[2] he gets to the next piece, it's arrived, correct?

A: Yes.

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Q: All right. Now, suppose he presses

"rewind" on the video and he wants, after he's

[6] watched section number 3, he wants to go back and

[7] watch section number 2.

A: So now you're assuming that this is

[9] being stored.

Q: Well, let's suppose that only one of

[11] those pieces is stored at a time and that when

[12] he's finished watching, it's replaced by the next

[19]

A: When he's finished watching it, the

[15] next piece already has to be there so —

Q: Right. This might not be — we're

[17] running low on time. This might not be worth it.

[18] I'm going to make one more effort to do this.

Suppose you've got two buffers on

[20] the client side. Does that make sense?

A: Okay. [21]

Q: You fill one buffer in one second [22]

[23] and it takes ten seconds to play it back, okay?

A: Okay. [24]

Q: Before that ten seconds has elapsed, [25]

A: I have no idea what this is talking [2]

3 about in that the Burst patents describe this stop

[4] watch starting and stopping, as I described, sort

[5] of the burst time period you can, the amount of

[6] time required to transmit the information is

[7] substantially less than the viewing time.

That discussion, in everything that

[9] I have read, pertains to transmitting not in what

[10] we say, in real time, this delineation that is

[11] given over Haskell, for example, on the previous

[12] page.

Reading this to me makes — I [13]

[14] understand the "however" sentence. "System

[15] designers did not recognize that time compressed

representations could be sent in a burst time

period that is shorter than the time period needed

[18] for real-time viewing by a receiver."

Q: Well, let's stop there. If you

[20] understand that sentence, can you tell me what you

[21] understand that sentence to mean?

A: I understand that sentence to mean

[23] that at the time of these patents, people were

[24] focused on real-time delivery of digital

[25] audio/video source information, what we would

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[2] you have to fill the next buffer so you can

[3] continue to watch continuously, right?

A: Okay.

Q: In that situation where you've only

[6] got two buffers and you've got only 20 seconds

[7] worth of video storage on the client side, if

[8] somebody presses "pause" or "rewind," you're going

[9] to have to — and wants to go back to a section

[10] that's more than 20 seconds away from where they

[11] are, you're going to have to send data all over

[12] again, right?

A: In the interpretation of what is

[14] written here that you have given me —

A: — the statement that you just ended

[17] with — what did you just end with — you would

[18] have to --

Q: Send the same data again?

A: Yes. I, I believe you have made an

[21] accurate statement.

Q: Okay. With that in mind, please

[23] reread this paragraph beginning with "however" and

[24] tell me if you think that's what it's talking

[25] about.

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[2] today call "streaming."

There was not a recognition of what

[4] we could call perhaps the fast download or the

[5] fast dump where the entire — rather than simply

[6] broadcasting in real time, that one could actually

n do a fast download.

I think I discuss this in my report

[9] so, which is probably written in a more eloquent

[10] fashion with better verbs.

Q: You may be referring to the section

[12] where you describe the Burst concept at the end of

[13] the section 2, which is pages 25 through 26.

[14] A: I think, yes, 24 through 26.

**Q**: Oh, I'm sorry. 24. [15]

A: Yes. And the Burst patents did not [16]

[17] do this "streaming," to use a word from today, to

[18] describe what's going on. So I agree with that

[19] "However" sentence.

The next sentence, "Sending time [20]

[21] compressed representations to a receiver can add a

[22] new variable consumption rate to the equation

[23] which indicates the maximum number of clients the

[24] system can service."

Now, the first time I read this

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[2] sentence, I said I have absolutely no idea what	[2] earlier on in the reports saying this is a claim
[3] this is talking about and my reaction to the	[3] construction issue, I'm just going to talk about
[4] following sentence was similar in that pause or	this thing generically.
[5] rewind, unless information may need to be sent,	[5] Q: Sure.
[6] this, this already suggests two-way communication	[6] A: So this is not meant to suggest, for
[7] which is not described in what's going on.	[7] example, that TDMA could be used to deliver a
[8] <b>Q</b> : Given the hour and my heretofore	[8] program in real time with a portion thereof. This
[9] failed attempt to explain to you what that meant,	g is simply meant to generically refer to whatever
[10] I think it's time to move on. If you don't	[10] program may be run.
[11] understand it sitting here today, I don't want to	[11] <b>Q</b> : Understood. Let's focus on, just on
[12] spend more time on it.	[12] that for a few minutes and then I want to come
[13] I do want to talk about the section	[13] back to this because I want to get clearer your
[14] in your report that you just referred to about the	[14] position on what has to be transmitted.
[15] Burst concept. And it appears to me that the	
[16] first part of that two or three-page section	15 I believe, and I think it's actually 16 on the next page, that the construction you're
[17] titled "The Burst Concept," where you actually	advancing requires that what is, that the
[18] describe what you understand the Burst concept to	[18] audio/video source information be an audio and/or
[19] be is on page 26 where you say, "The idea of a	[19] video work, correct?
[20] 'burst transmission' — one in which an entire	[20] A: Yes.
[21] program or portion thereof was quickly delivered	[21] <b>Q:</b> What does "work" mean?
[22] to a user" —	[22] A: So first, I'll refer you to what I
[23] A: Sorry. You said — oh, I'm sorry.	[23] wrote on the next page and then I can provide more
[24] I was on the wrong page. Yes, okay.	[24] detail if you would like. Sorry. Where did I
[25] Q: Okay. You say there, "The idea of a	[25] quote?
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<sup>[2]</sup> 'burst transmission.'" Do you see that sentence?	
[2] 'burst transmission.'" Do you see that sentence? [3] A: Yes.	[2] (Pause)
[3] <b>A:</b> Yes.	(Pause)  (B) A: I'm sorry. So we have at the top of
[3] A: Yes. [4] Q: And you say that idea wherein an	(Pause)  A: I'm sorry. So we have at the top of  page —
<ul> <li>A: Yes.</li> <li>Q: And you say that idea wherein an</li> <li>entire program or a portion thereof was quickly</li> </ul>	(Pause)  A: I'm sorry. So we have at the top of  page —  S: Q: Twenty-eight.
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Page 280 Page 282 Hemami [1] Hemami [1] A: "Program" with a long descriptive [2] [2] program. [3] term, a long descriptive associated with it — While it has been stored at some [3] Q: Well, let's — [4] point in its existence, at no point does it exist A: — which I think I refer to. [5] in the memory in its entirety. [6] Actually, also on page 28 in the first full Q: Okay. [6] paragraph. **A:** And that would be a possibility. [7] Q: Okay. Q: All right. So that's what I'm A: So the, "Apple construes" paragraph [9] trying to clarify. [10] about five lines down. Do you believe — suppose that the [10] **Q**: So you refer there to lines 20 [11] audio/video source information is your 5 minute [12] through 24 in column 1 of the '839 patent. Is [12] clip of a 30 minute program, okay? [13] that right? A: Uh-huh. A: Yes. Let us hope that is the actual Q: In claim 1, it says, "Storing said [14] [15] correct numbers. [15] time compressed representation of the received Q: Let's go look at that. [16] audio/video source information," right? [16] A: And that is a direct quote as well. Can that element be satisfied if no [17] Q: So they say there, "The term [18] more than 1 minute of the 5 minute clip is ever [19] 'program' encompasses movies and other types of [19] stored at a single time? [20] audio" — "of video and/or audio materials whether A: Can the elements be satisfied? [20] [21] broadcast from a TV station or another source." Q: In other words, are you storing said A: Yes. [22] time compressed representation if at no point you Q: Do you understand the term "program" [23] ever store more than 1/5th of it? [23] [24] to include, for example, a 5 minute clip of a 30 A: Well, we would like to edit the [25] minute TV show? [25] thing as in claim 2 and clearly we can't edit Page 281 Page 283 Hemami Hemami [1] [2] something that isn't there. So from the operation A: Given this parenthetical, I do. [2] Q: So in your mind, does the 131 of the device, I think it certainly sounds like we [3] [4] audio/video source information in the claims of [4] do want the whole thing to be in memory. [5] the Burst patents include, for example, a 5 minute Q: Would you also agree that you are [6] clip of a 30 minute TV show? 161 not storing the time compressed representation if A: I think it does. I think that [7] you're only storing 1/5th of it at a time? [8] it's — as opposed to the entire 30 minute A: If you're only storing — well, you [9] television show that one could select sections. [9] are storing — Q: Okay. If you look at the '839 Q: At that point, you're storing a [11] portion of the time compressed representation, not [11] patent, claim 1 which is column 13 — [12] said time compressed representation, correct? A: If — yes, I think we can say that. Q: — we've, as we've discussed before, [13] [14] what is transmitted at the end is the stored time Q: So to satisfy that storing element, [14] [15] compressed representation, right? [15] you have to store the representation of the entire [16] audio/video source information? A: Yes. Q: So I think we agreed that the time A: Whatever the entire information is. [17] [18] compressed representation, at some point, had to Q: Right And it's certainly your view [19] be stored in its entirety, correct? that the audio/video source information doesn't [20] have to be an entire 30 minute television program A: Well, if we start our pointer — if [21] we have limited memory, right — remember, our [21] or an entire two hour movie, right? [22] pointers just have to catch up at the end so it's A: Yes. [22] [23] possible that once we've sent this stuff, we can Q: It could be a 5 minute clip? [23] [24] reuse this section of the memory in which case, A: Yes. [24] [25] obviously we're rewriting in memory the entire Q: But whatever it is, that entire [25]

