	10:29:46
21	subcontracted through IBB.	
22	And, in fact, after a period of time, they	
23	brought me on as a full-time employee. And I	
24	continued that work with Charter Communications as	
25	part of IBB and with other cable TV companies.	10:30:06
		Page 50

1	Q But when did you first begin consulting	10:30:10
2	independently?	
3	A Well, I actually started consulting	
4	independently in 2003. Even though I was still	
5	employed with Time Warner Cable, they allowed me to	10:30:31
6	do that. And then I really started, I guess, as a	
7	full-time independent consultant in 2012, after I	
8	left Ericsson TV.	
9	Q And, when you say "consultant," were you	
10	primarily consulting for companies or in the context	10:30:59
11	of litigation, or what type of consulting were you	
12	doing in this time frame?	
13	A In this time frame, I was consulting in	
14	engineering roles to companies.	
15	Q And when did you start doing legal	10:31:17
16	consulting or, I guess, consulting in the context of	
17	litigation?	
18	MR. SPRENGER: Objection to form.	
19	THE WITNESS: Yes. I started working	
20	first as an expert witness, I think, in about 2014,	10:31:33
21	2015.	
22	BY MR. BERG:	
23	Q Now, looking over your CV, does your CV	
24	contain a complete list of all of your publications	
25	authored in the last 10 years?	10:31:57
		Page 51

1	A I'm not sure that it does, no.	10:32:06
2	Q Do you know, sitting here today, what	
3	additional publications you have authored in the	
4	last 10 years?	
5	A Well, there is a link in my CV to my	10:32:24
6	LinkedIn profile, and I do try to keep that up to	
7	date. So, actually, by reference, the list should	
8	be complete.	
9	Q I understand.	
10	MR. BERG: You know, we've been going for	10:32:46
11	coming up on an hour and a half here. Maybe it's a	
12	good time for a short break?	
13	THE WITNESS: Yes. I think so.	
14	MR. SPRENGER: Works for me.	
15	MR. BERG: Let's go ahead and go off the	10:32:59
16	record.	
17	THE VIDEOGRAPHER: Going off the record.	
18	The time is 10:32 a.m.	
19	(Recess taken.)	
20	THE VIDEOGRAPHER: Back on the record.	10:45:58
21	The time is 10:45 a.m.	
22	BY MR. BERG:	
23	Q Welcome back, Mr. Adams.	
24	A Thank you.	
25	Q During the break, did you speak with your	10:46:11
		Page 52

1	attorney at all?	10:46:13
2	A No, I did not.	
3	Q So just a few more questions on your CV,	
4	and then we'll move on to some other things.	
5	So you mentioned, I believe, that you	10:46:33
6	started doing some consulting in the litigation	
7	context around 2014; is that correct?	
8	A Yes. Approximately.	
9	Q And approximately how many times have you	
10	served as an expert in litigation matters?	10:46:48
11	A I believe on approximately nine or 10	
12	occasions.	
13	Q And, during your entire career,	
14	approximately how many times have you testified at a	
15	trial in a patent case?	10:47:05
16	A I've only testified once in trial.	
17	Q And when was that?	
18	A It was in the 2015 time frame, I believe.	
19	Q And have you provided any testimony or	
20	submitted a report or declaration in any litigation	10:47:48
21	in the last four years?	
22	A Yes, I have.	
23	Q And does your CV list all cases in which	
24	you testified as an expert at trial or by deposition	
25	in the last four years?	10:48:09
		Page 53

1	A No, it does not.	10:48:12
2	Q Does your declaration contain that	
3	information?	
4	A I don't believe so, no.	
5	Q Can you oh, yeah. Oh, yeah. Take your	10:48:30
б	time.	
7	A Can I just have a look at the declaration?	
8	No, it does not.	
9	Q Can you list for me all of the cases that	
10	you have either provided testimony by deposition or	10:49:03
11	trial in the last four years?	
12	A No. I don't have that memorized, no.	
13	Q Okay. Are you aware that it's a	
14	requirement to submit that information under the	
15	Federal Rules to be qualified as an expert?	10:49:21
16	A I wasn't aware of that. I'm quite happy	
17	to do it. I just don't have it to hand at this	
18	time.	
19	Q Can you remember any cases that you've	
20	provided that testimony in the last four years?	10:49:38
21	A Yes. Earlier this year I provided	
22	testimony. I did a deposition for a company related	
23	to MPEG compression. And, you know, the name has	
24	kind of vanished from my memory. But yeah, I would	
25	be quite happy to provide that information.	10:50:15
		Page 54

1	Q Yeah. That's fine.	10:50:18
2	MR. BERG: Counsel, I just want to note	
3	for the record that we requested that information	
4	that was that four-year history and reserve the	
5	right to resume you know, to keep this deposition	10:50:31
6	open and resume it to question Mr. Adams on that	
7	information.	
8	MR. SPRENGER: Objection noted.	
9	MR. BERG: Thank you.	
10	BY MR. BERG:	10:50:50
11	Q In 2021, how many cases are you working on	
12	as an expert?	
13	A At this time, this is the only case I'm	
14	actively working on.	
15	Q And in 2021, how many expert reports or	10:51:10
16	declarations have you submitted?	
17	A Well, in this case, I've submitted seven.	
18	In the other cases I've worked on earlier this year,	
19	I believe I've submitted one or two.	
20	Q Have you ever failed to qualify as an	10:51:50
21	expert in whole or in part in district court	
22	litigation?	
23	A No.	
24	Q Have you ever failed to qualify as an	
25	expert in whole or in part in proceedings before the	10:52:01
		Page 55

1	Patent Trial and Appeal Board?	10:52:03
2	A No.	
3	Q Has any portion of your expert opinion or	
4	testimony ever been excluded from trial under	
5	Daubert or for any other reason?	10:52:11
6	A No.	
7	Q Has your opinion ever been criticized by a	
8	judge?	
9	A No.	
10	Q Mr. Adams, are you a Hulu subscriber?	10:52:27
11	A No, I am not.	
12	Q Were you ever a Hulu subscriber?	
13	A I believe I did subscribe to Hulu briefly	
14	a number of years ago, probably as much as anything	
15	to understand the service as you know, as part of	10:52:47
16	my work as a in the field. But I am not a	
17	longtime subscriber.	
18	Q Now, just by way of context for my next	
19	question, looking at the '673 declaration, it looks	
20	like that declaration is dated August 3rd, 2021.	10:53:18
21	Do you see that on the last page of the	
22	'673 declaration?	
23	A I'm just skipping back to it.	
24	Yes. August 3, 2021.	
25	Q Do you recall approximately when you first	10:53:45
		Page 56

1	started working on your report?	10:53:46
2	A I think it was in June or July.	
3	Q And can you describe the drafting process	
4	of drafting your report?	
5	A Yes.	10:54:15
6	Q How did that process begin?	
7	A Well, I was asked to read the patents, to	
8	look at the petition from Hulu, to look at the prior	
9	art cited by Hulu, and then to form an opinion on	
10	the various points related to this patent and	10:54:55
11	particularly the IPR action.	
12	And then I worked closely with the	
13	attorneys at counsel's attorneys to to work on	
14	drafting this expert report.	
15	Q And did you do the first draft of your	10:55:30
16	report?	
17	A Yes.	
18	Q And did you draft every word in your	
19	report?	
20	A No.	10:55:39
21	Q Who else contributed to the writing of	
22	your report?	
23	A The team at Daignault and Iyer. And I	
24	believe there was also another legal team that	
25	contributed, although I didn't work with them	10:55:57
		Page 57

1	directly. You actually referred to them earlier.	10:56:01
2	Q Yeah. Probably the Carmichael IP firm?	
3	A That is correct.	
4	Q Did you copy any of any of your various	
5	declarations from another document?	10:56:17
6	A No, I did not.	
7	Q In drafting your declarations, did you	
8	review the declaration submitted in the CBM	
9	proceeding I referenced earlier that was submitted	
10	by Dr. Springer?	10:56:37
11	A No, I did not.	
12	Q So in the '673 declaration, I believe	
13	earlier you referenced this table of documents that	
14	starts on page 4 in the section called "Materials	
15	Considered."	10:57:02
16	Do you see that table?	
17	A I'm just scrolling to that right now. Oh,	
18	yeah. It's further down. Sorry. Couldn't find it.	
19	Yes. At the bottom of page 4. Yes.	
20	Q And then that table spans page 5 and	10:57:33
21	page 6 as well.	
22	Do you see that?	
23	A Yes. I see a lot of documents.	
24	Q And this table lists all the documents	
25	that you reviewed in connection with this case; is	10:57:44
		Page 58

1	that correct?	10:57:46
2	A That's correct.	
3	Q Are there any documents you considered or	
4	upon which you relied in forming your opinions that	
5	are not listed in this section?	10:57:58
6	A No. I don't believe so. Obviously, my	
7	general industry experience comes into play, but not	
, 8	specific documents.	
0	specific documents.	
9	Q Did you review Sito's preliminary patent	
10	owner response in this case?	10:58:23
11	A I'm not sure. Can you point me to that?	
12	I have reviewed some of the patent owner responses.	
13	I'm not sure if I've looked at all of them.	
14	Q That's fair. Maybe we can ask this	
15	question a little bit different way.	10:58:50
16	Do you remember when you were first	
17	retained in this case?	
18	A Yes. As I said earlier, I think it was	
19	June or July of this year.	
20	Q Okay. So the same time that you started	10:59:12
21	working on your report then?	
22	A Yes.	
23	Q So I'll just represent to you that Sito's	
24	preliminary patent owner responses in these cases	
25	were filed in you know, around kind of the	10:59:30
		Page 59

1	beginning of 2021, February, March time frame.	10:59:34
2	So you wouldn't have reviewed those at the	
3	time they were filed; is that correct?	
4	A Not at the time they were filed, no.	
5	Q Let's see. I think I will go ahead and	11:00:00
б	mark one of these as an exhibit just to so that	
7	you can see if you've looked at any of these. Just	
8	give me one second here.	
9	Okay. So I just marked as Exhibit 11	
10	Sito's preliminary response to the '673 IPR.	11:00:47
11	Can you let me know when you have that	
12	open?	
13	A Yes. I have it now.	
14	(Exhibit 11 marked for identification.)	
15	BY MR. BERG:	11:00:59
16	Q Can you just take a second and flip	
17	through that document. I don't plan to ask anything	
18	substantive in this document. I just want to know	
19	if you remember reviewing this document.	
20	A Yeah. I did not specifically remember	11:01:52
21	reviewing this document.	
22	Q Now, there is another response, Sito's	
23	patent owner response, which was filed at the same	
24	time as your declaration. In fact, your declaration	
25	is an exhibit to the Sito's patent owner	11:02:15
		Page 60

1	response.	11:02:18
2	Do you recall if you reviewed that	
3	document?	
4	A Yes, I did review that document.	
5	Q And did you review it in drafting your	11:02:32
6	declaration?	
7	A No. I reviewed it after drafting my	
8	declaration.	
9	Q And did you review any filings from the	
10	related CBM case that I've mentioned a few times?	11:03:05
11	A I have seen and looked at the CBM filing,	
12	but I can't remember what it was called. But,	
13	basically, it's a document that explains, I guess,	
14	Sito's position on that. So I've seen one document	
15	associated with that.	11:03:40
16	Q And did you review that document before	
17	you drafted your declaration?	
18	A No, I did not. And, in fact, I only saw	
19	that document a couple of days ago.	
20	Q Now, one document that I don't see listed	11:04:11
21	here in your table is the District Court's claim	
22	construction order.	
23	Did you review that document?	
24	A I reviewed parts of it, which I refer to	
25	in my expert declaration.	11:04:35
		Page 61

1	Q And is there any reason why that's not	11:04:45
2	listed in the table in Section 3?	
3	A I imagine it's an oversight.	
4	Q You're not aware of any other documents	
5	that were mistakenly omitted from this table?	11:04:55
б	A No.	
7	Q Did you personally read all the documents	
8	listed in Section 3 yourself?	
9	A I think I have, yes. I certainly made it	
10	an objective to at least look at all of them. Maybe	11:05:12
11	not read every word, given there are so many of	
12	them. But in some cases I was familiar with them	
13	already, like, for example, RSVP specifications and	
14	other common specifications. But I at least tried	
15	to make sure I looked at them and knew what they	11:05:32
16	were.	
17	Q You mentioned the RSVP specification.	
18	How are you already familiar with the RSVP	
19	specification?	
20	A Oh. It's a very well-known document that	11:05:56
21	talks about ways of improving the quality of an	
22	Internet connection over an IP network. I should	
23	say an IP connection on an IP network. So I was	
24	familiar with it as part of my work as a network	
25	engineer.	11:06:24
		Page 62

1	Q And so that was during your time at Time	11:06:33
2	Warner that you were became familiar with that	
3	protocol?	
4	A I think so. It's dated September 1997.	
5	So, yes, it would have been in that time frame. I	11:06:48
6	remember when it was being drafted, so yes.	
7	Q And you mentioned that it was it was	
8	very well known at that time?	
9	A It was in the field of network	
10	engineering. If you were working on IP protocols	11:07:07
11	and IP networking, then it was quite a well-known	
12	specification, yes.	
13	Q And you mentioned that it was talking	
14	about ways of improving an IP connection on an IP	
15	network.	11:07:31
16	Can you describe how it proposed doing	
17	that?	
18	A Yes. The way the resource reservation	
19	protocol works is to essentially discover a path in	
20	the network between a client, for example, and a	11:07:49
21	server. And then the particular routers along that	
22	path have agents which can be instructed to reserve	
23	certain resources, for example, buffers or bandwidth	
24	on ports to establish a connection that would then	
25	support a particular rate of connection for a	11:08:22
		Page 63

1	particular period of time.	11:08:28
2	Q And in this time frame was RSVP	
3	implemented to the best of your knowledge?	
4	A That's an interesting question. It	
5	certainly was implemented. I would not consider it	11:08:51
б	to be a tremendously widely implemented or	
7	successful specification.	
8	During this period, most of the traffic	
9	on Internet protocol traffic on networks was best	
10	effort and did not use RSVP. RSVP was let's say	11:09:12
11	it was a very good idea, but it kind of got	
12	superseded by the fact that, as the bandwidth of	
13	networks increased over time, it became less and	
14	less used.	
15	Q So it sounded like when you were	11:09:45
16	describing RSVP that it was designed to operate at	
17	least in part over a public network like the	
18	Internet.	
19	Is that a fair characterization?	
20	A It could be used on a public Internet.	11:09:58
21	But, for RSVP to work, all of the routers along the	
22	path have to cooperate and have to support RSVP.	
23	And I think that one of the issues with RSVP is that	
24	it wasn't widely supported by the network routers	
25	themselves.	11:10:23
		Page 64

1	Q Going back to your list of documents, did	11:10:30
2	you rely on any summaries of any of these documents?	
3	A No, I did not.	
4	Q So then, going back to kind of the	
5	preparation of your declarations generally, did you	11:10:42
		11.10.42
6	consider or rely on any conversations with any	
7	individuals in forming your opinions that are in	
8	your declarations?	
9	A I certainly had conversations with	
10	individuals, but the opinions are mine alone.	11:11:00
11	Q And what individuals do you recall having	
12	conversations with about your opinions?	
13	A Well, specifically I worked closely with	
14	Mr. Charkow.	
15	Q And anyone else?	11:11:23
16	A I also worked with Mr. Daignault. And I	
17	believe those were the two primary attorneys that I	
18	talked to while I was drafting this declaration.	
19	Q And did you have any conversations with	
20	any individuals employed by Sito?	11:11:47
21	A No, I did not.	
22	Q Did you have any conversations with any	
23	other experts?	
24	A No, I did not.	
25	Q Did you have any conversations with any of	11:12:03

1	the inventors of these patents?	11:12:04
2	A No, I did not.	
3	Q So staying with the '673 declaration. Can	
4	you go down to paragraphs 27 through 29?	
5	A Okay. Yes. I have that in front of me	11:12:56
6	now.	
7	Q What's addressed in this section of your	
8	declaration?	
9	A This section describes the level of	
10	ordinary skill in the art, commonly known as a	11:13:11
11	person of that skill, known as a POSITA.	
12	Q And, throughout your deposition today,	
13	you'll understand if I use the term "POSITA" to	
14	refer to such a person?	
15	A Yes.	11:13:30
16	Q And in paragraph 28, you provide two	
17	different possible definitions for a POSITA.	
18	Can you describe what the differences are	
19	in those two possibilities?	
20	A Yes. In the first one, the POSITA has a	11:13:53
21	Bachelor of Science in a related field like computer	
22	science or electrical engineering, computer	
23	engineering, and at least two additional years of	
24	experience designing and developing network stream	
25	systems or media streaming.	11:14:17
		Page 66

1	And, in the second case, they wouldn't	11:14:21
2	have a degree, but they would have at least five	
3	years of work experience and training in design and	
4	development of distributed network systems and/or	
5	media streaming.	11:14:35
6	Q And how did you come up with these	
7	definitions of a POSITA?	
8	A Well, these definitions are pretty common.	
9	I have seen similar definitions in other expert	
10	reports that I've prepared. And so I understand	11:15:00
11	that these definitions are commonly accepted when	
12	we're talking about a POSITA.	
13	You know, I don't know if I guess when	
14	I did my Bachelor of Science degree, it was a	
15	three-year degree, and then two years of experience.	11:15:25
16	And then a sort of equivalent thing would be not to	
17	have a degree training at university, but to have a	
18	similar period of time working in the field.	
19	So I understand these definitions are	
20	commonly accepted.	11:15:49
21	Q Around the time of these patents or the	
22	claimed priority for these patents, were you	
23	familiar with people that had approximately this	
24	level of skill in the art?	
25	MR. SPRENGER: Objection to form.	11:16:15
		Page 67

1	THE WITNESS: Yes. I'm sure there were	11:16:21
2	many of the people I interacted with who would have	
3	this level of training and experience.	
4	BY MR. BERG:	
5	Q Do you have any reason to believe that	11:16:43
6	Dr. Houh would not have been a person of ordinary	
7	skill in the art under either of these standards at	
8	the time of the patents?	
9	A I am not familiar enough with Dr. Houh's	
10	background to say that he is or isn't a person of	11:17:04
11	ordinary skill in the art, but I would imagine that	
12	if he was retained as an expert by Hulu, then he	
13	would most certainly have met these levels of	
14	training and experience.	
15	Q So now I'd like you to skip down in your	11:17:38
16	declaration a little bit to where you start	
17	describing Hulu's prior art references in	
18	Section 10, Roman numeral X on page 49.	
19	A Okay. Just moving down there right now.	
20	Okay. I'm there right now. Hulu's prior	11:18:25
21	art references, Section Roman numeral X.	
22	Q Great.	
23	You see that the first prior art reference	
24	that you address here is U.S. Patent No. 6,389,467	
25	to Eyal?	11:18:49
		Page 68

1	A Yes.	11:18:56
2	Q And will you understand if I refer to this	
3	reference as "the Eyal reference"?	
4	A Yes, I will.	
5	(Exhibit 12 marked for identification.)	11:19:05
6	BY MR. BERG:	
7	Q And I just introduced the Eyal reference	
8	as Exhibit 12.	
9	Do you have that?	
10	A Yes, I do.	11:19:29
11	Q Okay. Just give me one moment to make	
12	sure I have it up as well here.	
13	Okay. Are you familiar with the Eyal	
14	reference?	
15	A Yes, I am.	11:19:48
16	Q Now, in paragraph 118, you state that	
17	"Eyal discloses a media search engine which is	
18	specifically configured to locate media that is	
19	freely available to anyone for streaming from	
20	third-party websites and identify the location of	11:20:19
21	the media to a user device."	
22	Do you see that?	
23	A I'm sorry. You'll have to give me a	
24	moment because every time I switch windows, I seem	
25	to lose my place in the document. It takes me back	11:20:35
		Page 69

1	to the beginning, I think.	11:20:38
2	THE REPORTER: Dr. Adams, you can download	
3	the document. That might be easier.	
4	MR. BERG: Yeah. That's what I was going	
5	to suggest. I have the same problem. Sometimes	11:20:56
6	it's easier just to download the documents.	
7	THE WITNESS: I'll do that. So	
8	downloading that document, and then I'll open it as	
9	a PDF.	
10	And what was that reference again?	11:21:09
11	BY MR. BERG:	
12	Q So paragraph 118 in your '673 declaration.	
13	A Yes. "Eyal discloses a media search	
14	engine which is specifically configured to locate	
15	media that's freely available," yes.	11:21:47
16	Q So is there any teaching in Eyal that	
17	indicates that the system and methods described by	
18	Eyal would only work in the context of locating	
19	media freely available to anyone?	
20	A Is the question would Eyal still work if	11:22:19
21	the media was protected?	
22	Q Yeah.	
23	A Well, Eyal would have to be modified in	
24	that case because Eyal does not include any	
25	disclosure of, you know, the systems that you would	11:22:40
		Page 70

1 typically find in media that's not freely available, 11:22:45 2 such as authentication, encryption, decryption, trusted certificates, and the like. 3 4 Q So, setting aside kind of the security aspects, would Eyal's search functionality work on a 11:23:10 5 system where the servers were all commonly owned by 6 7 the same party? 8 MR. SPRENGER: Objection to form. 9 THE WITNESS: It would depend on how open that system was. Eyal relies on being able to 11:23:36 10 11 essentially search a third-party media server. 12 So, if those systems were open, then it would be able to discover content on them. If they 13 were secure, then quite likely it wouldn't allow 14 15 them -- it wouldn't allow Eyal to do the search. 11:24:10 BY MR. BERG: 16 17 Q So, if I were a content provider providing 18 content only to particular users and had a search 19 functionality to allow the users to search that -my content library, would I be able to implement the 20 11:24:30 methods described by Eyal? 21 22 MR. SPRENGER: Objection to form. 23 THE WITNESS: The -- within -- it's kind 24 of a very broad question. And let me answer the 25 question I think you're asking, which is if Eyal --11:24:54 Page 71

1	the client in Eyal was part of a closed system, and	11:25:00
2	assuming that the various protocols were in place	
3	such that the client part of Eyal could was	
4	authenticated to access these video servers that you	
5	talked about, then, actually, probably it wouldn't	11:25:21
б	work this way.	
7	The way Eyal is designed is to make	
8	requests to servers that it doesn't know anything	
9	about, has no knowledge of. And, therefore, it can	
10	really only, you know, follow links and discover	11:25:49
11	media on these servers because those servers are	
12	open.	
13	If we look at systems that are controlling	
14	the media, then generally these links are not open.	
15	So, no, you wouldn't be able to use the same methods	11:26:09
16	as described in Eyal.	
17	BY MR. BERG:	
18	Q I'm imagining a context and I know that	
19	YouTube wasn't around in the time of the '673 patent	
20	or in the time of Eyal. I'm imagining a context	11:26:22
21	like YouTube where I can go on and I can search in	
22	YouTube's search function. And it's only searching	
23	YouTube's servers, but obviously they're all	
24	publicly available and publicly searchable.	
25	In that kind of a context, would Eyal's	11:26:41
		Page 72
1	system and method work?	11:26:44
----	--	----------
2	MR. SPRENGER: Objection to form.	
3	THE WITNESS: If the servers that we're	
4	talking about allowed following of links and	
5	searching those links, then, yes, Eyal would work.	11:26:57
6	Eyal relies on these links being searchable and	
7	navigable without any other, you know, trust-based	
8	arrangement between the client and the server.	
9	So, given the proviso that the links are	
10	available and searchable, then that is what Eyal	11:27:25
11	relies on. In that case, Eyal would work.	
12	BY MR. BERG:	
13	Q Can you flip down a couple of pages to	
14	paragraph 122?	
15	A Yes.	11:27:48
16	Q Now, in this paragraph you describe how	
17	after a user requests media, the server module can	
18	return a playlist to a media playback component.	
19	And then you provide a few examples of different	
20	types of playlists.	11:28:06
21	Do you see that? I mean, is that a fair	
22	characterization of what you're talking about in	
23	paragraph 122?	
24	A Yes, I believe it is.	
25	Q And you list a couple of different types	11:28:22
		Page 73

1	of playlists that Eyal could return, including a	11:28:24
2	playlist for RealNetwork Player, for Apple	
3	QuickTime, and for Microsoft Media Player.	
4	Do you see that?	
5	A Actually, the playlist is the same. It's	11:28:35
6	just what the playlist is pointing to that's	
7	different.	
8	So the playlist for RealNetwork Player	
9	would include references to real media assets. And	
10	so I wouldn't say the playlist is different. I	11:28:55
11	would just say that the contents are different.	
12	Q So, for example, for RealNetwork Player,	
13	are you familiar with SMIL files?	
14	A Yes, I am. I think it's one of the	
15	references.	11:29:22
16	Q Yeah. Yeah, it is. And we can certainly	
17	look at it if you'd like. And I think SMIL is also	
18	referenced in the RealNetwork Player context in the	
19	'637 patent itself, which we can also go to.	
20	But, in the case that a playlist was	11:29:35
21	returned to a RealNetwork Player, would it be as	
22	a person of skill in the art, would you expect that	
23	to be a SMIL file?	
24	A No, not necessarily.	
25	Q Could it be a SMIL file?	11:29:53
		Page 74

1	A Well, I don't think it is. I think that's	11:30:00
2	the point here. Because what Eyal is doing is	
3	discovering a series of assets and then listing a	
4	series of URLs, each URL pointing to an asset, to a	
5	media preference.	11:30:20
6	SMIL goes as I'm sure you're aware,	
7	goes a lot further than that and has other	
8	capabilities which are outside of the scope of a	
9	playlist.	
10	Q So I guess what I'm trying to understand	11:30:36
11	is, you mentioned that the playlist would be the	
12	same, regardless of the media playback component.	
13	But I'm just trying to understand,	
14	wouldn't the format of these playlists, in order for	
15	them to work on these different players, need to be	11:30:50
16	tailored to those particular players?	
17	A No, not at all. If I hand a playlist with	
18	a series of media references to a RealNetwork	
19	Player, as long as the references themselves point	
20	to real media assets, usually with the extension	11:31:12
21	.RM, then that's going to work.	
22	I could hand that same playlist to a	
23	Microsoft Windows Media Player, and of course the	
24	media player might refuse to play a real media	
25	asset. But, apart from that, you know, you can	11:31:36
		Page 75

1	still do it. The playlist is simply a list of URLs.	11:31:42
2	That's all it is.	
3	Q So you could do it, but it wouldn't work	
4	necessarily, is what you're saying?	
5	A Well, in some cases it would work. Some	11:31:56
6	media players are tolerant of other in fact, more	
7	and more now. But, even in the day, certain players	
8	could support multiple formats.	
9	And so, if we had a player at the time	
10	that supported, for example, both RealNetwork assets	11:32:16
11	and Windows Media Player and I believe there were	
12	players at the time that did this then I could	
13	hand them a playlist of URLs, including some real	
14	media some RealNetwork assets and some windows	
15	assets, and it would happily play them because it	11:32:38
16	would engage the right codec to play them,	
17	understanding the extension or some of the preamble	
18	in the files in order to do that.	
19	Q And are you familiar with a file type at	
20	the time of the '673 patent that could play	11:33:05
21	RealNetwork files, Apple QuickTime files, and	
22	Microsoft Windows Media Player files?	
23	A I don't know if there was a specific	
24	product that was supporting all three of those media	
25	types at the time. Apple QuickTime tended to be a	11:33:26
		Page 76

1	little bit more proprietary. So I think most likely	11:33:31
2	you might find one that supported RealNetwork and	
3	Microsoft Media.	
4	Whether you would find one that supported	
5	all three, I'd have to check. But certainly there	11:33:49
б	were players that would support more than one media	
7	type.	
8	Q So, if in the context of Eyal, if a	
9	user using an Apple QuickTime media playback	
10	component used Eyal to generate and return a	11:34:07
11	playlist, would Eyal generate that playlist without	
12	any consideration of the fact that the user was	
13	using Apple QuickTime?	
14	MR. SPRENGER: Objection to form.	
15	THE WITNESS: Having read Eyal, I	11:34:28
16	understand that part of the function of Eyal was to	
17	look at the what was behind those links and	
18	determine its playability, if you'd like to verify	
19	that it was a good link.	
20	And part of that process would allow Eyal	11:34:46
21	to discover if it was actually an Apple QuickTime	
22	asset or not. For example, it could be advertised	
23	with the correct extension for Apple QuickTime, but	
24	not actually be an Apple QuickTime asset.	
25	So, obviously, Eyal is trying to make sure	11:35:09
		Page 77

1	that the user experience is good, and that means	11:35:12
2	passing a playlist with assets that will actually be	
3	played to the appropriate media player.	
4	BY MR. BERG:	
5	Q Right. Okay. That makes sense.	11:35:31
б	Now, in paragraph 123, the sentence that	
7	starts with "Using the URLs" that starts on page 51	
8	and then breaks over to page 52.	
9	Do you see that sentence?	
10	A Yes, I do.	11:36:11
11	Q So this sentence discusses or strike	
12	that.	
13	This sentence mentions that the media	
14	playback component can obtain the songs in the	
15	playlist.	11:36:26
16	So, in Eyal, is the media player	
17	requesting each song in the playlist after a	
18	playlist is returned?	
19	A The way that Eyal works is that the search	
20	engine first if we go back a little bit to the	11:36:45
21	beginning of 123, it searches based on some	
22	criteria. And then the result of that search is a	
23	list of URLs.	
24	And then, basically, that's passed along	
25	to the player. And then the player is designed to	11:37:10
		Page 78

1	play assets in the order in which they are given.	11:37:17
2	So the player will play the first asset and then the	
3	second and then the third and so on.	
4	Q And how does the player go about obtaining	
5	those various assets?	11:37:32
б	A The player is designed to use Internet	
7	protocol to reference the media link that it's given	
8	and then use a specific protocol to pull the asset	
9	over the network and then to decode it and to play	
10	it back.	11:37:59
11	Q So, in the Eyal context, once a player	
12	receives a playlist of URLs, it will pull the first	
13	asset using that URL and then will repeat that	
14	process for pulling subsequent assets.	
15	Is that a fair characterization?	11:38:25
16	A Yes. I believe that's the way the media	
17	player is characterized in Eyal, yes.	
18	Q Now, in paragraph 124, there is a	
19	sentence I guess it's just two sentences long,	
20	but the second sentence that starts with "The search	11:38:51
21	request can include."	
22	Do you see that?	
23	A Yes, I do.	
24	Q And I think you referenced this a little	
25	bit earlier, but here in citing to Eyal, you point	11:39:04
		Page 79

1	out that "The search request can include one or more	11:39:08
2	of a genre, a category, an identifier or a	
3	playlist."	
4	So I just want to talk through those three	
5	categories and what a request looks like in each of	11:39:30
б	those categories.	
7	So, in the first category, I take it this	
8	would be the user just searches a particular genre	
9	like the ones that you've listed here, rock,	
10	classic, jazz, et cetera; is that correct?	11:39:45
11	A Yes.	
12	Q And, using that information, how would	
13	Eyal go about generating a playlist like we've been	
14	talking about?	
15	A Well, it would either perform a search or	11:39:59
16	it would use the results of searches that it had	
17	already performed. So it could have already done a	
18	search and have built up, if you like, an inventory	
19	of media links.	
20	So, either way, it's going to try to match	11:40:21
21	the search request with search results and then pass	
22	those results to the media player.	
23	Q Okay. And then, in the second category	
24	you have here, which is for a category, would it	
25	operate similarly? Just instead of a genre, you're	11:40:46
		Page 80

1	searching for a category as a user?	11:40:51
2	A I believe so, yes.	
3	Q And then, in the third instance,	
4	"identifier information," you have listed here as	
		11.41.00
5	some examples, artist, author of a specific media.	11:41:06
6	So would this also work similarly in terms	
7	of, like, you search an artist, for example, and get	
8	back a playlist that, you know, has titles all by	
9	that artist?	
10	A I believe so, yes.	11:41:27
11	Q Okay. And then the fourth example is	
12	requesting a specific playlist, it looks like.	
13	Can you describe a little bit how this	
14	category would work?	
15	A Yes. I believe this is the case where the	11:41:45
16	playlist has already been built, and the viewer in	
17	this case has the name of the playlist. So the	
18	end-terminal, the user device has the name of a	
19	playlist.	
20	So I would imagine this might be where you	11:42:07
21	had previously made a request, and you that you	
22	wanted to make the same request again. So you can	
23	do it by referring to it by a playlist rather than	
24	by going back to the search again.	
25	Q So, just by way of hypothetical, there may	11:42:28
		Page 81

1	be a playlist called Brad's Top Songs that I know	11:42:32
2	that I like, and so I could request that playlist	
3	directly using the Eyal system by typing in "Brad's	
4	Top Songs" Or whatever the identifier is that	
5	corresponded to that playlist, and Eyal would return	11:42:48
6	that playlist to my player; is that correct?	
7	MR. SPRENGER: Objection to form.	
8	THE WITNESS: I'm not sure in Eyal whether	
9	the user could generate a playlist like that or	
10	whether it's done by the administrator of the	11:43:07
11	system. But, yeah, it's a predefined playlist. It	
12	might be top jazz hits, for example, that any user	
13	of the system could ask for.	
14	BY MR. BERG:	
15	Q Fair enough. I think your example is	11:43:28
16	better of top jazz hits as a playlist.	
17	So, in the context of that hypothetical	
18	playlist, top jazz hits, that playlist could have	
19	multiple songs, correct?	
20	A Yes.	11:43:45
21	Q And, by making a request for the top jazz	
22	hits playlist, would it be fair to say that the user	
23	is making a request for media?	
24	A Yes.	
25	Q And, in the case that there is multiple	11:44:09
		Page 82

1	songs in the top jazz hits playlist, would each song	11:44:11
2	be a portion of that playlist?	
3	A I noticed you introduced the name	
4	"portion."	
5	In this context, the playlist has a number	11:44:34
6	of songs on it. And so the totality of the playlist	
7	is all of the songs one after another. And each	
8	song is a part of that playlist.	
9	Q So let's go ahead and flip down a few	
10	pages to where you talk about the Wiser reference.	11:45:17
11	A Okay.	
12	Q So, Mr. Adams, just to give you a sense of	
13	where I'm going, my intention is to kind of walk	
14	through each of these prior art reference summaries	
15	that you've got in your declaration. And I think	11:45:37
16	there's a handful of them, probably five. So I	
17	anticipate that you'll want to stop for lunch at	
18	some point before we get through all five.	
19	Do you have any sense of when you'd like	
20	to do that? I'm happy to do it now or we can keep	11:45:52
21	going for a little while.	
22	A Oh, I think we can keep going for a little	
23	while, maybe another half an hour.	
24	Q Okay. That's good.	
25	And sorry, before we skip on to the Wiser	11:46:07
		Page 83

1	section, I just want to ask you in reference to	11:46:12
2	our previous conversation, I want to note that you	
3	have a very similar if not identical section on Eyal	
4	in each of the other declarations that we're talking	
5	about today, the '636 and the '635.	11:46:30
б	Would your answers to my questions vary in	
7	the context of those declarations? Sorry, strike	
8	that.	
9	Would your answers to my questions about	
10	the section we just talked about covering Eyal vary	11:46:49
11	if I asked you those same questions in relation to	
12	your other declarations?	
13	MR. SPRENGER: Objection to form.	
14	THE WITNESS: I think I don't think we	
15	discovered we discussed any claims or, you know,	11:47:05
16	tried to link Eyal to any of the claims in the '673	
17	patent. So, yeah, I think what I said for for	
18	this section would stand for the two patents we're	
19	looking at today.	
20	BY MR. BERG:	11:47:37
21	Q Okay. Great. Thank you.	
22	I just want to be as efficient as possible	
23	and not take up too much of your time today,	
24	hopefully.	
25	All right. So then going down to the	11:47:50
		Page 84

1	Wiser section, let me go ahead and mark that. If	11:47:52
2	you want to just kind of glance over that section in	
3	your declaration while I pull up this exhibit and	
4	mark it, that would be appreciated.	
5	A Okay.	11:48:03
6	Q Okay. I've marked that exhibit just	
7	let me know when you are able to open that. And	
8	feel free to continue looking through the Wiser	
9	section if you'd like to finish that before you open	
10	the exhibit.	11:49:06
11	A Okay. Let me go back to the Exhibit	
12	Share. Oh, yes. I see I have got Wiser open in	
13	front of me.	
14	Yeah. I've looked through that section,	
15	and I have the Wiser patent open.	11:50:06
16	Q Okay. Great.	
17	So let's go to paragraph well, let's	
18	start in the Wiser patent itself.	
19	A Okay.	
20	(Exhibit 13 marked for identification.)	11:50:30
21	BY MR. BERG:	
22	Q So that's Exhibit 13.	
23	A Yeah.	
24	Q And I'll just note for the record that	
25	Exhibit 13 is Hulu Exhibit 1006 in both the '673 IPR	11:50:41
		Page 85

1 and the '636 IPR. 11:50:53 So in Exhibit 13, in column 3, Wiser 2 provides a summary of the invention that actually 3 4 spans over -- all the way through -- partway through 5 column 5. 11:51:14 б Do you see that? 7 I'm just waiting for the system to catch Α 8 up. 9 Yes. Summary of the invention at the top of column 3. Yes. 11:51:31 10 So, in that first paragraph of the summary 11 Q 12 of the invention, do you see that it talks about three different aspects of Wiser? There's --13 actually, four, I guess. There's selection, 14 15 previewing, downloading, and transporting of audio 11:51:47 16 or other digital media over the Internet. 17 Do you see that? Yes, I do. 18 Α 19 And then flipping back to your Q 20 declaration, in paragraph 135 you mention at least a 11:52:01 couple of those roles. You have one talking about 21 22 the -- well, managing the purchase and preview 23 transaction, and then two, the delivery of the 24 music. 25 Do you see that? 11:52:26 Page 86

1	A Yeah. I do apologize. For some reason,	11:52:29
2	Acrobat my reader just let me down. I don't know	
3	why. I'm sure I didn't quit it. But I know I can	
4	go right back to it.	
5	Q Yeah. No problem. Take your time just	11:52:46
6	pulling the documents back open.	
7	A Yeah. I don't know why it did that.	
8	Q It wouldn't surprise me if the same thing	
9	happened to me at some point today.	
10	A Yeah. I'm not sure exactly what happened.	11:53:19
11	Anyway, we can fix it.	
12	So we want the '673 declaration. And	
13	sorry, remind me where we were on that. Oh. I	
14	think I've got it. The Wiser.	
15	Q Yeah. So	11:53:52
16	A Which paragraph?	
17	Q We were in, like, paragraph 135 area.	
18	A Okay.	
19	Q And then in Wiser itself, we were in	
20	column 3.	11:54:00
21	A Right. Okay. I'm back on track.	
22	Q Okay. Perfect.	
23	So going down to paragraph 137.	
24	A Yeah.	
25	Q Here in paragraph 137, you talk about the	11:54:18
		Page 87

1	purchase and delivery phase of the transaction,	11:54:21
2	correct?	
3	A Yes.	
4	Q And, in paragraph 138, you also mention	
5	the media voucher is used in the purchase and also	11:54:35
6	in the preview aspects of Wiser, correct?	
7	A Yes.	
8	Q And then, starting in paragraph 139, it	
9	looks like you're talking specifically now in	
10	paragraph 139 about the purchase the purchase of	11:55:04
11	media, correct?	
12	A Yes. In this case, we're talking about	
13	the user selecting a song and a purchase request for	
14	the song being sent to the HTTP server, yes.	
15	Q And, looking through paragraphs 140	11:55:35
16	through 144, it looks like all these paragraphs are	
17	specifically addressing the purchase aspect of	
18	Wiser; is that correct?	
19	A Yes, that's correct.	
20	Q And do you include any opinions in your	11:55:55
21	declaration describing similarly describing how	
22	the preview aspect of Wiser works, other than	
23	noting, you know, that the media voucher is used to	
24	control the preview of media data files in paragraph	
25	138?	11:56:13
		Page 88

