Apple Computer Inc. v. Burst.com, Inc. SHEILA HEMAMBase 3:06-cv-00019-MHP November 14, 2006

Document 75-3

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Hemami	[1] Hemami
A: Yes.	[2] discussed two places where the digitization of
<b>Q:</b> It describes implementing algorithms	[3] data occurred. One was in column 4 and two
in software, correct?	[4] paragraphs that you described the digitization of
A: Yes.	[5] video, correct?
<b>Q</b> : It also describes implementing	[6] <b>A:</b> Yes.
algorithms in hardware, correct?	[7] <b>Q:</b> And the other was in column 5 in a
n A: Yes.	[8] portion of a paragraph which described the
<b>Q:</b> And then it says, near the end,	[9] digitization of audio, correct?
"Finally, an algorithm can be implemented using a	[10] <b>A</b> : Yes. Yes.
combination of both hardware and software."	[11] <b>Q</b> : In the context of the Burst patents,
Actually, it says, "both software and hardware."	[12] is data compression a reduction in the number of
Is that right?	[13] bits as compared to the number of bits in what was
A: Yes.	[14] obtained as a result of one of those two
<b>Q</b> : Going back to the '995 patent, I	[15] digitization processes?
a want to talk about compression hardware. But	[16] A: Yes, I would agree with that
n first, actually, I think we should turn to your	[17] statement.
ej definition of "compression."	[18] <b>Q:</b> So now we have a definition of
If you look on page 33 of your	[19] "compression" or "data compression," correct?
) expert report —	[20] <b>A:</b> Yes.
1] <b>A:</b> Yes.	[21] <b>Q</b> : Let's talk about the hardware that's
$\mathbf{Q}:$ — the bottom of paragraph, of the	[22] identified in the Burst patents for performing
a last paragraph on page 33, you state,	[23] that function of reducing the number of bits.
4) "Fundamentally, compression in the Burst patents	[24] Okay?
requires a reduction in the number of bits."	[25] <b>A:</b> Okay.
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1] Hemami	[1] Hemami
2) Do you see that?	[2] <b>Q:</b> Well, you look — would you agree
3] <b>A</b> : Yes.	[3] with me that compression, i.e., reducing the
4] <b>Q</b> : And then you say, "or data	[4] number of bits, is a function?
5] compression." Do you see that?	[5] <b>A:</b> Yes.
6] <b>A</b> : Yes.	[6] <b>Q</b> : Okay. Would you agree with me that
7] <b>Q</b> : Is it true that it's your opinion	[7] the Burst patents describe hardware for performing
<sup>8]</sup> that a reduction in the number of bits is data	[8] that function?
9 compression?	(9) A: And that is what I was hesitating on
A: Reduction relative to what?	[10] earlier. The Burst patents provide us with a
1] <b>Q:</b> That's an excellent question. You	[11] block diagram that has a compressor/decompressor
2] wrote here, "Compression in the Burst patents	[12] box labeled on it.
3] requires a reduction in the number of bits," and	[13] I understand that to mean in an
4) you didn't specify as compared to what.	[14] implementation, there would be something inside
5] A: So —	[15] the compressor/decompressor box which would not be
•	[16] a standalone computer, you know, a monitor and
6] <b>Q</b> : But let me finish the question.	[16] a standarone computer, you know, a monitor and
	[17] everything. It would be some amount of hardware
6] <b>Q:</b> But let me finish the question.	