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thing needs to be stored in the storing step. Is	1
[3] that right?	[2] hard disk is full.
A water and a state of the stat	[3] Q: Right. So in order to transmit the
[4] A: I think — that thing sits in memory [5] 13, which is what the storing step pertains to.	[4] entire audio/video source information faster than
	[5] real time and then view it in real time, you have
[6] Q: So the answer is "yes"?	[6] to store it in its entirety on the user's end?
7 A: Yes.	A: Because it's going to come in faster
[8] <b>Q:</b> Okay. Let's go back to page 26.	[8] than you eat it, yes.
[9] A: Yes.	[9] Q: So the answer is "yes," you need
[10] <b>Q:</b> I think we can now replace your	[10] sufficient storage to store the complete audio or
[11] phrase here, "an entire program or a portion	[11] at least the complete time compressed
[12] thereof" with the concept of the audio/video	[12] representation on the user's end, correct?
[13] source information, right?	[13] A: The complete time representation.
[14] A: Whatever that may be, yes.	[14] The receiving unit must be able to store what it
[15] Q: Whatever that may be.	[15] is transmitted.
[16] A: Yes.	[16] <b>Q</b> : And it's your view that the Burst
[17] Q: So is it true that your	[17] concept or that the — let me just use the actual
[18] understanding of the Burst concept is that it is a	[18] language.
[19] transmission in which the audio/video source	[19] It's your view that the Burst
[20] information is — well, I think the last sentence	[20] patents were the first to realize that the
[21] is actually a better sentence.	[21] increasing availability of large memories enabled
You wrote here, "The Burst patents	[22] one to do faster than real-time transmission of a
[23] were the first to realize that the increasing	[23] complete piece of audio/video source information?
[24] availability of large memories could be used to	[24] <b>A:</b> Yes.
[25] enable a new paradigm in transmission of	[25] <b>Q</b> : Now, you understand that there is
Page 28	5 Page 287
[1] Hemami	[t] Hemami
[2] audio/video source information, i.e., 'burst'	[2] cited prior art which is discussed in the file
[3] transmission," right?	[3] history, Haskell being an example, which discloses
[4] <b>A</b> : Yes.	[4] sending pieces of a larger program, where each
[5] Q: And that's because when you had	[5] piece is sent faster than real time but the entire
[6] memories big enough to store the complete	[6] program is only sent in real time, correct?
[7] audio/video source information on the receiving	[7] A: Yes, the Haskell transmission is
	[/]
[8] end, you could send the entire thing that you're	[8] characterized in the file histories as real time.
[9] transmitting faster than real time, right?	[8] characterized in the file histories as real time. [9] We were just opened to that page.
[9] transmitting faster than real time, right? [10] A: I think I would say "on the	[8] characterized in the file histories as real time.
[9] transmitting faster than real time, right? [10] A: I think I would say "on the [11] transmitting end," but it depends on your use of	[8] characterized in the file histories as real time. [9] We were just opened to that page.
[9] transmitting faster than real time, right? [10] <b>A</b> : I think I would say "on the [11] transmitting end," but it depends on your use of [12] "receiving," whether you're talking about received	[8] characterized in the file histories as real time. [9] We were just opened to that page. [10] Q: And you understand that Haskell
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[9] transmitting faster than real time, right? [10] A: I think I would say "on the [11] transmitting end," but it depends on your use of [12] "receiving," whether you're talking about received [13] from an input or — yes. In order to transmit the [14] thing very speedily, the thing has to exist.	[8] characterized in the file histories as real time. [9] We were just opened to that page. [10] Q: And you understand that Haskell [11] sends pieces of the program faster than real time, [12] right?
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[9] transmitting faster than real time, right? [10] A: I think I would say "on the [11] transmitting end," but it depends on your use of [12] "receiving," whether you're talking about received [13] from an input or — yes. In order to transmit the [14] thing very speedily, the thing has to exist. [15] Q: And in order for that to be [16] worthwhile on the user's end, you have to be able	[8] characterized in the file histories as real time. [9] We were just opened to that page. [10] Q: And you understand that Haskell [11] sends pieces of the program faster than real time, [12] right? [13] Let's go back to Haskell. If you [14] don't remember that, we ought to clarify it. I
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[9] transmitting faster than real time, right? [10] A: I think I would say "on the [11] transmitting end," but it depends on your use of [12] "receiving," whether you're talking about received [13] from an input or — yes. In order to transmit the [14] thing very speedily, the thing has to exist. [15] Q: And in order for that to be [16] worthwhile on the user's end, you have to be able [17] to watch it, right? [18] A: Yes.	[8] characterized in the file histories as real time. [9] We were just opened to that page. [10] <b>Q:</b> And you understand that Haskell [11] sends pieces of the program faster than real time, [12] right? [13] Let's go back to Haskell. If you [14] don't remember that, we ought to clarify it. I [15] believe it's Exhibit 81. [16] Do you have it?
[9] transmitting faster than real time, right? [10] A: I think I would say "on the [11] transmitting end," but it depends on your use of [12] "receiving," whether you're talking about received [13] from an input or — yes. In order to transmit the [14] thing very speedily, the thing has to exist. [15] Q: And in order for that to be [16] worthwhile on the user's end, you have to be able [17] to watch it, right? [18] A: Yes. [19] Q: So if you transmitted it ten times	[8] characterized in the file histories as real time. [9] We were just opened to that page. [10] Q: And you understand that Haskell [11] sends pieces of the program faster than real time, [12] right? [13] Let's go back to Haskell. If you [14] don't remember that, we ought to clarify it. I [15] believe it's Exhibit 81. [16] Do you have it? [17] A: I do. [18] Q: Let's make sure that we get this [19] right.
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[9] transmitting faster than real time, right? [10] A: I think I would say "on the [11] transmitting end," but it depends on your use of [12] "receiving," whether you're talking about received [13] from an input or — yes. In order to transmit the [14] thing very speedily, the thing has to exist. [15] Q: And in order for that to be [16] worthwhile on the user's end, you have to be able [17] to watch it, right? [18] A: Yes. [19] Q: So if you transmitted it ten times [20] faster than real time and you can only store [21] 1/10th of it, you couldn't watch it, could you?	[8] characterized in the file histories as real time. [9] We were just opened to that page. [10] <b>Q:</b> And you understand that Haskell [11] sends pieces of the program faster than real time, [12] right? [13] Let's go back to Haskell. If you [14] don't remember that, we ought to clarify it. I [15] believe it's Exhibit 81. [16] Do you have it? [17] <b>A:</b> I do. [18] <b>Q:</b> Let's make sure that we get this [19] right. [20] Do you see in the "Summary of the [21] Invention" section where it describes a scan line
[9] transmitting faster than real time, right? [10] A: I think I would say "on the [11] transmitting end," but it depends on your use of [12] "receiving," whether you're talking about received [13] from an input or — yes. In order to transmit the [14] thing very speedily, the thing has to exist. [15] Q: And in order for that to be [16] worthwhile on the user's end, you have to be able [17] to watch it, right? [18] A: Yes. [19] Q: So if you transmitted it ten times [20] faster than real time and you can only store [21] 1/10th of it, you couldn't watch it, could you? [22] A: If the memory at the receiving end	[8] characterized in the file histories as real time. [9] We were just opened to that page. [10] Q: And you understand that Haskell [11] sends pieces of the program faster than real time, [12] right? [13] Let's go back to Haskell. If you [14] don't remember that, we ought to clarify it. I [15] believe it's Exhibit 81. [16] Do you have it? [17] A: I do. [18] Q: Let's make sure that we get this [19] right. [20] Do you see in the "Summary of the [21] Invention" section where it describes a scan line [22] with a predetermined time duration?
[9] transmitting faster than real time, right? [10] A: I think I would say "on the [11] transmitting end," but it depends on your use of [12] "receiving," whether you're talking about received [13] from an input or — yes. In order to transmit the [14] thing very speedily, the thing has to exist. [15] Q: And in order for that to be [16] worthwhile on the user's end, you have to be able [17] to watch it, right? [18] A: Yes. [19] Q: So if you transmitted it ten times [20] faster than real time and you can only store [21] 1/10th of it, you couldn't watch it, could you? [22] A: If the memory at the receiving end [23] was not sufficiently large to accept what was	[8] characterized in the file histories as real time. [9] We were just opened to that page. [10] Q: And you understand that Haskell [11] sends pieces of the program faster than real time, [12] right? [13] Let's go back to Haskell. If you [14] don't remember that, we ought to clarify it. I [15] believe it's Exhibit 81. [16] Do you have it? [17] A: I do. [18] Q: Let's make sure that we get this [19] right. [20] Do you see in the "Summary of the [21] Invention" section where it describes a scan line [22] with a predetermined time duration? [23] A: Can you give me a line number?
[9] transmitting faster than real time, right? [10] A: I think I would say "on the [11] transmitting end," but it depends on your use of [12] "receiving," whether you're talking about received [13] from an input or — yes. In order to transmit the [14] thing very speedily, the thing has to exist. [15] Q: And in order for that to be [16] worthwhile on the user's end, you have to be able [17] to watch it, right? [18] A: Yes. [19] Q: So if you transmitted it ten times [20] faster than real time and you can only store [21] 1/10th of it, you couldn't watch it, could you? [22] A: If the memory at the receiving end	[8] characterized in the file histories as real time. [9] We were just opened to that page. [10] Q: And you understand that Haskell [11] sends pieces of the program faster than real time, [12] right? [13] Let's go back to Haskell. If you [14] don't remember that, we ought to clarify it. I [15] believe it's Exhibit 81. [16] Do you have it? [17] A: I do. [18] Q: Let's make sure that we get this [19] right. [20] Do you see in the "Summary of the [21] Invention" section where it describes a scan line [22] with a predetermined time duration?