1	MR. SPRENGER: Objection to form.	11:56:15
2	THE WITNESS: I would have to look	
3	carefully, but I think I focused in my declaration	
4	on, you know, how Wiser is providing a secure online	
5	music distribution system, which seems to be the	11:56:34
6	purchase and playback of media rather than the	
7	previewing of media. So, yeah, I focused on what I	
8	take to be the primary focus of Wiser.	
9	BY MR. BERG:	
10	Q But you do agree that Wiser also discusses	11:56:59
11	the preview aspect?	
12	A Yes. As you mentioned, I noted that it	
13	supports a preview, yes.	
14	Q And specifically that the media voucher is	
15	used in the preview context as well as the purchase	11:57:13
16	context, correct?	
17	A Yes. I believe that is the way it's	
18	designed.	
19	Q But you don't discuss how the media	
20	voucher is used in the preview context, correct?	11:57:34
21	A I haven't covered that here in the expert	
22	declaration, no.	
23	Q And you don't discuss here in the expert	
24	declaration how the voucher idea is used in the	
25	preview context?	11:57:51
		Page 89

1	A No, I do not.	11:57:52
2	Q And you don't discuss here in the	
3	declaration how a reservation is used in the preview	
4	context, correct?	
5	A Actually, I'm not considering that the	11:58:04
6	voucher is a reservation. It's an authentication.	
7	And I make that clear in my declaration.	
8	Q Yeah. I understand that.	
9	In the context of Wiser, correct?	
10	A The merchant server requests yeah. I'm	11:58:59
11	using the phrasing here from the Wiser patent. It's	
12	basically requesting from the content manager that	
13	the media data file be made available. And they	
14	specifically say it verifies the requested song	
15	actually exists and is available for purchase.	11:59:34
16	So that's the extent to which Wiser talks	
17	about a reservation. A reservation is merely making	
18	a piece of content available to the purchaser.	
19	Q Okay. That's helpful. Thanks for that	
20	background.	12:00:10
21	So, going back to my question about the	
22	reservation, do you discuss in your declaration how	
23	a reservation is used in the preview context, or is	
24	this just limited to the purchase context?	
25	MR. SPRENGER: Objection to form.	12:00:24
		Page 90

1	THE WITNESS: I think you mean a voucher	12:00:25
2	ID.	
3	BY MR. BERG:	
4	Q Sorry. No. I'm specifically referring to	
5	what you're calling a reservation in paragraph 141.	12:00:32
б	I just want to confirm that that is only applicable	
7	to the purchase context and that you haven't offered	
8	an opinion a similar opinion with respect to the	
9	preview context.	
10	A Let me just check here.	12:00:57
11	Yeah. This is basically saying is it	
12	available for purchase. So paragraph 141 is	
13	specific to the purchase phase, if you like, of	
14	Wiser.	
15	Q Okay. Let's you can go ahead and set	12:01:10
16	Wiser aside.	
17	A Okay.	
18	Q And let's flip down to page 61 of your	
19	declaration where you talk about Madison.	
20	So it's been about 20 minutes since the	12:01:44
21	last time I checked in with you. I imagine we'll go	
22	a similar, you know, 20 minutes to a half an hour on	
23	Madison.	
24	Would you like to break before we cover	
25	Madison or after we cover Madison, Mr. Adams?	12:01:58
		Page 91

1 Maybe we could take just a short break, a Α 12:02:03 2 comfort break, and come back. And then I'm happy to keep going until, you know, 12:30, 12:45 before 3 4 taking something to eat. Okay. Yeah. That sounds good. Let's 12:02:22 5 Q б take a short break now, like five to 10 minutes. 7 Is that -- how long would you like? 8 А Yeah. 10 minutes is fine. Yeah. 9 Let's take a short break and we'll come Q back. And I'll try to wrap up going through these 12:02:38 10 prior art sections, you know, in the next half an 11 12 hour or 45 minutes after that, and then we can take a lunch break. 13 Does that sound good? 14 15 THE WITNESS: That sounds good, yeah. 12:02:50 16 MR. BERG: All right with you, Counsel, if 17 we go off the record? 18 MR. SPRENGER: Works for me. 19 THE VIDEOGRAPHER: Going off the record. 20 The time is 12:02 p.m. 12:02:57 21 (Recess taken.) 22 THE VIDEOGRAPHER: Back on the record. 23 The time is 12:13 p.m. 24 BY MR. BERG: 25 Q Welcome back, Mr. Adams. 12:13:39 Page 92

1	A Thank you.	12:13:42
2	Q Did you have any conversations with	
3	counsel during the break?	
4	A No.	
5	Q So I believe we were going to talk about	12:13:51
6	the Madison reference next, but before we do, I just	
7	wanted to going back to the Wiser section.	
8	As I mentioned, you have a similar section	
9	describing Wiser in the '636 declaration. If I were	
10	to ask you those same questions about Wiser in the	12:14:16
11	context of that declaration, would your answers	
12	change at all?	
13	A No, I don't believe they would.	
14	Q Okay. So now going on to Madison. Let me	
15	go ahead and introduce this reference. Sorry. I	12:14:36
16	have a little catch in my throat.	
17	Okay. So I've introduced that exhibit.	
18	And I'm actually also going to introduce the ASX	
19	files as well, which I think is the next or is a	
20	later section here, but we may talk about them	12:15:04
21	together.	
22	(Exhibit 14 marked for identification.)	
23	BY MR. BERG:	
24	Q Okay. Mr. Adams, so I have introduced as	
25	Exhibit 14 U.S. Patent Application Publication	12:15:39
		Page 93

1	No. 2004/0015703 to Madison, which I believe is	12:15:41
2	marked as Exhibit 1007 in all three of these	
3	proceedings.	
4	Do you have that document?	
5	A Yes.	12:16:12
6	Q And are you familiar with the Madison	
7	reference?	
8	A Yes.	
9	(Exhibit 15 marked for identification.)	
10	BY MR. BERG:	12:16:19
11	Q And then I have also introduced as	
12	Exhibit 15 a webpage called "All about ASX Files."	
13	Do you have that exhibit as well?	
14	A Yes, I do.	
15	Q And are you familiar with that document?	12:16:48
16	A Yes, I am.	
17	Q Now, around the time of the '673 patent,	
18	which I guess would be when you were working at Time	
19	Warner Cable, were you familiar with ASX files?	
20	A Yes, I was.	12:17:16
21	Q And in what context were you familiar with	
22	them?	
23	A I was familiar with the Windows Media	
24	Player. And I believe I had potentially even maybe	
25	built a website using something like this.	12:17:39
		Page 94

1	Q And, to your understanding, what is an ASX	12:17:53
2	file?	
3	A An ASX file is essentially a syntax	
4	well, ASX describes a syntax. So the file follows	
5	that syntax. And the ASX syntax allows various	12:18:10
6	capabilities of playback of media, including	
7	playlists notably.	
8	And so an ASX file can be used to define a	
9	playlist of Windows media files.	
10	Q So then let's skip down in your	12:18:55
11	declaration to paragraph 151.	
12	A I'm just hopping down there now.	
13	Yes, 151.	
14	Q I just want to step through a couple of	
15	these paragraphs and kind of, by doing so, step	12:19:19
16	through kind of how some aspects of the Madison	
17	system worked as described in Madison.	
18	So, in paragraph 151, you describe a	
19	stream request link that the user can activate.	
20	Is that a fair characterization of what's	12:19:43
21	going on in 151?	
22	A Yes. Specifically through the webpage,	
23	the user provides various information and activates	
24	a stream request link, which requests thereby	
25	requesting access to a particular streaming media	12:20:05
		Page 95

1	file within the link. Yeah.	12:20:09
2	Q And that link includes a host name, with	
3	the playlist server and a playlist ID; is that	
4	correct?	
5	A Yes, that is correct.	12:20:26
6	Q And so this request is essentially a	
7	request for a playlist; is that correct?	
8	A That's correct.	
9	Q Now, in paragraph 152, you discuss how	
10	well, I guess in paragraphs 152 and 153, you discuss	12:20:46
11	how some additional information is appended to that	
12	link, including a ticket ID and a user ID.	
13	Is that correct?	
14	A Yes, that's correct.	
15	Q And so then, at that point, as shown in	12:21:16
16	the snip, I guess, of paragraph 78 from Madison, the	
17	link includes the host name and the playlist ID	
18	still, and then it also includes a ticket and a user	
19	ID, correct?	
20	A Yes. That's correct.	12:21:37
21	Q Okay. And then in paragraph 155, you talk	
22	about how the user device uses this link to send a	
23	request to the playlist server. And then the	
24	playlist server generates a redirector file such as	
25	an ASX file; is that correct?	12:22:01
		Page 96

1	A Yes.	12:22:04
2	Q So, to sum up, I guess, in response to the	
3	user's request for a playlist to the playlist	
4	server, the playlist server provides an ASX file; is	
5	that correct?	12:22:25
6	A Yes. A redirector file, which can be an	
7	ASX file, yes.	
8	Q And were ASX files well known in the art	
9	at this time?	
10	A Yes, they were.	12:22:39
11	Q And you mentioned that around this time	
12	you may have designed a website that used ASX files	
13	or some sort of similar technology; is that correct?	
14	A Yes. I was familiar with Windows Media,	
15	and I certainly had looked at ASX files at the time,	12:23:00
16	yeah.	
17	Q So, as a person of skill in the art, what	
18	resources would you have relied on or perhaps what	
19	resources did you rely on in building a system that	
20	could use ASX files?	12:23:24
21	A You would naturally go to the Microsoft	
22	documentation probably by doing a web search for	
23	Eyal. He may have had it in a manual. But you	
24	would go to Microsoft documentation.	
25	Q Just flipping over a second to I guess	12:23:50
		Page 97

1	what we marked as Exhibit 15, does this appear to be	12:23:52
2	an example of the type of Microsoft documentation	
3	you would go to?	
4	A Yes, it does.	
5	Q Now, in your declaration going back to	12:24:17
6	your declaration, you provide a couple of snips from	
7	Madison of different ASX files, one from	
8	paragraph 81 of Madison, which is on page 66 of your	
9	declaration, and one on page 67 of your declaration	
10	that's from paragraph 90 of Madison.	12:24:36
11	Do you see those two examples of ASX	
12	files?	
13	A Yes, I do.	
14	Q And could you explain for me what the	
15	differences are between these two ASX files?	12:24:49
16	A Well, the first one has only one entry,	
17	whereas the second one has three entries.	
18	Q And so, for example, the playlist	
19	represented by the first one where there is a single	
20	entry would mean that that playlist only has	12:25:26
21	well, either that it only has one entry one item	
22	in it or at least the entire playlist is contained	
23	in a single ASF file; is that correct?	
24	A Yeah. It's referring to only a single	
25	media asset, which is the ASF file.	12:25:51
		Page 98

1	Q Whereas, the ASX file reproduced on	12:25:55
2	page 67 of your declaration is for a playlist that	
3	has three different assets, correct?	
4	A Yeah. It looks like that. Stream 1,	
5	Stream 2, and Stream 3.	12:26:13
6	Q Now, did ASX files as they were known at	
7	the time allow for customization?	
8	MR. SPRENGER: Objection to form.	
9	THE WITNESS: Can you describe what you	
10	<pre>mean by "customization"?</pre>	12:26:51
11	BY MR. BERG:	
12	Q Yeah. Yeah. In fairness, that was a	
13	fairly vague question.	
14	So maybe it would be easier to do in the	
15	context of Exhibit 1017.	12:27:07
16	A Okay. "All about ASX files."	
17	Q Yeah. So one example of the kind of	
18	customization that I'm wondering about is	
19	specifically to do with ad insertion.	
20	Are you familiar with the ability of ASX	12:27:38
21	files to assist with ad insertion?	
22	A Yes, I am.	
23	Q And so can you just describe how ad	
24	insertion works in ASX files, according to your	
25	understanding?	12:27:54
		Page 99

1	A Well, there's a couple of different ways	12:27:59
2	you can use ASX to insert ads. The first very	
3	straightforward way is that you would create a	
4	playlist of entries. And you might have the first	
5	entry as some media that the user requested. And	12:28:19
б	the second entry might be an advertisement. And	
7	then the third entry might be some more media	
8	requested and so on and so forth.	
9	I believe there is also specifically	
10	here it is on page 4 a way of dynamically	12:28:46
11	inserting some kind of an advertisement into the	
12	stream. Here it's talking about the example being a	
13	live feed over the Internet inserting an ad during a	
14	timeout.	
15	So that's triggered by an event. So it's	12:29:20
16	a slightly different mechanism. But that's	
17	specifically what All About ASX refers to for ad	
18	insertion.	
19	Q Now, on that same section on ad insertion	
20	where we just were, at the very bottom of that, do	12:29:43
21	you see how it says that "ASPs" in that last	
22	sentence, "ASPs could automatically serve up ASF	
23	content that is personalized to the user's region or	
24	profile"?	
25	A Yes, I do see that. And this is	12:30:00
		Page 100

1	specifically an active server page. That's not part	12:30:06
2	of ASX itself. That's another component in the	
3	system that could provide some kind of	
4	personalization of an ad.	
5	Q So, in this context, would an active	12:30:22
6	server page link be included as an entry in the ASX	
7	file, and then that would then serve up the	
8	personalized content? Is that how that would work?	
9	MR. SPRENGER: Objection to form.	
10	THE WITNESS: No. I don't think that's	12:30:40
11	the way it works.	
12	BY MR. BERG:	
13	Q Can you describe how it would work?	
14	A I believe that would use an active server	
15	page. The active server page itself as it says	12:30:54
16	here, "ASPs could automatically serve up ASF	
17	content." That's personalized.	
18	So, in other words, the playlist itself	
19	well, it's not a playlist. It's an "EntryRef" in	
20	the syntax, actually. Where you see a little bit	12:31:19
21	higher, it says "advert.asf." Essentially, the	
22	"advert.asf" doesn't point to just a single piece of	
23	media. The piece of media that is going to be	
24	served up can be multiple different pieces of media	
25	according to what the ASP active server page	12:31:44
		Page 101

1	generates.	12:31:49
2	So it's not using a playlist mechanism	
3	here. It's actually directly generating that link	
4	on the fly, as it were.	
5	Q I see.	12:32:04
6	So looking down so I see the "EntryRef"	
7	here that you referenced to "advert.asf."	
8	A Yeah.	
9	Q Now, all of the elements in a place in	
10	an ASX file are use that "EntryRef" tag; is that	12:32:20
11	correct?	
12	A Well, it's actually different. Maybe this	
13	is just a mistake that the author has made, but in	
14	the "Ad Insertion" example here, they talk about	
15	"EntryRef." Whereas, in "Playlists," it's talking	12:32:50
16	about entry and then a separate so "Entry" is	
17	within angled brackets, and then there is another	
18	angle bracket open "Ref." And then that defines the	
19	playlist entry.	
20	So actually, syntactically, it's different	12:33:19
21	within an event name than it is within a playlist.	
22	Q I see.	
23	So going flipping back to page 7 and 8	
24	of the "All about ASX files," this is where it has a	
25	list of ASX tags and a recap of the key tags and	12:33:54
		Page 102

1	their descriptions and syntax. And I see that there	12:34:03
2	is one that is called an "Entry tag" that starts at	
3	the bottom of page 7, and then there is one that's	
4	called an "EntryRef tag" that's on page 8.	
5	Are those the two different tags that	12:34:21
6	you're talking about in the context of the ad	
7	insertion?	
8	A Let me check.	
9	Well, no. No, they're not. No. The	
10	distinction is between an event tag and an entry	12:35:00
11	tag. EntryRef is actually just describing the entry	
12	tag.	
13	Q I see. So within an event tag, then you	
14	would have an EntryRef tag; is that correct? Like	
15	is shown on kind of towards the bottom of page 8?	12:35:27
16	A Yeah. But, as you can see, syntactically,	
17	it's distinguished from what's above. And I don't	
18	know why they have that distinction. Because, in	
19	the first case, at the top of page 8, we have	
20	"entry" in angled brackets, and then we have open	12:35:51
21	angled bracket "Ref."	
22	And then in the second case, at the bottom	
23	of page 8, we have "event name" in angled brackets	
24	with some description of it, and then we have	
25	"EntryRef," all one word. So, clearly, they	12:36:11
		Page 103

1 distinguish this in the protocol. And they are 12:36:19 2 different. 0 And to complete the circle on this, in the 3 middle of page 8, I see that there is an entry tag 4 5 in brackets, and then underneath that entry tag, 12:36:35 there's open bracket "EntryRef," correct? 6 7 А Yeah, there is. 8 So an EntryRef tag can be used either 0 within an entry tag or within an event tag; is that 9 fair? 12:37:08 10 11 А They appear to be doing that, yes. 12 And why they sometimes say "EntryRef" and sometimes just merely say "Ref," I'm not sure. 13 Potentially, they're syntactically equivalent, or 14 15 potentially this document was -- you know, has some 12:37:37 16 errors. Microsoft documentation is -- is sometimes a little unreliable. 17 So going back to your declaration and the 18 0 Madison ASX files. 19 20 А Yeah. 12:38:04 So I notice that they have entry tags in 21 0 22 both of these files, and they have the open bracket 23 "Ref" tag within that entry file. 24 Is it fair to say that, based on the 25 Microsoft documentation that a person skilled in the 12:38:25 Page 104

1 art would understand, there could also be an open 12:38:27 2 bracket "EntryRef" listing within the entry file? I'm not sure because, as I said, I'm not 3 А 4 sure that they're actually equivalent or not. 5 Actually, syntactically, this example here 12:38:48 in paragraph 157 is actually saying Screen 1 ASX, 6 7 and if that doesn't work, Screen 2, and if that 8 doesn't work, Screen 3. 9 In other words, they -- the example cited in Madison is syntactically not what they're -- is 12:39:13 10 11 not correct. They should have done an open angled 12 bracket slash "entry" to close between these. In fact, what this example here is doing 13 is actually trying to take alternative parts for a 14 15 reference. So, you know, I think it's just a 12:39:43 16 mistake. 17 0 I see. So, looking back at Exhibit 15 on 18 page 4, I see what you're saying here, that they -at the bottom of page 4 where they do a playlist, 19 20 they have an "entry," and they have the "Ref," and 12:40:07 then they close it out with another "entry," closed 21 22 bracket, and then they do another one. And so that 23 would instruct it to play those three in order; is 24 that correct? 25 Α Exactly. Then if you look a little bit 12:40:22 Page 105

1	later in fact, immediately after that, they talk	12:40:25
2	about server or protocol rollover. And, in that	
3	case, you don't close the "entry" with an angled	
4	bracket slash "entry." And then that makes the	
5	things within within the "entry" alternatives.	12:40:42
6	Different servers, for example.	
7	So, I mean, I imagine that the intent of	
8	Madison was to do the first thing we described, to	
9	have a list of things played out. But they maybe	
10	didn't maybe hadn't tried it at least because	12:41:13
11	what they show in the patent is would not work	
12	the way they intend.	
13	Q Right. Right. Yeah. That makes sense.	
14	And I think in paragraph 158, you're	
15	acknowledging kind of the intent of Madison, that	12:41:31
16	the ASX file may contain multiple links that are	
17	part of the requested playlist, correct?	
18	A I'm certain I wasn't looking at which	
19	specific bit there are we talking about in my	
20	declaration?	12:41:51
21	Q Yeah. Sorry. Kind of jumping around a	
22	lot on you.	
23	Paragraph 158.	
24	A "May contain multiple links that are part	
25	of the requested playlist."	12:42:04
		Page 106

1 Yes. Yes. So each one is intended to be 12:42:06 2 played in sequence in this case. And so, setting aside kind of the syntax 3 0 4 errors in the ASX file, you say in the next sentence 5 here that the media player on the user device then 12:42:28 makes a series of requests, one for each URL link 6 7 contained in the ASX redirector file. 8 Is that correct? 9 MR. SPRENGER: Objection to form. THE WITNESS: Yeah. The media player is 12:42:45 10 basically, first of all, looking at the first link, 11 12 accessing it and playing it, and then going to the second one and the third one and -- as defined by 13 the redirector file. 14 15 BY MR. BERG: 12:43:12 16 Q And so it's the user device that's making 17 each of these individual requests, not -- kind of by 18 pulling those requests from the -- from the server, 19 correct? Yeah. It's -- the media player is 20 А 12:43:28 essentially following instructions from the ASX 21 22 redirector file. 23 0 So, going back to Exhibit 15, which is the 24 "All about ASX files," and then flipping down to 25 paragraph 166 of your declaration. 12:44:03 Page 107

1	A Okay. Back on the declaration. 166.	12:44:11
2	Yes. "All about ASX files." Yes.	
3	Q So you have the first sentence here of	
4	166, you note that "All about ASX files" is a	
5	Microsoft webpage purportedly captured by	12:44:32
6	archive.org on February 4, 1999.	
7	Do you have any reason to doubt that	
8	Exhibit 15 is an accurate reflection of this webpage	
9	as of February 4, 1999?	
10	A No, I don't.	12:44:50
11	Q Do you expect that documentation such as	
12	what's contained in "All about ASX files" was	
13	available through Microsoft around February 4th of	
14	1999?	
15	A Yes. I think it would have been, yeah.	12:45:04
16	Q So, in the context of Exhibit 15, we	
17	talked a little bit about the about the	
18	discussion of playlists that's on page 4.	
19	A Yeah.	
20	Q And we had a similar discussion, I feel	12:45:44
21	like, in the context of Eyal where there was a	
22	playlist that was kind of the requested media, and	
23	then each entry was a part of that playlist.	
24	Is that true here of the playlist	
25	disclosed on page 4?	12:45:56
		Page 108
1	MR. SPRENGER: Objection to form.	12:46:00
----	--	----------
2	THE WITNESS: Okay. I'm just looking at	
3	page 4 again. Yeah. In page 4, there's, you know,	
4	some protocol around it, but I think the media list	
5	from Eyal would probably may not have the	12:46:27
6	surrounding protocol tags, but it would be it	
7	would nonetheless be a list of media references.	
8	So, in that way, they're similar.	
9	BY MR. BERG:	
10	Q Now, earlier when we talked about ad	12:46:56
11	insertion, you explained to me that there was two	
12	different ways at least two different ways that	
13	you can do ad insertion using ASX files. And I	
14	think the first one that you mentioned was, you	
15	know, putting an entry and then having another entry	12:47:10
16	that was an advertisement and then another entry	
17	that went back to the show, I think was the example	
18	you used.	
19	Do you recall talking about that?	
20	MR. SPRENGER: Objection to form.	12:47:25
21	THE WITNESS: I don't think I put it in	
22	those terms. I didn't talk about going back to the	
23	show specifically. With ASX, each ASF file is, you	
24	know, some piece of media. So, yeah, you might have	
25	an ad and then the media that the person had	12:47:53
		Page 109

1	requested.	12:48:01
2	And certainly you could, you know, have a	
3	redirector or file generator that would do that,	
4	would put an ad in front of the media that was	
5	requested.	12:48:17
6	BY MR. BERG:	
7	Q So, thinking in terms of like like a	
8	television show like like an episode of Seinfeld,	
9	for example, as a person of skill in the art at this	
10	time, would you have been able to take an episode of	12:48:43
11	Seinfeld and create two separate ASF files, one for	
12	the first 15 minutes and one for the last 15	
13	minutes?	
14	MR. SPRENGER: Objection to form.	
15	THE WITNESS: You mean let me see if I	12:49:00
16	can understand the question here.	
17	So are you saying that rather than	
18	encoding an episode of Seinfeld as a single ASF file	
19	could I generate two ASF files, one for the first	
20	part and one for the second part?	12:49:24
21	Was that the question?	
22	BY MR. BERG:	
23	Q Oh, yeah. Sorry. Yes, that was the	
24	question.	
25	A Yes, you could do that.	12:49:40
		Page 110

1	Q And so, if I did that and I had my two ASF	12:49:42
2	files, could I put those together in kind of	
3	using this ASX protocol to put the first one,	
4	followed by an advertisement, followed by the second	
5	one?	12:50:01
б	MR. SPRENGER: Objection to form.	
7	THE WITNESS: Yeah. Assuming you had the	
8	rights, the media rights. Technically, that's	
9	possible, yeah.	
10	BY MR. BERG:	12:50:16
11	Q Bear with me for one second while I flip	
12	through these prior art sections and see if there is	
13	any other questions that I had.	
14	I guess one question that I do have, the	
15	same as with the Wiser and the Eyal sections that we	12:50:39
16	went through. I believe you have very similar	
17	sections on Madison and on "All about ASX" in the	
18	'636 declaration and the '635 declaration.	
19	Would your answers to the questions I	
20	posed here change in the context of those two	12:50:55
21	declarations?	
22	A I don't believe so. Yeah. I mean,	
23	without going into every question again, which I	
24	don't think we have time for, yeah, I think I'm	
25	going to answer the same way. Yeah.	12:51:21
		Page 111

1	Q Okay.	12:51:24
2	MR. BERG: Okay. I think that wraps it up	
3	for me on going through these pieces of prior art.	
4	So now might be a good time to take that lunch break	
5	that we've talked about.	12:51:47
6	Do you agree?	
7	THE WITNESS: Yes.	
8	MR. BERG: Okay. Well, let's go ahead and	
9	take a lunch break then. Let's go ahead and go off	
10	the record, and then we can figure out the timing.	12:51:58
11	THE VIDEOGRAPHER: Is that okay,	
12	Mr. Sprenger?	
13	MR. SPRENGER: Yes, uh-huh.	
14	THE VIDEOGRAPHER: Going off the record.	
15	The time is 12:52 p.m.	12:52:12
16	(Recess taken.)	
17	THE VIDEOGRAPHER: Back on the record.	
18	The time is 1:33 p.m.	
19	BY MR. BERG:	
20	Q Welcome back, Mr. Adams.	01:33:10
21	A Thank you.	
22	Q Did you speak with your counsel during the	
23	break?	
24	A Yes, I did.	
25	Q And did you talk about the substance of	01:33:25
		Page 112

1	your testimony at all?	01:33:27
2	A No, we did not.	
3	Q Okay. So let's go ahead and turn in your	
4	declaration to where you describe streaming media	
5	technology, which starts on page 11.	01:33:54
6	A Yep.	
7	Q If you want to just take a second and	
8	glance over that Section VI, A, B, C and D, up to	
9	when you get to modern commercial streaming systems.	
10	We'll start on those first four sections.	01:34:41
11	A Yeah. Okay.	
12	Q So now, the first thing I wanted to ask	
13	you here is that I notice there aren't really any	
14	citations to any documents here.	
15	Did you draft this just based on your	01:34:55
16	knowledge and involvement in streaming media going	
17	back into the '90s?	
18	A Yeah. This reflects my understanding of	
19	this technology from the perspective of somebody who	
20	was involved in it during that time frame.	01:35:22
21	Q And in paragraph 36 well, I guess	
22	starting in paragraph 35, you talk about existing	
23	technologies that related to the transmission of	
24	data over the Internet. And, in particular, you	
25	talk about software applications known as media	01:35:51
		Page 113

1	players.	01:35:55
2	Can you talk a little bit about what a	
3	media player was during the late '90s and through	
4	2001?	
5	A Yeah. Basically, it was a software	01:36:09
6	application. In this context, I'm talking about a	
7	software application that can play an asset that's	
8	available as a media reference on the network. So	
9	specifically, a network media player. And that is	
10	an application that could retrieve media over the	01:36:40
11	Internet and play it back to the user.	
12	Q And media players at the time could work	
13	with individual pieces of media and also with sets	
14	of media like a place a playlist, correct?	
15	MR. SPRENGER: Objection to form.	01:37:13
16	THE WITNESS: That would depend on the	
17	type of media player. But some media players, yes,	
18	would support a playlist.	
19	BY MR. BERG:	
20	Q So, in paragraph 38, when you talk about a	01:37:32
21	media player could also be used to set up a list of	
22	songs commonly known as a playlist, did you have any	
23	particular kind of media player in mind when you	
24	wrote that paragraph?	
25	A No.	01:37:45
		Page 114

1	Q Can you think of any media players at that	01:37:49
2	time that could not work as described in	
3	paragraph 38?	
4	A No.	
5	Q In paragraph 40 you talk about some of the	01:38:10
6	differing views by and during 2001 regarding how to	
7	implement streaming media. And you note that the	
8	prevailing method was to store an entire program, by	
9	which you mean an entire movie or similar asset, on	
10	a single server and stream that media from the	01:38:32
11	server to the user device.	
12	Is that correct?	
13	MR. SPRENGER: Objection to form.	
14	THE WITNESS: Yes. An entire program.	
15	The example here is a movie, but it could be any	01:38:46
16	piece of media. And, yeah, that media is stored in	
17	its entirety as a file on a server and served to the	
18	media player by a back-end streaming system.	
19	BY MR. BERG:	
20	Q Now, I notice that you say that that was	01:39:14
21	the prevailing method of storing an entire program.	
22	Are you aware of systems around that time	
23	that used a different method?	
24	A I am not, no.	
25	Q Are you aware of any systems that would	01:39:38
		Page 115

1	break up an entire program and store it in separate	01:39:42
2	locations?	
3	A No, I'm not.	
4	MR. SPRENGER: Objection to form.	
5	BY MR. BERG:	01:39:49
6	Q And also in paragraph 40, you note that	
7	the streaming was controlled in the systems by the	
8	server or the back-end streaming system, correct?	
9	A Yes, I do say that.	
10	Q And so what in this context, what do	01:40:07
11	you mean by "control"?	
12	A What I mean is that, after the request to	
13	the streaming system was made, the entire media	
14	would be streamed by the streaming system to the	
15	player.	01:40:32
16	Q And is it your opinion that by and during	
17	2001 there were no commercial streaming systems	
18	that in which a user device controlled the	
19	streaming?	
20	A No. That's not my opinion. In fact, I	01:40:58
21	say here there were different views. And I merely	
22	here describe the prevailing method, in my view.	
23	Q And, sitting here today, can you remember	
24	an example of a media streaming system that allowed	
25	the user to control the streaming instead of the	01:41:30
		Page 116

1	back-end server?	01:41:34
2	MR. SPRENGER: Objection to form.	
3	THE WITNESS: Well, I'm not sure, you	
4	know, to what extent let's be more specific here	
5	about controlling. I think, you know are you	01:41:56
6	asking me whether the user could pause the playback?	
7	BY MR. BERG:	
8	Q Well, sure. Let's start with pausing the	
9	playback. In typical systems at this time, are you	
10	aware of systems where the user could pause the	01:42:26
11	playback?	
12	A Yeah. Typically, pausing could be	
13	achieved in most of these players. If I think back	
14	to the Windows Media Player or to the Real Media	
15	Player, then it was possible to pause and resume the	01:42:41
16	playback.	
17	Q And would pausing typically stop the flow	
18	of streaming media from the back-end server to the	
19	user device?	
20	A It depended on the implementation.	01:43:05
21	Sometimes I think the pausing the playback, you	
22	would still have streaming, but it would be buffered	
23	for a period of time by the player.	
24	And maybe in other cases, it would	
25	actually stop the playback entirely. There were	01:43:26
		Page 117

1 different implementations as to how pause was 01:43:34 2 implemented. 0 Fair enough. 3 4 In the case of a buffer -- maybe I'll call 5 it the play-out buffer for purposes of today -- that 01:43:42 б buffer would be obviously a finite amount of space. 7 So, once the buffer was filled up, then would the 8 streaming stop until the playback resumed, 9 typically? MR. SPRENGER: Objection to form. 01:44:02 10 THE WITNESS: It would depend on whether 11 the buffer was smaller than the media to be 12 streamed. So, yeah, if the buffer was smaller, then 13 either the playing device would have to throw 14 15 packets away or, you know, stop the playback from 01:44:22 16 the server. 17 As I say, there were a number of different ways of doing it. And I think I remember at the 18 19 time there was advantages to try to build up the buffer, the play-out buffer. So that was seen as an 20 01:44:47 advantage. So pausing the play-out didn't 21 22 necessarily stop the delivery of the content. 23 BY MR. BERG: 24 So flipping over to page 15 of your 0 25 declaration, there's an example that you've given 01:45:06 Page 118

1	here of a computer it looks like it's requesting	01:45:09
2	"The Matrix" over the Internet from a server.	
3	In the typical system that you've	
4	described, can you just walk through this picture	
5	for me and explain what's happening here?	01:45:24
6	A Yeah. What's happening here is that the	
7	server has the asset, which is in this case, the	
8	example is "The Matrix" stored on the server as a	
9	file. When the user wants to watch the video, then	
10	by using some kind of application it would send a	01:46:01
11	request, which is the green arrow, to the server.	
12	And then the server would start streaming the video,	
13	which is the orange arrow, to the device.	
14	Q Are you familiar, Mr. Adams, with the term	
15	"content delivery network"?	01:46:30
16	A Yes, I am.	
17	Q And were content delivery networks well	
18	known before 2001?	
19	A Yes, I believe they were.	
20	Q And were I'm sorry. Go ahead.	01:46:50
21	A In fact yeah. I was going to say, I	
22	was aware certainly back in my before that time.	
23	Q And in the context of this picture that	
24	you've got here on page 15, if we imagine that a	
25	content delivery network was involved in the	01:47:09
		Page 119

1	streaming of "The Matrix," can you describe how that	01:47:13
2	would change the process here as of 2001?	
3	MR. SPRENGER: Objection to form.	
4	THE WITNESS: Well, the content delivery	
5	network is actually performing the role of the	01:47:26
6	server. And the way a content delivery network	
7	works is by using a redirection to a CDM leaf node.	
8	So, essentially, the CDM leaf node acts instead of	
9	the server. If you like, it's a proxy for the	
10	server. So the mechanism otherwise is unchanged.	01:47:54
11	BY MR. BERG:	
12	Q So the request would go to the leaf node,	
13	I think you called it, and then the leaf node would	
14	send back the in this case, "The Matrix" movie?	
15	A Yes. That's correct.	01:48:18
16	Q And in a you know, still talking in the	
17	2001 time frame, if the leaf node from which "The	
18	Matrix" was requested didn't have "The Matrix" in	
19	its storage, what would the leaf node typically do?	
20	A Well, the way a content delivery network	01:48:45
21	works is essentially by caching content. And so,	
22	when the first request for a file is made, it may	
23	not be on the leaf node that's closest to the	
24	client, in which case, essentially the it would	
25	try to fetch that content, in this case "The	01:49:21
		Page 120

1	Matrix," put it onto the content delivery network	01:49:24
2	leaf node, and then it would then play it from that	
3	node.	
4	Q And then subsequent requests for "The	
5	Matrix" in that same leaf node would be able to be	01:49:42
6	served directly out of the cache?	
7	A Yes. Essentially, that would be a cache	
8	hit.	
9	Q Now, there's a section here after	
10	paragraph 41 that runs from paragraphs 42 through 47	01:50:04
11	on modern-day commercial streaming systems.	
12	Do you see that?	
13	A Yes, I do.	
14	Q So, as you know, an IPR is a proceeding	
15	kind of where, you know, there's a certain filing	01:50:28
16	date or priority date for the patent at issue, and	
17	there is prior art that, you know, is required to	
18	predate that priority date. And the determination	
19	is made whether or not that prior art invalidates	
20	the challenged patent.	01:50:45
21	So, obviously, the operative date here	
22	and I understand there is some dispute, but sometime	
23	in the early 2000s is the operative date.	
24	And so I guess I'm curious what the intent	
25	was of including a section on modern-day commercial	01:51:02
		Page 121

1	streaming systems.	01:51:06
2	A Well, this just shows the way that these	
3	systems changed and evolved over time. So you're	
4	correct, this is a modern-day system. This is after	
5	the priority date of the patent. But it shows how	01:51:23
6	modern-day systems are different from the earlier	
7	systems.	
8	Q And how did this modern-day commercial	
9	streaming system session impact your opinions in	
10	terms of how the patent should be understood or how	01:51:47
11	the prior art should be understood?	
12	A Well, it didn't because I considered the	
13	patent in the context of my knowledge back in 2001.	
14	Q Is it fair to say that, as with the prior	
15	art sections that we talked about earlier, that the	01:52:16
16	information that's included here in the modern-day	
17	commercial streaming systems section came from your	
18	experience in, you know, dealing with modern-day	
19	commercial streaming systems?	
20	A Yes. In fact, I've published papers on	01:52:34
21	streaming systems as well as implemented them.	
22	Yeah.	
23	Q Before you were contacted about this case,	
24	were you familiar with the challenged patents in	
25	these matters?	01:53:00
		Page 122

1	A No, I was not.	01:53:02
2	Q Were you familiar with the Sito entities?	
3	A No.	
4	Q Is it your opinion, Mr. Adams, that the	
5	systems described in the Sito patent are equivalent	01:53:25
б	of what you describe here in the modern-day	
7	commercial streaming systems section?	
8	A There are aspects described in the Sito	
9	patents that are fundamental to the operation of	
10	modern-day systems. So definitely we could see	01:53:59
11	that. But they did not describe them in their	
12	entirety.	
13	Q So going to paragraph 46 in that section,	
14	paragraph 46 describes the ability to get one	
15	segment from of a requested movie, here "The	01:54:34
16	Matrix," from one server and a second segment from a	
17	different server.	
18	Do you agree with that characterization of	
19	paragraph 46?	
20	A Yes. That's correct.	01:54:49
21	Q Does the '673 patent describe this	
22	scenario, or is this one of the differences that you	
23	were referencing?	
24	A Actually, the '673 patent does describe	
25	this scenario. Each portion of media can be served	01:55:12
		Page 123

1 by what's called an MMS in the '673 and the other 01:55:19 2 two patents. And MMS could be different than -essentially, it's the media server. It's the switch 3 for the media server behind it. And the media 4 servers and the switches could be different from one 01:55:40 5 portion of the media to the next. 6 7 0 In paragraph 47, in the second sentence, 8 you talk about the user device monitoring the time 9 it takes to download each segment and its ability to select a higher or lower quality version of the 01:56:07 10 11 stream and adapt accordingly. 12 Is that a fair characterization of what you say in paragraph 47? 13 Yeah. That's correct. This is commonly 14 Α 15 referred to as adaptive bitrate streaming. 01:56:20 16 0 Is this aspect of modern-day streaming 17 systems described in the '673 patent, or is this a difference? 18 19 In the '673 and the other two patents, it А 20 talks about providing content that is -- somehow 01:56:44 understands the capabilities of the end-user device. 21 22 And so it's possible that there could be different 23 quality streams that that's describing. 24 It does not talk, as far as I can see in 25 the patent, explicitly about the end-user device 01:57:20 Page 124

1	being able to request different quality versions.	01:57:28
2	Q Now, there's a term used in the patent.	
3	Let me just pull it open here. So, in the '673	
4	patent let me make sure I'm using the right term.	
5	Okay. So in column 14 it discusses how in	01:58:08
6	some instances a switch may fail during streaming or	
7	that it can no longer maintain the stream quality	
8	during media streaming.	
9	In that case, the patent describes that	
10	it's the NRP and not the user that would determine	01:58:41
11	another switch that can provide the requested	
12	media; is that correct?	
13	A Can you point me to the specific	
14	reference? I'm looking at column 14.	
15	Q Yeah, sure. I'd be happy to. Column 14,	01:59:00
16	I'm looking specifically starting around line 15. A	
17	little hard to tell where the lines match up, but	
18	that paragraph there and kind of going on.	
19	A Yeah. This is talking about if a switch	
20	or part of a switch fails. So this is not the	01:59:21
21	normal case. This is an error case.	
22	Q And it's the NRP, not the user that would	
23	determine what alternate switch to use; is that	
24	fair?	
25	A It says "The NRP may determine a	01:59:41
		Page 125

1	different, second switch."	01:59:45
2	So yes. And, again, to be clear, this is	
3	the error case, not the normal case.	
4	Q Right. Right.	
5	Are you aware of any embodiments or	02:00:00
6	disclosures in the '673 patent where the user	
7	determines which switch to pull media from rather	
8	than the NRP?	
9	A Well, the user always determines which	
10	switch in the sense that the user is given a play	02:00:28
11	script with the URL of that switch. And so it	
12	naturally makes the call to that switch.	
13	So, in that sense, the user always is	
14	making the request to a specific switch that's given	
15	to it in the play script.	02:00:51
16	Q Okay. Let's see here. All right. So do	
17	you have the ability we've been kind of switching	
18	back and forth between different PDFs, which is what	
19	I'd like to do again. If you have the ability, it	
20	may be helpful to pull up the '673 patent on one	02:01:41
21	side of your screen and the declaration on the other	
22	side.	
23	But, if it's easier for you to just switch	
24	back and forth between the documents, that's	
25	obviously fine as well.	02:01:56
		Page 126