<ul> <li>q: But let me finish the question.</li> <li>A: Sorry.</li> </ul>	[17] everything. It would be some amount of hardware
<ul> <li>G Q: But let me finish the question.</li> <li>A: Sorry.</li> <li>Q: Is it accurate that your view is</li> </ul>	[17] everything. It would be some amount of hardware [18] which would be implementing compression algorithms
<ul> <li>Q: But let me finish the question.</li> <li>A: Sorry.</li> <li>Q: Is it accurate that your view is</li> <li>that compression I'm sorry. Let me start</li> </ul>	<ul> <li>[17] everything. It would be some amount of hardware</li> <li>[18] which would be implementing compression algorithms</li> <li>[19] in hardware, software or a combination of hardware</li> </ul>
<ul> <li>Q: But let me finish the question.</li> <li>A: Sorry.</li> <li>Q: Is it accurate that your view is</li> <li>that compression - I'm sorry. Let me start</li> <li>again.</li> </ul>	<ul> <li>[17] everything. It would be some amount of hardware</li> <li>[18] which would be implementing compression algorithms</li> <li>[19] in hardware, software or a combination of hardware</li> <li>[20] and software.</li> </ul>
<ul> <li>G: But let me finish the question.</li> <li>A: Sorry.</li> <li>G: Is it accurate that your view is</li> <li>et that compression — I'm sorry. Let me start</li> <li>again.</li> <li>Is it accurate that in your opinion,</li> </ul>	<ul> <li>[17] everything. It would be some amount of hardware</li> <li>[18] which would be implementing compression algorithms</li> <li>[19] in hardware, software or a combination of hardware</li> <li>[20] and software.</li> <li>[21] Q: I want to come back to that answer</li> <li>[22] for a second. I first want to point you to the</li> </ul>
<ul> <li>G: But let me finish the question.</li> <li>A: Sorry.</li> <li>G: Is it accurate that your view is</li> <li>that compression — I'm sorry. Let me start</li> <li>again.</li> <li>Is it accurate that in your opinion,</li> <li>data compression means a reduction in the number</li> </ul>	<ul> <li>[17] everything. It would be some amount of hardware</li> <li>[18] which would be implementing compression algorithms</li> <li>[19] in hardware, software or a combination of hardware</li> <li>[20] and software.</li> <li>[21] <b>Q</b>: I want to come back to that answer</li> </ul>

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[1] Hemami	[1] Hemami
[2] that performs the function of compression as	[2] you've listed, one of ordinary skill in the art
[3] you've defined it?	<sup>[3]</sup> would expect the, or would understand the A.M.D.
[4] A: It certainly performs compression of	[4] 7971 to be hardware for performing compression in
[5] the input signal that is given to it, the raw bits	[5] the sense of reducing the number of bits?
[6] that go in.	[6] <b>A</b> : Yes.
[7] Now, let me say performs	[7] <b>Q</b> : Now, you also refer to the
[8] compression, it performs a compression algorithm	[8] compressor/decompressor 26, correct?
9 on the data. There is no guarantee because as we	[9] <b>A</b> : Yes.
(10) discussed, the data could be anything but that	[10] <b>Q:</b> And you said that you would
	[11] interpret that as being some combination of
	[12] hardware and software. Is that correct?
[13] expectation that most of the time, if we fed it	[13] MR. PAYNE: Objection. Form.
[14] something that met the expectations for which the	[14] A: I think I said hardware — hardware,
[15] algorithm was designed, that we would see	[15] what did I say? Hardware or hardware and
[16] compression.	[16] software? If that includes combination, software
[17] <b>Q:</b> Fair enough. And the algorithm was	[17] running on hardware, all right.
[18] designed for fax transmission. Is that right?	[18] There's not a squirrel in the box,
[19] <b>A:</b> The algorithm was designed for	[19] okay? There is some hardware that operates using
[20] binary, two-dimensional signals which are signals	[20] electrical signals, right?
[21] such as are encountered in fax transmission.	[21] <b>Q:</b> Right.
[22] <b>Q</b> : So one of ordinary skill in the art	[22] A: It is unquestionable that there is
[23] would expect the A.M.D. 7971 chip to perform	[23] hardware in the box.
[24] compression of binary image data that was fed into	[24] Now, we can delineate whether the
[25] it. Is that correct?	[25] hardware is general purpose hardware such as a CPU
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[1] Hemami	[1] Hemami
[2] A: That met approximate statistical	<sup>[2]</sup> or a DSP chip or whether it is custom-designed
<sup>[3]</sup> characterizations for — when you say	<sup>[3]</sup> hardware or a combination of both stock and
[4] "compression," it would be smaller if we fed in	[4] custom-designed hardware.