Page 288 Page 290 Hemami Hemami [1] [1] Q: And then it says, "The signal [2] small analog signal. [3] processor compresses in time the duration of each Q: Right. If we go back to the '839 [4] scan line of the video signal." [4] patent, claim 1? A: Yes. A: Yes. **Q**: And then it says that that happens Q: Under your interpretation of time [7] by a predetermined compression factor. [7] compressed representation, that's a [8] data-compressed version of the audio/video source Q: And then later on down at the bottom [9] information, correct? [10] of the summary, it says that there's a receiver [10] A: Yes. [11] where the compressed signal is expanded and the Q: And you explained that compressing [11] [12] "expanded video signal is extracted from [12] an audio/video signal was known to a person of [13] therefrom." Do you see that? [13] ordinary skill in 1988, right? A: Yes. [14] A: Yes. [14] Q: So what Haskell is describing is Q: And certainly storing a compressed [16] compressing the amount of time it takes to send an [16] file was known to a person of ordinary skill in [17] individual scan line, right? [17] the art in 1988, right? A: Yes. A: Yes. [18] Q: Which is only a very small portion Q: And we haven't discussed this but I [19] [19] [20] of a video program, right? [20] believe you'd agree that receiving audio/video A: It is. [21] source information was known to a person of Q: So a portion of a single frame of a [22] ordinary skill in the art in 1988, right? [23] video program, right? A: Yes. [23] A: Yes. [24] Q: So in your view, is it true that the Q: So Haskell describes sending [25] novelty that the part of the Burst patent, claim 1 [25] Page 289 Page 291 Hemami Hemami [2] individual scan lines faster than they need to be [2] of the Burst patent that was new as of 1988 is in [3] displayed, right? [3] the transmitting step? A: The time it takes to transmit a scan MR. PAYNE: Objection. [5] line is less than the time for the CRT to sweep [5] Nick, are you getting into [6] the scan line. [6] areas outside of claim construction at Q: But because the only thing that's [7] this point? [8] being sent faster than real time is one scan line MR. BROWN: I'm trying to [9] as opposed to a complete program, the transmission [9] understand what she said the Burst [10] is still happening in real time, right? [10] concept was. I think we're almost A: I'm sorry. Can you repeat the [11] done and I think she's already said [12] question? [12] this. Q: Sure. One thing — the thing that's MR. PAYNE: I just want to [13] [14] being sent faster than real time in Haskell is a [14] make clear that, you know, she's being [15] scan line, right? [15] tendered today as a claim construction A: Yes. [16] expert and I don't think it's [16] Q: That's being sent faster than the [17] appropriate to get into patentability [18] amount of time it takes to display the scan line? [18] or validity issues so I'm not sure A: Yes. [19] what you're asking her. [19] Q: So Haskell doesn't send the entire MR. BROWN: Sure. What I want [21] program in a time compressed form; it sends [21] to ask her about is the Burst concept [22] portions of the program in a time compressed form, [22] that she described in her claim [23] right? [23] construction expert report. A: I'm not even sure I would call the MR. PAYNE: That's fair game. [24] [25] scan line a portion but yes, an infinitesimally Q: And maybe I'll put it this way.