1	A No. I can no. My screen is not big	02:01:58
2	enough to read them side by side, but I can easily	
3	flip between the two without losing my place.	
4	Q Okay. Let's just do that.	
5	So what I'd like to do is walk through	02:02:14
6	some of the stuff that you talk about in your	
7	overview of the '673 patent starting at	
8	paragraph 48, and just kind of understand some of	
9	the stuff you say here in the context of claim 1	
10	about the '673 patent.	02:02:39
11	Does that make sense?	
12	A Okay.	
13	Q All right. So let's see. Let's actually	
14	start in paragraph 67, which is, sorry, quite a ways	
15	down from where I was pointing you in your	02:03:02
16	declaration. That's where you actually go through	
17	the specification here.	
18	A I'm on 63. Yes.	
19	Q So here you refer to when you say, "The	
20	'673 patent discloses a streaming media system in	02:03:23
21	which a requested program can be streamed in	
22	portions, i.e., portion by portion."	
23	So the requested program, is that	
24	referring to in the context of claim 1, in that	
25	first limitation, I see a request for media from at	02:03:42
		Page 127

1	least one communication device.	02:03:45
2	Is that request for media the request for	
3	the program, as you understand it?	
4	MR. SPRENGER: Objection to form.	
5	THE WITNESS: Okay. I'm just going to	02:03:56
б	move down to the claims of the '673 patent.	
7	So you're talking about claim 1, correct?	
8	BY MR. BERG:	
9	Q I am, yeah.	
10	A Yeah. A request for media. I think the	02:04:19
11	request for media is a program or maybe a	
12	presentation.	
13	Q Okay. And then the next thing you say is	
14	that the program can be streamed in portions.	
15	Can you point me to the part of claim 1	02:04:50
16	that shows this streaming in portions?	
17	A Yes. After the request is being made, the	
18	system, the RTMS and RP work together and results	
19	we could go through that in more detail if you like,	
20	but the ultimate result of what happens in the	02:05:24
21	system is a play script is transmitted to the	
22	communication device. And, within that play script,	
23	the first thing is an identification of at least one	
24	portion of the requested media.	
25	Q And then, going on, the second thing here	02:05:58
		Page 128

1	in that play script is an identification of the "at	02.06.01
Ŧ	In that play script is an identification of the at	02.00.01
2	least one other media," correct?	
3	A That's correct.	
4	Q So is it fair to say that in the context	
5	of claim 1 there has to be two at least two	02:06:16
6	pieces of media that are referenced in the play	
7	script, one that's a portion of the requested media	
8	and another that is some other media.	
9	Is that correct?	
10	A Yes. It's sending back in the play script	02:06:38
11	these two identifications as part of the play	
12	script, yes.	
13	Q Would you agree with me that the at least	
14	one other media is not a portion of the requested	
15	media, right? That's a separate media, not the	02:07:04
16	requested media, right?	
17	A Yes. It's other than the requested media.	
18	Q So, setting aside for a minute the at	
19	least one other media, is there any well, let me	
20	put it this way.	02:07:23
21	To meet the requirements of claim 1, is	
22	there any requirement for there to be at least two	
23	portions of the requested media?	
24	MR. SPRENGER: Objection to form.	
25	THE WITNESS: In claim 1, the	02:07:37
		Page 129

1	identification has to be of at least one portion.	02:07:42
2	So it could be one, two, three or more.	
3	BY MR. BERG:	
4	Q Okay. Jumping back to your declaration.	
5	Now, I guess this is kind of a follow-up to the last	02:08:04
6	question I asked, but in paragraph 70, you know that	
7	the program may be made up of multiple portions of	
8	media.	
9	I note the word "may" here and in the	
10	context of your previous answer, that claim 1 could	02:08:37
11	be satisfied by a single portion.	
12	Is it fair to say that the program could	
13	be made up of just a single portion?	
14	MR. SPRENGER: Objection to form.	
15	THE WITNESS: Well, syntactically, a	02:08:51
16	portion is a part or a piece of something. So I	
17	don't think it makes much sense, so to talk about	
18	the portion being the whole thing.	
19	BY MR. BERG:	
20	Q Now, in paragraph 70, towards the bottom	02:09:22
21	you talk about the sequencing of media clips making	
22	up the program.	
23	And, specifically, you cite to the	
24	specification where it says "The program typically	
25	identifies the sequencing, whether sequential	02:09:37
		Page 130

1	paralegal timing or other in which media clips are	02:09:41
2	to be streamed," et cetera.	
3	Is that sequencing that you're referencing	
4	there related to the instructions in claim 1, which	
5	is, I think, Element V of the play script?	02:09:58
6	MR. SPRENGER: Objection to form.	
7	THE WITNESS: Element V, one or more	
8	instructions for use. No, I don't think so. Here	
9	specifically, this is how to obtain the media.	
10	These are instructions to enable the communication	02:10:34
11	device to obtain the media. Not how to sequence it,	
12	but how to obtain it.	
13	BY MR. BERG:	
14	Q Would you typically obtain the media in	
15	the order that it's sequenced or some other order,	02:10:52
16	or does it just vary?	
17	A It would be normal to obtain the portions	
18	or the media clips in the order in which they're	
19	going to be played.	
20	Q Now, going back to your declaration and	02:11:12
21	that as I mentioned, that citing to column 5,	
22	lines 39 to 93, which you're welcome to go to as	
23	well. But I notice that the sequencing says the	
24	media clips could be sequenced sequentially, in	
25	parallel, timing, or other.	02:11:32
		Page 131

1	I'm just curious what so I understand	02:11:38
2	what "sequential" means, I assume. So, I mean, you	
3	know, you finish you play one media clip and then	
4	you play the next media clip. But I'm a little less	
5	clear what these other examples of sequencing are.	02:11:50
б	Could you describe what your understanding	
7	of those are and how that would work in this system?	
8	A Yes, I can. I'm just going to go to 539	
9	so I've got that in front of me while I'm talking.	
10	So, if we're talking about media clips or	02:12:22
11	portions of a program that have audio and video,	
12	then I think we're pretty much talking about	
13	sequencing them sequentially. However, I think the	
14	inventors may here have been thinking about other	
15	kinds of media.	02:12:49
16	So, for example, maybe one of the media	
17	types is a subtitle, and then subtitle would be in	
18	parallel and overlaid over a media another media.	
19	So that that's particularly a particular case	
20	that's quite commonly understood. So there is an	02:13:15
21	example of how parallel might work.	
22	Q So, in that context, one media clip would,	
23	for example, be the video, and the other media clip	
24	that's sequenced in parallel would be the	
25	subtitles; is that correct?	02:13:38
		Page 132

1	A Not necessarily, no.	02:13:44
2	Q Okay. I apologize. I maybe just didn't	
3	understand.	
4	So this quote says "identifies the	
5	sequencing in which media clips are to be streamed."	02:13:53
6	And so I'm curious for an example of media	
7	clips being streamed in parallel sequencing.	
8	A Yeah. And what we could have here is the	
9	two media clips being one media clip which could be	
10	requested from one server, for example. It could be	02:14:26
11	a second media clip which comes even from another	
12	server. And that could be the subtitle information.	
13	And here we also have within this list timing. So	
14	that would be how the subtitling is synchronized to	
15	the play-out of the media.	02:14:53
16	So all I'm saying here is that it doesn't	
17	have to be the other media that is being played in	
18	parallel. It could be the media itself. So, when	
19	you request a program, you may in fact receive	
20	portions or media clips, some of which are the video	02:15:22
21	and audio, and others of which are subtitle	
22	information that could be presented in parallel with	
23	the audio and video and timed such that they appear	
24	on the screen in synchronization with the audio and	
25	video.	02:15:52
		Page 133

1	Q Okay. Great. I think I understand what	02:15:54
2	you're saying now.	
3	Let's see here. So going down to	
4	paragraph 73 of your declaration.	
5	A Yes.	02:16:17
6	Q It says "The RTSMS receives a request from	
7	a viewer for a program." So just pausing there.	
8	In the context of the claims we already	
9	talked about, that would be the request for media in	
10	the first limitation, correct?	02:16:39
11	A Yes. In this case, the program is the	
12	requested media, yes.	
13	Q Okay. And then it says "and determines if	
14	the program is available."	
15	So this determination of whether the	02:16:58
16	program is available and you cite to column 9 and	
17	10, which you're welcome to go to. I'm just curious	
18	what you mean here by whether or not the program is	
19	available or how you understand that term in the	
20	context of the specification, I guess.	02:17:17
21	MR. SPRENGER: Objection to form.	
22	THE WITNESS: Okay. I'll look at the	
23	reference, as you suggested.	
24	Yeah. So it's it's simply whether or	
25	not the program is available.	02:18:45
		Page 134

1	BY MR. BERG:	02:18:59
2	Q So are you talking about whether or not	
3	the program actually exists on an MMS?	
4	A Yes. Has the program been populated on an	
5	MMS that has capacity and which is accessible by the	02:19:25
6	communications device.	
7	Q So, in other words, as part of the	
8	availability check, you may be checking not only if	
9	the program actually exists and has been populated,	
10	but whether or not the communications device is	02:19:47
11	authorized to access that media; is that correct?	
12	A Well, the second part is a different	
13	clause here in paragraph 73, where I say does it	
14	have any restrictions. That is media rules applied	
15	by the media owner.	02:20:19
16	Q Sorry for the pause. I'm trying to let my	
17	realtime catch up because I want to ask you a	
18	follow-up question from something you said, but I	
19	just want to make sure I'm using the right words.	
20	Okay. So earlier you said that as part of	02:21:05
21	the availability that it was has the program been	
22	populated on an MMS that has capacity and which is	
23	accessible by the communications device.	
24	And so I guess I'm curious about that	
25	second part, what it means to be accessible by the	02:21:21
		Page 135

1 communications device in terms of determining the 02:21:26 2 program availability. Α Well, part of the process that is 3 described is that an MMS is chosen that is -- has a 4 5 good network path between it and the communications 02:21:53 6 device. 7 So, therefore, we're -- part of this 8 process here is to determine the best way of 9 delivering the media to the communications device. Okay. Fair enough. I understand what 02:22:20 10 0 11 you're saying there. 12 So, now, going down to paragraph 76 of your declaration. 13 Yeah. 14 Α 15 Sorry. I'll back you back up to 02:22:39 0 16 paragraph 74 and just have you look at 74 through 76 17 where you're talking about the play script. Do you see that? 18 19 Yeah. А 20 Q So the play script that you're talking 02:22:53 about here is the play script that's referenced in 21 22 claim 1 that's part of the response, correct? 23 Α That's correct. 24 Okay. And the play script has -- in 0 claim 1 at least has five different elements, which 25 02:23:14 Page 136

1 we've talked about some of. We've talked about the 02:23:21 2 identification of at least a portion of the requested media and identification of at least one 3 other media. 4 Then there is also a reservation 5 02:23:29 identification, a universal resource locator and one 6 7 or more instructions. 8 So, going back to your discussions in -your discussion at paragraph 74 through 76. So, in 9 paragraph 74, it looks like you're referring to the 02:23:56 10 first element there, which is the portion of the 11 requested media, and the second portion, which is 12 the -- one other media. 13 Is that fair? 14 15 MR. SPRENGER: Objection to form. 02:24:10 16 THE WITNESS: Well, I say the play script 17 may include the requested media, one or more media clips and additional other media, such as one or 18 19 more advertisements. Yes. 20 And in the play script, those first two 02:24:33 items are identification of them. And then later in 21 22 the play script we have the actual URL to reference. 23 BY MR. BERG: 24 Right. And so the -- at least in the 0 25 context of this embodiment that you're quoting here 02:24:58 Page 137

1	in paragraph 74, the additional media, such as one	02:25:01
2	or more advertisements, would map to the at least	
3	one other media, the second element of the play	
4	script; is that correct?	
5	MR. SPRENGER: Objection to form.	02:25:16
б	THE WITNESS: Yes. The identification	
7	would be in the second element of the play script.	
8	BY MR. BERG:	
9	Q And then paragraph 75 talks about the URL.	
10	And these disclosures then I assume relate to the	02:25:32
11	third element of the or, sorry, the fourth	
12	element of the play script, which is at least one	
13	universal resource locator. And then it goes on and	
14	talks about how it's associated with one portion and	
15	the other media, et cetera.	02:25:51
16	But is that what you're talking about in	
17	paragraph 75, is that element?	
18	MR. SPRENGER: Objection to form.	
19	THE WITNESS: I believe so. I just want	
20	to have a quick look go back to the claims	02:26:05
21	because I no longer have those open. I'm just	
22	moving back to them.	
23	BY MR. BERG:	
24	Q No problem. Please take your time.	
25	A So, yeah, Item Roman numeral IV in the	02:26:19
		Page 138

1	play script, at least one URL, which goes back to	02:26:24
2	the identification of the one portion. And one	
3	other media, at least one URL to facilitate	
4	streaming. Yes. That's what we're talking about,	
5	yes.	02:26:54
6	Q Okay. Great.	
7	And then skipping down to paragraph 77	
8	A Yeah.	
9	Q you talk about the reservation here.	
10	And is this the same reservation that is	02:27:14
11	identified in the play script by the reservation	
12	identification?	
13	A Yes, it is. In the play script, the	
14	reservation ID is a unique identifier of the	
15	reservation that the RTMS has built.	02:27:45
16	Q Now, going up to paragraph 76, you talk	
17	about how the play script is generated based on	
18	capabilities or attributes of the viewer. And you	
19	give an example from the patent in column 10 where	
20	the viewer is using a Real Network's Real Player.	02:28:08
21	And the patent notes that that may require using a	
22	SMIL file based play script; is that correct?	
23	A Yes. That's what it says in the patent,	
24	yes.	
25	Q So is a SMIL file, in your understanding,	02:28:30
		Page 139

1	an example of a play script or at least a file type	02:28:33
2	that can be implemented as a play script?	
3	A It's a file type that includes the	
4	capability of describing a playlist or a play	
5	script. It's actually as you can see here, it	02:28:53
6	stands for synchronized multimedia integrated	
7	language. It has other functions as well.	
8	Q And then coming down to paragraphs 80	
9	through 82, you talk about how in the '673 patent	
10	the viewer controls streaming of the media.	02:29:29
11	And earlier we talked a little bit about	
12	control of streaming media in the prior art and how	
13	that was typically done by the back-end server.	
14	Can you just describe a little bit of what	
15	you mean here by saying that the viewer controls the	02:29:49
16	streaming?	
17	A Yeah. The play script in this case	
18	essentially transfers control to the viewer or the	
19	communication device. So, once the viewer has	
20	received the play script, then it's up to the viewer	02:30:13
21	to request the content, the media piece by piece	
22	using the information in the play script.	
23	Q So I want to direct your attention to an	
24	embodiment in the patent or a disclosure in the '673	
25	patent in column 17, the paragraph that starts at	02:31:00
		Page 140

1	line 18.	02:31:08
2	A 17. Which row?	
3	Q Line 18.	
4	A Okay. Okay.	
5	Q Would you mind just reading that paragraph	02:31:37
6	to yourself. And I'll ask you a couple of questions	
7	about it or ask you to just kind of summarizes	
8	what's happening there.	
9	A How far down do you want me to read?	
10	Q Just that paragraph. So ending at line 34	02:31:55
11	is fine. And feel free to read additionally, if you	
12	feel like you need more context.	
13	A Okay.	
14	Yes. I've read it.	
15	Q So can you just give me a summary of	02:32:26
16	what's happening in this paragraph?	
17	A Yeah. In this particular embodiment,	
18	rather than providing a play script that just	
19	provides one media clip or one other media, in this	
20	case, essentially, it's providing a series of media	02:33:00
21	clips.	
22	And so then it says here "The viewer can	
23	initiate a single session with a single setup	
24	message such that the MMS streams all of the	
25	requested media clips for" "in that session."	02:33:33
		Page 141

1	Q And so this would be a little bit	02:33:40
2	different scenario than the one described in	
3	paragraphs 80 through 82 of your declaration,	
4	correct?	
5	A Yeah. This is an alternative embodiment.	02:33:56
6	Although I must point out that at line 30, even in	
7	this other embodiment, it says "In another instance,	
8	the viewer transmits a separate setup message and	
9	teardown for each media clip."	
10	So, even in this other embodiment, it	02:34:18
11	still has the alternative here of retrieving each	
12	media clip one by one. So, yeah, it's a slightly	
13	different scenario than the one in my declaration.	
14	Q Fair enough. I'll agree with you	
15	certainly that there's a number of embodiments	02:34:45
16	described in the '673 patent that you know, lots	
17	of variations kind of on this theme and how the	
18	system all works.	
19	So I guess my question then is, going back	
20	to the claim language in claim 1.	02:35:03
21	A Yeah.	
22	Q So looking through claim 1, is there any	
23	reason that claim 1 won't apply to both of those	
24	scenarios that we just described? On the one hand,	
25	the user making a request for each portion; on the	02:35:35
		Page 142

1 other hand, the user just making a single request to 02:35:40 2 the MMS, which then streams the entire program, including all the media clips? 3 4 MR. SPRENGER: Objection to form. THE WITNESS: So I think it's possible 5 02:35:56 that the play script has an identification of at 6 7 least one portion of the requested media, "at least 8 one" meaning it could be as many as all portions of 9 the requested media, which I think is what you're asking me. 02:36:23 10 11 And so, in claim 1 if we're talking about an alternative embodiment, then the play script 12 could contain all of the media clips that make up 13 requested media. And, in that case, in this 14 15 alternative embodiment, there could be a single 02:36:45 16 setup message that would allow the viewer to receive 17 all of the media clips. So I don't think the play script is any 18 19 different between these alternative embodiments. I think what's different is the behavior of the system 20 02:37:12 to the receipt of a setup message. 21 22 BY MR. BERG: Fair enough. So just to make sure I have 23 0 24 your answer right, I think you're saying that claim 25 1 would apply to either scenario. There is nothing 02:37:33 Page 143

1	in claim 1 that would exclude one scenario or the	02:37:37
2	other; is that correct?	
3	A Yeah. What claim 1 is describing is the	
4	mechanism by which a request for media is made and	
5	by which the computing device returns a play script	02:37:57
6	to the communication device. And I think that	
7	mechanism is the same for the different embodiments	
8	described in the patent.	
9	Q Okay. How are you doing, Mr. Adams?	
10	Would now be a good time for a break or do you want	02:38:33
11	to keep going for a little longer? I'm good either	
12	way.	
13	A Maybe we could take a break in about	
14	15 minutes. I'm okay for right now.	
15	Q Sure. So let's go up to the	02:38:47
16	paragraph 57 of your declaration.	
17	A Okay.	
18	Q So here you describe the in this	
19	section, you describe the solution of the '673	
20	patent. And there's just a couple of paragraphs	02:39:13
21	here. So let's focus on paragraph 57 first.	
22	So you note that one solution is that the	
23	inventors envisioned delivering requested media,	
24	e.g., a program, portion by portion and enabling the	
25	user device as opposed to the back-end streaming	02:39:39
		Page 144
1	system to control the process of streaming the	02:39:42
----	---	----------
2	portions in order to present the user with a	
3	complete media presentation, correct?	
4	A Yes. That's what I'm saying here, yeah.	
5	Q Okay. So there's kind of two aspects	02:39:59
6	here. And we've touched on both of these already.	
7	But there's the portion-by-portion aspect, and	
8	there's the control aspect. And, in the	
9	portion-by-portion aspect, again, here you mention	
10	that the the requested media is a program.	02:40:20
11	Now, when you say "portion by portion of a	
12	program," can you describe a little bit what you	
13	mean by "portion of a program," or I guess what a	
14	program is such that it's broken into portions?	
15	MR. SPRENGER: Objection to form.	02:40:46
16	THE WITNESS: Yeah. Here a program an	
17	example of a program might be a TV show or a movie,	
18	for example. And it could be broken down into	
19	portions. And then when the '673 patent delivers	
20	the program, each program each portion of the	02:41:22
21	program is delivered sequentially, one after the	
22	next.	
23	BY MR. BERG:	
24	Q So let me direct your attention to	
25	column 9 of the '673 patent starting on line 63.	02:42:24
		Page 145

1 So line 63, there's a sentence there that 02:42:35 2 says "The initial signal" -- oh, sorry. I need that reference again. 3 А Yeah. I apologize. It's column 9, 4 Q line 63. 5 02:43:01 б А Okay. Yeah. 7 Q So that sentence says, "The initial 8 signaling from the viewer 118 or 120 typically is a 9 request for a program or programs." Yeah. 02:43:13 10 Α So, when you talk about the request being 11 0 12 for a program in paragraph 57, are you using "program" in kind of the same way that the patent is 13 using "program"? 14 15 I believe I am. 02:43:28 Α 16 Q Okay. And then let me have you go up to 17 column 4. 18 Α Okay. 19 And, you know, there's a number of 0 20 different places where the patent talks about 02:43:44 program, and I'm happy to talk about any of them, of 21 22 course, but I did want to point out this example. 23 So this is column 4, starting at line 18. 24 And so here it says, "In another example, a movie trailer followed by a full-length movie may combine 25 02:44:05 Page 146

1	two different media to make a simple program."	02:44:09
2	A Yep.	
3	Q So, in the context of this program that's	
4	being talked about in column 4, is it fair to say	
5	that the first movie clip is the movie trailer and	02:44:29
б	the second clip is the full-length movie?	
7	A No. I don't think so.	
8	Q And why is that?	
9	A Because it talks about two different media	
10	making a simple program. It doesn't say media	02:44:54
11	clips. Otherwise, where we're talking about, you	
12	know, portions, we were also using the terminology	
13	that's used in the patent here is to talk about	
14	media clips. So I think here it's actually not	
15	talking about that.	02:45:24
16	Q Okay. Let's we'll put a pin in	
17	column 4 and come back to it because I want to go to	
18	a couple other places, then we'll come back there,	
19	just on this media clip issue.	
20	A Just to finish that, though, before we	02:46:10
21	move on, I think the context of this, starting at	
22	line 15, is really talking about presentations. And	
23	it says, for example, "the presentation may include	
24	a list of media from the program, with or without	
25	other media items." And then it goes on to talk	02:46:38
		Page 147

1 about, in another example, "the trailer followed by 02:46:43 2 the full-length movie may combine two different media to make up a single program." 3 4 I believe in the context here that that last word "program," they're really, again, still 02:47:02 5 talking about presentations. I think that that is 6 7 the meaning of that paragraph. They kind of 8 interchangeably used "presentation" and "program." 9 But when you read that whole section in context, I think it makes sense to think that 02:47:20 10 11 they're actually still talking about making a simple presentation, which is --12 13 0 Those are two separate examples, right? One being a presentation that contains a list of 14 15 media, possibly with or without other media items. 02:47:37 16 So that's one example. And then the other is a 17 separate example where a movie trailer and a movie 18 are combined to make a program. 19 So why are you linking those two as being part of the same example I guess is what I'm 20 02:47:53 confused by. 21 22 MR. SPRENGER: Objection to form. 23 THE WITNESS: Well, it's following on 24 where this whole section here is talking about a 25 presentation, which is a number of programs. And so 02:48:09 Page 148

1	I you know, it's it follows immediately on,	02:48:20
2	combined to make a simple viewing experience.	
3	And then in another example, the	
4	movie trailer followed by a full-length movie may	
5	combine two different media to make up a simple	02:48:36
6	program. But, to me, that sounds like they're still	
7	talking about the same thing.	
8	BY MR. BERG:	
9	Q I know this I'm sorry. Go ahead and	
10	finish.	02:48:48
11	A It really doesn't matter, I don't think.	
12	It's just my view.	
13	Q Okay. So, just to add a little bit more	
14	context there, if you go up to the very top of that	
15	paragraph, which starts at line 7, you know, those	02:49:00
16	first two sentences there certainly seem to be	
17	talking more about programs. So I'd almost say the	
18	presentation to the extent these all related to	
19	the presentation is kind of the one that's	
20	different.	02:49:18
21	Would you agree with that?	
22	A Yeah. I mean, here they're talking about	
23	creating a viewing experience, aren't they? And I	
24	think they're talking about these viewing	
25	experiences as either programs or presentations.	02:49:37
		Page 149

1	Q Okay. So I'd like you to flip we'll	02:49:41
2	come back to column 4 in a minute, but I would like	
3	you to flip to column 19.	
4	A Okay. I am looking at it now.	
5	Q I want to make sure I'm directing you to	02:50:22
6	the right part here. Just bear with me for a	
7	minute, please.	
8	Okay. So, in lines 10 and 11, it talks	
9	about "A presentation might include a movie media	
10	clip and an advertisement." And then, similarly, in	02:51:17
11	line 46 through 48, it talks about how the MMS	
12	streams the presentation, including the movie media	
13	clip and the advertisement.	
14	So, given these disclosures, do you	
15	understand that a media clip could be a full-length	02:51:40
16	movie in this context?	
17	A I'm still looking for that second	
18	reference you gave me.	
19	Q Sorry. Same column, line 46 is where it	
20	starts.	02:51:59
21	A Oh, 46. Right. Yeah. "The MMS streams	
22	the presentation to the viewer, including the movie	
23	media clip and the advertisement."	
24	So, in this case, it sounds like it's a	
25	clip of the movie, not the whole movie.	02:52:23
		Page 150

1	Q Okay. So then, going back up to column 4	02:52:29
2	where we have the simple program that's a movie	
3	trailer followed by a full-length movie makes up a	
4	simple program.	
5	A Yeah.	02:52:51
6	Q And now, thinking about this example of a	
7	program in the context of claim 11, we've talked	
8	we've talked a lot about how the request for media	
9	in claim 11 is a request for a program.	
10	So, in the context of this example, that	02:53:05
11	program would be the movie trailer followed by a	
12	full-length movie; is that fair?	
13	A Can you be yeah. Yeah. We're just	
14	talking about what the program content is right now,	
15	correct?	02:53:28
16	Q Yeah.	
17	A Yeah. The program content is the trailer	
18	and then the movie itself, yeah.	
19	Q And is it fair to say so then in	
20	claim 1, we've talked about, you know, that there	02:53:42
21	can be one portion; there can be multiple portions.	
22	In the context of this simple program	
23	described in column 4, would it be fair to	
24	characterize the movie trailer as one portion of	
25	that program and the full-length movie as another	02:54:02
		Page 151

1	portion of that program?	02:54:05
2	A No.	
3	Q And can you describe to me why not?	
4	A Well, the portions are of the of the	
5	trailer and portions of the full-length movie. So,	02:54:26
6	you know, the program could be many, many portions,	
7	not just I think you were suggesting that there	
8	were only two portions.	
9	Q Yeah. Okay. So, setting aside the fact	
10	that it's possible, though not disclosed by the	02:54:51
11	patent here, that these that the trailer and that	
12	the movie could be broken up into additional	
13	portions, you know, we, I think, agree that a	
14	request for media is a request for a program, and	
15	then that the portions are a portion of the	02:55:07
16	requested media or, in other words, a portion of the	
17	program.	
18	And so I guess what I'm asking is, is why	
19	couldn't the trailer be one portion and the movie be	
20	another portion?	02:55:24
21	MR. SPRENGER: Objection to form.	
22	THE WITNESS: The I don't think that	
23	really follows from this example. It's not	
24	indicating in this example that any portions might	
25	be I think that's a leap of logic that doesn't	02:55:50
		Page 152

1	work.	02:55:55
2	BY MR. BERG:	
3	Q Okay. So how in the context of	
4	claim 1, what do you understand a portion to be? I	
5	mean, it's just the plain and ordinary meaning of	02:56:05
6	"portion" that applies here, right?	
7	A Yes. The plain and ordinary meaning of	
8	"portion" is that it is part of the requested media.	
9	Q And so, if the requested media is a	
10	program, then isn't a trailer part of that program?	02:56:22
11	A Yes. But it's not necessarily the same	
12	part that a portion of it is. Clearly, in this	
13	example here, we could have the movie trailer broken	
14	into 16 portions and the movie broken into 275	
15	portions.	02:56:48
16	Q Okay. So they could be further broken	
17	down into additional portions, but if a portion is	
18	just a part, then the movie trailer is a portion of	
19	the program, right?	
20	MR. SPRENGER: Objection to form.	02:57:05
21	THE WITNESS: What would I think what	
22	you're doing is you're conflating two different	
23	meanings for "portion." And, as I say, I don't	
24	think this I don't think your logic is correct.	
25	/ / / /	
		Page 153

1	BY MR. BERG:	02:57:21
2	Q So sorry. I was just trying to use the	
3	definition of "portion" that you gave me, which was	
4	"a part of the program."	
5	So what other definition am I using that	02:57:29
6	I'm conflating?	
7	A Well, there is no reason to believe that,	
8	just because a program contains portions, that	
9	therefore part of that program is one portion. It	
10	can be any number of portions. We really don't have	02:57:55
11	the information in here to know how the program is	
12	portioned.	
13	And you're asking me to accept that this	
14	program is made up of two portions. I have no	
15	there's no logic or no information here that would	02:58:19
16	suggest to me that that's the case.	
17	Q So I guess I guess what I'd like you to	
18	do is, can you point me to anywhere in the claim	
19	that indicates that that couldn't be a way to apply	
20	the claim language portion in the context of	02:58:40
21	claim 1?	
22	A I don't believe that I I don't believe	
23	that is a necessary thing to you know, to	
24	actually, if you like, prove the point one way or	
25	another.	02:59:13
		Page 154

1	Q Okay.	02:59:13
2	A Yeah. So, I mean, we're talking here	
3	about in the claim an identification of at least one	
4	portion of the requested media. That doesn't tell	
5	me that one portion of the requested media could	02:59:30
6	be, for example, an entire movie trailer. It	
7	there's no link.	
8	Q Okay. So I think maybe I see the hangup	
9	we have here.	
10	So I'm not asking you to limit the claim	02:59:47
11	to a portion being the movie trailer and another	
12	portion being the full-length movie. I will, for	
13	purposes of this discussion, stipulate that you	
14	could also imagine a scenario where there were other	
15	definitions of "portion" other portions that	03:00:10
16	would also apply to this claim language.	
17	For example, if the movie was broken up	
18	into 200 portions, you could also apply the claim	
19	language to those portions. I'm asking if there is	
20	any reason in the claims to limit it to only that	03:00:25
21	context that you seem to be pushing for instead of	
22	also embracing, you know, the movie trailer being a	
23	portion and the full-length movie being another	
24	portion.	
25	I'm asking if there is any reason that the	03:00:42
		Page 155

1 claim can't be broad enough to encompass both 03:00:45 2 scenarios. MR. SPRENGER: Objection to form. 3 4 THE WITNESS: I think I just have to go 5 back and say once again that we're talking about 03:00:58 б portions of media. And these portions of media 7 clearly are not -- can be of arbitrary length, are 8 not limited. And it doesn't make sense for them to 9 be the whole media. So we're -- you know, we're looking at a 03:01:31 10 11 system here that is breaking media into portions for a reason. And so suggesting that a movie could be a 12 single portion just does not make sense in the 13 context of this patent. 14 15 BY MR. BERG: 03:01:57 16 Q So I feel like we're -- you were talking 17 about media in that case, but specifically the 18 requested media, which we've agreed is a program, 19 right? 20 MR. SPRENGER: Objection to form. 03:02:09 THE WITNESS: In the example we gave, it 21 is a program -- it could also be a presentation. 2.2 23 BY MR. BERG: 24 Q Okay. 25 Α It could also be a single piece of media. 03:02:18 Page 156

1	The patent actually describes all three.	03:02:21
2	Q Fair enough.	
3	And just by way of semantics, "media" is	
4	actually a plural word, right?	
5	MR. SPRENGER: Objection to form.	03:02:35
6	THE WITNESS: Well, it's people don't	
7	talk about mediums or a medium. It's a word that is	
8	always used in the plural, even when it's referring	
9	to a single thing.	
10	BY MR. BERG:	03:02:55
11	Q Fair enough.	
12	But, based on the language of the claim	
13	then, "media" could be a plural or it could be a	
14	singular. Like "media" here could also be a whole	
15	set of media, correct?	03:03:09
16	A I'm not sure. I think when you have the	
17	definite article as in at least one portion of the	
18	requested media, I think probably the media is most	
19	likely singular.	
20	Q So I'll represent to you that, as a matter	03:03:33
21	of law, the definite Article B or A can be one or	
22	more than one in patent law.	
23	So, assuming that that's true information	
24	that I've given you, does that change your answer at	
25	all regarding the definite article?	03:03:49
		Page 157

MR. SPRENGER: Objection to form. 1 03:03:51 2 THE WITNESS: You know, I don't want to debate you on points of law. I'm going to read this 3 4 patent in the way, you know, that makes sense to me 5 as an engineer and, you know, in the context of my 03:04:07 б experience. 7 So, you know, I don't think it changes. 8 You know, what you just said is -- you know, I'm 9 going to have to rely on my engineering brain because I'm not a lawyer. 03:04:32 10 BY MR. BERG: 11 12 Q Fair enough. So, in the context of the prior art, we 13 talked about playlists, right? Which are obviously 14 15 multiple media. 03:04:43 16 Would a request for a playlist be -- I 17 mean, would you call a request for a playlist a request for media, or would you use some other word 18 19 to describe that? 20 Α Can you repeat that? That was awfully 03:04:58 21 quick. 22 Q Yeah. Sorry, sometimes I talk too 23 quickly. So I'll just repeat what I said. 24 In the context of the prior art, we talked 25 about playlists, which are obviously multiple pieces 03:05:11 Page 158

1	of media.	03:05:15
2	So my question for you was, would a	
3	request for a playlist be a request for media, or	
4	would you describe that use some other way to	
5	name that?	03:05:29
6	MR. SPRENGER: Objection to form.	
7	THE WITNESS: Okay. So yeah. What we	
8	were talking about on the prior art was the playlist	
9	has multiple URLs, and each one of them points to	
10	let's use the word "piece of content," but a media	03:05:49
11	asset. So, in that case, we have multiple media	
12	assets.	
13	BY MR. BERG:	
14	Q And so requesting that playlist would be a	
15	request for media, correct?	03:06:07
16	A It would be a request for multiple media	
17	assets.	
18	Q And you think it's unfair to call it a	
19	request for media?	
20	A I think it's confusing.	03:06:34
21	Q So when we've been talking about	
22	portions and throughout your declaration, you	
23	talk about breaking a full-length movie up into	
24	portions.	
25	Can you point me to any example in the	03:06:54
		Page 159

1	'673 specification where a full-length movie is	03:06:57
2	broken up into portions?	
3	A Yeah. Let's go to column 3, which I think	
4	is where we first talk about portions. Yeah. At	
5	line 49, "Media may include one or more media clips	03:08:04
6	or a part of a media clip."	
7	And I think then if we go to column 5	
8	and we looked at this earlier, I think. "The	
9	streaming system also enables a media owner to	
10	identify a program or a portion of a program made	03:08:47
11	available for streaming."	
12	So there a program could be a movie, and a	
13	portion of a program could be a portion of a movie.	
14	Q So can you identify any spot in the	
15	specification where a program is an entire movie?	03:09:10
16	That's the example you keep going back to, and it's	
17	in your declaration.	
18	Is there any example in the specification	
19	of a program being defined as an entire movie?	
20	A Can you point me to where I say that in my	03:09:28
21	declaration?	
22	Q Yeah. So let's take at paragraph 221 for	
23	an example.	
24	A Okay.	
25	Q And so the second sentence there says,	03:09:53
		Page 160

1 "The claims and specifications of the '673 patent 03:09:55 2 distinguish between requested media, e.g., an entire movie, and portions of the requested media, e.g., a 3 portion of the movie." 4 5 Α Right. 03:10:12 б And in other places that we've talked 0 7 about, you discuss that the request is for a 8 program. 9 And so my question is, is there anywhere in the specification that gives that example of a 03:10:25 10 11 program being an entire movie? 12 MR. SPRENGER: Objection to form. THE WITNESS: I don't know if I can point 13 you to it right now, but I believe there are 14 15 examples of that in the specification. I could 03:10:40 16 search for them if you like. BY MR. BERG: 17 18 0 Yeah, sure. Take your time. 19 So now I need to download it. There's no А 20 search in here. Give me a moment. 03:10:58 So the first thing I found is in column 11 21 22 at line 55. And it says, "The viewer can watch 23 movies of a designated media rating." And then later on it says -- it talks about data relevant to 24 25 the publisher of the program. 03:12:09 Page 161

1 So we're talking first about movies, and 03:12:12 2 then we're talking about the publisher of the program. So I believe there, the program could be 3 4 the movie. Okay. I guess I don't see the movie 5 0 03:12:28 б being -- a program being defined as the movie there, 7 but that's your opinion. 8 А We can continue this exercise. I would 9 point out that it is also pretty common to consider a movie to be a program in the common usage. 03:12:49 10 But in column 18, the program has multiple 11 media items, including a media clip for a movie. 12 What line are you in? 13 Q Programs and movie is in the same 14 Α 15 sentence. 03:13:17 16 0 Sorry. Which line are you in? I'm at line 30, column 18. 17 Α Uh-huh. 18 0 19 Okay. Α 20 Q So, in that one, the program is at least 03:13:32 the media clip for the movie and an advertisement, 21 22 so not just a movie, correct? 23 Α Yeah. 24 Okay. So that's similar to the program 0 25 example we looked at earlier, except for instead of 03:13:43 Page 162

1	a trailer and a movie, it's a movie clip and an	03:13:49
2	advertisement?	
3	A Okay. At line just continuing on, at	
4	line 50, a viewer selects an option to obtain one or	
5	more programs which, for example, contain movie	03:14:06
б	media clips.	
7	Q Okay. So by that you understand that the	
8	program would be an entire movie?	
9	A Well, the program is, as for example,	
10	contained movie media clips. If the totality of the	03:14:39
11	media the movie media clips make up an entire	
12	movie, then the program would make up would be a	
13	movie.	
14	Q So, clearly, this isn't defining a program	
15	as a movie, though, since this is referring to one	03:15:03
16	or more programs. And there is no indication that	
17	the movie media clips come from the same movie. And	
18	I would expect across if we're talking about	
19	multiple programs, they certainly wouldn't, right?	
20	MR. SPRENGER: Objection to form.	03:15:18
21	THE WITNESS: Well, hang on a second. One	
22	or more programs. In other words, one program is	
23	part of this.	
24	BY MR. BERG:	
25	Q Yeah. I agree. But all I'm saying is I	03:15:27
		Page 163

1	don't see a definition of a program being a single	03:15:29
2	movie here. I mean, I agree that possibly it could	
3	include that.	
4	Any other examples?	
5	A I'm going to just keep going down here.	03:15:45
6	In this case, we have a presentation	
7	including multiple movie clips or media clips.	
8	So I don't see any other specific	
9	references, but I would go back to the common	
10	language, meaning that a program can be a movie.	03:16:36
11	And I believe that's the way that "program" is being	
12	used in this patent. It's a program. It's a TV	
13	show. It's a movie. It's an opera, and so on and	
14	so forth.	
15	Q So, yeah, let's talk about that common	03:16:58
16	language that you've referred to a couple times now.	
17	Because certainly we've looked at several	
18	examples, including some that you just pointed out	
19	where a program isn't merely an entire movie, right?	
20	I mean, we've looked at at least one example where a	03:17:15
21	program was a trailer plus a movie and another	
22	example where a program was a movie clip plus an	
23	advertisement.	
24	So I think it's fair to say that the	
25	patent is using this at least in a in not the	03:17:30
		Page 164

1 common language way that you're referring to. At 03:17:32 2 least not limited to the common language way you're referring to; is that correct? 3 4 I take the patent as being inclusive in Α 5 its use of "program." So I think it's using it in a 03:17:45 б general sense that includes -- it could be a movie 7 or it could be a movie trailer and a movie. That 8 could be a program. 9 So --Q I don't think it's limiting a program to 03:18:00 10 Α 11 being more than one thing. 12 Q Understood. So, in the context of claim 1 where it's a 13 request for media, which you've identified as a 14 15 request for a program, that could -- that would be 03:18:15 16 encompassing of both scenarios, in your opinion, 17 right? Well, actually, I believe it was you that 18 Α 19 was the person that was establishing that the 20 request for media was a request for a program. I 03:18:31 think I pointed out that, in this patent, the 21 request for media could be a single piece of media, 22 23 a program, or a presentation. 24 So, actually, I don't -- I'm not limiting. 25 I think it was you that was limiting the request for 03:18:53 Page 165