[5] data that had the right statistical	[5] <b>Q</b> : Okay. Let's go back to, I believe,
[6] characteristics.	[6] let's see, it was page, I apologize, 16 of your
[7] <b>Q:</b> And that would include ordinary	[7] report. Do you have page 16?
[8] images?	[8] <b>A:</b> I do.
<sup>[9]</sup> A: That would include higher bit planes	[9] <b>Q:</b> And there you describe implementing
[10] of an "ordinary image." I am interpreting that to	[10] compression algorithms in either software,
[11] mean either a gray scale image so we have, for	[11] hardware or a combination of both software and
[12] example, you have a black and white camera which	[12] hardware, right?
<ul><li>[12] example, you have a black and white camera which</li><li>[13] gives gray, gray scale or the color planes,</li></ul>	[13] A: Yes.
<ul> <li>[12] example, you have a black and white camera which</li> <li>[13] gives gray, gray scale or the color planes,</li> <li>[14] specific color planes of a color image.</li> </ul>	<ul> <li>[13] A: Yes.</li> <li>[14] Q: Now, I take it from what you just</li> </ul>
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I] Hemami	(1) Hemami
2] word processing.	[2] which is, I think, the 1.89. Is that the number?
<b>Q:</b> Okay. So the, so you understand the	[3] <b>Q:</b> I think that's right, $1.89$ .
a) compressor/decompressor 26 in the '995 patent to	[4] A: The 1.89 megabit per second, that
be referring to at least hardware and potentially	[5] number is already smaller when considering — that
of also software running on that hardware. Is that	[6] is certainly the size of a raw digitized frame.
ק right?	[7] No question about it. But with respect to
B] A: I think that's a good way to	[8] performing video compression, the size of the
9 describe it, yes.	<sup>[9]</sup> input would be smaller than that.
<b>Q</b> : Is it your understanding that if the	[10] We would not run all of the bit
1] A.M.D. 7971 chip were used to implement a	[11] planes through a CCITT Group IV algorithm. We
2] compression algorithm in the context of the Burst	[12] wouldn't even, we wouldn't keep all of the bit
3) patents, that it would be used inside that box 26?	[13] planes. We just don't need them.
A: Yes. Now, when, when you say "to	[14] <b>Q:</b> Would eliminating some of those bit
5] implement a compression algorithm," it would be a	[15] planes be part of the compression algorithm?
of component of the implementation of the compression	[16] A: In the context that eliminating bit
7] algorithm. It would not be the sole — if you	[17] planes is quantization, and quantization is
e looked inside the box, there would be more than	[17] planes is quantization, and quantization is [18] certainly a step that we see in lossy compression.
9 just —	[19] It is the bit plane elimination which is providing
$\mathbf{Q}$ : — than just the A.M.D. 7971 chip?	<sup>[19]</sup> It is the bit plane emination which is providing <sup>[20]</sup> the loss which we are relying upon to get our file
A: Than just the A.M.D. chip, yes.	[21] size as small as possible. So it's a quantization
<b>Q:</b> Okay. So standing alone by itself,	[21] size as small as possible, so it's a quantization [22] operation.
<sup>23</sup> the A.M.D. 7971 chip can't do video compression,	
4] correct?	[23] In that context, yes, it would be [24] part of the compression algorithm.
A: Well, in the context of what is	
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[1] Hemami	[1] Hemami
[2] described here, material needs to be moved around,	[2] patent, it would be part of the compression
[3] frames, you know.	[3] algorithm. Is that right?
[4] In the context of a, designing a	
	[4] A: Certainly.