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		Page 292		Page 294
[1]	Hemami		[1] Hemami	Ü
[2]	Do you agree that the Burst concept		[2] MR. BROWN: You think what's a	
[3]	is not about the specifics of receiving the		[3] typo? "About" or the "200"?	
[4]	audio/video information, compressing it or storing		[4] MR. PAYNE: I think the	
[5]	it?		[5] "bytes" might be a typo but I'm not	
[6]	MR. PAYNE: Objection. Form.		[6] sure.	
[7]	A: The, this is sort of a wholistic		[7] MR. BROWN: Okay.	
[8]	thing.		[8] Q: Well, in any event, the text there	
[9]	Without the data compression, we		[9] says, "about 200 megabytes per second," correct?	
[10]	have, we have discussed that the file sizes are		[10] <b>A:</b> Yes.	
[11]	exorbitantly large. That point is also made in		[11] <b>Q:</b> And that is 1/5th of a gigabyte per	
	the specifications. And I also mention in my		[12] second, right?	
[13]	report that these uncompressed files were		[13] A: Or 1.6 gigabits per second.	
	extremely large and certainly in the case of		[14] Q: Let's go to column 5 of the '995	
[15]	video.		[15] patent.	
[16]	Q: Do you agree that the Burst concept		[16] It says in column 5 at line 21 — or	
-	is the concept of faster than real-time		[17] 20 and 21 that if no data compression is used, "it	
	transmission of audio/video data?		[18] would take approximately 51.03 gigabytes to store	
[19]	MR. PAYNE: Objection. Form.		[19] a 2 hour movie." Do you see that?	
[20]	A: I believe that the Burst concept		[20] <b>A</b> : Yes.	
[21]	involves faster than real-time transmission of		[21] <b>Q</b> : If you're transmitting at .2	
[22]	audio/video data but also requires some other —		[22] gigabytes per second, it's going to take you much	
	it must be — there must be things that occur to		[23] less than two hours to transmit that 51 gigabytes,	
[23]	10 111400 DC			
	enable this, right? I would like to jump off the		[24] correct?	
[24]			[24] COTTECT?	
[24]	enable this, right? I would like to jump off the	Page 293	[24] correct? [25] A: And that's a giant "if" because in	Page 295
[24]	enable this, right? I would like to jump off the	Page 293	A: And that's a giant "if" because in	Page 295
[24] [25] [1]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I	Page 293	A: And that's a giant "if" because in  [1] Hemami	Page 295
[24] [25] [1]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I  Hemami	Page 293	A: And that's a giant "if" because in	Page 295
[24] [25] [1] [2] [3]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I  Hemami need a parachute.	Page 293	A: And that's a giant "if" because in  [1] Hemami [2] the context of this invention, we wouldn't be able	Page 295
[24] [25] [1] [2] [3] [4]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I  Hemami  need a parachute.  Q: Right. Well, let's talk about the	Page 293	A: And that's a giant "if" because in  [1] Hemami [2] the context of this invention, we wouldn't be able [3] to store the 51 gigabytes. This 51 gigabytes is [4] described as precisely in the context of	Page 295
[24] [25] [1] [2] [3] [4] [5]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I  Hemami  need a parachute.  Q: Right. Well, let's talk about the concept of whether the data compression is	Page 293	A: And that's a giant "if" because in  Hemami  the context of this invention, we wouldn't be able to store the 51 gigabytes. This 51 gigabytes is described as precisely in the context of presenting the compression, to motivate and	Page 295
[24] [25] [1] [2] [3] [4] [5]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I  Hemami  need a parachute.  Q: Right. Well, let's talk about the concept of whether the data compression is required for the faster than real-time	Page 293	A: And that's a giant "if" because in  [1] Hemami [2] the context of this invention, we wouldn't be able [3] to store the 51 gigabytes. This 51 gigabytes is [4] described as precisely in the context of	Page 295
[24] [25] [1] [2] [3] [4] [5] [6] [7]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I  Hemami  need a parachute.  Q: Right. Well, let's talk about the concept of whether the data compression is required for the faster than real-time transmission.	Page 293	A: And that's a giant "if" because in  Hemami  the context of this invention, we wouldn't be able to store the 51 gigabytes. This 51 gigabytes is described as precisely in the context of presenting the compression, to motivate and explain why data compression is part of the	Page 295
[24] [25] [1] [2] [3] [4] [5] [6] [7]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I  Hemami  need a parachute.  Q: Right. Well, let's talk about the concept of whether the data compression is required for the faster than real-time transmission.  Why don't you look at the '839	Page 293	A: And that's a giant "if" because in  [1] Hemami [2] the context of this invention, we wouldn't be able [3] to store the 51 gigabytes. This 51 gigabytes is [4] described as precisely in the context of [5] presenting the compression, to motivate and [6] explain why data compression is part of the [7] invention.	Page 295
[24] [25] [1] [2] [3] [4] [5] [6] [7]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I  Hemami  need a parachute.  Q: Right. Well, let's talk about the concept of whether the data compression is required for the faster than real-time transmission.  Why don't you look at the '839 patent at — I don't have it highlighted.	Page 293	A: And that's a giant "if" because in  Hemami  the context of this invention, we wouldn't be able to store the 51 gigabytes. This 51 gigabytes is described as precisely in the context of presenting the compression, to motivate and end explain why data compression is part of the invention.  Response A: And that's a giant "if" because in  Hemami  response to store the 51 gigabytes. This 51 gigabytes is end described as precisely in the context of sometimes of the invention.	Page 295
[24] [25] [1] [2] [3] [4] [5] [6] [7] [8] [9]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I  Hemami  need a parachute.  Q: Right. Well, let's talk about the concept of whether the data compression is required for the faster than real-time transmission.  Why don't you look at the '839 patent at — I don't have it highlighted.  Do you have the '995 patent?  A: I do. I have both.  Q: Why don't you look at that at column	Page 293	A: And that's a giant "if" because in  Hemami  the context of this invention, we wouldn't be able to store the 51 gigabytes. This 51 gigabytes is described as precisely in the context of presenting the compression, to motivate and explain why data compression is part of the invention.  Responded to store the 51 gigabytes, is that right?	Page 295
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[24] [25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I  Hemami  need a parachute.  Q: Right. Well, let's talk about the concept of whether the data compression is required for the faster than real-time transmission.  Why don't you look at the '839 patent at — I don't have it highlighted.  Do you have the '995 patent?  A: I do. I have both.  Q: Why don't you look at that at column  7. And do you have column 7?  A: I do.	Page 293	A: And that's a giant "if" because in  Hemami  the context of this invention, we wouldn't be able to store the 51 gigabytes. This 51 gigabytes is described as precisely in the context of presenting the compression, to motivate and explain why data compression is part of the invention.  Resplain why data compression is preceded to store the 51 gigabytes, is that right?  A: In order to store it in a reasonable unit, yes.  Resplain what the september 2.	Page 295
[24] [25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13]	enable this, right? I would like to jump off the Empire State Building and land safely. Clearly, I  Hemami  need a parachute.  Q: Right. Well, let's talk about the concept of whether the data compression is required for the faster than real-time transmission.  Why don't you look at the '839 patent at — I don't have it highlighted.  Do you have the '995 patent?  A: I do. I have both.  Q: Why don't you look at that at column  7. And do you have column 7?  A: I do.  Q: And at line 55, it describes the	Page 293	A: And that's a giant "if" because in	Page 295
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[24] [25] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23]	Hemami  need a parachute.  Q: Right. Well, let's talk about the concept of whether the data compression is required for the faster than real-time transmission.  Why don't you look at the '839 patent at — I don't have it highlighted.  Do you have the '995 patent?  A: I do. I have both.  Q: Why don't you look at that at column  7. And do you have column 7?  A: I do.  Q: And at line 55, it describes the fiber optic line. Do you see that?  A: I do.  Q: And it describes the speed of the fiber optic line as 200 megabytes per second, correct?  A: Yes, about 200 megabytes per second.  Q: So that is about 1/5th of a gigabyte per second, correct?	Page 293	[1] Hemami [2] the context of this invention, we wouldn't be able [3] to store the 51 gigabytes. This 51 gigabytes is [4] described as precisely in the context of [5] presenting the compression, to motivate and [6] explain why data compression is part of the [7] invention. [8] Q: So in your view, data compression is [9] needed to store the 51 gigabytes, is that right? [10] A: In order to store it in a reasonable [11] unit, yes. [12] Q: And that's, in fact, what the [13] implication of the sentence here, which says that [14] by using the compression, it's estimated that [15] memory will require only 250 megabytes, right? [16] A: Yes. [17] Q: So here they expressly link the use [18] of data compression to reducing the memory [19] requirement? [20] A: That is right. [21] Q: But it's also true that the [22] transmission rate that's described for the fiber	