1 media to being a program. It's not limited to a 03:18:58 2 program. 0 Well, certainly I don't want to put words 3 4 in your mouth. I was using the language in your 5 declaration. For example, in paragraph 73 and 74, 03:19:07 б you specifically say the request is a request for a 7 program, correct? 8 А Let me have a look at that. 9 In this case, I used the requested program, and I'm using it in the common language 03:19:30 10 meaning of program, not, you know -- not meaning 11 12 just a program. So you're using it in a different way than 13 0 the patent uses it? 14 15 Α No. I believe I'm using it --03:19:50 16 MR. SPRENGER: Objection to form. 17 THE WITNESS: I believe I'm using it in 18 the same way the patent is using it. BY MR. BERG: 19 20 Q Okay. I just misunderstood. 03:19:58 And in paragraph 81, you also talk about a 21 22 request for a program, correct? 23 Α Yeah. And I believe my language is 24 consistent. The reason I'm using the word "program" 25 is clearly because a program is something that's 03:20:09 Page 166

1	talked about in the patent. And I think programs	03:20:13
2	can be made up of media clips. And I think that's	
3	clear from the patent too.	
4	I think programs can be made up of, as you	
5	pointed out, movie trailer and a movie. And I think	03:20:33
6	a program could be made up just of a movie by	
7	itself.	
8	Q Okay.	
9	A I don't see any problem with any of these	
10	uses of the word "program" consistent with the way	03:20:48
11	the language of the patent is written.	
12	Q Okay. No. That's great. That's what I	
13	understood your testimony to be. I just wanted to	
14	make sure we were clear that it wasn't just me using	
15	the word "program" to describe the request in claim	03:21:04
16	1. I think that was kind of how we've both been	
17	talking about it.	
18	MR. SPRENGER: Brad, I think we've been	
19	going almost two hours.	
20	MR. BERG: Yeah. So it's probably time	03:21:21
21	for a break. I will yeah. Let's just go ahead	
22	and take a break, and then we can talk about	
23	logistics after we're off the record. If you're	
24	okay with taking a break, Mr. Adams.	
25	THE WITNESS: Yes, I am.	03:21:38
		Page 167

1 THE VIDEOGRAPHER: Going off the record. 03:21:39 2 The time is 3:21 p.m. (Recess taken.) 3 4 THE VIDEOGRAPHER: Back on the record. The time is 3:33 p.m. 5 03:33:52 б BY MR. BERG: 7 Q Welcome back, Mr. Adams. 8 Α Thank you. Did you talk with your counsel during the 9 Q break? 03:34:03 10 No, I did not. 11 А 12 Q Mr. Adams, I'd like to have you turn to the claim construction portion of your declaration, 13 which I believe starts on page 39. 14 15 Α Okay. Yes. 03:34:29 16 Q So, in this section you identify four 17 terms that you say require construction, play script, reservation, reservation identification, and 18 19 media selector, correct? 20 Α Yes. Those are the four claim terms I was 03:34:49 informed about, as I say here in my declaration. 21 22 0 And for each of these four terms, you've 23 reviewed Hulu's proposed construction, which was 24 also adopted by the Board here, and also Sito's 25 proposed construction? 03:35:12 Page 168

Yes. And I have here as well the Texas 1 Δ 03:35:14 2 District Court's construction. Fair enough. So three different 3 0 4 constructions. 5 So I guess my first question is, for each 03:35:36 of these claim terms, after having reviewed the 6 7 three different constructions, do you agree that 8 Sito's proposed constructions are the correct ones? 9 MR. SPRENGER: Objection to form. THE WITNESS: Yeah. Just -- yeah, I 03:35:49 10 11 believe they are. Correct, yes. BY MR. BERG: 12 Now, let's just step through each of these 13 Q fairly quickly. 14 15 So play script, you say in paragraph 94 a 03:36:03 16 POSITA would understand that the play script is a 17 file containing one more or media references and other information used by a communication device to 18 19 obtain media, which is Sito's construction, correct? 20 А Yes. 03:36:27 21 Q So I have two questions that I want to ask you. And I'll ask you these about each of these 2.2 23 four terms. So the first question is, in your analysis 24 25 in your declaration, which construction did you 03:36:44 Page 169

1	apply or did you apply both, is the first question.	03:36:49
2	So let me ask you that in the context of play	
3	script.	
4	A In the context of play script, I applied	
5	the construction that's here in paragraph 94.	03:37:05
6	Q So, just to be clear, you didn't apply the	
7	construction adopted by the Board in its institution	
8	decision. You only applied Sito's construction; is	
9	that correct?	
10	A Can you point me to that construction?	03:37:36
11	Q Yeah. The one I adopted by the Board?	
12	A Yeah.	
13	Q Yeah. And, just to be clear, the Board's	
14	constructions are preliminary at this stage. And	
15	so, obviously, they could change, which is, you	03:38:03
16	know, I assume why Sito has put forward	
17	constructions here. Let me just pull this open.	
18	So let me mark this exhibit. I apologize.	
19	Bear with me for a second here. It looks like the	
20	institution decision itself didn't get uploaded into	03:39:40
21	the system here. It should just take a moment,	
22	though.	
23	(Exhibit 16 marked for identification.)	
24	BY MR. BERG:	
25	Q Okay. So I've introduced Exhibit 16,	03:40:13
		Page 170

1	which is the institution decision in the '673 IPR.	03:40:16
2	A Okay. I have that.	
3	Q And I'll note that this Paper 9 is one	
4	that's listed in your table of materials considered	
5	in Section 3 of your declaration.	03:40:47
6	So, if you flip down to page 18 of the	
7	institution decision, there's a section called	
8	"Claim Construction."	
9	A Yes. I have that in front of me. Yeah.	
10	Q Okay. And there's three claim terms that	03:41:15
11	the Board says require construction, including play	
12	script, reservation, and reservation identification.	
13	And, if you look at the first paragraph	
14	under each of those subheadings, they the first	
15	paragraphs all basically follow the same format. It	03:41:37
16	says, for example, under "play script," "Petitioner	
17	asserts that the term 'play script' should be	
18	construed" and it provides our construction or	
19	Hulu's proposed construction. And it says "For	
20	purposes of this decision, we agree with Petitioner,	03:41:52
21	as it is consistent with the claim language and	
22	specification."	
23	Similar for "reservation." The first	
24	paragraph similarly agrees with Petitioner's	
25	construction.	03:42:07
		Page 171

1	And then finally for "reservation	03:42:10
2	identification," the Board also says they adopt	
3	Petitioner's proposed construction for purposes of	
4	this decision.	
5	Do you see those three paragraphs?	03:42:23
б	A Yes, I do.	
7	Q And I'll represent to you that there's	
8	similar language in the other institution decisions,	
9	except for not all these terms are construed in	
10	all not all these terms are present in all three	03:42:39
11	of these patents.	
12	So then going back to my question in the	
13	context of your declaration, my question was, did	
14	you only apply Sito's proposed constructions or did	
15	you also apply the constructions that were adopted	03:42:58
16	by the Board in its institution decisions?	
17	MR. SPRENGER: Objection to form.	
18	THE WITNESS: Okay. So let's take these	
19	one at a time. So I understand here that the PTAB	
20	has construed "play script" as "a list customized	03:43:17
21	for the communication device containing one or more	
22	media references and instructions executable by the	
23	communication device"; is that correct?	
24	BY MR. BERG:	
25	Q That's correct.	03:43:34
		Page 172

1	A Yeah. So no. In my declaration, I looked	03:43:34
2	at the construction according to the Texas District	
3	Court. So I did not look at this I did not look	
4	at it in the context of this particular	
5	construction.	03:44:13
б	Q Okay. So, just to back up there, did you	
7	say	
8	A So, just to be clear, if we go back to my	
9	declaration.	
10	Q Yeah.	03:44:29
11	A That would be the easiest thing. Yeah.	
12	It's what it says in the declaration, which is I've	
13	adopted the POSITA would understand that a	
14	play script is as I've stated in 94. So that was	
15	the basis of my expert report, that construction.	03:45:03
16	Q So is that the reason that you didn't	
17	apply the construction adopted by the Board in its	
18	institution decision?	
19	A When was that institution decision made?	
20	Because I'm not sure I it was available to me	03:45:22
21	when I wrote this report.	
22	Q Yeah. So the institution decision, if you	
23	look at the top of that exhibit, is dated April 20,	
24	2021.	
25	A Yes, I see that.	03:45:43
		Page 173

1	Q And also, if you look at page 4 of your	03:45:43
2	declaration, it's listed there in your list of	
3	materials considered.	
4	A I'm sure you're right. Paper 9. Is that	
5	Paper 9?	03:46:30
б	Q Yes.	
7	A Yeah. Okay. I see it. Yeah.	
8	Q So then, going back to my question, is	
9	there any reason that you didn't offer opinions	
10	applying the Board's adopted constructions?	03:46:40
11	A Basically	
12	MR. SPRENGER: Objection to form.	
13	THE WITNESS: Yeah, I don't have any	
14	reasoning.	
14 15	reasoning. BY MR. BERG:	03:46:57
		03:46:57
15	BY MR. BERG:	03:46:57
15 16	BY MR. BERG: Q Let me ask you another question.	03:46:57
15 16 17	BY MR. BERG: Q Let me ask you another question. Obviously, you opine in your declaration that	03:46:57
15 16 17 18	BY MR. BERG: Q Let me ask you another question. Obviously, you opine in your declaration that various elements aren't met by the prior art.	03:46:57 03:47:16
15 16 17 18 19	BY MR. BERG: Q Let me ask you another question. Obviously, you opine in your declaration that various elements aren't met by the prior art. Do any of those distinctions turn	
15 16 17 18 19 20	<pre>BY MR. BERG: Q Let me ask you another question. Obviously, you opine in your declaration that various elements aren't met by the prior art. Do any of those distinctions turn specifically on the differences between the two</pre>	
15 16 17 18 19 20 21	<pre>BY MR. BERG: Q Let me ask you another question. Obviously, you opine in your declaration that various elements aren't met by the prior art. Do any of those distinctions turn specifically on the differences between the two constructions of "play script"?</pre>	
15 16 17 18 19 20 21 22	<pre>BY MR. BERG:</pre>	
15 16 17 18 19 20 21 22 23	<pre>BY MR. BERG: Q Let me ask you another question. Obviously, you opine in your declaration that various elements aren't met by the prior art. Do any of those distinctions turn specifically on the differences between the two constructions of "play script"? A I don't know. Q Okay. Okay. Let's go to the next claim</pre>	

1	Q And I'll ask you the same two questions.	03:47:39
2	So, first, what construction did you apply	
3	in forming your opinions in your declaration?	
4	A Okay. So, again, if we go to the	
5	declaration, I think it's that which page was it	03:47:59
6	again? Because I've jumped around a bit now.	
7	Q Yeah. No problem. It's on page 41,	
8	paragraph 95 through 97.	
9	A Thank you.	
10	Yes. So yes, I adopted the ordinary	03:48:31
11	meaning, you know, which I basically took from the	
12	specification of the patent, which I refer to here	
13	in paragraph 96.	
14	Q And so, once again, that definition is	
15	slightly different than the one adopted by the Board	03:49:05
16	in its institution decision, correct?	
17	A Let me flip back to that. Can you help me	
18	get to that page quickly?	
19	Q Absolutely. So I think it was page 18 or	
20	probably 19 where this term is discussed.	03:49:36
21	A Okay.	
22	Q Actually, page 20. Top of page 20.	
23	A Thank you.	
24	Okay. Yeah.	
25	Q And so that construction in the	03:50:12
		Page 175

1	institution decision is not the construction you	03:50:16
2	applied, correct?	
3	A That's correct.	
4	Q Any reason that you didn't apply that	
5	construction in your declaration?	03:50:24
6	A No.	
7	Q And do you know if the if your opinions	
8	would change based on that construction?	
9	A I don't know.	
10	Q All right. And then similarly for	03:50:43
11	"reservation identification," did you what	
12	construction did you apply in your declaration?	
13	A As I've stated in paragraph 99,	
14	identification of a reservation.	
15	Q And that's different than the construction	03:51:17
16	of "reservation identification" in the institution	
17	decision, correct?	
18	A Yeah. Identification of a reservation	
19	versus a designator uniquely yeah. So it is	
20	different, yes.	03:51:47
21	Q And is there any reason why you applied	
22	why you didn't apply the Board's adopted	
23	construction here?	
24	A No.	
25	Q And are you aware if your opinion would	03:51:57
		Page 176

1	change based on the differences between those two	03:52:00
2	constructions?	
3	A I don't know.	
4	Q And then the last term you have here is	
5	"media selector," which media selector was not a	03:52:15
6	term that Hulu identified for construction and	
7	therefore not a term that the Board construed.	
8	A Okay.	
9	Q Do any of your reasons stated in your	
10	declaration for why the prior art does not	03:52:38
11	invalidate the asserted patents hinge on the	
12	construction of "media selector," to the best of	
13	your recollection?	
14	MR. SPRENGER: Objection to form.	
15	THE WITNESS: Yeah. That's a very broad,	03:52:56
16	wide-ranging question. I'd have to say I don't	
17	know. I'd have to say I can't answer that question.	
18	BY MR. BERG:	
19	Q Fair enough.	
20	Sitting here today, you can't recall	03:53:09
21	whether the specific defense hinged on that or	
22	depended on that construction?	
23	A Yeah. Yeah. It's simple. I don't know.	
24	I'd have to review that to provide a competent	
25	answer.	03:53:26
		Page 177

1 Fair enough. Q 03:53:27 Okay. Enough of talk of claim 2 constructions. Let's go to -- you have some 3 4 discussion in here of the priority applications. 5 That's the last thing that I'd like to talk about. 03:53:44 б Okay. Α 7 Q Let me just find where it is. 8 Okay. So we're in the section Roman 9 numeral XI that starts on page 72. Right. 03:55:06 10 Α Okay. So a couple questions here. So, in 11 0 paragraph 169 --12 Yeah. 13 Α -- well, actually, let's look at 14 0 15 paragraph 171 first. 03:55:46 16 So, in paragraph 171, you map the 17 presentation ID to the claimed construction for use by the communication device. And then you quote the 18 19 rest of the claim language from claim 1. 20 So you identify the presentation ID as 03:56:06 being the claim construction in the playlist; is 21 that correct? 22 23 Α That's correct. 24 0 And I note that in -- well -- so in 25 paragraph 169 you say that "POSITA would understand 03:56:23 Page 178

1 'each entry on the playlist' can mean the 03:56:30 2 presentation ID can be part of the URL itself or separate from the URL." 3 4 Do you see that? 5 Yes. That's correct. 03:56:44 А б So, keeping a finger here and looking at 0 7 claim 1 of the '673 patent again. 8 А Okay. Let me jump back to that. 9 Yeah. I got that. So you say that the presentation ID could 03:57:20 10 0 be part of the URL or it could be separate from the 11 12 URL. Based on the enumeration of the play 13 script components in claim 11, do you understand 14 15 that the claimed instructions must be separate from 03:57:35 16 the claimed URL, or do you understand that they could be -- that the instructions could be embedded 17 18 as part of the URL? 19 MR. SPRENGER: Objection to form. 20 THE WITNESS: Okay. I think you're 03:57:53 pointing me here to Roman numeral V. 21 22 BY MR. BERG: 23 0 Yeah. Roman numerals IV and V. 24 Α Yeah. So -- well, specifically V, "One or 25 more instructions were used by the communication 03:58:05 Page 179

1 device, together with at least one URL and the 03:58:08 2 reservation identification to enable at least one 3 communication device." So I believe this is a matter of 4 5 formatting. So I think the instruction is separate 03:58:23 б from the URL. But, in fact, the instruction can 7 also be embedded within the URL. I think embedding 8 the instruction within the URL is one of the ways 9 that -- I think we're talking here about the '044 document described it. But also, it could be said 03:58:57 10 11 separately. 12 So I think the case where it's said separately satisfies the limitations of the -- of 13 claim 1. 14 15 And does the case where it's sent as part 03:59:12 0 16 of the URL satisfy the limitations of claim 1 or 17 only the separate scenario? Well, it's kind of interesting. Maybe we 18 А should look at the '044. But when it's format --19 the way it's formatted is, it's part of the URL 20 03:59:33 21 string. 22 But, you know, that kind of -- is 23 information transmitted in the HTTP request with the 24 URL. So formatting is as part of the URL string 25 doesn't actually, you know -- I don't think it 04:00:01 Page 180
1 actually changes anything, quite frankly. I think 04:00:06 2 you're still transmitting the instructions. It's a formatting difference, quite frankly. 3 4 So I think actually both satisfy the claims, in my opinion, or claim 1, in my opinion. 04:00:21 5 б Okay. In that case, I don't think we need 0 7 to go to the '044 and ask any follow-up questions 8 there because that was my question. That makes 9 sense. One other question, I guess. In 04:00:55 10 11 paragraph 176, right at the bottom of page 76, 12 there's a sentence that starts "If the URL," and it breaks over to page 77. 13 Do you see that sentence? 14 15 Again, in 176 we're talking about the '044 04:01:18 Α 16 provisional, which is what I thought we were talking 17 about. And I reference various aspects, yeah. 18 And I say -- yeah, we're talking about, I think, at the bottom of page 76, correct? 19 20 Q Yeah. 04:01:39 Yeah. So yeah, if the URL did not include 21 Α 22 the presentation ID, a POSITA would understand that 23 the presentation ID would still be included in the 24 play script, but separate from the URL. Yeah. 25 Q I'm just curious, in this instance where 04:02:03 Page 181

1 you're saying that a POSITA would understand that it 04:02:07 2 could be separate from the URL and not embedded in the URL, what would that look like in the play 3 4 script? Like, how would that work? 5 Quite simply, in the play script you would 04:02:21 А have two separate fields. The URL and the 6 7 presentation ID would be in separate fields rather 8 than it being embedded in the URL. 9 And how do you know that that would work Q in the context of the play script described by the 04:02:38 10 '044 application? 11 I believe it would work because the same 12 А information is there. It's just formatted 13 differently. 14 15 So would the end user software application 04:02:56 0 16 need to be programmed differently in order to parse that information that was kind of formatted 17 18 differently, or would it work just kind of as it 19 exists in the '044 application? 20 MR. SPRENGER: Objection to form. 04:03:13 THE WITNESS: I mean, that depends on how 21 22 it was implemented. I'll tell you, it would be 23 possible to implement it to pass the information in 24 either way and make it flexible. It would really be 25 up to the skill of the programmer whether or not it 04:03:33 Page 182

1	would be able to accept either form without	04:03:36
2	modification.	
3	BY MR. BERG:	
4	Q Let me check my notes really quick, but I	
5	think we may be just about done here.	04:03:50
6	So just a couple of clean-up questions.	
7	Mr. Adams, do you expect to supplement	
8	your report at any point?	
9	A I don't expect to, but I believe I have	
10	reserved the right to.	04:04:11
11	Q And, sitting here today, do you plan to	
12	review any additional materials?	
13	A I don't have any plans to, no.	
14	Q Have you been asked to do anything else in	
15	connection with this case at the present time?	04:04:28
16	A Not at the present time, no.	
17	Q Have your opinions changed at all as a	
18	result of today's deposition?	
19	A No.	
20	Q Are your opinions regarding these three	04:04:45
21	IPRs fully contained in your three declarations that	
22	we've talked about today?	
23	A To the best of my knowledge, they are,	
24	yes.	
25	MR. BERG: Okay. Well, I have no further	04:04:56
		Page 183

1 questions at this time. 04:04:59 MR. SPRENGER: Okay. So can we take a 2 10-minute break? 3 MR. BERG: Sure. 4 MR. SPRENGER: Okay. Off record. 04:05:12 5 6 THE VIDEOGRAPHER: Going off the record. 7 The time is 4:05 p.m. 8 (Recess taken.) 9 THE VIDEOGRAPHER: Back on the record. 10 The time is 4:15 p.m. 04:15:13 MR. SPRENGER: Okay. So we have no 11 further questions, so I think we're done. 12 13 MR. BERG: Great. We can go off the 14 record. THE VIDEOGRAPHER: This completes today's 04:15:32 15 deposition. We are going off the record. The time 16 is 4:15 p.m. 17 18 (TIME NOTED: 4:15 P.M.) 19 20 21 22 23 24 25 Page 184

1	DECLARATION UNDER PENALTY OF PERJURY
2	
3	I, MICHAEL ADAMS, the witness herein, declare under
4	penalty of perjury that I have read the foregoing in its
5	entirety; and that the testimony contained therein, as
6	corrected by me, is a true and accurate transcription of
7	my testimony elicited at said time and place.
8	
9	Executed this day of 2021, at
10	·································
11	(City) (State)
12	
13	
14	
15	
16	
17	MICHAEL ADAMS
18	
19	
20	
21	
22	
23	
24	
25	
	Page 185

REPORTER'S CERTIFICATION

I, Leslie Johnson, a Certified Shorthand Reporter of the State of California, do hereby certify:

5 That the foregoing proceedings were taken б before me at the time and place herein set forth; that 7 any witnesses in the foregoing proceedings, prior to testifying, were administered an oath; that a record of 8 9 the proceedings was made by me using machine shorthand 10 which was thereafter transcribed under my direction; 11 that the foregoing transcript is a true record of the 12 testimony given.

Further, that if the foregoing pertains to the original transcript of a deposition in a Federal Case, before completion of the proceedings, review of the transcript [] was [X] was not requested. I further certify I am neither financially interested in the action nor a relative or employee of any attorney or any party to this action.

IN WITNESS WHEREOF, I have this date subscribed my name.

Dated: October 20, 2021

deslie Johnson

24 LESLIE JOHNSON

1

2

3

4

20

21

22

23

25 CSR No. 11451, RPR, CCRR

Page 186

1	BRAD BERG, ESQ.
2	bmberg@omm.com
3	October 21, 2021
4	RE: HULU, LLC VS. SITO MOBILE R&D IP, LLC
5	OCTOBER 15, 2021, MICHAEL ADAMS, JOB NO. 4833181
6	The above-referenced transcript has been
7	completed by Veritext Legal Solutions and
8	review of the transcript is being handled as follows:
9	Per CA State Code (CCP 2025.520 (a)-(e)) - Contact Veritext
10	to schedule a time to review the original transcript at
11	a Veritext office.
12	Per CA State Code (CCP 2025.520 (a)-(e)) - Locked .PDF
13	Transcript - The witness should review the transcript and
14	make any necessary corrections on the errata pages included
15	below, notating the page and line number of the corrections.
16	The witness should then sign and date the errata and penalty
17	of perjury pages and return the completed pages to all
18	appearing counsel within the period of time determined at
19	the deposition or provided by the Code of Civil Procedure.
20	Waiving the CA Code of Civil Procedure per Stipulation of
21	Counsel - Original transcript to be released for signature
22	as determined at the deposition.
23	Signature Waived - Reading & Signature was waived at the
24	time of the deposition.
25	
	Page 187

1	Federal R&S Requested (FRCP 30(e)(1)(B)) - Locked .PDF
2	Transcript - The witness should review the transcript and
3	make any necessary corrections on the errata pages included
4	below, notating the page and line number of the corrections.
5	The witness should then sign and date the errata and penalty
6	of perjury pages and return the completed pages to all
7	appearing counsel within the period of time determined at
8	the deposition or provided by the Federal Rules.
9	_X_Federal R&S Not Requested - Reading & Signature was not
10	requested before the completion of the deposition.
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
	Page 188
	Veritevt Legal Solutions

1	RE: HULU, LLC VS. SITO MOBILE	R&D IP,	LLC
2	MICHAEL ADAMS, JOB NO. 4833181	-	
3	ERRATA	SHEE	L T
4	PAGE LINE CHANGE		
5			
6	REASON		
7	PAGE LINE CHANGE		
8			
9	REASON		
10	PAGE LINE CHANGE		
11			
12	REASON		
13	PAGE LINE CHANGE		
14			
15	REASON		
16	PAGE LINE CHANGE		
17			
18	REASON		
19	PAGE LINE CHANGE		
20			
21	REASON		
22			
23			
24	WITNESS	Da	ite
25			
			Page 189
			~

[& - 39]

&	11451 1:23 2:22	16 4:18 5:11	2004/0015703 5:9
& 3:4,11 6:24	186:25	153:14 170:23,25	94:1
187:23 188:9	118 69:16 70:12	166 107:25 108:1,4	2012 15:21 31:6
	146:8	169 178:12,25	51:7
0	12 5:6 69:5,8	17 4:20 140:25	2013 27:13,22
001 10:15	120 146:8	141:2	2014 51:20 53:7
044 180:9,19 181:7	122 73:14,23	170 5:11	2015 51:21 53:18
181:15 182:11,19	123 78:6,21	171 178:15,16	2021 1:20 2:21 6:1
1	124 79:18	176 181:11,15	6:5 55:11,15
1 1:21,25 2:19 4:4	12:02 92:20	17th 3:6	56:20,24 60:1
4:11 6:6 10:11	12:13 92:23	18 141:1,3 146:23	173:24 185:9
11:21,22 99:4	12:30 92:3	162:11,17 171:6	186:22 187:3,5
105:6 127:9,24	12:45 92:3	175:19	2021-00158 11:24
128:7,15 129:5,21	12:52 112:15	189 1:25	15:20 22:24 27:13
129:25 130:10	13 4:17 5:7 85:20	19 150:3 175:20	2021-00206 12:6
131:4 136:22,25	85:22,25 86:2	1979 28:7	23:11
142:20,22,23	135 86:20 87:17	1981 29:21	2021-00219 12:13
143:11,25 144:1,3	137 87:23,25	1988 30:1	24:1
151:20 153:4	138 88:4,25	1993 30:7 33:7,10	2025.520 187:9,12
154:21 165:13	139 88:8,10	40:1	21 187:3
167:16 178:19	14 5:8 93:22,25	1995 40:2	22 4:21,22,23
179:7 180:14,16	125:5,14,15	1996 30:23 33:7	221 160:22
181:5 188:1	140 88:15	1997 63:4	22182 3:14
10 4:11,13,15,24	141 91:5,12	1999 108:6,9,14	22553 10:3
27:3,6,9,12 33:15	144 88:16	1:33 112:18	27 4:24 66:4
51:25 52:4 53:11	15 1:20 2:21 5:10	2	275 153:14
68:18 92:6,8	6:1,5 94:9,12 98:1	2 4:13 10:16 12:3	28 66:16
134:17 139:19	105:17 107:23	12:4 41:1 42:8	29 66:4
150:8 184:3	108:8,16 110:12	43:7 99:5 105:7	3
100 30:15	110:12 118:24	20 91:20,22 173:23	3 4:15 10:17 12:11
1001 22:24 23:11	119:24 125:16	175:22,22 186:22	56:24 62:2,8 86:2
24:1	144:14 147:22	200 155:18	86:10 87:20 99:5
1006 85:25	187:5	2000 45:14,16 48:2	105:8 160:3 171:5
1007 94:2	150 3:13	2000s 121:23	30 28:14 142:6
1017 99:15	151 95:11,13,18,21	2001 48:17 114:4	162:17 188:1
10:32 52:18	152 96:9,10	115:6 116:17	34 141:10
10:45 52:21	153 96:10 155 96:21	119:18 120:2,17	35 113:22
11 5:4 60:9,14	155 96:21 157 105:6	122:13	36 113:21
113:5 150:8 151:7	157 105:6 158 106:14,23	2003 30:17 33:10	38 114:20 115:3
151:9 161:21	130 100.14,23	33:14 50:13 51:4	39 131:22 168:14
179:14			

HULU EXHIBIT 1081 Page 190 of 227

3:21 168:2	6	7	9,135,636 1:13,15
3:33 168:5	6 4:20 16:1 17:21	7 4:6,21 22:8,11,15	2:13,15 4:22 12:7
3rd 56:20	18:3 58:21	22:17,21,23	12:14 23:6
4	6,385,596 5:7	102:23 103:3	90 98:10
4 4:17 13:24 14:2	6,389,467 5:6	149:15	90s 113:17 114:3
14:7 15:1,25	68:24	70 130:6,20	92660 3:7
58:14,19 100:10	60 5:4	72 178:9	93 5:8 34:4 131:22
105:18,19 108:6,9	61 91:18	73 134:4 135:13	94 5:10 169:15
108:18,25 109:3,3	610 3:6	166:5	170:5 173:14
146:17,23 147:4	63 127:18 145:25	74 136:16,16 137:9	949 3:8
147:17 150:2	146:1,5	137:10 138:1	95 34:4 175:8
151:1,23 174:1	635 16:22 18:8,10	166:5	96 175:13
40 28:14 115:5	18:12,21 21:24	75 138:9,17	97 175:8
116:6	23:21 84:5 111:18	76 136:12,16 137:9	99 176:13
41 121:10 175:7	636 16:15,17,19	139:16 181:11,19	9:05 2:20 6:2,5
42 121:10	17:4,14 21:24	77 139:7 181:13	а
45 92:12	23:7 84:5 86:1	78 96:16	a.m. 2:20 6:2,5
46 123:13,14,19	93:9 111:18	8	52:18,21
150:11,19,21	637 14:17 74:19		a1 5:9
47 121:10 124:7,13	64 35:9	8 4:22 22:8,12	ability 8:16 36:11
48 127:8 150:11	66 98:8	23:2,10 102:23	42:19 44:21 99:20
4833181 1:24	6637 186:23	103:4,15,19,23 104:4	123:14 124:9
187:5 189:2	67 98:9 99:2	80 140:8 142:3	126:17,19
49 68:18 160:5	127:14	81 98:8 166:21	able 8:9 37:23
4:05 184:7	673 14:10,18,19,22	81 98.8 100.21 81201 10:4	71:10,13,20 72:15
4:15 2:21 184:10	15:1,3,8,11,15,20	82 140:9 142:3	85:7 110:10 121:5
184:17,18	19:24 21:21 22:21	823-6937 3:8	125:1 183:1
4th 108:13	56:19,22 58:12	823-0937 5.8 85 5:7	absolutely 175:19
5	60:10 66:3 70:12	8618 3:13	accept 154:13
5 4:18 16:1,6,12	72:19 76:20 84:16	887 26:7	183:1
58:20 86:5 131:21	85:25 87:12 94:17	9	accepted 67:11,20
160:7	123:21,24 124:1	-	access 72:4 95:25
50 163:4	124:17,19 125:3	9 4:23 22:8,13	135:11
50 105.4 51 78:7	126:6,20 127:7,10	23:15 134:16	accessible 135:5
51 78:8	127:20 128:6	145:25 146:4	135:23,25
539 132:8	140:9,24 142:16	171:3 174:4,5	accessing 107:12
55 161:22	144:19 145:19,25	9,026,673 1:11	accurate 15:3
57 144:16,21	160:1 161:1 171:1	2:11 4:21 5:5,12	16:19 18:13 108:8
146:12	179:7	11:24 22:19	185:6
	69 5:6	9,135,635 4:20,23	accurately 15:13
		23:20	17:3 19:1

HULU EXHIBIT 1081 Page 191 of 227 [achieved - applications]

achieved 117:13	add 149:13	advertisements	analog 42:3
acknowledging	added 44:24	37:1 137:19 138:2	analysis 169:24
106:15	addition 24:16	advertising 37:4,6	angle 102:18
acquired 31:1	25:23 39:4 45:1	affirmative 22:1	angled 102:17
acrobat 87:2	50:2	agent 29:5,10	103:20,21,23
act 29:1	additional 13:23	agents 63:22	105:11 106:3
action 57:11	19:15 22:4 25:25	ago 44:12 56:14	answer 9:4,8,10
186:18,19	35:3 39:3,14 52:3	61:19	9:23 17:9 31:14
activate 95:19	66:23 96:11	agree 6:14 19:9	44:8 71:24 111:25
activates 95:23	137:18 138:1	20:1,25 89:10	130:10 143:24
active 101:1,5,14	152:12 153:17	112:6 123:18	157:24 177:17,25
101:15,25	183:12	129:13 142:14	answers 8:25 84:6
actively 55:14	additionally	149:21 152:13	84:9 93:11 111:19
acts 120:8	141:11	163:25 164:2	anticipate 83:17
actual 137:22	address 10:2,6,7	169:7 171:20	anyway 87:11
ad 99:19,21,23	68:24	agreed 156:18	apart 75:25
100:13,17,19	addressed 66:7	agrees 171:24	apologize 87:1
101:4 102:14	addressing 88:17	ahead 11:19 13:22	133:2 146:4
103:6 109:10,13	administered 7:6	52:15 60:5 83:9	170:18
109:25 110:4	186:8	85:1 91:15 93:15	appeal 1:3 2:3
adams 1:18 2:19	administrator	112:8,9 113:3	56:1
4:4,9,11,13,15,17	82:10	119:20 149:9	appear 8:8 98:1
4:18,20,24 5:2 6:7	adopt 172:2	167:21	104:11 133:23
7:5,11,15,19 10:1	adopted 168:24	allow 38:12 39:6	appearance 6:21
11:23 12:5,13	170:7,11 172:15	43:25 45:4 71:14	appearances 3:1
14:8 15:23 17:10	173:13,17 174:10	71:15,19 77:20	appearing 11:25
17:23 22:7 27:24	175:10,15 176:22	99:7 143:16	12:8,15 187:18
52:23 55:6 56:10	ads 100:2	allowed 39:22	188:7
70:2 83:12 91:25	advantage 118:21	51:5 73:4 116:24	appears 14:9
92:25 93:24	advantages 118:19	allows 95:5	16:14 27:10
112:20 119:14	advert.asf 101:22	alongside 50:20	appended 96:11
123:4 144:9	advert.asf. 101:21	alternate 125:23	apple 74:2 76:21
167:24 168:7,12	102:7	alternative 105:14	76:25 77:9,13,21
183:7 185:3,17	advertised 77:22	142:5,11 143:12	77:23,24
187:5 189:2	advertisement	143:15,19	applicable 91:6
adapt 124:11	47:18 100:6,11	alternatives 106:5	application 5:8
adaptation 34:14	109:16 111:4	altogether 7:22	93:25 114:6,7,10
adapted 35:9	150:10,13,23	amazon 49:19	119:10 182:11,15
38:23	162:21 163:2	ambiguous 17:20	182:19
adaptive 124:15	164:23	amount 10:23	applications 29:12
		118:6	33:18 113:25

Page 3

HULU EXHIBIT 1081 Page 192 of 227

178:4	article 5:10 157:17	assist 99:21	august 56:20,24
applied 41:15 49:7	157:21,25	associate 47:12	authenticated
135:14 170:4,8	artist 81:5,7,9	associated 32:19	72:4
176:2,21	asf 98:23,25	61:15 138:14	authentication
applies 153:6	100:22 101:16	assume 8:20 132:2	71:2 90:6
apply 20:1 21:1	109:23 110:11,18	138:10 170:16	author 81:5
49:5 142:23	110:19 111:1	assuming 72:2	102:13
143:25 154:19	aside 71:4 91:16	111:7 157:23	authored 51:25
155:16,18 170:1,1	107:3 129:18	asx 5:10 93:18	52:3
170:6 172:14,15	152:9	94:12,19 95:1,3,4	authorized 135:11
173:17 175:2	asked 14:11 57:7	95:5,8 96:25 97:4	automatically
176:4,12,22	84:11 130:6	97:7,8,12,15,20	100:22 101:16
applying 174:10	183:14	98:7,11,15 99:1,6	availability 135:8
appreciate 44:12	asking 71:25	99:16,20,24 100:2	135:21 136:2
appreciated 85:4	117:6 143:10	100:17 101:2,6	available 69:19
appropriate 78:3	152:18 154:13	102:10,24,25	70:15,19 71:1
approximately	155:10,19,25	104:19 105:6	72:24 73:10 90:13
7:21 25:10 30:20	asp 101:25	106:16 107:4,7,21	90:15,18 91:12
31:1 34:1,3 45:15	aspect 44:20 88:17	107:24 108:2,4,12	108:13 114:8
53:8,9,11,14 56:25	88:22 89:11	109:13,23 111:3	134:14,16,19,25
67:23	124:16 145:7,8,9	111:17	160:11 173:20
april 173:23	aspects 28:15 41:9	atari 38:17	aware 26:5 49:17
arbitrary 156:7	41:20,24 71:5	atm 30:6 33:3 35:2	54:13,16 62:4
architect 40:2	86:13 88:6 95:16	35:8,9,10 36:7	75:6 115:22,25
architecture 34:13	123:8 145:5	38:24	117:10 119:22
34:18 44:16	181:17	attempts 44:13	126:5 176:25
archive.org 108:6	asps 100:21,22	attended 28:14,16	awfully 158:20
area 87:17	101:16	attending 6:11	b
arm 30:2	assembled 35:11	attention 140:23	b 113:8 157:21
arrangement 73:8	asserted 177:11	145:24	188:1
arrow 119:11,13	asserts 171:17	attorney 6:22 9:3	b1 5:6,7
art 20:21 57:9	asset 43:3 75:4,25	9:5 29:11,14 53:1	b2 4:21,22,23 5:12
66:10 67:24 68:7	77:22,24 79:2,8,13	186:18	22:19 23:6,20
68:11,17,21,23	98:25 114:7 115:9	attorneys 57:13,13	bachelor 28:6,8
74:22 83:14 92:11	119:7 159:11	65:17	66:21 67:14
97:8,17 105:1	assets 38:11 74:9	attributes 139:18	bachelor's 29:16
110:9 111:12	75:3,20 76:10,14	audio 6:15 35:1,12	back 8:16 10:22
112:3 121:17,19	76:15 78:2 79:1,5	40:20 86:15	24:18 34:6 36:14
122:11,15 140:12	79:14 99:3 159:12	132:11 133:21,23	37:13,18,24,25
158:13,24 159:8	159:17	133:24	43:1,9,19 45:5
174:18 177:10			47:17 52:20,23

HULU EXHIBIT 1081 Page 193 of 227

[back -]	break]
-----------	--------

56:23 65:1,4	107:11 114:5	17:8,18,22 18:16	41:15 45:19 59:15
69:25 78:20 79:10	171:15 174:11	19:5 20:13 21:9	68:16 77:1 78:20
81:8,24 85:11	175:11	22:14 27:4 36:23	79:25 81:13
86:19 87:4,6,21	basis 17:19 21:8	39:15 40:15 42:23	101:20 105:25
90:21 92:2,10,22	173:15	44:9 47:15 48:24	106:19 108:17
92:25 93:7 98:5	beach 3:7	51:22 52:10,15,22	114:2 140:11,14
102:23 104:18	bear 10:9 111:11	55:2,9,10 60:15	142:1 145:12
105:17 107:23	150:6 170:19	68:4 69:6 70:4,11	149:13 175:6
108:1 109:17,22	beginning 2:20 6:6	71:16 72:17 73:12	bitrate 124:15
112:17,20 113:17	6:22 26:2 44:2	78:4 82:14 84:20	bmberg 3:9 187:2
114:11 115:18	45:5 49:21 60:1	85:21 89:9 91:3	board 1:3 2:3 56:1
116:8 117:1,13,18	70:1 78:21	92:16,24 93:23	168:24 170:7,11
119:22 120:14	behalf 2:19 13:2	94:10 99:11	171:11 172:2,16
122:13 126:18,24	behavior 143:20	101:12 107:15	173:17 175:15
129:10 130:4	believe 7:25 8:12	109:9 110:6,22	177:7
131:20 136:15,15	8:22 15:5,21	111:10 112:2,8,19	board's 170:13
137:8 138:20,22	16:20 18:19 19:4	114:19 115:19	174:10 176:22
139:1 140:13	19:12,21 24:8	116:5 117:7	book 29:1,2 44:14
142:19 144:25	33:5 34:3 39:11	118:23 120:11	44:15
147:17,18 150:2	39:13,24 48:2	128:8 130:3,19	bottom 58:19
151:1 156:5	53:5,11,18 54:4	131:13 135:1	100:20 103:3,15
160:16 164:9	55:19 56:13 57:24	137:23 138:8,23	103:22 105:19
168:4,7 172:12	58:12 59:6 65:17	143:22 145:23	130:20 181:11,19
173:6,8 174:8	68:5 73:24 76:11	149:8 153:2 154:1	box 34:25 35:3,10
175:17 179:8	79:16 81:2,10,15	156:15,23 157:10	35:22 36:2,4,8
184:9	89:17 93:5,13	158:11 159:13	37:22 38:18 39:11
background 20:21	94:1,24 100:9	161:17 163:24	42:9 43:8 46:23
27:24 68:10 90:20	101:14 111:16,22	166:19 167:20	47:10
bandwidth 63:23	119:19 138:19	168:6 169:12	boxes 30:9
64:12	146:15 148:4	170:24 172:24	bracket 102:18
base 49:19	154:7,22,22	174:15 177:18	103:21 104:6,22
based 8:6 32:14,15	161:14 162:3	179:22 183:3,25	105:2,12,22 106:4
32:17,20 33:2	164:11 165:18	184:4,13 187:1	brackets 102:17
38:10 41:2 73:7	166:15,17,23	best 9:10 15:4	103:20,23 104:5
78:21 104:24	168:14 169:11	18:12 64:3,9	brad 3:5 6:23
113:15 139:17,22	180:4 182:12	136:8 177:12	167:18 187:1
157:12 176:8	183:9	183:23	brad's 82:1,3
177:1 179:13	bell 30:2	better 48:20 82:16	brain 158:9
basically 33:7	berg 3:5 4:6 6:23	big 127:1	break 9:18,20,24
38:13 39:10 61:13	6:23 7:10 10:12	bit 14:3 31:16 32:7	52:12,25 91:24
78:24 90:12 91:11	10:18 14:1 16:7	34:22 36:5 38:8	92:1,2,6,9,13 93:3