[5] digital system, I would expect that there would be	[5] <b>Q</b> : Other than the
<ul><li>[5] digital system, I would expect that there would be</li><li>[6] more than just a single chip there. There would</li></ul>	<ul> <li>[5] Q: Other than the</li> <li>[6] compressor/decompressor 26 and the A.M.D. chip,</li> </ul>
<ul> <li>[5] digital system, I would expect that there would be</li> <li>[6] more than just a single chip there. There would</li> <li>[7] be some type of supporting peripheral hardware,</li> </ul>	<ul> <li>[5] Q: Other than the</li> <li>[6] compressor/decompressor 26 and the A.M.D. chip,</li> <li>[7] did the Burst patents describe any hardware for</li> </ul>
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		9 144	Page 14
1]	Hemami	[	II Hemami
	we quantize and the easiest way to quantize is to	1	2] <b>A:</b> Yes.
	remove bits and it was understood that there were	1	<b>Q:</b> Was it your general intent in
	certain numbers of bits that we could just throw		4] writing section 2 of your expert report to
	away with respect to video for expected quality	1	5] describe the underlying technology of the Burst
[6]	levels.	1	6] patents as it was known to a person of ordinary
[7]	<b>Q</b> : And that was understood by a person	1	7] skill in the art in 1988?
[8]	of ordinary skill in the art as you defined it in	[ 1	8] A: It was my intention to describe the
[9]	1988?		9] state of the art in '88 as it would be understood
0]	A: Yes.	[1	1) by somebody working in the area in such a manner
1]	<b>Q</b> : I'd like you to look at, in your	[1	1] that somebody non-technical could hope to
2]	expert report beginning at page 5, actually,		2] understand most of what I wrote.
13]	probably beginning at page 4. You have a major	1	3] <b>Q:</b> Do you recall including anything in
14]	heading, "2. The Underlying Technology of the		4] section 2 of your report that you believe would
15]	Burst Patents." Do you see that?	1.	5] not be known to a person of ordinary skill in the
16]	A: Yes.	-	6] art in 1988?
17]	<b>Q</b> : And then within that there are a	[-	A: I do not recall doing such a thing.
18]	number of sub-headings including, "Basic		I made a conscious effort to attempt to not do
19]	Terminology" and then "Digital Communication		19] that.
20]	Technology and Networks" on page 5.		Q: Okay. So when you stated in section
21]	Do you see that?	1-	21] 2 of your report that something was known, you
22]	A: Yes.	1	were you attempting to convey that it was known in
23]	<b>Q</b> : Now, this section 2 goes on for some		<sup>23]</sup> 1988 to a person of ordinary skill in the art?
24]	time. I believe it ends on page 26. Is that		A: Yes, as opposed to being some
	accurate?	-	25] esoteric idea that a Russian scientist had and
_			
	Pac	je 145	Page 1
[1]	Pag <b>Hemami</b>	je 145	[1] Hemami
[1] [2]	-	je 145	Hamani
	Hemami	je 145	[1] Hemami
[2] [3]	Hemami A: Yes. Is it? Yes. Q: In this section, and I'm going to	je 145	[1] Hemami [2] published in some obscure Russian journal, yes.
[2] [3] [4]	<i>Hemami</i> A: Yes. Is it? Yes. Q: In this section, and I'm going to	je 145	<ul> <li>Hemami</li> <li>published in some obscure Russian journal, yes.</li> <li>Q: Let's go back to page 17, the</li> </ul>
[2] [3] [4] [5]	Hemami A: Yes. Is it? Yes. Q: In this section, and I'm going to give you some specific examples and then ask you a	je 145	<ul> <li>Hemami</li> <li>published in some obscure Russian journal, yes.</li> <li>Q: Let's go back to page 17, the</li> <li>section describing PCM and DPCM.</li> </ul>
[2] [3] [4] [5] [6]	Hemami A: Yes. Is it? Yes. Q: In this section, and I'm going to give you some specific examples and then ask you a more general question but if you turn, for	ie 145	<ul> <li>Hemami</li> <li>published in some obscure Russian journal, yes.</li> <li>Q: Let's go back to page 17, the</li> <li>section describing PCM and DPCM.</li> <li>If you look back, that's within the</li> <li>larger section 2.3 on page 12 which is titled,</li> </ul>
[2] [3] [4] [5] [6] [7]	Hemami A: Yes. Is it? Yes. Q: In this section, and I'm going to give you some specific examples and then ask you a more general question but if you turn, for example, to page 17, in section 2.3.4, "PCM and		<ul> <li>Hemami</li> <li>published in some obscure Russian journal, yes.</li> <li>Q: Let's go back to page 17, the</li> <li>section describing PCM and DPCM.</li> <li>If you look back, that's within the</li> <li>larger section 2.3 on page 12 which is titled,</li> <li>"Video and Audio Sources and Compression." Do you</li> </ul>
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Hemami 1 understood by a person of ordinary skill in the 2 art in 1988? 3 A: Yes, and I think it would even be	[1] <i>Hemami</i> [2] per color, we have started off with 7, we have
art in 1988?	<sup>[2]</sup> per color, we have started off with 7, we have
-	
A: Yes, and I think it would even be	[3] deliberately eliminated 5, the effect of
	[4] quantization step size is 32.