	Page 296		Pag	ge 298
[1]	Hemami	[1]	Hemami	,
[2]	A: But as we just discussed, we must		the MP3 or there are many MP3 compression	
	store the movie prior to, I'm sorry, prior to		algorithms but they all involve data compression,	
	transmission. And if we can't store it — as you		correct?	
	pointed out, if we don't have enough memory to	[5]	A: Yes.	
	store or, say, on the receiving end to receive the	[6]	Q: So now we have a compressed MP3.	
	whole thing, we're just not going to be able to		organization and the second state of the second and the second state of the second sta	
	transmit the audio/video source information		is the length of the song, right?	
	because we don't, we can't keep it all.	[9]	A: With respect to what we're calling	
[10]	Q: But you do agree that the disclosed	1	associated time periods with the patents, yes.	
	fiber optic line can transmit the uncompressed	[11]	That MP3 file represents audio	
	movie faster than real time, right?		content, which when played back at a normal, at	
[13]	A: If we divide the numbers. If we ask	1	its normal rate, whatever that may be, is three	
	how long it takes to transmit a 51 gigabyte file	1	minutes.	
	over a link of approximately, or sorry, about 200	-	Q: Right. So by compressing the file	
	megabytes per second and if we were told that that	[15]	into an MP3, you aren't changing the time period	
	51 gigabyte file represented something that had a		associated with it, right?	
-	two hour duration, certainly we would conclude	[18]	A 77	
	that that number is smaller than two hours, but in	[19]	• min at a second with all a	
	the context of these patents, that number is not	1 -	song is still the playback length of the song,	
	meaningful.		right?	
[22]	Q: Let's go to page 12 of your expert	[22]	A D COLOREST IN COLOREST	
-	report.	1 -	representation of the content in the abstract	
[24]	A: Yes.	1	form, the song.	
[25]	Q: In the second paragraph under "Audio	[25	a mention of the control of the control	
	Page 297	-		.ge 299
	Hamami		Hamana!	ıye zəə
[1]	and Video Sources," in the third line you state	[1		
[2]	that, "An audio signal in its entirety has an	1 -	associated with a compressed MP3 song is the	
[3]	- · · · · · · · · · · · · · · · · · · ·	Į.	length of the song, right?	
	associated 'length.'" Do you see that?  A: Yes.	[4	<del>-</del>	
[5]	O. A. J. war care that langth tangeness	1 '	song is, the answer to that question does not change whether we MP3 it, whether we DPCM it,	
[6]	"I I I was built a should a should form a		-	
[7]	recording or to listen to it," right?		whether we do something horrible to it such that	
	A. N (Tile - to settle to a second tile - being		we can't play it back, then it was a three minute	
(a)	there that we're not going to chipmunk it, yes.		of song.  Government of the sound of the sou	
	<b>77</b> 116 1 000 000	[10	of the song, doesn't that imply that something	
[11]	chipmunk it??	- 11	horrible wasn't done to it and you're going to be	
	A X7	1	a able to recreate the song?	
[13	0 D # 11 1 1 1 2 1 1 2 2 2 2 2 2 2 2 2 2 2	- 1	A *** 111 .	
[14	DDM ID wound at 150	[14		
[15	A 77	[15	g discussed this expressly but it, do you agree that	
[16	O D comments of		a person of ordinary skill in the art when seeing	
[17	A share minute condition		the word "representation" in the context of the	
[18	A A	- 1	g Burst patents, the representation of an	
[19			g audio/video source information, would understand	
[20	right? That audio song has an associated time		that that representation could be converted back	
	period of three minutes, right?		~	
			2) into something that had meaning?	
[23	•	[2	3] A: Yes.	
[24	Q: Okay. Now, let's suppose that we	[2	Q: And if not a perfect representation	