HULU EXHIBIT 1081 Page 194 of 227

[break - citing]

112:4,9,23 116:1	48:8,9,10 49:2,3	120:25 122:23	certify 186:4,17
144:10,13 167:21	49:10 50:25 51:5	125:9,21,21 126:3	cetera 80:10 131:2
167:22,24 168:10	94:19	126:3 132:19	138:15
184:3	cache 121:6,7	134:11 140:17	challenged 121:20
breaking 156:11	caching 120:21	141:20 143:14	122:24
159:23	california 3:7	150:24 154:16	challenging 19:16
breaks 9:19 78:8	186:4	156:17 159:11	chance 9:9 29:5
181:13	call 118:4 126:12	164:6 166:9	change 93:12
briefly 56:13	158:17 159:18	180:12,15 181:6	111:20 120:2
bristol 28:4	called 30:18,23	183:15 186:15	157:24 170:15
broad 71:24 156:1	31:9 42:7 44:15	cases 37:5 48:4	176:8 177:1 189:4
177:15	45:4 47:8 48:6	49:5 53:23 54:9	189:7,10,13,16,19
broadband 48:13	58:14 61:12 82:1	54:19 55:11,18	changed 122:3
broadcast 41:8,20	94:12 103:2,4	59:24 62:12 76:5	183:17
41:24 42:6 44:20	120:13 124:1	117:24	changes 15:10
45:5,7,24 46:10,12	171:7	catch 86:7 93:16	16:25 18:24 158:7
46:14 47:6	calling 91:5	135:17	181:1
broadcasted 41:11	capabilities 46:4	categories 80:5,6	channel 41:24
broken 145:14,18	75:8 95:6 124:21	category 80:2,7,23	characterization
152:12 153:13,14	139:18	80:24 81:1,14	64:19 73:22 79:15
153:16 155:17	capability 140:4	cbm 26:6 58:8	95:20 123:18
160:2	capacity 30:25	61:10,11	124:12
brought 19:16	135:5,22	сср 187:9,12	characterize
50:23	captured 108:5	ccrr 1:23 186:25	151:24
browser 8:13	career 31:14 53:13	cdm 120:7,8	characterized
buffer 118:4,5,6,7	carefully 89:3	cellular 6:14	79:17
118:12,13,20,20	carmichael 25:8	center 3:6,13	charkow 65:14
buffered 117:22	58:2	certain 10:22	charter 50:19,24
buffers 63:23	carried 35:12	26:20 63:23 76:7	check 77:5 91:10
build 118:19	case 1:10,12,14	106:18 121:15	103:8 135:8 183:4
building 97:19	2:10,12,14 11:23	certainly 9:18	checked 24:19
built 80:18 81:16	12:6,13 13:3	62:9 64:5 65:9	91:21
94:25 139:15	14:22 22:2 37:4	68:13 74:16 77:5	checking 21:25
buy 38:13	37:10 53:15 55:13	97:15 110:2	135:8
с	55:17 58:25 59:10	119:22 142:15	chosen 136:4
c 113:8	59:17 61:10 67:1	149:16 163:19	circle 104:3
ca 187:9,12,20	70:24 73:11 74:20	164:17 166:3	citations 113:14
cable 30:8,12,13	81:15,17 82:25	certificates 71:3	cite 130:23 134:16
31:8 33:5,8,9,16	88:12 103:19,22	certification 186:1	cited 57:9 105:9
33:25 34:2 35:3,8	106:3 107:2 118:4	certified 2:22	citing 79:25
40:3,12 42:2,3	119:7 120:14,24	186:3	131:21

Page 6

HULU EXHIBIT 1081 Page 195 of 227

$\begin{array}{c} {\bf civil} 187:19,20\\ {\bf claim} 20:17\ 21:6\\ 24:10,21\ 61:21\\ 127:9,24\ 128:7,15\\ 129:5,21,25\\ 133:9,11\ 141:19\\ 130:10\ 131:4\\ 142:9,12\ 147:5,6\\ 136:22,23\ 143:11,24\ 144:1,3\\ 160:6\ 162:12,21\\ 143:11,24\ 144:1,3\\ 160:6\ 162:12,21\\ 143:11,24\ 144:1,3\\ 160:6\ 162:12,21\\ 143:11,24\ 144:1,3\\ 160:6\ 162:12,21\\ 143:11,24\ 144:1,3\\ 160:6\ 162:12,21\\ 143:11,24\ 144:1,3\\ 160:6\ 162:12,21\\ 140:8\\ {\bf commercial}\ 113:9\\ 116:17\ 121:11,25\\ 155:1\ 157:12\\ 135:5,7,9,20\\ 156:1\ 157:12\\ 135:5,7,9,20\\ 156:1\ 157:12\\ 137:18\ 141:21,25\\ 166:10\\ 168:13,20\ 169:6\\ 143:3,13,17\\ 164:9,15\ 165:1,2\\ 174:23\ 178:2,19\\ 164:7,7\ 167:2\\ 179:14\ 180:14,16\\ {\bf close}\ 12:20\ 105:12\\ 114:22\ 124:14\\ 181:5\\ 105:21\ 106:3\\ 132:20\\ 179:14\ 180:14,16\\ {\bf close}\ 12:20\ 105:12\\ 114:22\ 124:14\\ 181:5\\ 105:21\ 106:3\\ 132:20\\ 179:15,16\\ {\bf closef\ 12:20\ 105:12\\ 179:21\ 128:1,26\\ 133:19\\ {\bf closef\ 72:1\ 105:21\\ 133:20\\ 133:20\\ 133:19\\ {\bf closef\ 72:1\ 105:21\\ 133:20\\ 133:20\\ 133:20\\ 133:20\\ 133:20\\ 133:20\\ 133:20\\ 144:6\ 169:18\\ 70:14\\ 128:6\ 134:8\\ 187:20\ 129:21\ 33:16,10\\ 133:20\\ 133:20\\ 133:20\\ 133:21\ 131:10\ 140:19\\ 128:6\ 134:8\\ 187:20\ 129:21\ 313:16\ 133:22\\ 144:5\ 169:18\\ 70:14\\ 133:20\\ 154:6\ 133:12\\ 134:21\ 134:16\\ 133:20\ 155:20\\ 135:23\ 136:15,9\\ 135:23\ 136:15,9\\ 135:23\ 136:15,9\\ 135:23\ 136:15,9\\ 135:23\ 136:15,9\\ 135:23\ 136:15,9\\ 135:23\ 136:15,9\\ 135:23\ 136:15,9\\ 135:23\ 136:15,9\\ 135:23\ 136:15,9\\ 144:21\ 200\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 154:6\\ 159:20\\ 159:20\\ 154:6\\ 159:20\\ 159:20\\ 154:6\\ 159:20\\ 159:20\\ 159:20\\ 159:20\\ 159:20\\ 159:20\\ 159:20\\ 159:20\\ 159:20\\ 159:20\\ 159:20$	city 185:11	clicking 10:23	combined 148:18	completed 187:7
$\begin{array}{c claim 20:17 21:6\\24:10,21 61:21\\24:10,21 61:21\\127:9,24 128:7,15\\129:5,21,25\\139:11 141:19\\130:10 131:4\\142:20,22,23\\150:15,23,25\\143:11,24 144:1,3\\160:6 162:12,21\\143:11,24 144:1,3\\160:6 162:12,21\\143:11,24 144:1,3\\160:6 162:12,21\\143:11,24 144:1,3\\160:6 162:12,21\\143:11,24 144:1,3\\160:6 162:12,21\\143:11,24 144:1,3\\160:6 162:12,21\\143:11,24 144:1,3\\160:6 162:12,21\\143:11,24 144:1,3\\160:6 162:12,21\\143:11,24 144:1,3\\160:6 162:12,21\\143:11,24 144:1,3\\160:6 162:12,21\\116:17 121:11,25\\175:12 0 153:4\\165:13 167:15\\137:18 141:21,25\\166:10\\168:13,20 169:6\\143:3,13,17\\168:13,20 169:6\\143:3,13,17\\171:8,10,21\\177:8;19,21 179:7\\168:7,106:3\\167:12 2178:17\\178:19,21 179:7\\164:7,7 167:2\\179:14 180:14,16\\105:21 106:3\\132:20\\179:15,16\\138:20 155:20\\161:138:20\\179:15,16\\138:20 155:20\\161:138:20\\155:20\\161:138:20\\155:20\\161:138:20\\155:20\\161:138:20\\155:20\\161:10:43:7\\139:19 144:6\\169:18\\20:7,10 84:15,16\\138:20 155:20\\161:10:43:7\\179:21233 16:1,59\\131:10 140:19\\179:2123 178:18\\179:25 180:3\\131:10 140:19\\179:213 178:18\\179:25 180:3\\136:1,59\\135:21 136:1,59\\135:21 136:1,59\\135:21 136:1,59\\135:21 136:1,59\\135:21 136:1,59\\135:23 136:1,59\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\148:21\\159:20\\159:2$	v			-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			come 67:6 92:2,9	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	24:10,21 61:21	clients 31:8	,	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		clip 132:3,4,22,23		-
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			comes 59:7 133:11	_
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			comfort 92:2	component 73:18
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	136:22,25 142:20	147:19 150:10,13	comfortable 21:25	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	142:20,22,23	150:15,23,25	coming 52:11	101:2
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	143:11,24 144:1,3	160:6 162:12,21	140:8	components
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	151:7,9,20 153:4	163:1 164:22	commercial 113:9	179:14
$156:1\ 157:12$ $133:5,7,9,20$ common $62:14$ $42:9\ 43:12,20$ $165:13\ 167:15$ $137:18\ 141:21,25$ $67:8\ 162:9,10$ $compression$ $168:13,20\ 169:6$ $143:3,13,17$ $164:9,15\ 165:1,2$ $34:13\ 54:23$ $171:8,10,21$ $147:11,14\ 160:5$ $166:10$ $compression$ $174:23\ 178:2,19$ $163:6,10,11,17$ $commony\ 66:10$ $66:22\ 119:1$ $178:19,21\ 179:7$ $164:7,7\ 167:2$ $67:11,20\ 71:6$ $66:22\ 119:1$ $178:19,21\ 179:7$ $164:7,7\ 167:2$ $67:11,20\ 71:6$ $conputs\ 29:25$ $179:14\ 180:14,16$ $close\ 12:20\ 105:12$ $114:22\ 124:14$ $144:5$ $181:5$ $105:21\ 106:3$ $132:20$ $conduct\ 26:23$ $chimed\ 33:19$ $closed\ 72:1\ 105:21$ $conduct\ 26:23$ $conduct\ 26:23$ $chims\ 19:13,16$ $closes\ 120:23$ $144:6\ 169:18$ $configure\ 69:18$ $20:7,10\ 84:15,16$ $code\ 187:9,12,19$ $172:21,23\ 178:18$ $70:14$ $128:6\ 134:8$ $187:20$ $29:23\ 30:4,10$ $confirm\ 91:6$ $138:20\ 155:20$ $code\ 76:16$ $communications$ $confirm\ 91:6$ $clarify\ 14:20$ $6:1\ 10:4\ 30:7$ $50:19,24\ 135:6,10$ $confuse\ 33:12$ $clause\ 135:13$ $131:21\ 134:16$ $50:25\ 51:10,14$ $148:21$ $clause\ 135:13$ $139:19\ 140:25$ $company\ 29:19$ $confuse\ 43:5$ $clause\ 135:13$ $139:19\ 140:25$ $company\ 29:19$ $connecte\ 43:5$ $clause\ 135:13$ $150:2,3,19\ 151:1$ $company\ 29:19$ $connecte\ 43:5$ <td< td=""><td>154:18,20,21</td><td>clips 130:21 131:1</td><td>116:17 121:11,25</td><td>compressed 35:1</td></td<>	154:18,20,21	clips 130:21 131:1	116:17 121:11,25	compressed 35:1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	155:3,10,16,18	131:18,24 132:10	122:8,17,19 123:7	35:12 36:7 40:20
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	156:1 157:12	133:5,7,9,20	common 62:14	42:9 43:12,20
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	165:13 167:15	137:18 141:21,25	67:8 162:9,10	compression
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	168:13,20 169:6	143:3,13,17	164:9,15 165:1,2	34:13 54:23
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	171:8,10,21	147:11,14 160:5	166:10	computer 66:21
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		163:6,10,11,17	commonly 66:10	66:22 119:1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	178:19,21 179:7	164:7,7 167:2	67:11,20 71:6	computing 29:25
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	179:14 180:14,16	close 12:20 105:12	114:22 124:14	144:5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	181:5	105:21 106:3	132:20	-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
claims19:13,16closest120:23144:6169:18configured69:1820:7,1084:15,16code187:9,12,19172:21,23178:1870:14128:6134:8187:20179:25180:3confirm91:6138:20155:20codec76:16communicationsconflating153:22161:1181:5colorado1:192:2029:2330:4,10154:6clarify14:206:110:430:750:19,24135:6,10confused33:12classes28:23,25column86:2,5,10135:23136:1,5,9148:21confusing14:23classic80:1087:20125:5,14,15companies31:8confusing14:23clause135:13131:21134:1650:2551:10,14159:20connected43:5clean17:12183:6139:19140:25company29:19connected43:5clear9:1390:7145:25146:4,1730:18,23,2531:9connected43:5126:2132:5167:3146:23147:4,1732:254:2217:419:1527:17167:14170:6,13150:2,3,19151:1complete9:1063:14,24,25173:8151:23160:3,7complete9:1063:14,24,25				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
128:6 134:8187:20179:25 180:3confirm 91:6138:20 155:20codec 76:16communicationsconflating 153:22161:1 181:5colorado 1:19 2:2029:23 30:4,10154:6clarify 14:206:1 10:4 30:750:19,24 135:6,10154:6classes 28:23,25column 86:2,5,10135:23 136:1,5,9148:21classe 135:1387:20 125:5,14,15companies 31:8confusing 14:23clause 135:13131:21 134:1650:25 51:10,14159:20clean 17:12 183:6139:19 140:25company 29:19connected 43:5clear 9:13 90:7145:25 146:4,1730:18,23,25 31:9connection 15:14126:2 132:5 167:3146:23 147:4,1732:2 54:2217:4 19:15 27:17167:14 170:6,13150:2,3,19 151:1competent 177:2458:25 62:22,23173:8151:23 160:3,7complete 9:1063:14,24,25				U
138:20 155:20 161:1 181:5codec 76:16 colorado 1:19 2:20communications 29:23 30:4,10conflating 153:22clarify 14:20 classes 28:23,256:1 10:4 30:7 column 86:2,5,1050:19,24 135:6,10 135:23 136:1,5,9154:6 confused 33:12classic 80:10 clause 135:1387:20 125:5,14,15 131:21 134:16companies 31:8 50:25 51:10,14confusing 14:23 159:20clean 17:12 183:6 126:2 132:5 167:3139:19 140:25 145:25 146:4,17company 29:19 30:18,23,25 31:9connected 43:5 connected 43:5clear 9:13 90:7 167:14 170:6,13 173:8146:23 147:4,17 150:2,3,19 151:130:18,23,25 31:9 30:18,23,25 31:9connection 15:14 58:25 62:22,23 63:14,24,25		, ,		
161:1 181:5colorado1:19 2:2029:23 30:4,10154:6clarify14:206:1 10:4 30:750:19,24 135:6,10154:6classes28:23,25column86:2,5,10135:23 136:1,5,9148:21classic80:1087:20 125:5,14,15companies31:8confusing14:23clause135:13131:21 134:1650:25 51:10,14159:20clean17:12 183:6139:19 140:25company29:19connected43:5clear9:13 90:7145:25 146:4,1730:18,23,25 31:9connection15:14126:2 132:5 167:3146:23 147:4,1732:2 54:2217:4 19:15 27:17167:14 170:6,13150:2,3,19 151:1competent177:2458:25 62:22,23173:8151:23 160:3,7complete9:1063:14,24,25				
clarify14:206:1 10:4 30:750:19,24 135:6,10confused33:12classes28:23,25column86:2,5,10135:23 136:1,5,9148:21classic80:1087:20 125:5,14,15companies31:8148:21clause135:13131:21 134:1650:25 51:10,14confusing14:23clean17:12 183:6139:19 140:25company29:19connected43:5clear9:13 90:7145:25 146:4,1730:18,23,25 31:9connected43:5126:2 132:5 167:3146:23 147:4,1732:2 54:2217:4 19:15 27:17167:14 170:6,13150:2,3,19 151:1competent177:2458:25 62:22,23173:8151:23 160:3,7complete9:1063:14,24,25				e
classes28:23,25column86:2,5,10135:23136:1,5,9148:21classic80:1087:20125:5,14,15companies31:8confusing14:23clause135:13131:21134:1650:2551:10,14confusing14:23clean17:12183:6139:19140:25company29:19connected43:5clear9:1390:7145:25146:4,1730:18,23,2531:9connected43:5126:2132:5167:3146:23147:4,1732:254:22connection15:14167:14170:6,13150:2,3,19151:1competent177:2458:2562:22,23173:8151:23160:3,7complete9:1063:14,24,25			,	
classic80:1087:20 125:5,14,15companies31:8confusing14:23clause135:13131:21 134:1650:25 51:10,14159:20clean17:12 183:6139:19 140:25company29:19connected43:5clear9:13 90:7145:25 146:4,1730:18,23,25 31:9connection15:14126:2 132:5 167:3146:23 147:4,1732:2 54:2217:4 19:15 27:17167:14 170:6,13150:2,3,19 151:1competent177:2458:25 62:22,23173:8151:23 160:3,7complete9:1063:14,24,25				
clause135:13131:21134:1650:2551:10,14159:20clean17:12183:6139:19140:25company29:19connected43:5clear9:1390:7145:25146:4,1730:18,23,2531:9connected43:5126:2132:5167:3146:23147:4,1732:254:2217:419:1527:17167:14170:6,13150:2,3,19151:1complete9:1063:14,24,25173:8151:23160:3,7complete9:1063:14,24,25				
clean17:12183:6139:19140:25company29:19connected43:5clear9:1390:7145:25146:4,1730:18,23,2531:9connection15:14126:2132:5167:3146:23147:4,1732:254:2217:419:1527:17167:14170:6,13150:2,3,19151:1competent177:2458:2562:22,23173:8151:23160:3,7complete9:1063:14,24,25			-	0
clear9:1390:7145:25146:4,1730:18,23,2531:9connection15:14126:2132:5167:3146:23147:4,1732:254:2217:419:1527:17167:14170:6,13150:2,3,19151:1competent177:2458:2562:22,23173:8151:23160:3,7complete9:1063:14,24,25				
126:2 132:5 167:3146:23 147:4,1732:2 54:2217:4 19:15 27:17167:14 170:6,13150:2,3,19 151:1competent 177:2458:25 62:22,23173:8151:23 160:3,7complete 9:1063:14,24,25				
167:14 170:6,13150:2,3,19 151:1competent177:2458:25 62:22,23173:8151:23 160:3,7complete9:1063:14,24,25		· · · · · · · · · · · · · · · · · · ·		
173:8 151:23 160:3,7 complete 9:10 63:14,24,25		,		
			-	,
		,	-	
	clearly 103:25	161:21 162:11,17	18:17 51:24 52:8	183:15
			104:3 145:3	consider 64:5 65:6
163:14 166:25 148:2 149:5 162:9	163:14 166:25	148:2 149:5		162:9

HULU EXHIBIT 1081 Page 196 of 227

[consideration - counsel]

consideration	106:16,24 143:13	154:20 155:21	50:16 53:7 58:3
77:12	163:5	156:14 158:5,13	59:1,2 60:3 77:23
considered 15:7	contained 98:22	158:24 165:13	80:10 82:6,19
16:22 18:21 58:15	107:7 108:12	170:2,4 172:13	88:2,6,11,18,19
59:3 122:12 171:4	163:10 183:21	170:2,4 172:13	89:16,20 90:4,9
174:3	185:5	continue 6:16 85:8	96:4,5,7,8,13,14
considering 20:10	containing 43:7	162:8	96:19,20,25 97:5
90:5	169:17 172:21	continued 28:17	97:13 98:23 99:3
consistent 166:24	contains 148:14	30:10 31:10 50:24	102:11 103:14
167:10 171:21	154:8	continuing 163:3	102.11 103.14
console 38:17	content 71:13,17	contributed 57:21	104.0 105.11,24
construction	71:18,20 90:12,18	57:25	114:14 115:12
		control 29:19	114.14 113.12
61:22 168:13,17	100:23 101:8,17		122:4 123:20
168:23,25 169:2 169:19,25 170:5,7	118:22 119:15,17 119:25 120:4,6,20	31:21 36:11 37:23 38:19 43:18 88:24	122:4 125:20
, , ,	, ,		
170:8,10 171:8,11	120:21,25 121:1	116:11,25 140:12	128:7 129:2,3,9
171:18,19,25	124:20 140:21	140:18 145:1,8	132:25 134:10
172:3 173:2,5,15	151:14,17 159:10	controlled 116:7	135:11 136:22,23
173:17 175:2,25	contents 74:11	116:18	138:4 139:22
176:1,5,8,12,15,23	context 20:6 21:6	controller 38:19	142:4 144:2 145:3
177:6,12,22	21:14 38:21 42:10	controlling 72:13	151:15 153:24
178:17,21	42:18 46:6,10	117:5	157:15 159:15
constructions	47:17 51:10,16	controls 140:10,15	162:22 165:3
169:4,7,8 170:14	53:7 56:18 70:18	conventional 42:2 conversation 84:2	166:7,22 168:19
170:17 172:14,15	72:18,20,25 74:18		169:8,11,19 170:9
174:10,21 177:2	77:8 79:11 82:17	conversations	172:23,25 175:16
178:3	83:5 84:7 89:15	6:13 65:6,9,12,19	176:2,3,17 178:22
construed 171:18	89:16,20,25 90:4,9	65:22,25 93:2	178:23 179:5 181:19
172:9,20 177:7	90:23,24 91:7,9	cooperate 64:22	
consultant 13:2,13	93:11 94:21 99:15	copy 58:4	corrected 185:6
13:16 31:12 50:18	101:5 103:6	core 35:7	corrections 15:10
50:20 51:7,9	108:16,21 111:20	corporate 47:23	16:25 18:24
consulting 31:9	114:6 116:10	48:13	187:14,15 188:3,4
50:15,16 51:1,3,10	119:23 122:13	corporation 29:22	corresponded
51:11,13,16,16	127:9,24 129:4	correct 8:10,11	46:14 82:5
53:6	130:10 132:22	9:6 13:4 14:18	correspondence
cont 5:1	134:8,20 137:25	19:7,10,17 24:7	47:10
contact 187:9	141:12 147:3,21	29:8 33:8,19	corresponding
contacted 122:23	148:4,10 149:14	34:20,21 38:2,6	15:24
contain 15:6 16:21	150:16 151:7,10	40:3,4,7 43:19	counsel 13:10,11
18:20 51:24 54:2	151:22 153:3	47:24,25 48:14,15	17:18 25:2,4,11

Page 8

HULU EXHIBIT 1081 Page 197 of 227

[counsel - depended]

55:2 92:16 93:3	cut 9:8	declaration 4:17	declare 185:3
112:22 168:9	cv 27:16 34:12	4:18,20 14:16	decode 79:9
187:18,21 188:7	38:4 40:6 51:23	15:1,3,11,13,20	decoded 35:13
counsel's 57:13	51:23 52:5 53:3	16:14,17,19 17:3	decryption 71:2
couple 10:9 31:22	53:23	17:15 18:7,10,13	defense 177:21
61:19 73:13,25	d	19:1,23 21:2	define 95:8
86:21 95:14 98:6	d 4:1 113:8	24:19 26:2,6,10,11	defined 107:13
100:1 141:6	daignault 3:11 7:1	26:12,19 53:20	160:19 162:6
144:20 147:18	25:2,5 57:23	54:2,7 56:19,20,22	defines 102:18
164:16 178:11	65:16	58:8,12 60:24,24	defining 163:14
183:6	daignaultiyer.com	61:6,8,17,25 65:18	definite 157:17,21
course 8:19 48:10	3:15	66:3,8 68:16	157:25
75:23 146:22	data 15:6 16:21	70:12 83:15 85:3	definitely 123:10
court 6:18 9:12	18:20 40:20 41:11	86:20 87:12 88:21	definition 154:3,5
55:21 173:3	41:11 43:19 49:16	89:3,22,24 90:3,7	164:1 175:14
court's 61:21	88:24 90:13	90:22 91:19 93:9	definitions 66:17
169:2	113:24 161:24	93:11 95:11 98:5	67:7,8,9,11,19
cover 91:24,25	date 52:7 121:16	98:6,9,9 99:2	155:15
covered 89:21	121:16,18,21,23	104:18 106:20	degree 28:2,6
covering 12:6,24	121:10,18,21,23	107:25 108:1	29:16 67:2,14,15
19:23 84:10	187:16 188:5	111:18,18 113:4	67:17
covers 11:24	187.10 188.5	118:25 126:21	delivered 28:16
create 100:3	dated 56:20 63:4	127:16 130:4	36:8 40:20 145:21
110:11	173:23 186:22	131:20 134:4	delivering 35:1
creating 149:23	daubert 56:5	136:13 142:3,13	136:9 144:23
criteria 78:22	day 43:24 76:7	144:16 159:22	delivers 145:19
critical 14:15	121:11,25 122:4,6	160:17,21 166:5	delivery 86:23
criticized 56:7	121:11,25 122:4,0	168:13,21 169:25	88:1 118:22
csr 1:23 186:25	122.8,10,18 123.0	171:5 172:13	119:15,17,25
curious 121:24	185:9	173:1,9,12 174:2	120:4,6,20 121:1
132:1 133:6	days 61:19	174:17 175:3,5	demand 30:9
134:17 135:24	dealing 122:18	176:5,12 177:10	34:19,24 35:16
181:25	dealt 29:2	185:1	36:10,17,25 37:3
current 32:15	debate 158:3	declarations 15:22	37:11 39:1 41:6,9
curriculum 27:10	decision 5:11	19:10,15,23,25	41:19,23 42:6,10
customer 30:21	170:8,20 171:1,7	20:2,19,23,25	42:18,20 45:7,23
38:12	170.8,20 171.1,7 171:20 172:4	21:15,18 25:24	46:6 47:17,19,20
customization	173:18,19,22	55:16 58:5,7 65:5	depend 20:6 71:9
99:7,10,18	175:16 176:1,17	65:8 84:4,7,12	114:16 118:11
customized 172:20	decisions 172:8,16	111:21 183:21	depended 44:4
	uccisions 172.0,10		117:20 177:22

Page 9

HULU EXHIBIT 1081 Page 198 of 227

[depends - distinction]

depends 44:8	157:1	124:8,21,25 128:1	differing 21:6
182:21	describing 38:12	128:22 131:11	115:6
deposed 7:19	64:16 68:17 88:21	135:6,10,23 136:1	digital 29:22 32:1
deposition 1:17	88:21 93:9 103:11	136:6,9 140:19	32:10,18 35:1
2:18 4:11,13,15	124:23 140:4	144:5,6,25 169:18	40:12 42:9 43:3,7
6:7,9 8:21,23 9:17	144:3	172:21,23 178:18	43:12,21 45:24
11:8,12,23 12:1,5	description 4:10	180:1,3	86:16
12:9,12,16,23	5:3 38:3 46:20	dial 49:12	direct 140:23
13:20 24:13,16,24	103:24	differ 20:8	145:24
25:12,21 26:13,23	descriptions 103:1	differed 41:21,22	directing 150:5
53:24 54:10,22	design 67:3	difference 19:13	direction 186:10
55:5 66:12 183:18	designated 161:23	20:18 42:3 124:18	directly 58:1 82:3
184:16 186:14	designator 176:19	181:3	102:3 121:6
187:19,22,24	designed 64:16	differences 20:12	disclosed 108:25
188:8,10	72:7 78:25 79:6	24:9 66:18 98:15	152:10
describe 15:13	89:18 97:12	123:22 174:20	discloses 69:17
17:3 19:1 28:1,12	designing 66:24	177:1	70:13 127:20
29:16 32:7 34:5	detail 128:19	different 8:17	disclosure 70:25
34:11,22 36:4	determination	20:18,23 21:13,14	140:24
38:8 40:16 41:19	121:18 134:15	33:21,23 42:16	disclosures 126:6
45:19 48:3,25	determine 77:18	59:15 66:17 73:19	138:10 150:14
49:7 57:3 63:16	125:10,23,25	73:25 74:7,10,11	discover 63:19
66:18 73:16 81:13	136:8	75:15 86:13 98:7	71:13 72:10 77:21
95:18 99:9,23	determined	99:3 100:1,16	discovered 24:9
101:13 113:4	187:18,22 188:7	101:24 102:12,20	84:15
116:22 120:1	determines 126:7	103:5 104:2 106:6	discovering 75:3
123:6,11,21,24	126:9 134:13	109:12,12 115:23	discuss 89:19,23
132:6 140:14	determining 136:1	116:21 118:1,17	90:2,22 96:9,10
144:18,19 145:12	developed 29:19	122:6 123:17	161:7
152:3 158:19	29:24 30:3,3,18	124:2,5,22 125:1	discussed 84:15
159:4 167:15	34:17	126:1,18 135:12	175:20
described 40:24	developers 49:23	136:25 142:2,13	discusses 78:11
70:17 71:21 72:16	developing 32:19	143:19,20 144:7	89:10 125:5
95:17 106:8 115:2	41:13 66:24	146:20 147:1,9	discussion 108:18
119:4 123:5,8	development 31:5	148:2 149:5,20	108:20 137:9
124:17 136:4	40:12 67:4	153:22 166:13	155:13 178:4
142:2,16,24 144:8	device 40:21 69:21	169:3,7 175:15	discussions 137:8
151:23 180:10	81:18 96:22 107:5	176:15,20	dispute 121:22
182:10	107:16 115:11	differently 182:14	distinction 103:10
describes 66:9	116:18 117:19	182:16,18	103:18
95:4 123:14 125:9	118:14 119:13		

Page 10

HULU EXHIBIT 1081 Page 199 of 227

[distinctions - enumeration]

distinctions	downloaded 38:16	183:1	engineer 33:25
174:19	downloading 70:8	electrical 28:3	34:8 40:1 62:25
distinguish 104:1	86:15	66:22	158:5
161:2	dr 26:16,18 58:10	electronic 28:3	engineering 28:3
distinguished	68:6,9 70:2	39:1 46:13,17,24	30:12,16,20,25
103:17	draft 57:15,18	element 131:5,7	31:4 47:23 48:22
distributed 67:4	113:15	137:11 138:3,7,11	51:14 63:10 66:22
distribution 89:5	drafted 61:17 63:6	138:12,17	66:23 158:9
district 55:21	drafting 57:3,4,14	elements 102:9	engineers 30:15
61:21 169:2 173:2	58:7 61:5,7 65:18	136:25 174:18	england 28:4
document 8:13	drive 3:6,13	elicited 185:7	engiana 20.4 entire 36:19 53:13
11:14 14:6,8	dynamically	embedded 179:17	98:22 115:8,9,14
16:11,13 18:2,4	100:10	180:7 182:2,8	115:21 116:1,13
23:5,17 58:5		embedding 180:7	143:2 155:6
60:17,18,19,21	e	embedding 180.7	160:15,19 161:2
61:3,4,13,14,16,19	e 4:1 187:9,12	137:25 140:24	161:11 163:8,11
61:20,23 62:20	188:1 189:3,3,3	141:17 142:5,7,10	164:19
69:25 70:3,8 94:4	e.g. 144:24 161:2,3	143:12,15	entirely 117:25
94:15 104:15	earlier 20:7 24:5	embodiments	entirety 117:23
180:10	54:21 55:18 58:1	126:5 142:15	123:12 185:5
documentation	58:9,13 59:18	143:19 144:7	entities 123:2
97:22,24 98:2	79:25 109:10		entitled 5:10
104:16,25 108:11	122:6,15 135:20	embracing 155:22	
documents 11:15	140:11 160:8	emerging 49:10 employed 51:5	entrepreneurship 29:1
13:19 25:25 26:3	162:25	65:20	entries 98:17
26:4 58:13,23,24	early 8:14 48:2		100:4
	49:25 121:23	employee 50:23 186:18	
59:3,8 62:4,7 65:1	easier 70:3,6 99:14	enable 131:10	entry 98:16,20,21
65:2 70:6 87:6	126:23		100:5,6,7 101:6
113:14 126:24	easiest 173:11	180:2	102:16,16,19
doing 7:24 31:21	easily 127:2	enables 160:9	103:2,10,11,20
32:2 51:12,15 53:6 63:16 75:2	eat 92:4	enabling 144:24	104:4,5,9,21,23
	education 28:1,9	encoding 110:18	105:2,12,20,21
95:15 97:22	28:17,20	encompass 156:1	106:3,4,5 108:23
104:11 105:13	efficient 84:22	encompassing	109:15,15,16
118:18 144:9	effort 64:10	165:16	179:1
153:22	either 8:12 11:10	encryption 71:2	entryref 101:19
double 10:23	38:15 54:10 68:7	endurance 9:17	102:6,10,15 103:4
doubt 108:7	80:15,20 98:21	engage 76:16	103:11,14,25
download 8:13	104:8 118:14	engine 69:17	104:6,8,12 105:2
70:2,6 124:9	143:25 144:11	70:14 78:20	enumeration
161:19	149:25 182:24		179:13

Page 11

HULU EXHIBIT 1081 Page 200 of 227

[envisioned - fact]

envisioned 144:23	exact 21:13	executed 185:9	experiences
episode 110:8,10	exactly 87:10	exercise 162:8	149:25
110:18	105:25	exhibit 4:11,13,15	expert 13:2,13,16
equipment 29:22	examination 4:3	4:17,18,20,21,22	26:5,6 31:11
30:19 32:2,10,19	7:9	4:23,24 5:4,6,7,8	51:20 53:10,24
equivalent 19:24	examined 7:6	5:10,11 8:8 10:11	54:15 55:12,15,21
67:16 104:14	example 20:20	10:13,15,16,17	55:25 56:3 57:14
105:4 123:5	32:12 36:12 39:5	11:21,22 12:3,4,11	61:25 67:9 68:12
ericsson 31:1,2,3,5	39:17,22 43:22	13:24 14:2,3,7	89:21,23 173:15
51:8	49:20 50:1 62:13	15:1,21,23 16:6,12	experts 65:23
errata 187:14,16	63:20,23 74:12	17:21,24 18:3	explain 98:14
188:3,5	76:10 77:22 81:7	22:11,12,13,15,17	119:5
error 125:21	81:11 82:12,15	22:21,23,24 23:2,8	explained 109:11
126:3	98:2,18 99:17	23:10,11,15,23	explains 61:13
errors 104:16	100:12 102:14	24:1 27:3,6,9,12	explicitly 124:25
107:4	105:5,9,13 106:6	27:13,22 60:6,9,14	extension 75:20
esq 3:5,12 187:1	109:17 110:9	60:25 69:5,8 85:3	76:17 77:23
essentially 20:19	115:15 116:24	85:6,10,11,20,22	extensively 29:3
45:6 47:3 63:19	118:25 119:8	85:25,25 86:2	extent 90:16 117:4
71:11 95:3 96:6	132:16,21,23	93:17,22,25 94:2,9	149:18
101:21 107:21	133:6,10 139:19	94:12,13 98:1	extremely 49:10
120:8,21,24 121:7	140:1 145:17,18	99:15 105:17	49:12
124:3 140:18	146:22,24 147:23	107:23 108:8,16	eyal 68:25 69:3,7
141:20	148:1,16,17,20	170:18,23,25	69:13,17 70:13,16
establish 12:22	149:3 151:6,10	173:23	70:18,20,23,24
63:24	152:23,24 153:13	exhibits 4:8 5:1	71:10,15,21,25
establishing	155:6,17 156:21	8:15,17 10:9,20	72:1,3,7,16,20
165:19	159:25 160:16,18	13:23 15:25 22:4	73:5,6,10,11 74:1
et 80:10 131:2	160:23 161:10	22:5,8	75:2 77:8,10,11,15
138:15	162:25 163:5,9	existing 113:22	77:16,20,25 78:16
event 36:16	164:20,22 166:5	exists 90:15 135:3	78:19 79:11,17,25
100:15 102:21	171:16	135:9 182:19	80:13 82:3,5,8
103:10,13,23	examples 73:19	expect 74:22	84:3,10,16 97:23
104:9	81:5 98:11 132:5	108:11 163:18	108:21 109:5
eventually 30:11	148:13 161:15	183:7,9	111:15
50:2	164:4,18	experience 32:23	eyal's 71:5 72:25
everyone's 21:19	exclude 144:1	59:7 66:24 67:3	f
evolved 32:13	excluded 56:4	67:15 68:3,14	facilitate 139:3
122:3	excuse 14:13	78:1 122:18 149:2	facing 30:21
evolving 32:20	executable 172:22	149:23 158:6	fact 19:11,14
			20:11 26:1 30:11

Page 12

HULU EXHIBIT 1081 Page 201 of 227

[fact - form]