more understood by a person in '88 than	[5] This operation would be
potentially by a young person today starting to	[6] colloquially, not colloquially but sort of
1 study compression.	[7] described in our parlance as "PCM coding" because
<b>Q</b> : So if a person of ordinary skill in	<sup>[8]</sup> we are representing that data with a code which
the art in 1988 saw a reference to PCM or DPCM in	<sup>[9]</sup> now only takes on one of four values if I'm
a paper, he or she would understand that to be	[10] keeping two bits, which corresponds to taking the
referring to some sort of compression technique.	[11] 728 level output and representing it in step sizes
Is that right?	[12] of 32.
A: We would have to look at the greater	[13] If, on the other hand, we had up
context of, of the paper obviously, if it had to	[14] front when we digitized the information, said
do with some type of digital transmission and no	[15] instead of acquiring it at 7 bits that we would
signal was being compressed or, you know,	[16] acquire it at 2 bits per color, we would not say
compression was not the goal. Then one would	[17] that was compressed using PCM, okay? That was at
consider is this PCM in the context of digital	
I transmission, the origin of the term, is it a	[18] acquisition — [19] <b>Q:</b> Right.
modulation technique that we're talking about or	
is it essentially a quantization technique which	[20] A: — even though we would potentially
is how it is used in the context of, of	[21] have the same or very similar representations.
	[22] <b>Q</b> : So I take it there's a distinction
s compression of digital information.	[23] between using PCM to quantize which you would call
THE WITNESS: I have to do	[24] compression and using PCM to digitize or acquire
something terrible here. I know we	[25] the information which you would not call
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nj Hemami	[1] Hemami
2] just started but I need a break.	[2] compression. Is that right?
MR. BROWN: No, that's fine.	[3] A: I think that's, I think that's a
4] If you need a break, you need a break.	[4] fair characterization.
5] THE VIDEOGRAPHER: The time is	[5] <b>Q</b> : Now, let's talk about DPCM.
6] now 1:19. Off the record.	[6] DPCM inherently codes the
7 (Recess taken)	7] differences between samples. Is that true?
<sup>8]</sup> THE VIDEOGRAPHER: The time is	[8] A: Where "sample" is used in a flexible
9 now 1:22. On the record.	<sup>[9]</sup> manner, yes, between entities.
oj BY MR. BROWN:	[10] <b>Q</b> : Because of that, is it true that
<b>Q</b> : I believe that I understood you to	[11] DPCM is always compression?