[25] of the original audio/video source information, at

[25] compress that song into an MP3 file, okay? And

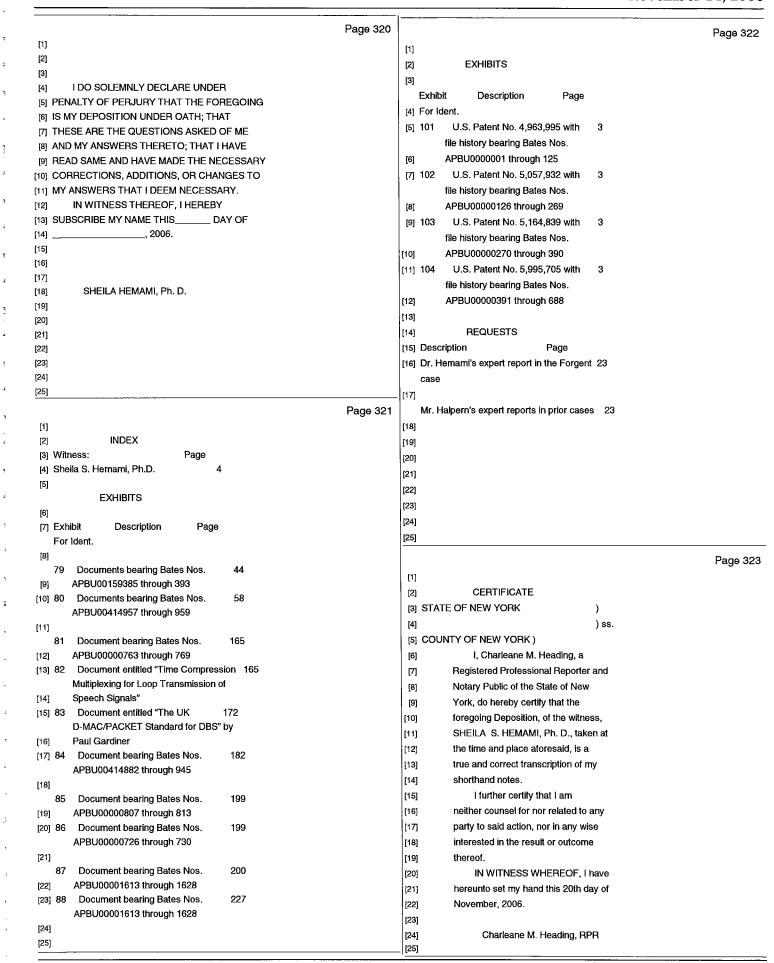
Page 300	Page 302
[t] Hemami	[1] Hemami
[2] least it would be a highly-correlated	[2] There's a time period that is
[3] representation. Is that right?	[3] depicted in that figure for both of those signals,
[4] A: Good enough. Yes. A good enough	[4] correct?
[5] representation.	[5] <b>A:</b> Yes.
[6] <b>Q</b> : Okay. And because of that, it's	[6] Q: And it's hard to be exact but it
[7] fair to say that when you compress the song,	[7] seems that the figure on the right has a time
[8] you're not changing the length of time associated	[8] period that is about half of the time period of
[9] with the song, right?	[9] the signal on the left. Is that right?
[10] MR. PAYNE: Objection. Form.	[10] A: I would say that the expanse of the
[11] A: You're not changing the length of	[11] X-axis on the right, yes, appears to be about half
[12] time in which you would play back the song. With	of the expanse of the X-axis on the left.
[13] respect to the length of time associated with the	[13] <b>Q:</b> And you said before that the one on
[14] song, the patent uses, the patents use burst time	[14] the right is a time compressed version of the one
[15] periods, they use time periods associated with the	[15] on the left, right?
[16] real-time representation and I think that there's	[16] A: In the context of time-compression
another association which was discussed yesterday.	[17] multiplexing, which is described here on page 609,
[18] So it's a little loose.	[18] which is a technique for full duplex
[19] <b>Q</b> : Let's shift gears for a second and	[19] communication, which means that both parties are
[20] can you get out the Gitlin reference, Exhibit 84,	[20] communicating simultaneously, this block diagram
[21] and go to page 609?	[21] pertains to time-compression multiplexing.
[22] <b>A</b> : 609, okay.	[22] What we see at the top is simply a
[23] <b>Q</b> : Do you have page 609?	[23] graphic representing clocking bits out at a faster
[24] <b>A:</b> I do.	rate than they were originally put in.
[25] <b>Q:</b> And do you recall that you testified	[25] Q: Or in other words, clocking the same
Page 301	Page 303
[1] Hemami	[1] Hemami
[2] earlier about the top portion of the figure on	[2] bits out in a shorter time period?
[3] page 609?	[3] A: I think that's more eloquent.
[4] <b>A</b> : Yes.	MR. PAYNE: Nick, I haven't
[5] Q: And I believe you said that the	[5] been keeping track of the exact time.
[6] horizontal axis in those depictions represents	[6] I don't know where we are. Are you —
[7] time, right?	MR. BROWN: I don't know
[8] <b>A</b> : Yes.	[8] either. Why don't we do this? Let me
Q: And you said that the signal — if	g ask a couple more questions. Then
[10] you look at the left half of that picture, there	[10] we'll take a break and add up the
[11] are two images in the top portion, right? And one	[11] time. How's that?
[12] of them is a representation of the other that has	[12] MR. PAYNE: Sounds good.
[13] a shorter time scale, correct?	[13] MR. BROWN: Can you read back
[14] <b>A</b> : Yes.	[14] the last question and answer?
[15] <b>Q:</b> So the one on the right, the, the	[15] (Record read as follows:
[16] time that's associated with that representation	[16] "Question: And you said
[17] looks to be about half the time that's associated	[17] before that the one on the right is a
[18] with the other representation, right?	[18] time compressed version of the one on
[19] A: Well, I don't want to use	[19] the left, right?
	[20] "Answer: In the context of
[20] "associated" with the representation in your	
[20] "associated" with the representation in your [21] question to correspond to the same "associated"	[21] time-compression multiplexing, which
<del>-</del>	[21] time-compression multiplexing, which [22] is described here on page 609, which
[21] question to correspond to the same "associated"	
[21] question to correspond to the same "associated" [22] when we were talking about the three minute with	is described here on page 609, which

	Page 304		Р	age 30
[1]	Hemami	[1]	Hemami	
[2]	simultaneously, this block diagram	[2]	okay, those little square waves.	
[3]	pertains to the time-compression	[3]	If we clock the rate at which the	
[4]	multiplexing.	[4]	bits are produced in the digitized voice band	
[5]	"What we see at the top is	[5]	signal, the rate at which those bits are clocked	
[6]	simply a graphic representing clocking	[6]	onto the channel is a higher rate than the rate at	
	bits out at a faster rate than they	[7]	which they were produced.	
[8]	were originally put in.	[8]	Q: And that's accomplished using a	
[9]	"Question: Or in other words,	[9]	buffer and reading the bits out of the buffer	
10]	clocking the same bits out in a	[10]	faster than they're read in, right?	
11]	shorter time period?	[11]	A: In this diagram, that is what is	
12]	"Answer: I think that's more	[12]	done, yes. We have a buffer and then the buffer	
13]	eloquent."	[13]	leads into the box which says burst transmission.	
14]	Q: Is it true that the graphic at the	[14]	MR. BROWN: Okay. Let's go	
15]	top of the figure shows reading the same bits out	[15]	off the record to check the time.	
[16]	in a shorter time period?	[16]	THE VIDEOGRAPHER: The time is	
[17]	A: Yes.	[17]	now 5:15. Off the record.	
[18]	Q: Which is another way of saying that	[18]	(Recess taken)	
[19]	they were read out at a higher rate?	[19]	THE VIDEOGRAPHER: The time is	
[20]	A: Yes.	[20]	now 5:19. On the record.	
[21]	Q: And the text describes that process	[21]	BY MR. BROWN:	
		[22]	Q: Let's look at the Izeki reference,	
[23]	period as time compression, correct?	[23]	Exhibit 88.	
[24]	A: That I'm not sure. Let me read the	[24]	A: I had it handy and then — here it	
[25]	text.	[25]	is. I have it.	
	Page 305		F	Page 3
[1]	Hemami	[1]	Hemami	
[2]	Q: Okay.	[2]	Q: Okay. Specifically I'd like to have	
[3]	(Pause)	[3]	you look at Figure 1. Do you see that?	
[4]	A: So the text does not use those	[4]	A: Yes.	
[5]	words. The text describes that this technique	[5]	Q: And you remember there's a comment	
[6]	alternates fast transmission bursts in each	[6]	in your expert report about the premastering unit?	
	direction saving up data submitted to each	[7]	A: Yes.	
	transmitter at a lower rate in buffers so that	[8]	Q: And you see that that's at the	
[9]	each of the end terminals has the illusion of a	[9]	bottom right of that figure?	
[10]	continuously available channel.	[10]	<b>A:</b> I do.	
[11]	·	[11]	•	
	at a faster rate is referred to in the text as the	[12]	display and keyboard, which are marked as 49 and	
-	fast transmission burst, right?	[13]	50?	
-		1. 1	A: Yes.	
[13] [14]	A: I think the transmission of the data	[14]		
[13] [14]	A: I think the transmission of the data that was read out is the fast transmission burst.	-	Q: And do you see how they have a	
[13] [14] [15] [16]	A: I think the transmission of the data that was read out is the fast transmission burst.  Q: Okay. And the length of time that	[14]	Q: And do you see how they have a dotted line around them?	
[13] [14] [15] [16]	A: I think the transmission of the data that was read out is the fast transmission burst.  Q: Okay. And the length of time that that fast transmission burst occupies is smaller	[14] [15]	Q: And do you see how they have a dotted line around them? A: I do.	
[13] [14] [15] [16] [17] [18]	A: I think the transmission of the data that was read out is the fast transmission burst.  Q: Okay. And the length of time that that fast transmission burst occupies is smaller than the length of time of the, occupied by the	[14] [15] [16] [17] [18]	<ul><li>Q: And do you see how they have a dotted line around them?</li><li>A: I do.</li><li>Q: Does that indicate to you that those</li></ul>	
[13] [14] [15] [16] [17] [18]	A: I think the transmission of the data that was read out is the fast transmission burst.  Q: Okay. And the length of time that that fast transmission burst occupies is smaller than the length of time of the, occupied by the incoming signal?	[14] [15] [16] [17] [18]	<ul> <li>Q: And do you see how they have a dotted line around them?</li> <li>A: I do.</li> <li>Q: Does that indicate to you that those are separate from the interface they're connected</li> </ul>	
[13] [14] [15] [16] [17] [18] [19]	A: I think the transmission of the data that was read out is the fast transmission burst.  Q: Okay. And the length of time that that fast transmission burst occupies is smaller than the length of time of the, occupied by the incoming signal?  A: If we clocked the data rate as in	[14] [15] [16] [17] [18]	<ul><li>Q: And do you see how they have a dotted line around them?</li><li>A: I do.</li><li>Q: Does that indicate to you that those</li></ul>	
[13] [14] [15] [16] [17] [18] [19] [20]	A: I think the transmission of the data that was read out is the fast transmission burst.  Q: Okay. And the length of time that that fast transmission burst occupies is smaller than the length of time of the, occupied by the incoming signal?  A: If we clocked the data rate as in the rate at which data was being produced and we	[14] [15] [16] [17] [18]	<ul> <li>Q: And do you see how they have a dotted line around them?</li> <li>A: I do.</li> <li>Q: Does that indicate to you that those are separate from the interface they're connected to?</li> </ul>	
[13] [14] [15] [16] [17] [18] [19] [20]	A: I think the transmission of the data that was read out is the fast transmission burst.  Q: Okay. And the length of time that that fast transmission burst occupies is smaller than the length of time of the, occupied by the incoming signal?  A: If we clocked the data rate as in	[14] [15] [16] [17] [18] [19]	Q: And do you see how they have a dotted line around them?  A: I do.  Q: Does that indicate to you that those are separate from the interface they're connected to?  A: It does not.	
[13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23]	A: I think the transmission of the data that was read out is the fast transmission burst.  Q: Okay. And the length of time that that fast transmission burst occupies is smaller than the length of time of the, occupied by the incoming signal?  A: If we clocked the data rate as in the rate at which data was being produced and we do not see the production mechanism here but this is described with respect to voice band	[14] [15] [16] [17] [18] [19] [20]	Q: And do you see how they have a dotted line around them?  A: I do.  Q: Does that indicate to you that those are separate from the interface they're connected to?  A: It does not.  Q: Why not?	
[13] [14] [15] [16] [17] [18] [20] [21] [22] [23]	A: I think the transmission of the data that was read out is the fast transmission burst.  Q: Okay. And the length of time that that fast transmission burst occupies is smaller than the length of time of the, occupied by the incoming signal?  A: If we clocked the data rate as in the rate at which data was being produced and we do not see the production mechanism here but this	[14] [15] [16] [17] [18] [19] [20] [21] [22]	<ul> <li>Q: And do you see how they have a dotted line around them?</li> <li>A: I do.</li> <li>Q: Does that indicate to you that those are separate from the interface they're connected to?</li> <li>A: It does not.</li> <li>Q: Why not?</li> </ul>	