38:17 41:9 50:22	fast 36:12	110:11,19 111:2	five 67:2 83:16,18
60:24 61:18 64:12	feature 39:21 45:9	filing 61:11 121:15	92:6 136:25
76:6 77:12 105:13	features 38:5,9	filings 61:9	fix 87:11
106:1 116:20	february 60:1	filled 118:7	flexible 182:24
119:21 122:20	108:6,9,13	finally 172:1	flip 60:16 73:13
133:19 152:9	federal 54:15	financially 186:17	83:9 91:18 111:11
180:6	186:14 188:1,8,9	find 58:18 71:1	127:3 150:1,3
facts 15:6 16:21	feed 100:13	77:2,4 178:7	171:6 175:17
18:20	feel 12:19 85:8	fine 11:10,20	flipping 86:19
fail 125:6	108:20 141:11,12	33:14 55:1 92:8	97:25 102:23
failed 55:20,24	156:16	126:25 141:11	107:24 118:24
fails 125:20	fetch 120:25	finger 179:6	floor 3:6
fair 11:18 20:14	field 56:16 63:9	finish 21:11 85:9	flow 117:17
28:19 38:1 59:14	66:21 67:18	132:3 147:20	fly 102:4
64:19 73:21 79:15	fields 182:6,7	149:10	focus 89:8 144:21
82:15,22 95:20	figure 10:22	finite 118:6	focused 45:23 50:6
104:10,24 118:3	112:10	firm 25:8 58:2	89:3,7
122:14 124:12	file 42:20 74:23,25	firmware 29:20	folder 8:8
125:24 129:4	76:19 90:13 95:2	first 10:21 11:6,16	follow 72:10 130:5
130:12 136:10	95:3,4,8 96:1,24	31:20 33:24 34:3	135:18 171:15
137:14 142:14	96:25 97:4,6,7	34:19 50:15,17	181:7
143:23 147:4	98:23,25 99:1	51:1,20 56:25	followed 111:4,4
151:12,19,23	101:7 102:10	57:15 59:16 66:20	146:25 148:1
157:2,11 158:12	104:23 105:2	68:23 78:20 79:2	149:4 151:3,11
164:24 169:3	106:16 107:4,7,14	79:12 80:7 86:11	following 73:4
177:19 178:1	107:22 109:23	98:16,19 100:2,4	107:21 148:23
fairly 99:13	110:3,18 115:17	103:19 106:8	follows 7:7 95:4
169:14	119:9 120:22	107:11,11 108:3	149:1 152:23
fairness 99:12	139:22,25 140:1,3	109:14 110:12,19	187:8
familiar 8:1,20	169:17	111:3 113:10,12	foregoing 185:4
11:11,13,13 37:8	filed 33:19 59:25	120:22 127:25	186:5,7,11,13
62:12,18,24 63:2	60:3,4,23	128:23 134:10	form 17:6,17
67:23 68:9 69:13	files 5:10 74:13	137:11,20 144:21	18:15 19:3 20:4
74:13 76:19 94:6	76:18,21,21,22	147:5 149:16	21:3 35:25 36:21
94:15,19,21,23	88:24 93:19 94:12	160:4 161:21	39:9 40:10 42:22
97:14 99:20	94:19 95:9 97:8	162:1 169:5,24	44:3 47:2 48:21
119:14 122:24	97:12,15,20 98:7	170:1 171:13,14	51:18 57:9 67:25
123:2	98:12,15 99:6,16	171:23 175:2	71:8,22 73:2
far 15:18 17:16	99:21,24 102:24	178:15	77:14 82:7 84:13
124:24 141:9	104:19,22 107:24	fit 41:3 49:23	89:1 90:25 99:8
	108:2,4,12 109:13		101:9 107:9 109:1

Page 13

HULU EXHIBIT 1081 Page 202 of 227

109:20 110:14	fourth 81:11	fundamental	83:9 85:1,11,17
111:6 114:15	138:11	34:14 123:9	87:4 91:15.21
115:13 116:4	frame 25:18 30:5	further 30:3 43:11	92:17 93:15 97:21
117:2 118:10	33:2 51:12,13	58:18 75:7 153:16	97:24 98:3 112:8
120:3 128:4	53:18 60:1 63:5	183:25 184:12	112:9,9 113:3
129:24 130:14	64:2 113:20	186:13,17	119:20 120:12
131:6 134:21	120:17	g	127:16 128:19
137:15 138:5,18	frankly 45:23		131:22 132:8
143:4 145:15	181:1,3	game 38:16,19	134:17 138:20
148:22 152:21	frcp 188:1	games 38:6,15	144:15 146:16
153:20 156:3,20	free 12:19 85:8	general 32:17 59:7 165:6	147:17 149:9,14
157:5 158:1 159:6	141:11	generally 65:5	156:4 160:3,7
161:12 163:20	freely 69:19 70:15	72:14	164:9 167:21
166:16 169:9	70:19 71:1	generate 77:10,11	173:8 174:23
172:17 174:12	fresh 9:20	82:9 110:19	175:4 178:3 181:7
177:14 179:19	friday 1:20 2:21	generated 139:17	184:13
182:20 183:1	6:1	generates 96:24	goes 75:6,7 138:13
formal 28:20,25	front 18:1 23:4	102:1	139:1 147:25
format 75:14	66:5 85:13 110:4	generating 80:13	going 10:14,23
171:15 180:19	132:9 171:9	102:3	12:23 15:22,25
formats 76:8	full 34:18,23 35:5	generator 110:3	22:3 47:17 52:10
formatted 180:20	35:17,23 36:9,18	genre 80:2,8,25	52:17 65:1,4 70:4
182:13,17	36:24 37:9 38:4,9	getting 29:11	75:21 80:20 81:24
formatting 180:5	39:19 40:8,14,24	give 8:25 9:9 31:19	83:13,21,22 84:25
180:24 181:3	42:14 43:16 50:23	44:19 60:8 69:11	87:23 90:21 92:3
forming 15:7	51:7 146:25 147:6	69:23 83:12	92:10,19 93:5,7,14
16:22 18:21 59:4	148:2 149:4	139:19 141:15	93:18 95:21 98:5
65:7 175:3	150:15 151:3,12	161:20	101:23 102:23
forth 8:16 39:2	151:25 152:5	given 11:12 21:6	104:18 107:12,23
46:21 100:8	155:12,23 159:23	49:15 62:11 73:9	109:22 111:23,25
126:18,24 164:14	160:1	79:1,7 118:25	112:3,14 113:16
186:6	fully 183:21	126:10,14 150:14	119:21 123:13
forward 170:16	function 72:22	157:24 186:12	125:18 128:5,25
forwarding 36:12	77:16	gives 161:10	131:19,20 132:8
found 161:21	functionality	glance 85:2 113:8	134:3 136:12
four 7:22,23 19:14	34:25 43:18 44:24	go 6:15 8:16 10:22	137:8 139:16
33:23 53:21,25	45:3 71:5,19	11:19 12:3 13:22	142:19 144:11
54:11,20 55:4	functioned 45:20	31:15 35:22 42:11	151:1 158:3,9
86:14 113:10	functions 34:14	52:15,15 60:5	160:16 164:5,5
168:16,20,22	45:21 140:7	66:4 72:21 74:19	167:19 168:1
169:23		78:20 79:4 80:13	172:12 174:8

HULU EXHIBIT 1081 Page 203 of 227

[going - included]

184:6,16	handful 83:16	hours 25:13,15	identifier 47:8
	handle 37:18	167:19	80:2 81:4 82:4
good 6:4 7:11,12 52:12 64:11 77:19			
78:1 83:24 92:5	39:22 handled 187:8	http 88:14 180:23 huh 112:13 162:18	139:14 identifies 130:25
92:14,15 112:4	hang 163:21	hulu 1:5 2:5 4:11	133:4
136:5 144:10,11	hangup 155:8	4:13,15 6:8,24	identify 39:7
graduate 28:5	happened 87:9,10	11:22 12:4,12	69:20 160:10,14
graduated 29:15	happening 21:10	19:16 23:11 56:10	168:16 178:20
granting 5:11	119:5,6 141:8,16	56:12,13 57:8,9	imagine 62:3
great 10:25 12:18	happens 128:20	68:12 85:25 177:6	68:11 81:20 91:21
14:20 17:12 31:13	happily 76:15	187:4 189:1	106:7 119:24
68:22 84:21 85:16	happy 9:20 21:16	hulu's 68:17,20	155:14
134:1 139:6	54:16,25 83:20	168:23 171:19	imagining 72:18
167:12 184:13	92:2 125:15	hypothetical	72:20
green 119:11	146:21	81:25 82:17	immediately 106:1
ground 8:21	hard 125:17	i	149:1
group 30:13 48:14	hardware 29:19	i.e. 127:22	impact 122:9
49:9	head 9:1	ibb 31:9 50:16,20	implement 71:20
guarantee 21:5	help 9:12 175:17	50:21,25	115:7 182:23
guess 21:12 46:12	helpful 90:19	idea 64:11 89:24	implementation
51:6,16 61:13	126:20	identical 19:12	117:20
67:13 75:10 79:19	henry 26:18	20:19 24:6,6 84:3	implementations
86:14 94:18 96:10	hi 6:23	identification	118:1
96:16 97:2,25	high 49:1,16	10:11,16,17 13:24	implemented 30:4
111:14 113:21	higher 50:3	16:6 17:21 22:11	35:7 45:3,10,22
121:24 130:5	101:21 124:10	22:12,13 27:3	46:4 64:3,5,6
134:20 135:24	hinge 177:11	39:5 60:14 69:5	118:2 122:21
142:19 145:13	hinged 177:21	85:20 93:22 94:9	140:2 182:22
148:20 152:18	history 55:4	128:23 129:1	impossible 49:13
154:17,17 162:5	hit 121:8	130:1 137:2,3,6,21	improve 50:5
169:5 181:10	hits 82:12,16,18	138:6 139:2,12	improving 50:7,8
guide 39:2 46:13	82:22 83:1	143:6 155:3	62:21 63:14
46:17,24	hold 14:12	168:18 170:23	include 36:25 37:6
h	home 10:1 38:5,10	171:12 172:2	46:7,19 47:5,7
h 189:3	hopefully 84:24		70:24 74:9 79:21
half 52:11 83:23	hopping 95:12	176:11,14,16,18 180:2	80:1 88:20 137:17
naii 52:11 85:25 91:22 92:11	host 96:2,17	identifications	147:23 150:9
	houh 68:6		160:5 164:3
halfway 43:22 hand 54:17 75:17	houh's 26:18 68:9	129:11 identified 120:11	181:21
	hour 52:11 83:23	identified 139:11	included 35:2 38:5
75:22 76:13	91:22 92:12	165:14 177:6	39:12 101:6
142:24 143:1			

HULU EXHIBIT 1081 Page 204 of 227

		1	
122:16 181:23	initially 44:23	intention 83:13	involvement
187:14 188:3	initiate 141:23	inter 5:4,11	113:16
includes 33:16	initiative 30:14	interacted 68:2	involving 26:7
45:18 96:2,17,18	48:7	interaction 36:18	ip 1:7 2:7 6:8 13:3
140:3 165:6	input 38:21	interactive 38:5	32:13,15,16 35:11
including 29:23	insert 100:2	38:20 45:18,21	35:12 38:23 48:11
30:5 33:2 74:1	inserting 100:11	46:3	58:2 62:22,23,23
76:13 95:6 96:12	100:13	interactivity 46:1	63:10,11,14,14
121:25 143:3	insertion 47:18	interchangeably	187:4 189:1
150:12,22 162:12	99:19,21,24	148:8	ipr 11:24 12:6,13
164:7,18 171:11	100:18,19 102:14	interested 46:2	15:20 22:24 23:11
inclusive 165:4	103:7 109:11,13	49:10 186:17	24:1 27:13 57:11
increased 64:13	instance 20:17	interesting 64:4	60:10 85:25 86:1
independent 26:23	81:3 142:7 181:25	180:18	121:14 171:1
27:1 31:12 50:18	instances 27:21	interference 6:14	ipr2021-00158
50:20 51:7	125:6	internet 26:24	1:10 2:10 4:12
independently	institution 5:11	32:21 41:16 48:8	ipr2021-00206
31:7 51:2,4	170:7,20 171:1,7	49:2,11 50:3	1:12 2:12 4:14
indicates 70:17	172:8,16 173:18	62:22 64:9,18,20	ipr2021-00219
154:19	173:19,22 175:16	79:6 86:16 100:13	1:14 2:14 4:16
indicating 152:24	176:1,16	113:24 114:11	iprs 19:16 27:17
indication 163:16	instruct 105:23	119:2	183:21
individual 11:14	instructed 63:22	introduce 8:8,15	isdn 29:23
107:17 114:13	instruction 37:14	10:8,14 16:4 22:3	isp 48:7
individuals 65:7	37:19 43:10,14	93:15,18	isps 48:8
65:10,11,20	180:5,6,8	introduced 10:13	issue 31:23 32:3
industry 31:11	instructions	10:20 14:2,6	32:24 34:9 40:17
59:7	107:21 131:4,8,10	16:11 18:2 22:5,7	48:4 49:5 121:16
information 35:13	137:7 172:22	27:5,12 69:7 83:3	147:19
39:3,5,14 44:18	179:15,17,25	93:17,24 94:11	issued 29:7,12
46:16,20 47:5,13	181:2	170:25	issues 64:23
54:3,14,25 55:3,7	instructs 9:5	invalidate 177:11	item 42:25 98:21
80:12 81:4 95:23	integrated 140:6	invalidates 121:19	138:25
96:11 122:16	intellectual 28:24	invented 24:22	items 137:21
133:12,22 140:22	29:2,4	invention 86:3,9	147:25 148:15
154:11,15 157:23	intend 45:25	86:12	162:12
169:18 180:23	106:12	inventors 66:1	iv 138:25 179:23
182:13,17,23	intended 107:1	132:14 144:23	iyer 3:11 7:1 25:2
informed 168:21	intending 43:23	inventory 80:18	57:23
initial 146:2,7	intent 106:7,15	involved 50:15	
,	121:24	113:20 119:25	

HULU EXHIBIT 1081 Page 205 of 227

[jazz - lines]

:	125:18 126:17	176:7,9 177:3,17	left 30:17 31:5
j	127:8 130:5 141:7	177:23 180:22,25	44:1 50:11 51:8
jazz 80:10 82:12	142:17 145:5	182:9	legal 6:19 28:20
82:16,18,21 83:1	146:13 148:7	knowledge 15:4	51:15 57:24 187:7
joann 3:17 6:17	149:19 167:16	18:12 64:3 72:9	length 146:25
job 1:24 31:20	180:18,22 182:17	113:16 122:13	147:6 148:2 149:4
187:5 189:2	180:10,22 102:17	183:23	150:15 151:3,12
johnson 1:22 2:22	kinds 132:15	known 41:1 62:20	150:15 151:3,12
6:18 186:3,24	knew 62:15	63:8,11 66:10,11	155:12,23 156:7
join 30:17 45:4	know 9:3,9,17,22	97:8 99:6 113:25	159:23 160:1
joined 30:23 33:13	14:4,21 15:12,18	114:22 119:18	leslie 1:22 2:21
judge 56:8			
july 57:2 59:19	16:8 17:16,24	ksprenger 3:15	6:18 186:3,24 level 66:9 67:24
jump 179:8	21:6,17 22:1,8 25:16 26:9 27:7	<u> </u>	68:3
jumped 175:6	28:14 32:13,21	language 20:17	08:5 levels 68:13
jumping 106:21	· · · · · · · · · · · · · · · · · · ·	21:7 24:11,21	
130:4	39:4,7 41:11 44:11,15 45:9	35:25 140:7	library 71:20 likewise 9:11
june 57:2 59:19	· · ·	142:20 154:20	
k	50:2 52:2,10	155:16,19 157:12	limit 32:16 155:10
keep 9:13,19 12:19	54:23 55:5 56:15	164:10,16 165:1,2	155:20
16:1 52:6 55:5	59:25 60:11,18	166:4,10,23	limitation 127:25
83:20,22 92:3	67:13,13 70:25	167:11 171:21	134:10
144:11 160:16	72:8,10,18 73:7	172:8 178:19	limitations 180:13
164:5	75:25 76:23 81:8	languages 29:25	180:16
keeping 179:6	82:1 84:15 85:7	large 21:17 40:12	limited 49:12
keeping 179.0	87:2,3,7 88:23	larger 14:3	90:24 156:8 165:2
kevin 3:12 6:25	89:4 91:22 92:3	lastly 23:14	166:1
key 102:25	92:11 103:18	late 114:3	limiting 165:10,24
kind 8:12,15,16,20	104:15 105:15	law 28:21 157:21	165:25
11:3 12:22 21:19	109:3,15,24 110:2	157:22 158:3	line 125:16 141:1
22:4,5 25:18	117:4,5 118:15	lawyer 158:10	141:3,10 142:6
31:22 33:16 35:5	120:16 121:14,15	lawyers 13:16	145:25 146:1,5,23
54:24 59:25 64:11	121:17 122:18	layer 42:8 46:19	147:22 149:15
	130:6 132:3	50:9	150:11,19 160:5
65:4 71:4,23	142:16 146:19	leaf 120:7,8,12,13	161:22 162:13,16
72:25 83:13 85:2	147:12 149:1,9,15	120:17,19,23	162:17 163:3,4
95:15,16 99:17	151:20 152:6,13	121:2,5	187:15 188:4
100:11 101:3	154:11,23 155:22	leap 152:25	189:4,7,10,13,16
103:15 106:15,21	156:10 158:2,4,5,7	learnings 40:14	189:19
107:3,17 108:22	158:8,8 161:13	leave 15:17 17:14	lines 125:17
111:2 114:23	166:11 170:16	19:6	131:22 150:8
119:10 121:15	174:22 175:11	17.0	

HULU EXHIBIT 1081 Page 206 of 227

[link - mean]

link 46:24 52:5	187:4 189:1,1	125:14,16 142:22	manufacturers
77:19 79:7 84:16	llc's 4:11,13,15	123.14,10 142.22	49:22
95:19,24 96:1,2,12	11:22 12:5,12	179:6	map 138:2 178:16
96:17,22 101:6	llp 3:11 7:1	looks 38:3 40:5	march 60:1
102:3 107:6,11	locate 69:18 70:14	56:19 80:5 81:12	mark 13:22 15:25
155:7			
linkedin 52:6	locating 70:18	88:9,16 99:4 119:1 137:10	60:6 85:1,4 170:18
	location 69:20		
linking 148:19	locations 116:2	170:19	marked 10:11,16
links 72:10,14	locator 137:6	lose 69:25	10:17 13:24 14:7
73:4,5,6,9 77:17	138:13	losing 127:3	15:20,23 16:6,12
80:19 106:16,24	locked 187:12	lot 8:15 19:9,19	17:21 18:3 22:11
list 26:1 51:24	188:1	31:15 46:1,4	22:12,13,24 23:10
52:7 53:23 54:9	logic 152:25	58:23 75:7 106:22	23:25 27:3,6,12,21
65:1 73:25 76:1	153:24 154:15	151:8	60:9,14 69:5 85:6
78:23 102:25	logistics 167:23	lots 142:16	85:20 93:22 94:2
106:9 109:4,7	long 25:10 44:5,12	low 49:14 50:1	94:9 98:1 170:23
114:21 133:13	75:19 79:19 92:7	lower 124:10	marking 17:23
147:24 148:14	longer 45:2 125:7	lunch 83:17 92:13	martin 10:3
172:20 174:2	138:21 144:11	112:4,9	match 80:20
listed 59:5 61:20	longtime 56:17	m	125:17
62:2,8 80:9 81:4	look 11:1 14:11	machine 186:9	materials 58:14
171:4 174:2	15:22 23:14 54:7	madison 91:19,23	171:4 174:3
listing 75:3 105:2	57:8,8 62:10	91:25,25 93:6,14	183:12
lists 58:24	72:13 74:17 77:17	94:1,6 95:16,17	matrix 119:2,8
litigation 51:11,17	89:2 105:25	96:16 98:7,8,10	120:1,14,18,18
53:6,10,20 55:22	134:22 136:16	104:19 105:10	121:1,5 123:16
little 14:3,23 31:16	138:20 166:8	106:8,15 111:17	matter 6:8 13:9,12
32:7 34:22 36:5	171:13 173:3,3,23	maintain 125:7	13:15,17 15:8
38:8 41:15 45:19	174:1 178:14	making 82:21,23	26:14 149:11
59:15 68:16 77:1	180:19 182:3	90:17 107:16	157:20 180:4
78:20 79:24 81:13	looked 19:11	126:14 130:21	matters 26:19
83:21,22 93:16	24:18 59:13 60:7	142:25 143:1	34:9 40:18 53:10
101:20 104:17	61:11 62:15 85:14	142.23 143.1	122:25
105:25 108:17	97:15 160:8		mean 12:19 21:10
114:2 125:17	162:25 164:17,20	managed 29:25	21:15,20 28:12
132:4 140:11,14	173:1	30:5,12,14 48:18 48:22	36:5,6 73:21 91:1
142:1 144:11	looking 51:23		98:20 99:10 106:7
145:12 149:13	56:19 84:19 85:8	management 31:4	110:15 111:22
live 100:13	88:15 102:6	manager 90:12	115:9 116:11,12
llc 1:5,7 2:5,7 6:8	105:17 106:18	managing 86:22	132:2 134:18
6:8,24 13:3 187:4	107:11 109:2	manual 97:23	140:15 145:13
,			

HULU EXHIBIT 1081 Page 207 of 227

			1
149:22 153:5	114:9,10,12,13,14	161:2,3,23 162:12	method 73:1115:8
155:2 158:17	114:17,17,21,23	162:12,21 163:6	115:21,23 116:22
164:2,20 179:1	115:1,7,10,16,16	163:10,11,11,17	methods 70:17
182:21	115:18 116:13,24	164:7 165:14,20	71:21 72:15
meaning 143:8	117:14,14,18	165:22,22 166:1	michael 1:18 2:19
148:7 153:5,7	118:12 123:25	167:2 168:19	4:4,9,11,13,15,17
164:10 166:11,11	124:3,4,4,6 125:8	169:17,19 172:22	4:18,20,24 5:2 6:7
175:11	125:12 126:7	177:5,5,12	7:5,15 11:23 12:5
meanings 153:23	127:20,25 128:2	medium 157:7	12:13 26:5 185:3
means 78:1 132:2	128:10,11,24	mediums 157:7	185:17 187:5
135:25	129:2,6,7,8,14,15	meet 24:23 25:1,7	189:2
mechanism	129:15,16,17,19	25:11 129:21	microphones 6:12
100:16 102:2	129:23 130:8,21	meetings 25:14,17	microsoft 74:3
120:10 144:4,7	131:1,9,11,14,18	megabits 49:16	75:23 76:22 77:3
media 6:6 35:1	131:24 132:3,4,10	memorized 54:12	97:21,24 98:2
36:7 37:8,11,12,15	132:15,16,18,18	memory 26:3	104:16,25 108:5
37:21 38:1 39:8	132:22,23 133:5,6	54:24	108:13
39:11,12,23 41:16	133:9,9,11,15,17	mention 15:19	middle 104:4
42:9,12,25 43:3,5	133:18,20 134:9	34:17 86:20 88:4	mind 114:23 141:5
43:6,8,12,21 49:11	134:12 135:11,14	145:9	mine 65:10
49:18 66:25 67:5	135:15 136:9	mentioned 20:7	minute 129:18
69:17,18,21 70:13	137:3,4,12,13,17	39:20 45:12 49:25	150:2,7 184:3
70:15,19,21 71:1	137:17,18 138:1,3	50:14 53:5 61:10	minutes 91:20,22
71:11 72:11,14	138:15 139:3	62:17 63:7,13	92:6,8,12 110:12
73:17,18 74:3,9	140:10,12,21	75:11 89:12 93:8	110:13 144:14
75:5,12,18,20,23	141:19,19,20,25	97:11 109:14	missed 14:15
75:24,24 76:6,11	142:9,12 143:3,7,9	131:21	mistake 102:13
76:14,22,24 77:3,6	143:13,14,17	mentions 78:13	105:16
77:9 78:3,13,16	144:4,23 145:3,10	menu 35:20 38:10	mistakenly 62:5
79:7,16 80:19,22	147:1,9,10,14,19	38:13 42:13,16	misunderstood
81:5 82:23 86:16	147:24,25 148:3	merchant 90:10	166:20
88:5,11,23,24 89:6	148:15,15 149:5	merely 90:17	mms 124:1,2
89:7,14,19 90:13	150:9,12,15,23	104:13 116:21	135:3,5,22 136:4
94:23 95:6,9,25	151:8 152:14,16	164:19	141:24 143:2
97:14 98:25 100:5	153:8,9 155:4,5	message 141:24	150:11,21
100:7 101:23,23	156:6,6,9,11,17,18	142:8 143:16,21	mobile 1:7,7 2:7,7
101:24 107:5,10	156:25 157:3,13	met 25:4 68:13	6:8 7:1 13:3,4
107:20 108:22	157:14,15,18,18	174:18	187:4 189:1
109:4,7,24,25	158:15,18 159:1,3	metadata 39:16	mode 45:8
110:4 111:8 113:4	159:10,11,15,16	46:7	modem 30:14
113:16,25 114:3,8	159:19 160:5,5,6,9		48:11 49:3

HULU EXHIBIT 1081 Page 208 of 227

[modems - objection]

modems 49:13	164:2,7,10,13,19	necessary 154:23	notably 95:7
modern 113:9	164:21,22 165:6,7	187:14 188:3	notating 187:15
121:11,25 122:4,6	165:7 167:5,5,6	need 9:18 75:15	188:4
122:8,16,18 123:6	movies 39:20	141:12 146:3	note 6:12 22:23
122:0,10,10 125:0	161:23 162:1	161:19 181:6	23:10,25 27:11
modification	moving 32:1 68:19	182:16	55:2 84:2 85:24
183:2	138:22	neither 186:17	108:4 115:7 116:6
modified 70:23	mpeg 30:18 41:1	network 30:10	130:9 144:22
modulated 35:9	42:7,8 43:7 46:19	32:11,13,20 34:13	171:3 178:24
module 73:17	46:21 47:3,11	34:13,18,19,23	noted 24:5 55:8
moment 69:11,24	54:23	35:2,2,3,4,5,6,7,9	89:12 184:18
161:20 170:21	multimedia 140:6	35:17,23 36:8,10	notes 13:19 139:21
monitoring 124:8	multiplayer 38:6	36:19,25 37:9	183:4
morning 6:4 7:11	38:15	38:4,9,24 39:19	notice 4:11,13,15
7:12	multiple 48:7 76:8	40:2,9,14,21,24	11:8,12,22 12:1,5
mouth 166:4	82:19,25 101:24	40.2,9,14,21,24 42:15 43:16 47:23	12:9,12,16 45:17
move 49:18 53:4	106:16,24 130:7	50:8,9 62:22,23,24	104:21 113:13
128:6 147:21	151:21 158:15,25		104.21 113.13
moved 29:21 30:1		63:9,15,20 64:17 64:24 66:24 67:4	noticed 83:3
	159:9,11,16		
30:7	162:11 163:19	79:9 114:8,9	noticing 6:22
movie 35:20 42:20	164:7	119:15,25 120:5,6	noting 88:23
43:23,24 44:6	multiplex 47:12	120:20 121:1	nrp 125:10,22,25
115:9,15 120:14	multiplexed 39:17	136:5	126:8
123:15 145:17	47:14	network's 139:20	number 4:10 5:3
146:24,25 147:5,5	music 86:24 89:5	networking 32:5,8	15:23 32:11 46:18
147:6 148:2,17,17	myers 3:4 6:24	33:2 63:11	47:4 56:14 83:5
149:4,4 150:9,12	n	networks 32:14,17	118:17 142:15
150:16,22,25,25	n 4:1	41:17 48:10 64:9	146:19 148:25
151:2,3,11,12,18	name 6:17 7:13	64:13 119:17	154:10 187:15
151:24,25 152:5	54:23 81:17,18	newport 3:6,7	188:4
152:12,19 153:13	83:3 96:2,17	nine 53:11	numeral 68:18,21
153:14,18 155:6	102:21 103:23	no.9,026,673 4:17	138:25 178:9
155:11,12,17,22	159:5 186:21	no.9,135,636 4:19	179:21
155:23 156:12	naturally 97:21	nodding 8:25	numerals 179:23
159:23 160:1,12	126:12	node 120:7,8,12	0
160:13,15,19	navigable 73:7	120:13,17,19,23	o'melveny 3:4
161:3,4,11 162:4,5	nearly 24:6	121:2,3,5	6:24
162:6,10,12,14,21	necessarily 74:24	normal 125:21	oath 7:6,17 186:8
162:22 163:1,1,5,8	76:4 118:22 133:1	126:3 131:17	object 9:3 35:24
163:10,11,12,13	153:11	northern 30:1,2	objection 17:6,17
163:15,17,17		32:22	17:19 18:15 19:3
			1,11, 10,10,17,5

Page 20

20:4 21:3 36:21	offer 174:9	163:7 166:20	opinion 56:3,7
39:9 40:10 42:22	offered 49:2 91:7	167:8,12,24	57:9 91:8,8
44:3 47:2 48:21	office 1:1 2:1	168:15 170:25	116:16,20 123:4
51:18 55:8 67:25	187:11	171:2,10 172:18	162:7 165:16
71:8,22 73:2	oh 11:7 33:11 54:5	173:6 174:7,23,23	176:25 181:5,5
77:14 82:7 84:13	54:5 58:17 62:20	173.0174.7,23,23	opinions 15:7
89:1 90:25 99:8	83:22 85:12 87:13	174.23 175.4,21	16:22 18:18,21
101:9 107:9 109:1	110:23 146:2	173.24 177.8	59:4 65:7,10,12
109:20 110:14	150:21	178.2,0,8,11 179.8	88:20 122:9 174:9
111:6 114:15			175:3 176:7
	okay 8:1,7 9:25	183:25 184:2,5,11	
115:13 116:4	10:19,25 11:6,21	omitted 62:5	183:17,20
117:2 118:10	12:3,18,25 14:2,24	omm.com 3:9	opposed 144:25
120:3 128:4	16:4,8 17:23 22:3	187:2	option 163:4
129:24 130:14	22:7,15,16,23 23:2	once 37:17 53:16	orange 119:13
131:6 134:21	23:5,14,17 27:5,5	79:11 118:7	order 61:22 75:14
137:15 138:5,18	27:9 31:13 33:13	140:19 156:5	76:18 79:1 105:23
143:4 145:15	33:14 44:10 54:13	175:14	131:15,15,18
148:22 152:21	59:20 60:9 66:5	ones 80:9 169:8	145:2 182:16
153:20 156:3,20	68:19,20 69:11,13	online 38:13 89:4	ordinary 66:10
157:5 158:1 159:6	78:5 80:23 81:11	open 8:9,12 12:20	68:6,11 153:5,7
161:12 163:20	83:11,24 84:21	14:5 18:1 22:9	175:10
166:16 169:9	85:5,6,11,16,19	23:2,4,16 27:7,8	original 186:14
172:17 174:12	87:18,21,22 90:19	55:6 60:12 70:8	187:10,21
177:14 179:19	91:15,17 92:5	71:9,12 72:12,14	outside 75:8
182:20	93:14,17,24 96:21	85:7,9,12,15 87:6	overlaid 132:18
objections 6:20	99:16 108:1 109:2	102:18 103:20	overlap 19:10,19
objective 62:10	112:1,2,8,11 113:3	104:6,22 105:1,11	oversight 62:3
obtain 78:14 131:9	113:11 125:5	125:3 138:21	overview 127:7
131:11,12,14,17	126:16 127:4,12	170:17	owned 71:6
163:4 169:19	128:5,13 130:4	opencable 44:16	owner 1:8 2:8 3:10
obtaining 79:4	133:2 134:1,13,22	opened 22:10	13:2,7 59:10,12,24
obviously 11:10	135:20 136:10,24	opera 164:13	60:23,25 135:15
11:11 31:14 39:12	139:6 141:4,4,13	operate 64:16	160:9
59:6 72:23 77:25	144:9,14,17 145:5	80:25	owner's 5:4
118:6 121:21	146:6,16,18	operated 34:23	р
126:25 158:14,25	147:16 149:13	35:6	p.m. 2:21 92:20,23
170:15 174:17	150:1,4,8 151:1	operation 123:9	p.m. 2.21 92.20,23 112:15,18 168:2,5
occasions 53:12	152:9 153:3,16	operative 121:21	112.13,18 108.2,3
october 1:20 2:21	155:1,8 156:24	121:23	packet 32:14,15
6:1,5 186:22	159:7 160:24	opine 174:17	32:17,20 33:2
187:3,5	162:5,19,24 163:3		41:2 47:8
			41.24/.0

HULU EXHIBIT 1081 Page 210 of 227

packets 35:11,11	123:13,14,19	153:18 154:4,9	72:19 74:19 76:20
35:12 36:7 38:23	124:7,13 125:18	160:6 163:23	84:17 85:15,18
42:8 43:7,12	127:8,14 130:6,20	179:2,11,18	90:11 93:25 94:17
118:15	134:4 135:13	180:15,20,24	106:11 121:16,20
page 4:10 5:3	136:12,16 137:9	partes 5:4,11	122:5,10,13 123:5
56:21 58:14,19,20	137:10 138:1,9,17	participants 6:10	123:21,24 124:17
58:21 68:18 78:7	139:7,16 140:25	particular 35:16	124:25 125:2,4,9
78:8 91:18 98:8,9	141:5,10,16	35:19 36:17 37:11	126:6,20 127:7,10
99:2 100:10 101:1	144:16,21 146:12	39:7 42:24 43:3	127:20 128:6
101:6,15,15,25	148:7 149:15	63:21,25 64:1	139:19,21,23
102:23 103:3,4,15	160:22 166:5,21	71:18 75:16 80:8	140:9,24,25
103:19,23 104:4	169:15 170:5	95:25 113:24	142:16 144:8,20
105:18,19 108:18	171:13,24 175:8	114:23 132:19	145:19,25 146:13
108:25 109:3,3	175:13 176:13	141:17 173:4	146:20 147:13
113:5 118:24	178:12,15,16,25	particularly 46:2	152:11 156:14
119:24 168:14	181:11	57:11 132:19	157:1,22 158:4
171:6 174:1 175:5	paragraphs 66:4	parties 6:14	161:1 164:12,25
175:7,18,19,22,22	88:15,16 95:15	parts 61:24 105:14	165:4,21 166:14
178:9 181:11,13	96:10 121:10	partway 37:11	166:18 167:1,3,11
181:19 187:15	140:8 142:3	86:4	175:12 179:7
188:4 189:4,7,10	144:20 171:15	party 69:20 71:7	patents 14:10
189:13,16,19	172:5	71:11 186:19	19:17 24:3,7,12,17
pages 1:25 73:13	paralegal 131:1	pass 80:21 182:23	24:20,21 25:23
83:10 187:14,17	parallel 131:25	passed 78:24	29:7 31:18,23
187:17 188:3,6,6	132:18,21,24	passing 78:2	32:4,6,9,16,24
paper 171:3 174:4	133:7,18,22	patent 1:1,3,8,11	33:17,19 34:9
174:5	parse 182:16	1:13,15 2:1,3,8,11	40:17 48:4 49:5,8
papers 28:16	part 14:15 26:22	2:13,15 3:10 4:17	57:7 66:1 67:21
122:20	37:9 40:8 46:19	4:19,20,21,22,23	67:22 68:8 84:18
paragraph 66:16	46:21 48:5 50:25	5:4,5,6,7,8,11	122:24 123:9
69:16 70:12 73:14	55:21,25 56:15	11:24 12:7,14	124:2,19 172:11
73:16,23 78:6	62:24 64:17 72:1	13:2,7 14:10,16,17	177:11
79:18 85:17 86:11	72:3 77:16,20	14:21,22 15:15	path 63:19,22
86:20 87:16,17,23	83:8 101:1 106:17	16:15,23 17:5	64:22 136:5
87:25 88:4,8,10,24	106:24 108:23	18:8,8,22 19:13,24	pause 37:14,16,24
91:5,12 95:11,18	110:20,20 125:20	21:21 22:18,21,21	42:19 43:10,17
96:9,16,21 98:8,10	128:15 129:11	23:6,7,20,22 26:7	44:21 117:6,10,15
105:6 106:14,23	130:16 135:7,12	26:8 29:5,10,11,14	118:1 135:16
107:25 113:21,22	135:20,25 136:3,7	34:16 53:15 56:1	pauses 37:12
114:20,24 115:3,5	136:22 148:20	57:10 59:9,12,24	pausing 36:12
116:6 121:10	150:6 153:8,10,12	60:23,25 68:24	117:8,12,17,21

HULU EXHIBIT 1081 Page 211 of 227

118:21 134:7	personally 62:7	118:21 121:2	players 75:15,16
pay 37:3	perspective	126:10,15 128:21	76:6,7,12 77:6
paying 46:2	113:19	128:22 129:1,6,10	114:1,12,17 115:1
pdf 70:9 187:12	pertains 14:16	129:11 131:5	117:13
188:1	186:13	132:3,4 133:15	playing 107:12
pdfs 126:18	petition 5:4 57:8	136:17,20,21,24	118:14
pegasus 40:6,8,11	petitioner 1:5 2:5	137:16,20,22	playlist 39:22
40:17,19,23 41:5	2:19 3:3 4:11,13	138:3,7,12 139:1	73:18 74:2,5,6,8
41:10,13,20 42:11	4:15 6:24 11:22	139:11,13,17,22	74:10,20 75:9,11
42:25 43:2,17,25	12:4,12 171:16,20	140:1,2,4,17,20,22	75:17,22 76:1,13
44:20 45:2,13,15	petitioner's	141:18 143:6,12	77:11,11 78:2,15
45:17,20,22 46:7	171:24 172:3	143:18 144:5	78:17,18 79:12
47:19	phase 88:1 91:13	168:17 169:15,16	80:3,13 81:8,12,16
penalty 185:1,4	phrasing 90:11	170:2,4 171:11,16	81:17,19,23 82:1,2
187:16 188:5	pick 6:13 43:23	171:17 172:20	82:5,6,9,11,16,18
pending 9:23	44:1	173:14 174:21	82:18,22 83:1,2,5
people 67:23 68:2	picture 119:4,23	179:13 181:24	83:6,8 95:9 96:3,3
157:6	pid 47:8	182:3,5,10	96:7,17,23,24 97:3
perceived 42:4	piece 90:18 101:22	playability 77:18	97:3,4 98:18,20,22
perfect 87:22	101:23 109:24	playback 37:12,14	99:2 100:4 101:18
perform 80:15	115:16 130:16	42:19 44:22 73:18	101:19 102:2,19
performed 15:14	140:21,21 156:25	75:12 77:9 78:14	102:21 105:19
17:4 19:2 80:17	159:10 165:22	89:6 95:6 117:6,9	106:17,25 108:22
performing 31:4	pieces 101:24	117:11,16,21,25	108:23,24 114:14
120:5	112:3 114:13	118:8,15	114:18,22 140:4
period 31:9 50:22	129:6 158:25	played 38:17 39:8	158:16,17 159:3,8
64:1,8 67:18	pin 147:16	78:3 106:9 107:2	159:14 178:21
117:23 187:18	place 6:16 69:25	131:19 133:17	179:1
188:7	72:2 102:9 114:14	player 38:16 74:2	playlists 73:20
perjury 185:1,4	127:3 185:7 186:6	74:3,8,12,18,21	74:1 75:14 95:7
187:17 188:6	placed 36:7	75:19,23,24 76:9	102:15 108:18
person 66:11,14	places 146:20	76:11,22 78:3,16	158:14,25
68:6,10 74:22	147:18 161:6	78:25,25 79:2,4,6	please 6:12,21
97:17 104:25	plain 153:5,7	79:11,17 80:22	7:13 10:1,5 14:3
109:25 110:9	plan 60:17 183:11	82:6 94:24 107:5	22:8 23:3 28:1
165:19	plans 183:13	107:10,20 114:3,9	138:24 150:7
personalization	platform 8:3	114:17,21,23	plural 157:4,8,13
101:4	play 37:20 59:7	115:18 116:15	plus 164:21,22
personalized	75:24 76:15,16,20	117:14,15,23	point 9:8 16:2
100:23 101:8,17	79:1,2,9 105:23	139:20	20:14 21:8,8
	114:7,11 118:5,20		41:12 42:1,5