2] at least imply in your answer before we took the	[12] <b>A</b> : This has a similar answer which
3) break that PCM in the sense of quantization was	[13] involves statistical characterizations of what
4] compression and PCM in the context of simply	[14] we're doing and you have to understand the
5] modulation was not. Is that right?	[15] full-blown — if we were to draw a DPCM encoder,
6] A: Yes. Let me attempt to clarify	[16] it would have, not just a subtraction in it or —
7 something I thought of in the bathroom. You know,	
I do a lot of thinking in the bathroom.	[17] <b>Q:</b> Right. Let me — I think I made an [18] error in my question and that lead you down the
Were — let us consider, for	[19] wrong path and I used a strong "always" and maybe
example, the, the digitized video files which,	[19] wrong path and I used a strong always and maybe [20] I shouldn't have.
which are used as examples in the, in the patent	
<sup>21</sup> which are used as examples in the, in the patent <sup>22</sup> specifications. So the way that they're described	[21] In the context of audio or video
<sup>22]</sup> specifications. So the way that they redescribed <sup>23]</sup> is 300 by 300, 7 bits per color, okay?	[22] data, if you apply DPCM to that data, is that
23 13 JUU DY DUU, / DILS DET CULUE, UKAY!	[23] something that you would always call compression?
Now, if we then say, you know, I'm	[24] A: DPCM is a very broad term, okay? We

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Hemami	[1] Hemami
[2] algorithm which, to finish my sentence, would have	[2] audio/video source information?
<sup>[3]</sup> a lot of little pieces in it, not just the	[3] A: Other than my experiences at Delco
[4] subtraction but a lot of other stuff which would	[4] which included two summers in that group and
[5] include, there would be a quantization box in	[5] obviously my course work which I have sort of
[6] that.	[6] delineated at the undergraduate level doesn't
7) We could also put it elsewhere in a	[7] necessarily constitute experience, no.
<sup>[8]</sup> larger system that is doing, for lack of a better	[8] <b>Q:</b> Okay. As of May of 1990 when you
9 way to put it, pre-processing and post-processing	<sup>[9]</sup> received your undergraduate degree, do you believe
10] of maybe our raw samples. And it still goes in	[10] that you met, yourself, met the definition of
11] and computes differences or compares values and	[11] ordinary skill in the art that you've put forth in
12] then codes the resulting comparison or difference.	[12] your expert report?
13] <b>Q:</b> But isn't it true that in both cases	[13] A: I did not have the experience that I
it would be reducing the number of bits for audio	[14] listed that would go along with the Bachelor's
15] and video data?	[15] degree.
A: I would say it would be. It would	[16] <b>Q</b> : Your resume says that in April of
17 be employed with the intention that the greater	[17] 1992, you got a Master's degree from Stanford,
18] system employing it would reduce the number of	[18] COrrect?
19] bits.There's no, as we discussed, guarantee that	[19] <b>A:</b> Yes.
[20] for every instantiation, you would end up with	[20] <b>Q</b> : And in your report, you said that,
[21] fewer bits.	[21] "A person of ordinary skill in the art of the
<b>Q</b> : But the expectation would be that in	[22] Burst patents could have had a Master's degree in
[23] the majority of instantiations, it would, in fact,	[23] electrical engineering with one year of experience
[24] reduce the number of bits?	[24] working on digital communication of audio/video
[25] A: For the particular data that you put	[25] source information."
Page 153	Page 15
Page 153	Page 15 [1] Hemami
Hemami       [1]       Hemami       [2] into it.	Hemami       [1]     Hemami       [2]     As of 1992 when you got your
<ul> <li>[1] <i>Hemami</i></li> <li>[2] into it.</li> <li>[3] <b>Q</b>: Let's turn to — well, it might be</li> </ul>	[1] Hemami
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SHEILA HEMAMI ase 3:06-cv-00019-MHP Document 75-3 Filed 12/09/2006 APPLE COMPLTER v. BURST.COM

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Pag	e 156 Page 158
1 Hemami	[1] Hemami
used two of those texts myself in classes in the	[2] <b>A</b> : Yes.
1989 to 1990 to perhaps '91 time frame. So and I	[3] <b>Q</b> : And then you go on to describe ways
acquired the other texts because of my research	[4] in which "time compression" was used in 1988. Do
topic at Stanford and I recognized the need to	[5] you see that?
y understand more.	[6] <b>A:</b> I do.