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[1]	Hemami	[1] Hemami
[2]	that it was separate although that was my initial	[2] console being something which houses things
[3]	hypothesis. That's why I read the patent in that	3 together, would you agree that console 48 houses
	light.	[4] the display and the keyboard?
[5]	Q: Okay. Are you familiar with the	[5] A: Yes.
	term "console"?	[6] <b>Q</b> : And that indicates that that group,
[7]	A: Yes.	that console 48 is separate from the remainder of
[8]	Q: And what does a console mean to you?	[8] the device, correct, at least physically separate
[9]	A: Well, we have the term of furniture	[9] from the remainder of the device?
	which, which we'll discount.	
[11]	A console is a large unit — that	that way, again, because I read this in the
	makes a lot of sense. It's a mechanism by which	
	equipment can be housed together.	[12] context of attempting to understand what the [13] dashed lines meant and I concluded that the dashed
[14]	Q: I've heard the term "console" used	
	in the context of mainframe computing to refer to	[14] lines were not separate physical entities.
	the device which is used to connect to the	[15] Perhaps you can suggest — show me
	mainframe.	where the console — [17] Q: Sure. So the console is at page 2.
[18]	Have you heard the term used in that	<u>-</u> -
	way?	[18] I'm sorry, column 2, line 65 is the first place [19] where I noticed console.
[20]	A: No, I haven't used it — I have not	<u> </u>
	heard it used in that way.	[20] A: Okay.
[22]	Q: You've heard "terminal" used in that	[21] <b>Q</b> : Do you see that?
	way, correct?	[22] A: Okay. I do.
[24]	A: I have.	[23] Q: And so it says there that the
[25]	Q: So in your mind "console" and	[24] console includes a display unit and a keyboard,
		[25] right?
	Page 309	Page 311
[1]	Hemami	[1] Hemami
121	"terminal" are not the same thing?	
[2]		[2] A: It does.
[3]	A: They are not.	[3] Q: Which is exactly what's pictured in
[3] [4]	A: They are not. Q: What's the difference?	[3] <b>Q</b> : Which is exactly what's pictured in [4] the figure?
[3] [4] [5]	<ul><li>A: They are not.</li><li>Q: What's the difference?</li><li>A: Well, a console is — what was my</li></ul>	[3] Q: Which is exactly what's pictured in [4] the figure? [5] A: Yes.
[3] [4] [5] [6]	<ul> <li>A: They are not.</li> <li>Q: What's the difference?</li> <li>A: Well, a console is — what was my previous definition? It was a —</li> </ul>	[3] Q: Which is exactly what's pictured in [4] the figure? [5] A: Yes. [6] Q: And then it talks about, in the
[3] [4] [5] [6]	A: They are not.  Q: What's the difference?  A: Well, a console is — what was my previous definition? It was a —  Q: Something about a large unit.	[3] Q: Which is exactly what's pictured in [4] the figure? [5] A: Yes. [6] Q: And then it talks about, in the [7] sentence that spans column 2 and 3, it says, "The
[3] [4] [5] [6] [7]	A: They are not.  Q: What's the difference?  A: Well, a console is — what was my previous definition? It was a —  Q: Something about a large unit.  A: Yes, and there was housing. Is it	[3] Q: Which is exactly what's pictured in [4] the figure? [5] A: Yes. [6] Q: And then it talks about, in the [7] sentence that spans column 2 and 3, it says, "The [8] inputted instructions and character data are
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[3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [12] [13]	A: They are not.  Q: What's the difference?  A: Well, a console is — what was my previous definition? It was a —  Q: Something about a large unit.  A: Yes, and there was housing. Is it possible to —  Q: We can go back, sure.  (Record read)  A: So I would say a console is a unit which allows one to house equipment in a common housing.	[3] Q: Which is exactly what's pictured in [4] the figure? [5] A: Yes. [6] Q: And then it talks about, in the [7] sentence that spans column 2 and 3, it says, "The [8] inputted instructions and character data are [9] transferred from the console 48 to the system [10] bus," right? [11] A: Yes. [12] Q: Which suggests that that data is [13] moved out of the console and into the system, [14] right?
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[3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [20] [21]	A: They are not.  Q: What's the difference?  A: Well, a console is — what was my previous definition? It was a —  Q: Something about a large unit.  A: Yes, and there was housing. Is it possible to —  Q: We can go back, sure.  (Record read)  A: So I would say a console is a unit which allows one to house equipment in a common housing.  Q: Okay. So if you look at Figure 1 —  do you have Figure 1?  A: Yes.  Q: Forty-eight I will represent to you is described as a console. Do you see 48?  A: Okay.  Q: And 48 is pointing to the dashed line that surrounds the display and the keyboard.  Do you see that?  A: Okay.	Q: Which is exactly what's pictured in  [4] the figure?  [5] A: Yes.  [6] Q: And then it talks about, in the  [7] sentence that spans column 2 and 3, it says, "The  [8] inputted instructions and character data are  [9] transferred from the console 48 to the system  [10] bus," right?  [11] A: Yes.  [12] Q: Which suggests that that data is  [13] moved out of the console and into the system,  [14] right?  [15] MR. PAYNE: Objection to form.  [16] A: Well, the data is — I don't know if  [17] we would say it is moved. It certainly travels  [18] via the interface to the system bus.  [19] Q: But certainly that portion of the  [20] specification of Izeki suggests that, that console  [21] 48 is separate physically from the remainder of  [22] the system, correct?