HULU EXHIBIT 1081 Page 212 of 227

44:25 45:6 47:9	portions 127:22	preparation 24:23	previously 24:2
49:11 50:15 59:11	128:14,16 129:23	25:11,21 26:22	81:21
75:2,19 79:25	130:7 131:17	65:5	primarily 39:20
83:18 87:9 96:15	132:11 133:20	prepare 24:15	51:10
101:22 125:13	143:8 145:2,14,19	prepared 19:14	primary 37:2,2
128:15 142:6	147:12 151:21	26:6 67:10	65:17 89:8
146:22 154:18,24	152:4,5,6,8,13,15	preparing 24:13	prime 49:20
159:25 160:20	152:24 153:14,15	present 3:16 28:18	principal 31:8
161:13 162:9	153:17 154:8,10	145:2 172:10	40:2
170:10 183:8	154:14 155:15,18	183:15,16	prior 13:12,15
pointed 164:18	155:19 156:6,6,11	presentation	20:21 42:2 57:8
165:21 167:5	159:22,24 160:2,4	128:12 145:3	68:17,20,23 83:14
pointing 74:6 75:4	161:3	147:23 148:8,12	92:11 111:12
127:15 179:21	ports 63:24	148:14,25 149:18	112:3 121:17,19
points 57:10 158:3	posed 111:20	149:19 150:9,12	122:11,14 140:12
159:9	posita 66:11,13,17	150:22 156:22	158:13,24 159:8
popped 17:24	66:20 67:7,12	164:6 165:23	174:18 177:10
pops 14:4 16:9	169:16 173:13	178:17,20 179:2	186:7
populated 135:4,9	178:25 181:22	179:10 181:22,23	priority 33:18,19
135:22	182:1	182:7	67:22 121:16,18
portion 35:8 56:3	position 29:21	presentations	122:5 178:4
83:2,4 123:25	30:8,17 61:14	147:22 148:6	private 6:13
124:6 127:22,22	positions 33:4	149:25	probably 8:14
128:24 129:7,14	possibilities 66:19	presented 35:13	28:15 48:5 56:14
130:1,11,13,16,18	possible 47:9	133:22	58:2 72:5 83:16
137:2,11,12	66:17 84:22 111:9	president 30:15,21	97:22 109:5
138:14 139:2	117:15 124:22	30:24 47:23 48:13	157:18 167:20
142:25 143:7	143:5 152:10	pressed 37:17,20	175:20
144:24,24 145:7,7	182:23	pretty 9:19 67:8	problem 14:14
145:9,9,11,11,13	possibly 148:15	132:12 162:9	70:5 87:5 138:24
145:20 151:21,24	164:2	prevailing 115:8	167:9 175:7
152:1,15,16,19,20	post 28:8	115:21 116:22	problems 49:25
153:4,6,8,12,17,18	potentially 38:11	preview 86:22	procedure 187:19
153:23 154:3,9,20	94:24 104:14,15	88:6,22,24 89:11	187:20
155:4,5,11,12,15	preamble 76:17	89:13,15,20,25	proceed 21:16
155:23,24 156:13	predate 121:18	90:3,23 91:9	36:19
157:17 160:10,13	predefined 82:11	previewing 86:15	proceeding 6:20
160:13 161:4	preference 75:5	89:7	15:24 26:7,8 58:9
168:13	preliminary 5:4	previous 84:2	121:14
portioned 154:12	59:9,24 60:10	130:10	proceedings 12:23
	170:14		27:22 29:13 55:25

HULU EXHIBIT 1081 Page 213 of 227

94:3 186:5,7,9,15	154:4,8,9,11,14	provide 46:1	purportedly 108:5
process 29:18	156:18,22 160:10	54:25 66:16 73:19	purposes 118:5
31:20 57:3,6	160:10,12,13,15	98:6 101:3 125:11	155:13 171:20
77:20 79:14 120:2	160:19 161:8,11	177:24	172:3
136:3,8 145:1	161:25 162:3,3,6	provided 34:24	pursuant 11:25
product 48:19	162:10,11,20,24	43:10 46:17 48:10	12:8,15
76:24	163:8,9,12,14,22	53:19 54:10,20,21	pushing 155:21
products 38:12,13	164:1,10,11,12,19	187:19 188:8	put 109:21 110:4
professionally	164:21,22 165:5,8	provider 71:17	111:2,3 121:1
29:17	165:10,15,20,23	providers 48:9	129:20 147:16
profile 52:6	166:1,2,7,10,11,12	provides 86:3	166:3 170:16
100:24	166:22,24,25	95:23 97:4 141:19	putting 109:15
program 35:16,19	167:6,10,15	171:18	q
35:25 36:1,2,4	programmed	providing 31:19	
39:1 40:6,8,11,12	182:16	49:15 50:3 71:17	qam 35:9
40:17,20,23,24	programmer	89:4 124:20	qualified 54:15 qualify 55:20,24
41:5,10,13,20,23	182:25	141:18,20	quality 49:14 50:1
41:25 42:1,11,25	programs 36:24	provisional 181:16	quality 49.14 50.1 50:5,7,8 62:21
43:3,17,25 44:21	36:25 47:6 146:9	proviso 73:9	124:10,23 125:1,7
45:2,5,7,13,15,17	148:25 149:17,25	proxy 120:9	question 9:4,5,23
45:20,22 46:7,13	162:14 163:5,16	ptab 172:19	9:24 19:22 20:24
46:17,20,24 47:19	163:19,22 167:1,4	public 64:17,20	21:13,21,22 38:25
115:8,14,21 116:1	project 33:24 34:8	publication 5:9	44:8 55:6 56:19
127:21,23 128:3	39:25 48:20	93:25	59:15 64:4 70:20
128:11,14 130:7	projects 50:4	publications 51:24	71:24,25 90:21
130:12,22,24	property 28:24	52:3	99:13 110:16,21
132:11 133:19	29:3,4	publicly 72:24,24	110:24 111:14,23
134:7,11,14,16,18	proposed 63:16	published 122:20	130:6 135:18
134:25 135:3,4,9	168:23,25 169:8	publisher 161:25	142:19 159:2
135:21 136:2	171:19 172:3,14	162:2	161:9 169:5.24
143:2 144:24	proprietary 77:1	pull 79:8,12 85:3	170:1 172:12,13
145:10,12,13,14	protected 70:21	125:3 126:7,20	174:8,16 177:16
145:16,17,20,20	protocol 32:11	170:17	177:17 181:8,10
145:21 146:9,12	35:24 41:17 63:3	pulling 79:14 87:6	questions 27:23
146:13,14,21	63:19 64:9 79:7,8	107:18	53:3 84:6,9,11
147:1,3,10,24	104:1 106:2 109:4	purchase 86:22	93:10 111:13,19
148:3,5,8,18 149:6	109:6 111:3	88:1,5,10,10,13,17	141:6 169:21
151:2,4,7,9,11,14	protocols 30:4,11	89:6,15 90:15,24	175:1 178:11
151:17,22,25	32:20 63:10 72:2	91:7,12,13	181:7 183:6 184:1
152:1,6,14,17	prove 154:24	purchaser 90:18	184:12
153:10,10,19			

HULU EXHIBIT 1081 Page 214 of 227

[quick - remember]

quick 138:20	realnetwork 74:2	92:19,22 112:10	referring 23:22
158:21 183:4	74:8,12,18,21	112:14,17 167:23	41:9 81:23 91:4
quickly 158:23	75:18 76:10,14,21	168:1,4 184:5,6,9	98:24 127:24
169:14 175:18	77:2	184:14,16 186:8	137:10 157:8
quicktime 74:3	realtime 135:17	186:11	163:15 165:1,3
76:21,25 77:9,13	reason 56:5 62:1	recorded 6:7 8:24	refers 40:6 100:17
77:21,23,24	68:5 87:1 108:7	recording 6:15	reflection 108:8
quit 87:3	142:23 154:7	redirection 120:7	reflects 113:18
quite 45:22 54:16	155:20,25 156:12	redirector 96:24	refreshed 26:3
54:25 63:11 71:14	166:24 173:16	97:6 107:7,14,22	refuse 75:24
127:14 132:20	174:9 176:4,21	110:3	regarding 19:22
181:1,3 182:5	189:6,9,12,15,18	ref 102:18 103:21	115:6 157:25
quote 133:4	189:21	104:13,23 105:20	183:20
178:18	reasoning 174:14	refer 13:6 14:25	regardless 75:12
quoting 137:25	reasons 18:18	16:16 18:9 22:21	region 100:23
	177:9	23:8,21 26:2 43:4	regular 9:19
r	recall 56:25 61:2	61:24 66:14 69:2	relate 34:8 138:10
r 189:3,3	65:11 109:19	127:19 175:12	related 14:21 26:7
r&d 1:7 2:7 6:8	177:20	reference 52:7	31:22 40:9 48:4
13:3 187:4 189:1	recap 102:25	68:23 69:3,3,7,14	54:22 57:10 61:10
r&s 188:1,9	receipt 37:16	70:10 79:7 83:10	66:21 113:23
ranging 177:16	143:21	83:14 84:1 93:6	131:4 149:18
rate 63:25	receive 133:19	93:15 94:7 105:15	relates 40:17,19
rating 161:23	143:16	114:8 125:14	relation 20:10
read 24:20 29:3	received 35:10	134:23 137:22	84:11
44:19 57:7 62:7	140:20	134.23 137.22	relative 186:18
62:11 77:15 127:2	receives 79:12	181:17	relay 30:5 33:3
141:9,11,14 148:9	134:6	referenced 58:9	released 187:21
158:3 185:4	recess 52:19 92:21	58:13 74:18 79:24	relevant 31:17
reader 87:2	112:16 168:3	102:7 129:6	32:3,8,23 48:6
reading 141:5	112.10 108.3	136:21 187:6	161:24
187:23 188:9	recognize 11:6,7	references 20:22	relied 59:4 97:18
real 74:9 75:20,24	14:8 16:13 18:4	68:17,21 74:9,15	relies 71:10 73:6
76:13 117:14	22:17 23:5,17	75:18,19 109:7	73:11
139:20,20	recollection	164:9 169:17	rely 40:13 65:2,6
really 21:4 45:22	177:13	172:22	97:19 158:9
51:6 72:10 113:13	record 6:5,15 7:14	referencing	remember 10:10
147:22 148:5	9:13 10:2 12:22	123:23 131:3	25:3 54:19 59:16
149:11 152:23	15:19 17:13 27:20	referred 24:19	60:19,20 61:12
154:10 182:24	28:1 52:16,17,20	31:2 58:1 124:15	63:6 116:23
183:4	55:3 85:24 92:17	164:16	118:18
	55.5 05.24 72.17	104.10	110.10
	55.5 65.24 72.17	104.10	110.10

HULU EXHIBIT 1081 Page 215 of 227

[remembered - right]

remembered 44:6	142:25 143:1	requirements	retrieve 114:10
remembering	144:4 146:9,11	129:21	retrieving 142:11
44:13	151:8,9 152:14,14	research 27:1 30:2	return 73:18 74:1
remind 50:11	158:16,17,18	30:3	77:10 82:5 187:17
87:13	159:3,3,15,16,19	reservation 63:18	188:6
remote 7:25 8:2	161:7 165:14,15	90:3,6,17,17,22,23	returned 74:21
35:25 38:18,22	165:20,20,22,25	91:5 137:5 139:9	78:18
remotely 6:11	166:6,6,22 167:15	139:10,11,14,15	returns 144:5
7:24	180:23	168:18,18 171:12	review 5:4,11
repeat 79:13	requested 36:16	171:12,23 172:1	24:12 25:24 26:10
158:20,23	36:19 39:11,13,23	174:24 176:11,14	26:11,13,18 58:8
replying 22:1	42:24 55:3 90:14	176:16,18 180:2	59:9 61:4,5,9,16
report 53:20 57:1	100:5,8 106:17,25	reserve 55:4 63:22	61:23 177:24
57:4,14,16,19,22	108:22 110:1,5	reserved 183:10	183:12 186:15
59:21 173:15,21	120:18 123:15	resource 63:18	187:8,10,13 188:2
183:8	125:11 127:21,23	137:6 138:13	reviewed 24:2
reported 1:22	128:24 129:7,14	resources 63:23	58:25 59:12 60:2
reporter 2:22 6:18	129:16,17,23	97:18,19	61:2,7,24 168:23
9:12 70:2 186:4	133:10 134:12	respect 91:8	169:6
reporter's 186:1	137:3,12,17	respond 37:13	reviewer 29:1
reports 55:15	141:25 143:7,9,14	43:1,9,13	reviewing 24:16
67:10	144:23 145:10	response 5:4 39:12	60:19,21
represent 29:12	152:16 153:8,9	59:10 60:10,22,23	rewinding 36:12
59:23 157:20	155:4,5 156:18	61:1 97:2 136:22	right 8:18 10:13
172:7	157:18 161:2,3	responses 59:12	10:15 11:5,11
represented 98:19	166:9 186:16	59:24	13:22 19:20 33:6
representing 6:24	188:1,9,10	rest 178:19	48:19 55:5 58:17
7:1	requesting 35:23	restrictions	68:19,20 76:16
reproduced 99:1	36:10 42:12 78:17	135:14	78:5 84:25 87:4
request 9:22 35:24	81:12 90:12 95:25	result 78:22	87:21 92:16
35:25 37:16 41:23	119:1 159:14	128:20 183:18	106:13,13 125:4
43:1,3 79:21 80:1	requests 37:11	results 80:16,21	126:4,4,16 127:13
80:5,21 81:21,22	72:8 73:17 90:10	80:22 128:18	129:15,16 135:19
82:2,21,23 88:13	95:24 107:6,17,18	resume 4:24 37:17	137:24 143:24
95:19,24 96:6,7,23	121:4	37:21,24 42:19	144:14 148:13
97:3 116:12	require 139:21	43:13,18 44:22	150:6,21 151:14
119:11 120:12,22	168:17 171:11	55:5,6 117:15	153:6,19 156:19
125:1 126:14	required 9:4	resumed 118:8	157:4 158:14
127:25 128:2,2,10	121:17	retained 13:9	161:5,14 163:19
128:11,17 133:19	requirement	59:17 68:12	164:19 165:17
134:6,9 140:21	54:14 129:22		174:4 176:10

Page 27

HULU EXHIBIT 1081 Page 216 of 227

183:10 saying 21:23 76:4 168:18 169:15,16 144:19 148:9,24 rights 111:8,8 91:11 105:6,18 170:3,4 171:12,16 168:16 171:5,7 rm 75:21 110:17 133:16 171:17 172:20 178:8 roadrunner 30:13 134:2 136:11 173:14 174:21 sections 21:17 30:16 48:9,19,20 140:15 143:24 179:14 181:24 26:21 29:2 92:11 48:25 49:1,24 145:4 163:25 secrolling 58:17 stoins 21:17 rock 80:9 182:1 scrolling 58:17 stoins 51:17 role 30:21 34:2 says 33:13 100:21 search 69:17 securer 71:14 89: 47:22 48:1,4,12,16 101:15:21 125:25 70:13 71:5,11,5 security 71:14 89: roles 28:13 31:12 133:21 143:6,13 78:19,22 79:20 10:24 11:7 18:7 31:16 33:21,23 139:23 141:22 80:1,15,18,21 22:6 27:14 33:6 51:14 56:6,22 rollowers 63:21 161:16,20 56:12 165:16 56:12 165	178:10 181:11	saw 33:12 61:18	143:18 144:5	122:17 123:7,13
rights 111:8,8 91:11 105:6,18 170:3,4 171:12,16 168:16 171:5,7 rm 75:21 110:17 133:16 171:17 172:20 178:8 roadrunner 30:13 134:2 136:11 173:14 174:21 sections 21:17 30:16 48:9,19,20 140:15 143:24 179:14 181:24 26:21 29:2 92:11 rock 80:9 182:1 scrolling 58:17 113:10 122:15 rock 80:9 182:1 scrolling 58:17 secure 71:14 89:3 47:22 48:1,4,12,16 101:15,21 125:25 70:13 71:5,11,15 security 71:4 89:3 role 28:13 31:12 133:4 134:6,13 78:19,22 79:20 10:24 11:7 18:7 rollover 106:2 147:23 160:25 161:16,20 56:21 58:16,22,2 rollover 106:2 147:23 160:25 161:16,20 56:24 598:11 rollover 106:2 147:23 160:25 161:16,20 56:21 58:16,22,2 rouma 68:18,21 171:16,19 172:2 73:6,10 68:23 69:22 73:2 rouma				
rm 75:21 110:17 133:16 171:17 172:20 178:8 roadrunner 30:13 134:2 136:11 173:14 174:21 sections 21:17 30:16 48:9,19,20 140:15 143:24 179:14 181:24 26:21 29:2 92:11 48:25 49:1,24 145:4 163:25 182:4,5,10 111:12,15,17 rock 80:9 182:1 scrolling 58:17 sccure 71:14 89: 47:22 48:1,4,12,16 101:15,21 125:25 70:13 71:5,11,15 security 71:4 a8:18 49:4 120:5 130:24 131:23 71:18,19 72:21,22 30:24 137 18:7 roles 28:13 31:12 133:4 134:6,13 78:19,22 79:20 10:24 11:7 18:7 si1:6 33:21,23 139:23 141:22 80:1,15,18,21,21 22:6 27:14 33:6 51:14 86:21 rollover 106:2 147:23 160:25 161:16,20 56:21 58:16,22,2 round 68:18,21 161:22,24 171:11 searchable 72:24 60:5,7 61:20 routers 63:21 scale 40:12 78:21 80:8,16 85:12 86:6,12,17 73:5 81:1 100:21,25 100:2 rp 128:18		• •	,	
roadrunner 30:13 134:2 136:11 173:14 174:21 sections 21:17 30:16 48:9,19,20 140:15 143:24 179:14 181:24 26:21 29:2 92:11 48:25 49:1,24 145:4 163:25 scrolling 58:17 113:10 12:15 rock 80:9 182:1 scrolling 58:17 secure 71:14 89: 47:22 48:1,4,12,16 101:15,21 125:25 70:13 71:5,11,15 secure 71:44 89: 47:23 48:1,4,12,16 101:15,21 125:25 70:13 71:5,11,15 secure 71:14 89: security 71:4 31:16 33:21,23 139:23 141:22 80:1,15,18,21,21 22:6 27:14 33:6 51:14 86:21 142:7 146:27,24 81:7,24 97:22 30:11 49:19 50:1 rollover 106:2 147:23 160:25 161:16,20 56:21 58:16,22,2 56:21 58:16,22,2 57:12 60:5,7 61:20 56:21 58:16,22,2 57:12 73:6,10 68:23 69:22 73:2 56:21 58:16,22,17 56:21 58:16,22,17 56:21 58:16,22,12 73:5 81:1 100:21,25 10:12,17 56:21 58:16,22,10 51:12 56:22 63:11 100:21,25 10:12,17 56:22 63:11 100:21,25 10:12,17	8	,	· · · · ·	· · · · · ·
30:16 48:9,19,20 140:15 143:24 179:14 181:24 26:21 29:2 92:11 48:25 49:1,24 145:4 163:25 182:4,5,10 111:12,15,17 rock 80:9 182:1 scrolling 58:17 113:10 122:15 rock 80:9 182:1 scrolling 58:17 113:10 122:15 rock 80:9 182:1 scrolling 58:17 secure 71:14 89: 47:22 48:1,4,12,16 101:15,21 125:25 70:13 71:5,11,15 security 71:4 48:18 49:4 120:5 130:24 131:23 71:18,19 72:21,22 security 71:4 70:13 31:12 133:4 134:6,13 78:19,22 79:20 10:24 11:7 18:7 71:14 86:21 142:7 146:2,7,24 81:7,24 97:22 33:11 49:19 50:1 rollover 106:2 147:23 160:25 161:16,20 56:21 58:16,22,2 roman 68:18,21 161:22,24 171:11 searchabe 72:24 60:5,7 61:20 rowits scale 40:12 78:21 80:8,16 85:12 86:6,12,17 rowit 41:2 123:25 142:2,13 73:5 81:1 100:21,25 101:2 rp 1:23 186:25 155:14 180:17 14:12 49:16 60:8 103:13,16 104:4 rsyp 62:13,17,18				
48:25 49:1,24 145:4 163:25 182:4,5,10 111:12,15,17 rock 80:9 182:1 scrolling 58:17 113:10 122:15 role 30:21 34:2 says 33:13 100:21 search 69:17 secure 71:14 89: 47:22 48:1,4,12,16 101:15,21 125:25 70:13 71:5,11,15 secure 71:14 89: role 32:13 31:12 133:4 134:6,13 78:19,22 79:20 10:24 11:7 18:7 31:16 33:21,23 139:23 141:22 80:1,15,18,21,21 22:6 27:14 33:6 51:14 86:21 142:7 146:2,7,24 81:7,24 97:22 33:11 49:19 50:1 rollover 106:2 147:23 160:25 161:16,20 56:21 58:16,22,2 roman 68:18,21 161:22,24 171:11 searchable 72:24 60:5,7 61:20 138:25 178:8 171:16,19 172:2 73:6,10 68:23 69:22 73:2 row 141:2 123:25 142:2,13 73:5 81:1 100:21,25 101:2 rp 1:28:18 143:25 144:1 second 10:9 11:1 102:5,6,22 103:1 rp 1:23:186:25 155:14 180:17 14:12 49:16 60:8 103:13,16 104:4 rswp 62:13,17,18 scenarios 142:24 60:16 67:1 79:3 105:17,18 110:1 64:21,00,16,21 156:2 165:16 79:20 80:3 397:25				
rock 80:9 182:1 scrolling 58:17 113:10 122:15 role 30:21 34:2 says 33:13 100:21 search 69:17 secure 71:14 89: 47:22 48:14,41,21,16 101:15,21 125:25 70:13 71:15,11,15 security 71:4 89: roles 28:13 31:12 133:4 134:6,13 78:19,22 79:20 10:24 117:18,19 92:21,22 see 10:8,15,19,21 roles 28:13 31:12 139:23 141:22 80:1,15,18,21,21 22:6 27:14 33:6 51:14 86:21 142:7 146:2,7,24 81:7,24 97:22 33:11 49:19 50:1 rolover 106:2 147:23 160:22 73:6,10 68:23 69:22 73:2 routers 63:21 scale 40:12 searchable 72:24 74:4 78:9 79:22 routers 63:21 sciff,17 secenario 123:22				
role 30:21 34:2 says 33:13 100:21 search 69:17 secure 71:14 89: 47:22 48:14,4,12,16 101:15,21 125:25 70:13 71:15,11,15 security 71:4 89: a8:18 49:4 120:5 130:24 131:23 71:18,19 72:21,22 see 10:24 11:7 18:7 31:16 33:21,23 139:23 141:22 80:1,15,18,21,21 22:6 27:14 33:6 51:14 86:21 142:7 146:2,7,24 81:7,24 97:22 33:11 49:19 50:1 rollover 106:2 147:23 160:25 161:16,20 56:21 58:16,22,2 routers 63:21 scale 40:12 78:21 80:8,16 85:12 86:25 98:11 row 141:2 123:25 142:21 73:5 81:1 100:21,25 10:21 routers 63:21 scale 123:12 73:5 81:1 100:21,25	,			
47:22 48:1,4,12,16 101:15,21 125:25 70:13 71:5,11,15 security 71:4 48:18 49:4 120:5 130:24 131:23 71:18,19 72:21,22 see 10:8,15,19,21 roles 28:13 31:12 133:4 134:6,13 78:19,22 79:20 10:24 11:7 18:7 31:16 33:21,23 139:23 141:22 80:1,15,18,21,21 22:6 27:14 33:6 51:14 86:21 142:7 146:2,7,24 81:7,24 97:22 33:11 49:19 50:1 rollover 106:2 147:23 160:25 161:16,20 56:21 58:16,22,2 roman 68:18,21 161:22,24 171:11 searchable 72:24 60:5,7 61:20 138:25 178:8 171:16,19 172:2 73:6,10 68:23 69:22 73:2 routers 63:21 scale 40:12 78:21 80:8,16 85:12 86:61,2,17 64:21,24 scenario 123:22 searching 72:22 86:25 98:11 row 141:2 123:25 142:2,13 73:5 81:1 100:21,25 101:2 rp 128:18 143:25 144:1 second 10:9 11:1 102:5,6,22 103:1 rwn 44:2 123:25 142:2,13 79:20 80:23 97:25 111:12 121:12 64:21,0,10,16,21 156:2 165:16 79:20 80:23 97:25 111:12 121:12 64:22,23 schedule 187:10 98:17 100:6 <			e	
48:18 49:4 120:5 130:24 131:23 71:18,19 72:21,22 see 10:8,15,19,21 roles 28:13 31:12 133:4 134:6,13 78:19,22 79:20 10:24 11:7 18:7 31:16 33:21,23 139:23 141:22 80:1,15,18,21,21 22:6 27:14 33:6 51:14 86:21 142:7 146:2,7,24 81:7,24 97:22 33:11 49:19 50:1 rollover 106:2 147:23 160:25 161:16,20 56:21 58:16,22,2 roman 68:18,21 161:22,24 171:11 searchable 72:24 60:5,7 61:20 138:25 178:8 171:16,19 172:2 73:6,10 68:23 69:22 73:2 routers 63:21 scele 40:12 searches 26:24,24 74:4 78:9 79:22 row 141:2 123:25 142:2,13 73:5 81:1 100:21,25 101:2 rp 128:18 143:25 144:1 second 10:9 11:1 100:21,25 101:2 rp 128:18 143:25 144:1 second 10:9 11:1 100:25,6,22 103:1 rtms 128:18 schedule 187:10 98:17 100:6 123:10 124:24 64:22,23 schedule 187:10 98:17 100:6 123:10 124:24 rtms 128:18 science 28:6 66:21 103:22 107:13 126:16 127:13,2 rtms 128:18 science 28:6 66:21 103:22 107:13 12		v		
roles28:13 31:12133:4 134:6,1378:19,22 79:2010:24 11:7 18:731:16 33:21,23139:23 141:2280:1,15,18,21,2122:6 27:14 33:651:14 86:21142:7 146:2,7,2481:7,24 97:2233:11 49:19 50:1rollover106:2147:23 160:25161:16,2056:21 58:16,22,2roman68:18,21161:22,24 171:11searchable72:24138:25 178:8171:16,19 172:273:6,1068:23 69:22 73:2routers63:21scale40:1278:21 80:8,1664:21,24scenario123:22searching72:22row141:2123:25 142:2,1373:5 81:1100:21,25 101:2rp128:18143:25 144:1second10:9 11:1102:5,6,22 103:1rp123 186:25155:14 180:1714:12 49:16 60:8103:13,16 104:4rsvp62:13,17,18scenarios142:2460:16 67:1 79:3105:17,18 110:164:2,10,10,16,21156:2 165:1679:20 80:23 97:25111:12 121:1264:22,23schedule187:1098:17 100:6123:10 124:24rtms128:18science28:6 66:21103:22 107:13126:16 127:13,2139:1566:22 67:14110:20 111:4,11134:3 136:18rtsms134:6scope75:8113:7 123:16140:5 155:8 162rules8:21 54:15screen14:4 16:10124:7 126:1164:1,8 167:9135:14 188:8105:6,7,8 126:21128:25 133:11172:5 173:25runs121:10127:1 133:24135:				l l
31:16 33:21,23 139:23 141:22 80:1,15,18,21,21 22:6 27:14 33:6 51:14 86:21 142:7 146:2,7,24 81:7,24 97:22 33:11 49:19 50:1 rollover 106:2 147:23 160:25 161:16,20 56:21 58:16,22,2 roman 68:18,21 161:22,24 171:11 searchable 72:24 60:5,7 61:20 138:25 178:8 171:16,19 172:2 73:6,10 68:23 69:22 73:2 179:21,23 173:12 searches 26:24,24 74:4 78:9 79:22 routers 63:21 scale 40:12 78:21 80:8,16 85:12 86:6,12,17 64:21,24 scenario 123:22 searching 72:22 86:25 98:11 row 141:2 123:25 142:2,13 73:5 81:1 100:21,25 101:2 rp 128:18 143:25 144:1 second 10:9 11:1 102:5,6,22 103:1 rpr 1:23 186:25 155:14 180:17 14:12 49:16 60:8 103:13,16 104:4 rsvp 62:13,17,18 scenarios 142:24 60:16 67:1 79:3 105:17,18 110:1 64:2,10,10,16,21 156:2 165:16 79:20 80:23 97:25 111:12 121:12 64:22,23 schedule 187:10 98:17 100:6 123:10 124:24 rtms 128:18 science 28:6 66:21 103:22 107:13 126:16 127:13				
51:14 86:21 142:7 146:2,7,24 81:7,24 97:22 33:11 49:19 50:1 rollover 106:2 147:23 160:25 161:16,20 56:21 58:16,22,2 roman 68:18,21 161:22,24 171:11 searchable 72:24 60:5,7 61:20 138:25 178:8 171:16,19 172:2 73:6,10 68:23 69:22 73:2 179:21,23 173:12 searchable 72:24 60:5,7 61:20 64:21,24 scele 40:12 78:21 80:8,16 85:12 86:6,12,17 64:21,24 scenario 123:22 searching 72:22 row 141:2 123:25 142:2,13 73:5 81:1 100:21,25 101:2 rp 123:18 143:25 144:1 second 10:9 11:1 102:5,6,22 103:1 rp 123:18 143:25 144:1 second 10:9 11:1 102:5,6,22 103:1 rp 123:17,18 scenarios 142:24 60:16 67:1 79:3 105:17,18 110:1 64:2,10,10,16,21 156:2 165:16 79:20 80:23 97:25 111:12 121:12 124:24 rtms 128:18 science 28:6 66:21 103:22 107:13 126:16 127:13,2 139:15 66:22 67:14		,	· · · · · · · · · · · · · · · · · · ·	
rollover106:2147:23 160:25161:16,2056:21 58:16,22,2roman68:18,21161:22,24 171:11searchable72:2460:5,7 61:20138:25 178:8171:16,19 172:273:6,1068:23 69:22 73:2routers63:21scale40:1278:21 80:8,1685:12 86:6,12,1764:21,24scenario123:22searching72:2286:25 98:11row141:2123:25 142:2,13rascond10:9 11:1100:21,25 101:2rp128:18143:25 144:1second10:9 11:1102:5,6,22 103:1rp1:23 186:25155:14 180:1714:12 49:16 60:8103:13,16 104:4rsvp62:13,17,18scenarios142:2460:16 67:1 79:3105:17,18 110:164:2,10,10,16,21156:2 165:1679:20 80:23 97:25111:12 121:1264:22,23schedule187:1098:17 100:6123:10 124:24rtms128:18science28:6 66:21103:22 107:13126:16 127:13,2139:1566:22 67:14110:20 111:4,11134:3 136:18runes121:10127:1 133:24128:12,25 133:11172:5 173:25script126:11,15138:3,7 147:6181:14s128:11,22 129:17,7150:17 160:25seen11:2,9 26:126:1 10:3137:16,20,2262:2,8 66:7,9518:20segment123:15,satisfied130:11138:4,7 12 139:163:21 170:1961:11,14 67:9124:2063:18,21 84:1 3 10124:2964:12,2464:12,2464:12,24<	,			
roman68:18,21161:22,24 171:11searchable72:2460:5,7 61:20138:25 178:8171:16,19 172:273:6,1068:23 69:22 73:2179:21,23173:12searches26:24,2474:4 78:9 79:22routers63:21scale40:1278:21 80:8,1685:12 86:6,12,1764:21,24scenario123:22searching72:2286:25 98:11row141:2123:25 142:2,1373:5 81:1100:21,25 101:2rp128:18143:25 144:1second10:9 11:1102:5,6,22 103:1rp1:23 186:25155:14 180:1714:12 49:16 60:8103:13,16 104:4svp62:13,17,18scenarios142:2460:16 67:1 79:3105:17,18 110:164:2,0,10,16,21156:2 165:1679:20 80:23 97:25111:12 121:1264:22,23schedule187:1098:17 100:6123:10 124:24rtms128:18science28:6 66:21103:22 107:13126:16 127:13,2139:1566:22 67:14110:20 111:4,11134:3 136:18rtms134:6scope75:8113:7 123:16140:51 55:8 162rules8:21 54:15127:1 133:24135:12,25 133:11172:5 173:25139:15126:17,12 131:5128:21,22 129:1,7150:17 160:25seen112:9 26:12sscript126:11,15138:3,7 147:6181:14s189:3136:17,20,21,24136:17,20,21,24section58:14 59:561:11,14 67:9salida1:19 2:20136:17,20,21,24136:1		· · ·	,	
138:25 178:8171:16,19 172:273:6,1068:23 69:22 73:2179:21,23173:12searches26:24,2474:4 78:9 79:22routers63:21scale40:1278:21 80:8,1685:12 86:6,12,1764:21,24scenario123:22searching72:2286:25 98:11row141:2123:25 142:2,1373:5 81:1100:21,25 101:2rp128:18143:25 144:1second10:9 11:1102:5,6,22 103:1rp1:23 186:25155:14 180:1714:12 49:16 60:8103:13,16 104:4rsvp62:13,17,18scenarios142:2460:16 67:1 79:3105:17,18 110:164:2,10,10,16,21156:2 165:1679:20 80:23 97:25111:12 121:1264:22,23schedule187:1098:17 100:6123:10 124:24rtsms134:6scope75:8113:7 123:16140:5 155:8 162rules8:21 54:15screen14:4 16:10124:7 126:1164:1,8 167:9135:14 188:8105:6,7,8 126:21128:25 133:11172:5 173:25runs121:10127:1 133:24135:12,25 137:12174:7 179:4s128:17,20,21,24136:17,20,21,24136:21 170:1961:11,14 67:9s136:17,20,21,24137:16,20,2262:2,8 66:7,918:20satisfied130:11138:47 12 139:163:22 170:19118:20s137:16,20,2262:2,8 66:7,918:20segments123:15138:17,20,21,24138:44 13 10124:9			· · · · · · · · · · · · · · · · · · ·	
179:21,23173:12searches26:24,2474:4 78:9 79:22routers63:21scale40:1278:21 80:8,1685:12 86:6,12,1764:21,24scenario123:22searching72:2286:25 98:11row141:2123:25 142:2,1373:5 81:1100:21,25 101:2rp128:18143:25 144:1second10:9 11:1102:5,6,22 103:1rp1:23 186:25155:14 180:1714:12 49:16 60:8103:13,16 104:4rsvp62:13,17,18scenarios142:2460:16 67:1 79:3105:17,18 110:164:2,10,10,16,21156:2 165:1679:20 80:23 97:25111:12 121:1264:22,23schedule187:1098:17 100:6123:10 124:24rtms128:18science28:6 66:21103:22 107:13126:16 127:13,2139:1566:22 67:14110:20 111:4,11134:3 136:18rtsms134:6scope75:8113:7 123:16140:5 155:8 162rules8:21 54:15screen14:4 16:10124:7 126:1164:1,8 167:9135:14 188:8105:6,7,8 126:21128:25 133:11172:5 173:25runs121:10127:1 133:24135:12,25 137:12174:7 179:4s189:3128:21,22 129:1,7150:17 160:25seen11:2,9 26:126:1 10:3136:17,20,21,24136:17,20,21,24163:21 170:1961:11,14 67:9satisfied130:11138:4 7 12 139:162:2,8 66:7,918:20settion58:14 59:5118:20segment123:15,	,	,		· · · · · · · · · · · · · · · · · · ·
routers63:21scale40:1278:2180:8,1685:1286:6,12,1764:21,24scenario123:22searching72:2286:2598:11row141:2123:25142:2,1373:581:1100:21,25101:2rp128:18143:25144:1second10:911:1102:5,6,22103:1rp1:23186:25155:14180:1714:1249:1660:8103:13,16104:4rsvp62:13,17,18scenarios142:2460:1667:179:3105:17,18100:11:2121:1264:2,10,10,16,21156:2165:1679:2080:2397:25111:12121:12123:10124:24rtms128:18science28:666:21103:22107:13126:16127:13,2139:1566:2267:14110:20111:4,11134:3136:18rtms134:6scope75:8113:7123:16140:5155:8162rules8:2154:15screen14:416:10124:7126:1164:1,8167:9135:14188:8105:6,7,8126:21128:25133:11172:5173:25111:12127:155:14sscript126:11,15138:3,7147:6181:14seen112:961:11,1467:9sscript126:17,20,21,24section58:1459:5118:2061:11,1467:9salida1:19		,	,	
64:21,24 row 141:2scenario 123:22 123:25 142:2,13searching 72:22 73:5 81:186:25 98:11 100:21,25 101:2rp 128:18 rp 1:23 186:25143:25 144:1 155:14 180:17second 10:9 11:1 14:12 49:16 60:8103:13,16 104:4 10:9 11:1rsvp 62:13,17,18 64:2,10,10,16,21155:14 180:17 156:2 165:16141:2 49:16 60:8 79:20 80:23 97:25105:17,18 110:1 10:664:22,23 rtms 128:18 139:15schedule 187:10 66:22 67:1498:17 100:6 103:22 107:13126:16 127:13,2 126:16 127:13,2139:15 135:14 188:8 135:14 188:8science 28:6 66:21 105:6,7,8 126:21103:22 107:13 128:25 133:11126:16 127:13,2 128:25 133:11rules 8:21 54:15 135:14 188:8screen 14:4 16:10 124:7 126:1124:7 126:1 164:1,8 167:9164:1,8 167:9 135:12,25 137:12s s s salida 1:19 2:20 6:1 10:3 satisfied 130:11128:21,22 129:1,7 138:47 12 139:1150:17 160:25 138:14 59:5seen 11:2,9 26:12 136:17,20,21,24s satisfied 130:11137:16,20,22 138:47 12 139:168:18 21 84:1 3 10 124:9124:9			· · · · · · · · · · · · · · · · · · ·	
row141:2123:25 142:2,1373:5 81:1100:21,25 101:2rp128:18143:25 144:1second10:9 11:1102:5,6,22 103:1rpr1:23 186:25155:14 180:1714:12 49:16 60:8103:13,16 104:4rsvp62:13,17,18scenarios142:2460:16 67:1 79:3105:17,18 110:164:2,10,10,16,21156:2 165:1679:20 80:23 97:25111:12 121:1264:22,23schedule187:1098:17 100:6123:10 124:24rtms128:18science28:6 66:21103:22 107:13126:16 127:13,2139:1566:22 67:14110:20 111:4,11134:3 136:18rules8:21 54:15screen14:4 16:10124:7 126:1164:1,8 167:9135:14 188:8105:6,7,8 126:21128:25 133:11172:5 173:25runs121:10127:1 133:24135:12,25 137:12174:7 179:4sscript126:11,15138:3,7 147:6181:14s189:3128:21,22 129:1,7150:17 160:25seensalida1:19 2:20136:17,20,21,24section58:14 59:5118:206:1 10:3salifed130:11138:4 7 12 139:1123:15, 123:15, 138:12124:9				, ,
rp128:18143:25 144:1second10:9 11:1102:5,6,22 103:1rpr1:23 186:25155:14 180:1714:12 49:16 60:8103:13,16 104:4rsvp62:13,17,18scenarios142:2460:16 67:1 79:3105:17,18 110:164:2,10,10,16,21156:2 165:1679:20 80:23 97:25111:12 121:1264:22,23schedule187:1098:17 100:6123:10 124:24rtms128:18science28:6 66:21103:22 107:13126:16 127:13,2139:1566:22 67:14110:20 111:4,11134:3 136:18rtms134:6scope75:8113:7 123:16140:5 155:8 162rules8:21 54:15screen14:4 16:10124:7 126:1164:1,8 167:9135:14 188:8105:6,7,8 126:21128:25 133:11172:5 173:25runs121:10127:1 133:24135:12,25 137:12174:7 179:4sscript126:11,15138:3,7 147:6181:14s189:3136:17,20,21,24section58:14 59:5118:20salida1:19 2:20136:17,20,21,2462:2,8 66:7,9segment123:15,of:1130:11138:47 7 12 139:168:18 21 84:1 3 10124:9	,		e e	
rpr1:23 186:25155:14 180:1714:12 49:16 60:8103:13,16 104:4rsvp62:13,17,18scenarios142:2460:16 67:1 79:3105:17,18 110:164:2,10,10,16,21156:2 165:1679:20 80:23 97:25111:12 121:1264:22,23schedule187:1098:17 100:6123:10 124:24rtms128:18science28:6 66:21103:22 107:13126:16 127:13,2139:1566:22 67:14110:20 111:4,11134:3 136:18rtms134:6scope75:8113:7 123:16140:5 155:8 162rules8:21 54:15105:6,7,8 126:21128:25 133:11172:5 173:25135:14 188:8105:6,7,8 126:21128:25 133:11172:5 173:25runs121:10127:1 133:24135:12,25 137:12174:7 179:4s128:21,22 129:1,7150:17 160:25seen 11:2,9 26:126:1 10:3136:17,20,21,24section 58:14 59:5118:20satisfied130:11138:4 7 12 139:168:18 21 84:1 3 10124:9		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
rsvp62:13,17,18 64:2,10,10,16,21scenarios142:24 156:2165:1660:16 67:1 79:3 79:20 80:23 97:25105:17,18 110:14 111:12 121:1264:22,23 rtms126:12156:2165:16 123:10 124:2498:17 100:6 98:17 100:6123:10 124:24rtms128:18 139:15science28:6 66:21 66:22 67:14103:22 107:13 110:20 111:4,11126:16 127:13,2139:15 rules66:22 67:14 8:21 54:15105:6,7,8 126:21 125:14 188:8105:6,7,8 126:21 125:6,7,8 126:21128:25 133:11 128:25 133:11172:5 173:25 172:5 173:25runs121:10 127:1 133:24126:11,15 128:21,22 129:1,7138:3,7 147:6 150:17 160:25181:14 181:14s189:3 136:17,20,21,24128:21 170:19 136:17,20,21,2461:11,14 67:9 118:20salida1:19 2:20 136:17,20,21,2462:2,8 66:7,9 137:16,20,2262:2,8 66:7,9 62:2,8 66:7,9segmentsalisfied130:11138:4 7 12 139:168:18 21 84:1 3 10 68:18 21 84:1 3 10124:9	-			
64:2,10,10,16,21156:2 165:1679:20 80:23 97:25111:12 121:1264:22,23schedule 187:1098:17 100:6123:10 124:24rtms 128:18science 28:6 66:21103:22 107:13126:16 127:13,2139:1566:22 67:14110:20 111:4,11134:3 136:18rtsms 134:6scope 75:8113:7 123:16140:5 155:8 162rules 8:21 54:15screen 14:4 16:10124:7 126:1164:1,8 167:9135:14 188:8105:6,7,8 126:21128:25 133:11172:5 173:25runs 121:10127:1 133:24135:12,25 137:12174:7 179:4sscript 126:11,15138:3,7 147:6181:14s 189:3128:21,22 129:1,7150:17 160:25seen 11:2,9 26:126:1 10:3136:17,20,21,24section 58:14 59:5118:20salida 1:19 2:20137:16,20,2262:2,8 66:7,9segment 123:15,6:1 10:3137:16,20,2262:2,8 66:7,9segment 123:15,	-			
64:22,23schedule187:1098:17 100:6123:10 124:24rtms128:18science28:6 66:21103:22 107:13126:16 127:13,2139:1566:22 67:14110:20 111:4,11134:3 136:18rtsms134:6scope75:8113:7 123:16140:5 155:8 162rules8:21 54:15screen14:4 16:10124:7 126:1164:1,8 167:9135:14 188:8105:6,7,8 126:21128:25 133:11172:5 173:25runs121:10127:1 133:24135:12,25 137:12174:7 179:4sscript126:11,15138:3,7 147:6181:14s189:3128:21,22 129:1,7150:17 160:25seensalida1:19 2:20136:17,20,21,24section58:14 59:5118:206:1 10:3130:11137:16,20,2262:2,8 66:7,9segment123:15,138:4 7 12 139:168:18 21 84:1 3 10124:9	-			
rtms128:18science28:666:21103:22107:13126:16127:13,2139:1566:2267:14110:20111:4,11134:3136:18rtsms134:6scope75:8113:7123:16140:5155:8162rules8:2154:15screen14:416:10124:7126:11140:5155:8162135:14188:8105:6,7,8126:21128:25133:11172:5173:25runs121:10127:1133:24135:12,25137:12174:7179:4sscript126:11,15138:3,7147:6181:14s189:3128:21,22129:1,7150:17160:25seen11:2,926:126:110:3136:17,20,21,24section58:1459:5118:20satisfied130:11138:4712139:168:182184:1310124:9				
139:1566:22 67:14110:20 111:4,11134:3 136:18rtsms134:6scope75:8113:7 123:16140:5 155:8 162rules8:21 54:15screen14:4 16:10124:7 126:1164:1,8 167:9135:14 188:8105:6,7,8 126:21128:25 133:11172:5 173:25runs121:10127:1 133:24135:12,25 137:12174:7 179:4sscript126:11,15138:3,7 147:6181:14s128:21,22 129:1,7150:17 160:25seen11:2,9 26:126:1 10:3136:17,20,21,24section58:14 59:5118:20satisfied130:11138:4 7 12 139:168:18 21 84:1 3 10124:9	,			
rtsms134:6scope75:8113:7123:16140:5155:8162rules8:2154:15screen14:416:10124:7126:1164:1,8167:9135:14188:8105:6,7,8126:21128:25133:11172:5173:25runs121:10127:1133:24135:12,25137:12174:7179:4sscript126:11,15138:3,7147:6181:14s128:21,22129:1,7150:17160:25seen11:2,9salida1:192:20136:17,20,21,24section58:1459:5118:20satisfied130:11138:4712139:168:182184:13124:9				· · · · · ·
rules8:21 54:15 135:14 188:8screen14:4 16:10 105:6,7,8 126:21124:7 126:1 128:25 133:11164:1,8 167:9 172:5 173:25runs121:10127:1 133:24 127:1 133:24135:12,25 137:12 138:3,7 147:6164:1,8 167:9 172:5 173:25sscript126:11,15 128:21,22 129:1,7 129:10,12 131:5138:3,7 147:6 150:17 160:25181:14 seen 11:2,9 26:12s128:21,22 129:1,7 129:10,12 131:5150:17 160:25 163:21 170:19seen 11:2,9 26:12 61:11,14 67:9salida1:19 2:20 136:17,20,21,24 137:16,20,22section 58:14 59:5 62:2,8 66:7,9118:20 segment 123:15, 124:9			-	
135:14 188:8105:6,7,8 126:21128:25 133:11172:5 173:25runs121:10127:1 133:24135:12,25 137:12174:7 179:4sscript126:11,15138:3,7 147:6181:14s128:21,22 129:1,7150:17 160:25seen11:2,9 26:12salida1:19 2:20136:17,20,21,24section58:14 59:5118:20satisfied130:11138:4 7 12 139:168:18 21 84:1 3 10124:9		_		140:5 155:8 162:5
runs121:10127:1133:24135:12,25137:12174:7179:4sscript126:11,15138:3,7147:6181:14s128:21,22129:1,7150:17160:25seen11:2,926:12salida1:192:20136:17,20,21,24163:21170:1961:11,1467:9satisfied130:11138:4712139:168:182184:1310subscript124:9			124:7 126:1	,
sscript126:11,15138:3,7147:6181:14s189:3128:21,22129:1,7150:17160:25seen11:2,926:12salida1:192:20136:17,20,21,24163:21170:1961:11,1467:9satisfied130:11138:4,712139:168:182184:1310satisfied130:11138:4,712139:168:182184:1310	135:14 188:8	105:6,7,8 126:21	128:25 133:11	172:5 173:25
s 128:21,22 129:1,7 150:17 160:25 seen 11:2,9 26:12 s alida 1:19 2:20 129:10,12 131:5 163:21 170:19 61:11,14 67:9 satisfied 130:11 138:47 127:12 139:1 68:18 21.84:1 3.10 124:9	runs 121:10	127:1 133:24	135:12,25 137:12	174:7 179:4
s 189.5 salida 1:19 2:20 6:1 10:3 satisfied 130:11 129:10,12 131:5 136:17,20,21,24 137:16,20,22 138:4 7 12 139:1 68:18 21 84:1 3 10 129:10,12 131:5 163:21 170:19 61:11,14 67:9 118:20 section 58:14 59:5 118:20 129:10,12 131:5 129:10,12 131:5 163:21 170:19 61:11,14 67:9 118:20 124:9	S	script 126:11,15	138:3,7 147:6	
salida 1:19 2:20 129:10,12 131:5 163:21 170:19 61:11,14 67:9 6:1 10:3 136:17,20,21,24 section 58:14 59:5 118:20 satisfied 130:11 138:4 7 12 139:1 68:18 21 84:1 3 10 124:9	s 189·3	128:21,22 129:1,7	150:17 160:25	seen 11:2,9 26:12
6:1 10:3 satisfied 130:11136:17,20,21,24 137:16,20,22section 58:14 59:5 62:2,8 66:7,9118:20 segment 123:15, 124:9		,		
satisfied 130:11 138:47712139:1 62:2,866:7,9 segment 123:15, 68:18 21 84:1 3 10 124:9		136:17,20,21,24	section 58:14 59:5	118:20
$1 - 138 \cdot 47 \cdot 12 \cdot 139 \cdot 1 - 68 \cdot 18 \cdot 21 \cdot 84 \cdot 13 \cdot 10 + 124 \cdot 9$		137:16,20,22	62:2,8 66:7,9	segment 123:15,16
	satisfies 180:13	138:4,7,12 139:1	68:18,21 84:1,3,10	124:9
satisfies 130:13 139:11,13,17,22 84:18 85:1,2,9,14 seinfeld 110:8,11 satisfy 180:16 140:12,5,17,22 84:18 85:1,2,9,14 seinfeld 110:8,11		139:11,13,17,22	84:18 85:1,2,9,14	seinfeld 110:8,11
satisfy 180.10 140:1,2,5,17,20,22 93:7,8,20 100:19 110:18	•	140:1,2,5,17,20,22	93:7,8,20 100:19	110:18
141:18 143:6,12 113:8 121:9,25	101.4	141:18 143:6,12	113:8 121:9,25	