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[1]	Hemami	[1] Hemami
	of editing apparatus.	[2] <b>Q:</b> Okay. And you agree that the dotted
[3]	Q: Well, let's look at the other	[3] line that is referenced by number 55 is referred
	example of the dotted line. Do you see the other	[4] to as a reproduction device, correct?
	example of the dotted line in Figure 1?	[5] A: It is referred to as a reproduction
[6]	A: Yes.	[6] device.
[7]	Q: And that's identified as 55?	[7] <b>Q</b> : And that's the same word, "device,"
[8]	A: Yes.	[8] that was later used to refer to something that was
[9]	Q: And 55 is identified as a	[9] physically separate from the components of the
	reproduction device. Do you see that?	[10] system, right?
[11]	A: Yes.	[11] A: Yes.
[12]	Q: And that device has a number of	[12] <b>Q</b> : And you agree the reproduction
	components, correct?	[13] device has inside it its own CPU and its own RAM
[14]	A: It does.	[14] and it's own data bus, right?
[15]	Q: Don't you — or do you agree that	[15] A: It does have those units.
[16]		[16] <b>Q</b> : And the remainder of the system in
	reproduction device which has its own CPU and RAM	[17] Figure 1 has a CPU and RAM and a system bus,
	shows that it is a separate device?	[18] right?
[19]	A: Separate from what?	[19] A: It does.
[20]	Q: From the remainder of the system.	[20] Q: So taking those things together —
[21]		[21] well, let me — we'll throw in one more.
[22]	MR. PAYNE: Objection to the	Do you see that there's a box
	form.	[23] labeled 102 that says "video repro"?
[24]	A: I still don't understand, "separate	[24] A: Yes.
[25]	from the rest of the system."	[25] <b>Q</b> : I'll represent to you that that is,
	Page 313	. age :
[1]		[1] Hemami
[2]		[2] means "video reproduction." In the patent that's
[3]	A: It is something that is in the left column of units that is hanging off of the system	[3] described that way.
	bus.	[4] And do you see there's an audio
		[5] repro number 106?
[6]	at another example of the word "device."	[6] A: Yes.
	2.777	7] Q: That's audio reproduction.
[8]	looking at this earlier. It says, "An image	[8] A: Yes.
	pickup device not shown, such as a television	[9] Q: Taking all that together, including
	camera." Do you see that?	[10] the fact that it's shrouded by a dotted line,
[12]	A 77	[11] would you agree that that shows that the [12] reproduction device 55 is physically separate from
[13]		[13] the remainder of the system?
	Figure 1, right?	A 37 7
[15]	A	
[16]		
	which is physically separate from the system shown	[16] A: This could be a board that one would [17] plug in. And in the context of this patent,
	in Figure 1, right?	[18] again, I, I read this specifically to try and
[19]		[19] understand that and I reached the conclusion that
	separate.	[20] it was not necessarily an external device, that
[21]		[21] this could just as easily be something internal
	is using the term "device" to refer to a device, a	[22] that sits within the entire editing apparatus
	thing that is physically separate from the core of	[23] unit.
	the system, right?	[24] <b>Q</b> : How do you explain the presence of
[25]		[25] the dotted line around the reproduction device and
	•	Topodaction device und

Page 316	Page 31
[1] Hemami	[1] Hemami
[2] the console but not the other components in Figure	[2] your report, please?
[3] 1?	[3] A: Okay.
[4] A: I think that the dotted line is	[4] <b>Q</b> : Do you recall earlier today that
[5] there to very clearly delineate what item 55 is	[5] Apple's counsel asked you about the descriptions
[6] and what item 48 is in the description.	[6] 1, 2, 3 and 4 on pages 42 and 43?
Everything else here is a	[7] <b>A</b> : Yes.
[8] singleton, right? Sometimes we see in patents	[8] <b>Q</b> : And what do those descriptions
191 that something is generally referred to as a	[9] pertain to?
o single number and it has multiple components and	[10] A: So as stated in the prior paragraph,
ıı it's not boxed off. These are boxed off as —	[11] these are descriptions of various operations for
what's the word I want — composite components.	[12] which the term "time compression" was used to
al MR. PAYNE: It's been over ten	[13] describe.
4] minutes.	[14] The phrasing there is not very good
MR. BROWN: Then why don't we	[15] but these were, these were operations that were
es stop.	[16] called "time compression" in the 1988 time frame.
MR. PAYNE: Let me — I've got	[17] <b>Q</b> : What is the first sentence after the
18] a couple of follow-up questions.	[18] fourth category on page 43?
19] MR. BROWN: Oh, go ahead.	[19] A: So after presenting these four
EXAMINATION BY	[20] descriptions, I state that none of these
MR. PAYNE:	[21] definitions is applicable to the Burst patents.
Q: Dr. Hemami, as you know, my name is	[22] <b>Q:</b> So do you have an opinion as to
Les Payne and I represent Burst.	[28] whether those four definitions pertain, as to the
Can you turn to your report marked	[24] Burst patents, to the area of digital
as Exhibit 78, please, specifically page 26,	[25] communication of audio/video source information?
Page 317	Page 3
[1] Hemami	[1] Hemami
[2] please?	[2] A: As that information is communicated
[3] A: Okay.	[3] in the Burst patents, neither — none of those
[4] <b>Q</b> : Section 3 of your report deals with	[4] descriptions is relevant.
[5] "The Level of Ordinary Skill in the Art," correct?	[5] THE VIDEOGRAPHER: Excuse me,
[6] <b>A</b> : Yes.	[6] Counsel. You have ten minutes of tape
Q: You say, "In general, a person of	[7] <b>left</b> .
[8] ordinary skill in the art would work in the area	[8] A: And none of those descriptions is
[9] of digital communication of audio/video source	[9] applicable.
[10] information," correct?	[10] MR. PAYNE: Pass the witness.
	[11] Do you want to follow up?
MR. BROWN: Les, you're	[11] Do you want to follow up? [12] MR. BROWN: I was thinking
MR. BROWN: Les, you're [13] leading. I don't mind if you're	[11] Do you want to follow up? [12] MR. BROWN: I was thinking [13] about that, Les.
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Lawyer's Notes