HULU EXHIBIT 1081 Page 217 of 227

[select - sito]

select 35:19	180:17 181:24	106:6 124:5	shows 122:2,5
124:10	182:2,6,7	service 34:19,23	128:16
selecting 88:13	separately 180:11	35:5,17,23 36:10	side 126:21,22
selection 86:14	180:13	36:18,25 37:2,3,9	127:2,2
selector 168:19	september 63:4	38:4,9 39:19 40:9	sign 187:16 188:5
177:5,5,12	sequence 107:2	40:14,24 42:4,15	signal 39:17 146:2
selects 163:4	131:11	43:16 47:19 48:8	signaling 146:8
semantics 157:3	sequenced 131:15	49:2,16,23,24 50:3	signature 186:23
send 42:8 43:6	131:24 132:24	56:15	187:21,23,23
49:13 96:22	sequencing 130:21	services 41:8 42:6	188:9
119:10 120:14	130:25 131:3,23	45:24 48:11,11	similar 8:6 24:9
sending 37:15,21	132:5,13 133:5,7	50:7	31:4,10 42:14,16
37:25 43:11,15,19	sequential 130:25	session 43:5 44:6	42:16 67:9,18
43:20 129:10	132:2	122:9 141:23,25	84:3 91:8,22 93:8
senior 33:24 34:8	sequentially	sessions 28:15	97:13 108:20
39:25	131:24 132:13	set 30:9 34:25 35:3	109:8 111:16
sense 31:19 32:5	145:21	35:10,22 36:2,4,8	115:9 162:24
40:19,21 41:18,22	series 75:3,4,18	37:22 38:18 39:11	171:23 172:8
42:14 78:5 83:12	107:6 141:20	40:21 42:9 43:8	similarities 40:22
83:19 106:13	serve 100:22 101:7	46:23 47:10 91:15	similarly 12:4
126:10,13 127:11	101:16	114:21 157:15	80:25 81:6 88:21
130:17 148:10	served 37:9 53:10	186:6	150:10 171:24
156:8,13 158:4	101:24 115:17	sets 114:13	176:10
165:6 181:9	121:6 123:25	setting 71:4 107:3	simple 147:1,10
sensitive 6:12	server 36:1,2	129:18 152:9	148:11 149:2,5
sent 38:21 39:6	37:13,25 38:22	setup 8:2 141:23	151:2,4,22 177:23
46:7 47:11,13	43:5,6,6 63:21	142:8 143:16,21	simply 76:1
88:14 180:15	71:11 73:8,17	seven 55:17	134:24 182:5
sentence 78:6,9,11	88:14 90:10 96:3	shaking 8:25	single 98:19,23,24
78:13 79:19,20	96:23,24 97:4,4	share 85:12	101:22 110:18
100:22 107:4	101:1,6,14,15,25	shopping 38:6,10	115:10 130:11,13
108:3 124:7 146:1	106:2 107:18	short 52:12 92:1,6	141:23,23 143:1
146:7 160:25	115:10,11,17	92:9	143:15 148:3
162:15 181:12,14	116:8 117:1,18	shorthand 2:22	156:13,25 157:9
sentences 79:19	118:16 119:2,7,8	186:3,9	164:1 165:22
149:16	119:11,12 120:6,9	show 35:20 106:11	singular 157:14,19
separate 38:16	120:10 123:16,17	109:17,23 110:8	sito 1:7,7 2:7,7 6:8
102:16 110:11	124:3,4 133:10,12	145:17 164:13	7:1 13:3,3,7,9,13
116:1 129:15	140:13	shown 96:15	15:21 25:11 65:20
142:8 148:13,17	servers 71:6 72:4	103:15	123:2,5,8 170:16
179:3,11,15 180:5	72:8,11,11,23 73:3		187:4 189:1

HULU EXHIBIT 1081 Page 218 of 227

[sito's - statement]

	11 10 01 11	47 4 60 17 10	1 (1 10 1 (0 00
sito's 13:10,11	sorry 11:19 21:11	47:4 62:17,19	161:12 163:20
19:16 27:12 59:9	33:11 58:18 69:23	63:12 64:7 127:17	166:16 167:18
59:23 60:10,22,25	83:25 84:7 87:13	130:24 134:20	169:9 172:17
61:14 168:24	91:4 93:15 106:21	160:1,15,18	174:12 177:14
169:8,19 170:8	110:23 119:20	161:10,15 171:22	179:19 182:20
172:14	127:14 135:16	175:12	184:2,5,11
sitting 52:2 116:23	136:15 138:11	specifications	springer 26:6,16
177:20 183:11	146:2 149:9	46:18 62:13,14	58:10
situation 46:14	150:19 154:2	161:1	stage 170:14
skill 66:10,11	158:22 162:16	specified 34:15	stand 84:18
67:24 68:7,11	sort 37:1 41:14	46:3	standards 68:7
74:22 97:17 110:9	67:16 97:13	specifies 47:4	stands 140:6
182:25	sound 92:14	speed 21:22 49:1	start 11:19,21 22:6
skilled 104:25	sounded 64:15	49:16 50:3	22:15 41:25 43:6
skip 45:5 68:15	sounds 92:5,15	splicing 30:19	43:15 44:2 45:4,9
83:25 95:10	149:6 150:24	spoken 26:16	48:1,16 51:15
skipping 56:23	space 118:6	spot 160:14	68:16 85:18
139:7	spans 58:20 86:4	sprenger 3:12	113:10 117:8
slash 105:12 106:4	speak 25:20 52:25	6:25,25 17:6,17,20	119:12 127:14
slightly 100:16	112:22	18:15 19:3 20:4	started 51:3,6,19
142:12 175:15	specific 21:21 36:1	21:3 25:6 36:21	53:6 57:1 59:20
small 29:18	47:7 59:8 76:23	39:9 40:10 42:22	starting 27:25
smaller 118:12,13	79:8 81:5,12	44:3 47:2 48:21	88:8 113:22
smds 30:5 33:3	91:13 106:19	51:18 52:14 55:8	125:16 127:7
smil 74:13,17,23	117:4 125:13	67:25 71:8,22	145:25 146:23
74:25 75:6 139:22	126:14 164:8	73:2 77:14 82:7	147:21
139:25	177:21	84:13 89:1 90:25	starts 58:14 78:7,7
snip 96:16	specifically 25:3	92:18 99:8 101:9	79:20 103:2 113:5
snips 98:6	41:16 50:6 60:20	107:9 109:1,20	140:25 149:15
software 29:20,24	65:13 69:18 70:14	110:14 111:6	150:20 168:14
30:4 113:25 114:5	88:9,17 89:14	112:12,13 114:15	178:9 181:12
114:7 182:15	90:14 91:4 95:22	115:13 116:4	state 6:21 7:13
solution 144:19,22	99:19 100:9,17	117:2 118:10	10:1,5 17:9,18
solutions 6:19	101:1 109:23	120:3 128:4	27:20 69:16
187:7	114:9 125:16	129:24 130:14	185:11 186:4
somebody 113:19	130:23 131:9	131:6 134:21	187:9,12
song 78:17 83:1,8	156:17 166:6	137:15 138:5,18	stated 173:14
88:13,14 90:14	174:20 179:24	143:4 145:15	176:13 177:9
songs 78:14 82:1,4	specification	148:22 152:21	statement 18:17
82:19 83:1,6,7	19:12 20:8,11	153:20 156:3,20	19:25 20:22 21:1
114:22	24:6,10,21 46:22	157:5 158:1 159:6	

Page 30

HULU EXHIBIT 1081 Page 219 of 227

[statements - systems]

statements 20:3	116:13,14,17,19	subtitles 132:25	surrounding
states 1:1 2:1 4:21	116:24,25 117:18	subtitling 133:14	109:6
4:22,23 5:5,6,7,8	117:22 118:8	successful 64:7	switch 69:24 124:3
22:18 23:6,20	119:12 120:1	suggest 70:5	125:6,11,19,20,23
stayed 31:3	121:11 122:1,9,17	154:16	126:1,7,10,11,12
staying 66:3	122:19,21 123:7	suggested 134:23	126:14,23
stenographically	124:15,16 125:6,8	suggesting 152:7	switches 124:5
8:24	127:20 128:16	156:12	switching 126:17
step 95:14,15	139:4 140:10,12	suite 3:13	sworn 7:3
169:13	140:16 144:25	sum 97:2	synchronization
stipulate 155:13	145:1 160:9,11	summaries 65:2	133:24
stipulation 187:20	streams 47:11	83:14	synchronized
stop 37:15 43:11	124:23 141:24	summarizes 141:7	133:14 140:6
83:17 117:17,25	143:2 150:12,21	summary 86:3,9	syntactically
118:8,15,22	street 10:3	86:11 141:15	102:20 103:16
stopped 43:23	strike 34:6 78:11	superseded 64:12	104:14 105:5,10
44:7 45:12	84:7	supplement 183:7	130:15
storage 120:19	string 180:21,24	support 48:8	syntax 95:3,4,5,5
store 115:8 116:1	stuff 34:7 127:6,9	63:25 64:22 76:8	101:20 103:1
stored 115:16	subcontracted	77:6 114:18	107:3
119:8	50:21	supported 41:5,8	system 34:20
storing 115:21	subheadings	64:24 76:10 77:2	35:18,21 36:18
straight 16:2	171:14	77:4	37:18,25 38:11,14
straightforward	submit 54:14	supporting 76:24	39:1,7 40:13 42:2
100:3	submitted 27:17	supports 89:13	42:3,13 43:1,2,9
stream 36:2,3,5,6	53:20 55:16,17,19	sure 10:10 11:3	43:19 47:4 70:17
36:19 39:4,6 47:7	58:8,9	16:1 21:4 33:6	71:6,10 72:1 73:1
47:8,12 66:24	submitting 29:11	37:7 39:10 45:11	82:3,11,13 86:7
95:19,24 99:4,5,5	subscribe 56:13	52:1 59:11,13	89:5 95:17 97:19
100:12 115:10	subscribed 186:21	62:15 68:1 69:12	101:3 115:18
124:11 125:7	subscriber 35:14	75:6 77:25 82:8	116:8,13,14,24
streamed 36:24	35:15,17 56:10,12	87:3,10 104:13	119:3 122:4,9
116:14 118:13	56:17	105:3,4 117:3,8	127:20 128:18,21
127:21 128:14	subscribers 49:3	125:4,15 135:19	132:7 142:18
131:2 133:5,7	49:17	143:23 144:15	143:20 145:1
streaming 40:23	subsequent 79:14	150:5 157:16	156:11 160:9
41:3,10,14,16	121:4	161:18 167:14	170:21
49:10,18 50:1,5	substance 112:25	173:20 174:4	systems 29:20
66:25 67:5 69:19	substantive 60:18	184:4	30:9 42:7 44:11
95:25 113:4,9,16	subtitle 132:17,17	surprise 87:8	44:17 46:19,21
115:7,18 116:7,8	133:12,21		50:1,12 66:25
66:25 67:5 69:19 95:25 113:4,9,16	substantive 60:18 subtitle 132:17,17	184:4	30:9 42:7 44:11 44:17 46:19,21

Page 31

HULU EXHIBIT 1081 Page 220 of 227

67:4 70:25 71:12	96:21 102:14	181:15,16,18	terms 81:6 109:22
72:13 113:9	106:1 109:22	talks 44:16 62:21	110:7 122:10
115:22,25 116:7	112:25 113:22,25	86:12 90:16	136:1 168:17,20
116:17 117:9,10	114:2,20 115:5	124:20 138:9,14	168:22 169:6,23
121:11 122:1,3,6,7	124:8,24 127:6	146:20 147:9	171:10 172:9,10
122:17,19,21	130:17,21 139:9	150:8,11 161:24	test 9:17
123:5,7,10 124:17	139:16 140:9	tandberg 30:24	testified 7:7 53:14
t	146:11,21 147:13	tasks 31:4,5,5	53:16,24
	147:25 157:7	teaching 70:16	testify 13:1
t 189:3,3	158:22 159:23	team 30:12,14	testifying 186:8
table 58:13,16,20	160:4 164:15	48:23 57:23,24	testimony 20:1,18
58:24 61:21 62:2	166:21 167:22	teams 29:25 30:5	20:25 53:19 54:10
62:5 171:4	168:9 178:2.5	teardown 142:9	54:20,22 56:4
tables 47:4,5,7,13	talked 41:10 65:18	technically 111:8	113:1 167:13
tag 102:10 103:2,4	72:5 84:10 108:17	technologies 29:23	185:5,7 186:12
103:10,11,12,13	109:10 112:5	32:12,15 34:15	texas 169:1 173:2
103:14 104:4,5,8,9	122:15 134:9	113:23	thank 9:25 17:12
104:9,23	137:1,1 140:11	technology 6:10	31:13,18 44:10,18
tags 102:25,25	147:4 151:7,8,20	30:22 31:23 32:3	52:24 55:9 84:21
103:5 104:21	158:14,24 161:6	32:5,8,21,24 33:2	93:1 112:21 168:8
109:6	167:1 183:22	35:8,10 41:1,2	175:9,23
tailored 75:16	talking 12:21	42:7 48:14 49:19	thanks 90:19
take 6:16 9:19,20	20:20 27:18 31:24	97:13 113:5,19	theme 142:17
9:24 11:1 21:7	32:25 44:11 63:13	telecom 30:1	thing 9:16 20:9
30:8 33:21 37:10 54:5 60:16 80:7	67:12 73:4,22	32:23	67:16 87:8 106:8
84:23 87:5 89:8	80:14 84:4 86:21	television 30:24	113:12 128:13,23
92:1,6,9,12 105:14	88:9,12 100:12	110:8	128:25 130:18
110:10 112:4,9	102:15 103:6	tell 37:7 125:17	149:7 154:23
110.10 112.4,9	106:19 109:19	155:4 182:22	157:9 161:21
144:13 160:22	114:6 120:16	temporarily 43:11	165:11 173:11
161:18 165:4	125:19 128:7	tended 76:25	178:5
167:22 170:21	132:9,10,12 135:2	terayon 30:18	things 21:22 31:15
172:18 184:2	136:17,20 138:16	50:12	53:4 106:5,9
taken 2:19 28:23	139:4 143:11	term 22:20 23:7	think 7:22 10:21
28:25 31:11 52:19	147:11,15,22	66:13 119:14	20:5 21:20,25
92:21 112:16	148:6,11,24 149:7	125:2,4 134:19	24:5 25:14 33:12
168:3 184:8 186:5	149:17,22,24	171:17 174:24	40:1 44:4,7 48:5
takes 69:25 124:9	151:14 155:2	175:20 177:4,6,7	50:14 51:20 52:13
talk 9:10,11 32:17	156:5,16 159:8,21	terminal 81:18	57:2 59:18 60:5
80:4 83:10 87:25	162:1,2 163:18	terminology 41:14	62:9 63:4 64:23
91:19 93:5,20	167:17 180:9	147:12	70:1 71:25 74:14

HULU EXHIBIT 1081 Page 221 of 227

[think - tremendously]

74:17 75:1,1 77:1	30:20 31:23 33:21	168:2,5 172:19	touched 145:6
79:24 82:15 83:15	67:15 76:24 77:5	183:15,16 184:1,7	track 87:21
83:22 84:14,14,17	80:4 86:13 94:2	184:10,16,18	trademark 1:1 2:1
87:14 89:3 91:1	98:17 99:3 105:23	185:7 186:6	traffic 64:8,9
93:19 101:10	130:2 157:1 169:3	187:10,18,24	trailer 146:25
105:15 106:14	169:7 171:10	188:7	147:5 148:1,17
108:15 109:4,14	172:5,10 183:20	timed 133:23	149:4 151:3,11,17
109:17,21 111:24	183:21	timeout 100:14	151:24 152:5,11
111:24 112:2	throat 93:16	times 7:21,22,23	152:19 153:10,13
115:1 117:5,13,21	throw 118:14	21:14 53:9,14	153:18 155:6,11
118:18 120:13	ticket 96:12,18	61:10 164:16	155:22 163:1
128:10 130:17	time 6:21 9:21	timing 31:19 33:6	164:21 165:7
131:5,8 132:12,13	15:11 17:1,10	112:10 131:1,25	167:5
134:1 143:5,9,18	21:19 25:18 28:18	133:13	training 28:15,21
143:20,24 144:6	29:21 30:8,12	title 46:20	67:3,17 68:3,14
147:7,14,21 148:6	32:1 33:5,8,9,15	titles 81:8	transaction 86:23
148:10,10 149:11	33:16,22,25 34:2,8	today 7:24 11:25	88:1
149:24 152:7,13	34:18 40:3 41:12	12:8,15,21 13:1,20	transcribed
152:22,25 153:21	43:24 44:12 47:22	15:22 20:1 27:18	186:10
153:24,24 155:8	48:8,12 49:2,9	31:18,24 32:13,21	transcript 26:13
156:4 157:16,18	50:4,11,22,23 51:5	32:25 49:19 52:2	33:13 186:11,14
158:7 159:18,20	51:7,12,13 52:12	66:12 84:5,19,23	186:16 187:6,8,10
160:3,7,8 164:24	52:18,21 53:18	87:9 116:23 118:5	187:13,13,21
165:5,10,21,25	54:6,18 55:13	177:20 183:11,22	188:2,2
167:1,2,4,5,16,18	59:20 60:1,3,4,24	today's 8:23 24:13	transcription
175:5,19 179:20	63:1,1,5,8 64:1,2	24:15 25:12,21	185:6
180:5,7,9,12,25	64:13 67:18,21	26:23 183:18	transfers 140:18
181:1,4,6,19 183:5	68:8 69:24 72:19	184:15	transmission
184:12	72:20 76:9,12,20	tolerant 76:6	113:23
thinking 110:7	76:25 84:23 87:5	top 30:9 34:25	transmits 142:8
132:14 151:6	91:21 92:20,23	35:3,10,22 36:2,4	transmitted
third 69:20 71:11	94:17,18 97:9,11	36:8 37:22 38:18	128:21 180:23
79:3 81:3 100:7	97:15 99:7 110:10	39:11 40:21 42:9	transmitting
107:13 138:11	111:24 112:4,15	43:8 46:23 47:10	181:2
thorough 31:13	112:18 113:20	82:1,4,12,16,18,21	transport 41:2
thought 11:16	114:12 115:2,22	83:1 86:9 103:19	42:8 43:7
181:16	117:9,23 118:19	149:14 173:23	transporting
three 10:19,24	119:22 120:17	175:22	86:15
19:10 21:13,14	122:3 124:8	total 25:14	tremendously
22:10 24:3,7,12,16	138:24 144:10	totality 83:6	64:6
25:14,17,23,24	161:18 167:20	163:10	

Page 33

HULU EXHIBIT 1081 Page 222 of 227

[trial - uses]

	1		
trial 1:3 2:3 48:7	148:19 149:5,16	27:16 46:5 47:10	180:1,6,7,8,16,20
53:15,16,24 54:11	152:8 153:22	47:16 49:23 52:9	180:24,24 181:12
56:1,4	154:14 167:19	56:15 66:13 67:10	181:21,24 182:2,3
tried 62:14 84:16	169:21 174:20	67:19 69:2 75:10	182:6,8
106:10	175:1 177:1 182:6	75:13 77:16 90:8	urls 75:4 76:1,13
triggered 100:15	type 51:11 76:19	105:1 110:16	78:7,23 79:12
true 108:24	77:7 98:2 114:17	121:22 127:8	159:9
157:23 185:6	140:1,3	128:3 132:1 133:3	usage 162:10
186:11	types 73:20,25	134:1,19 136:10	use 22:20 23:7
trust 73:7	76:25 132:17	150:15 153:4	37:5 64:10 66:13
trusted 71:3	typical 117:9	163:7 169:16	72:15 79:6,8
truth 37:7	119:3	172:19 173:13	80:16 97:20 100:2
try 9:11,19 52:6	typically 71:1	178:25 179:14,16	101:14 102:10
80:20 92:10	117:12,17 118:9	181:22 182:1	125:23 131:8
118:19 120:25	120:19 130:24	understanding	154:2 158:18
trying 20:15,16	131:14 140:13	76:17 95:1 99:25	159:4,10 165:5
21:12 75:10,13	146:8	113:18 132:6	178:17
77:25 105:14	typing 82:3	139:25	user 36:14,16,20
135:16 154:2	u	understands	37:10,17,20,23
tune 41:24		124:21	38:21 41:22 42:4
turn 113:3 168:12	u.s. 1:11,13,15	understood	42:11,18,24 43:2
174:19	2:11,13,15 4:17,19	122:10,11 132:20	43:10,14,17,22
turned 46:1	4:20 11:24 12:6	165:12 167:13	44:1,5,21 46:17
tv 31:2 35:3,20	12:14 14:9,17	unfair 159:18	69:21 73:17 77:9
45:18,21 46:3,12	16:15 18:8 68:24	unique 139:14	77:12 78:1 80:8
46:14 50:25 51:8	93:25	uniquely 176:19	81:1,18 82:9,12,22
145:17 164:12	uh 112:13 162:18	united 1:1 2:1 4:21	88:13 95:19,23
two 7:25 10:14,21	ultimate 128:20	4:22,23 5:5,6,7,8	96:12,18,22 100:5
20:18,23 25:14,15	ultimately 30:14	22:18 23:6,20	107:5,16 114:11
25:17 27:17 34:4	32:12 47:6	universal 137:6	115:11 116:18,25
55:19 65:17 66:16	unchanged 120:10	138:13	117:6,10,19 119:9
66:19,23 67:15	undergraduate	university 28:4,10	124:8,21,25
79:19 84:18 86:23	27:25 28:2	28:11 67:17	125:10,22 126:6,9
98:11,15 103:5	underlies 32:6	unpack 31:16	126:10.13 142:25
109:11,12 110:11	underneath 104:5	unreliable 104:17	143:1 144:25
110:19 111:1,20	underpinnings	uploaded 170:20	145:2 182:15
124:2,19 127:3	34:15	url 75:4 79:13	user's 97:3 100:23
129:5,5,11,22	understand 7:16	107:6 126:11	users 36:9 46:2
130:2 133:9	8:7,23 9:14 11:3	137:22 138:9	71:18,19
137:20 145:5	11:14 13:6 14:25		· · ·
		139:1.3 179:2.3.11	uses 90:22 100:14
147:1,9 148:2,13	16:16 18:9 22:20 22:25 23:8,12,22	139:1,3 179:2,3,11 179:12,16,18	uses 96:22 166:14 167:10

HULU EXHIBIT 1081 Page 223 of 227

[usually - wiser]

usually 75:20	videoconference	want 9:16 11:1,2	164:11 165:1,2
	1:17 2:18	15:19 21:16 55:2	166:13,18 167:10
V	videographer 3:17	60:18 80:4 83:17	180:20 182:24
v 1:6 2:6 131:5,7	6:4,18 7:2 52:17	84:1,2,22 85:2	ways 62:21 63:14
179:21,23,24	52:20 92:19,22	87:12 91:6 95:14	100:1 109:12,12
vague 17:20 99:13	112:11,14,17	113:7 135:17,19	118:18 127:14
vanished 54:24	168:1,4 184:6,9,15	138:19 140:23	180:8
variations 142:17	videotaped 1:17	141:9 144:10	we've 52:10 80:13
varied 31:14	2:18	146:22 147:17	112:5 126:17
various 19:15	vienna 3:14	150:5 158:2 166:3	137:1,1 145:6
28:13,15 29:24 49:22 57:10 58:4	view 116:22	169:21	151:7,8,20 156:18
72:2 79:5 95:5,23	149:12	wanted 12:21 16:2	159:21 161:6
174:18 181:17	viewed 44:5	17:12 35:15 81:22	164:17,20 167:16
vary 84:6,10	viewer 46:25	93:7 113:12	167:18 183:22
131:16	81:16 134:7	167:13	web 97:22
verbal 8:25	139:18,20 140:10	wants 119:9	webpage 94:12
verbatim 21:18	140:15,18,19,20	warner 30:8,12	95:22 108:5,8
verifies 90:14	141:22 142:8	33:5,8,9,16,22,25	website 94:25
verify 77:18	143:16 146:8	34:2,18 40:3	97:12
veritext 6:9,19 8:3	150:22 161:22	47:22 48:8,12	websites 69:20
8:5 187:7,9,11	163:4	49:2,9 50:4,11	week 25:18,19
version 27:11	viewing 149:2,23	51:5 63:2 94:19	welcome 52:23
124:10	149:24	waste 21:19	92:25 112:20
versions 125:1	views 115:6	watch 35:15 41:25	131:22 134:17
versus 6:8 176:19	116:21	119:9 161:22	168:7
vi 113:8	virginia 3:14	watching 44:7	went 24:18 29:18
vice 30:15,21,24	virtual 6:10	45:7 46:25	32:22 109:17
47:23 48:13	vitae 27:10	way 9:12 11:10	111:16
video 6:15 30:9	volume 1:21 2:19	22:6 40:9 42:1,4	westwood 3:13
34:13,19,24 35:1	4:4	44:17 48:20 56:18	whereof 186:20
35:13 36:11,11,17	voucher 88:5,23	59:15 63:18 72:6	whispers 6:13
36:20 38:11 39:1	89:14,20,24 90:6	72:7 78:19 79:16	wide 177:16
39:4,6 40:20 41:4	91:1	80:20 81:25 86:4	widely 64:6,24
41:5,9,19,23 42:6	vs 187:4 189:1	89:17 100:3,10	windows 69:24
42:10,20 45:7,23	W	101:11 106:12	75:23 76:11,14,22
46:6,8 47:17,19,20	waiting 86:7	109:8 111:25	94:23 95:9 97:14
49:14 50:5 72:4	waived 187:23,23	120:6,20 122:2 129:20 136:8	117:14 wiser 83:10,25
119:9,12 132:11	waiving 187:20	129:20 136:8	· · · · · · · · · · · · · · · · · · ·
132:23 133:20,23	walk 83:13 119:4	154:19,24 157:3	85:1,8,12,15,18 86:2,13 87:14,19
133:25	127:5	154:19,24 157:5	88:6,18,22 89:4,8
		130.4 137.4	00.0,10,22 09.4,0

HULU EXHIBIT 1081 Page 224 of 227

89:10 90:9,11,16	167:10,15	wraps 112:2	138:25 139:8
91:14,16 93:7,9,10	words 32:14 50:8	wraps 112:2 writing 57:21	140:17 141:17
111:15	101:18 105:9	written 167:11	140.17 141.17 142:5,12,21 144:3
witness 4:37:2	135:7,19 152:16	wrote 44:14	142.3,12,21 144.3
17:7 19:4 20:5	163:22 166:3		146:10 149:22
		114:24 173:21	-
21:4 31:11 36:22	work 10:5 15:14	X	150:21 151:5,13
39:10 40:11 44:4	17:4 19:2 29:10	x 4:1 68:18,21	151:13,16,17,18
47:3 48:22 51:19	29:18 30:10 31:10	186:16 188:9	152:9 155:2
51:20 52:13 68:1	32:18 40:16 48:3	x25 29:23 32:12	158:22 159:7
70:7 71:9,23 73:3	49:4,7 50:4,19,24	xi 178:9	160:3,4,22 161:18
77:15 82:8 84:14	56:16 57:13,25	y	162:23 163:25
89:2 91:1 92:15	62:24 64:21 67:3		164:15 166:23
99:9 101:10	70:18,20 71:5	yager 3:17 6:17	167:20,21 169:10
107:10 109:2,21	72:6 73:1,5,11	yeah 10:23 11:5,9	169:10 170:11,12
110:15 111:7	75:15,21 76:3,5	11:13,20,20 14:23	170:13 171:9
112:7 114:16	81:6,14 101:8,13	17:20 20:14 21:10	173:1,10,11,22
115:14 117:3	105:7,8 106:11	21:20 25:19 33:11	174:7,7,13 175:7
118:11 120:4	114:12 115:2	37:20 41:18 44:14	175:24 176:18,19
128:5 129:25	128:18 132:7,21	45:1 47:3 49:1	177:15,23,23
130:15 131:7	153:1 182:4,9,12	54:5,5,24 55:1	178:13 179:9,23
134:22 137:16	182:18	58:2,18 60:20	179:24 181:17,18
138:6,19 143:5	worked 13:12,15	70:4,22 74:16,16	181:20,21,21,24
145:16 148:23	29:14,22 30:2,9,11	82:11 84:17 85:14	year 28:5 31:1
152:22 153:21	30:19 31:7 32:10	85:23 87:1,5,7,10	45:16 54:21 55:4
156:4,21 157:6	33:1 34:7,12 38:9	87:15,24 89:7	55:18 59:19 67:15
158:2 159:7	44:12,13,17 45:15	90:8,10 91:11	years 28:14 30:20
161:13 163:21	47:20 48:6 49:22	92:5,8,8,15 96:1	31:19,22 33:15
166:17 167:25	50:20 55:18 57:12	97:16 98:24 99:4	34:1,4 51:25 52:4
169:10 172:18	65:13,16 95:17	99:12,12,17 102:8	53:21,25 54:11,20
174:13 177:15	working 40:5 45:3	103:16 104:7,20	56:14 66:23 67:3
179:20 182:21	45:13 51:19 55:11	106:13,21 107:10	67:15
185:3 186:20	55:14 57:1 59:21	107:20 108:15,19	yep 11:18 113:6
187:13,16 188:2,5	63:10 67:18 94:18	109:3,24 110:23	147:2
189:24	works 8:2 52:14	111:7,9,22,24,25	youtube 72:19,21
witnesses 186:7	63:19 78:19 88:22	113:11,18 114:5	youtube's 72:22
wondering 99:18	92:18 99:24	115:16 117:12	72:23
word 36:5 57:18	101:11 120:7,21	118:13 119:6,21	Z
62:11 103:25	142:18	122:22 124:14	
130:9 148:5 157:4	world 41:3 49:18	125:15,19 128:9	zoom 6:10 8:6
157:7 158:18	wrap 92:10	128:10 133:8	
159:10 166:24		134:24 136:14,19	

HULU EXHIBIT 1081 Page 225 of 227

Federal Rules of Civil Procedure

Rule 30

(e) Review By the Witness; Changes.

(1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
(A) to review the transcript or recording; and
(B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.

(2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE ABOVE RULES ARE CURRENT AS OF APRIL 1, 2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

VERITEXT LEGAL SOLUTIONS COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

Veritext Legal Solutions represents that the foregoing transcript is a true, correct and complete transcript of the colloquies, questions and answers as submitted by the court reporter. Veritext Legal Solutions further represents that the attached exhibits, if any, are true, correct and complete documents as submitted by the court reporter and/or attorneys in relation to this deposition and that the documents were processed in accordance with our litigation support and production standards.

Veritext Legal Solutions is committed to maintaining the confidentiality of client and witness information, in accordance with the regulations promulgated under the Health Insurance Portability and Accountability Act (HIPAA), as amended with respect to protected health information and the Gramm-Leach-Bliley Act, as amended, with respect to Personally Identifiable Information (PII). Physical transcripts and exhibits are managed under strict facility and personnel access controls. Electronic files of documents are stored in encrypted form and are transmitted in an encrypted fashion to authenticated parties who are permitted to access the material. Our data is hosted in a Tier 4 SSAE 16 certified facility.

Veritext Legal Solutions complies with all federal and State regulations with respect to the provision of court reporting services, and maintains its neutrality and independence regardless of relationship or the financial outcome of any litigation. Veritext requires adherence to the foregoing professional and ethical standards from all of its subcontractors in their independent contractor agreements.

Inquiries about Veritext Legal Solutions' confidentiality and security policies and practices should be directed to Veritext's Client Services Associates indicated on the cover of this document or at www.veritext.com.