So I used those texts both to	[7] <b>Q:</b> And you give four examples there,
refresh my own memory of my course work and also,	[8] correct?
lucky for me, the books that I had handy meshed	[9] <b>A:</b> Yes.
y very nicely with the time frame of, of the	[10] <b>Q</b> : I want to start with examples 2 and
patents.	[11] 3. So example 2, you talk about processing of
<b>Q</b> : Can you tell me which of those two	[12] speech in which it was made to sound as if the
books you used in your course work?	[13] speaker had spoken more quickly than he or she has
A: Yes. I used item 4, the Bernard	[14] actually spoken. Do you see that?
5] Sklar text, in a digital communications course at	[15] <b>A:</b> Yes.
the University of Michigan and all I can tell you	[16] <b>Q:</b> And you, and then 3, 3 describes
is it was my senior year. I don't remember which	[17] processing digital signals in which longer signals
semester it was. And I used the Lee and	[18] were represented by repeating copies of shorter
Messerschmitt text in, again, my first year at	[19] signals. Do you see that?
Stanford so I don't remember if that was '90 or	[20] <b>A</b> : Yes.
1) '91, in a first year graduate-level course on	[21] <b>Q</b> : Later on page 43, you state, "The
2) digital telecommunications.	patents are not in the area of speech processing
<b>Q</b> : So I take it items 2 and 3 were	[23] (eliminating 2 and 3)." Do you see that?
4) texts that you acquired as part of your Master's	[24] <b>A</b> : I do.
5] work at Stanford, is that right?	[25] <b>Q</b> : So the meanings that you listed
	ge 157 Page 15
] Hemami	Fage 15
A: I would just say "graduate work."	$\frac{11}{12}$ there as 2 and 3 are meanings of in the area of
3) Stanford doesn't, the Master's work is just	<sup>[2]</sup> infere as 2 and 9 are inclaimings of in the area of <sup>[3]</sup> speech processing. Is that right?
4] classes at Stanford. So —	[4] <b>A:</b> Yes.
5] <b>Q:</b> Oh, do you remember what year you	[5] <b>Q</b> : And that's not the area of the
acquired those texts? If you don't, that doesn't	[6] patents, correct?
7) matter.	A: Yes.
A: I think that the short answer is no,	[8] <b>Q</b> : The area of the patents, as we
9 I don't remember. It was early because I	<sup>[6]</sup> discussed earlier, is digital communication of
of recognized that I needed to, I needed to have a	<sup>[10]</sup> audio/video source information, in your view,
	[10] audio/video source information, in your viow,
1) better understanding of networks.	
_	
2] <b>Q</b> : Let's turn to page 42 of your expert	[12] <b>A:</b> Yes.
<ul> <li>Q: Let's turn to page 42 of your expert</li> <li>report and there's a paragraph on this page at the</li> </ul>	<ul> <li>[12] A: Yes.</li> <li>[13] Q: All right. Now, meaning number 1</li> </ul>
<ul> <li>Q: Let's turn to page 42 of your expert</li> <li>report and there's a paragraph on this page at the</li> <li>bottom which begins with the word "Finally." Do</li> </ul>	<ul> <li>[12] A: Yes.</li> <li>[13] Q: All right. Now, meaning number 1</li> <li>[14] that you provide is, "Reducing the duration of an</li> </ul>
<b>Q:</b> Let's turn to page 42 of your expert report and there's a paragraph on this page at the bottom which begins with the word "Finally." Do you see that?	<ul> <li>[12] A: Yes.</li> <li>[13] Q: All right. Now, meaning number 1</li> <li>[14] that you provide is, "Reducing the duration of an</li> <li>[15] analog signal relative to its original duration."</li> </ul>
<ul> <li>Q: Let's turn to page 42 of your expert</li> <li>report and there's a paragraph on this page at the</li> <li>bottom which begins with the word "Finally." Do</li> <li>you see that?</li> <li>A: Yes.</li> </ul>	<ul> <li>[12] A: Yes.</li> <li>[13] Q: All right. Now, meaning number 1</li> <li>[14] that you provide is, "Reducing the duration of an</li> <li>[15] analog signal relative to its original duration."</li> <li>[16] Do you see that?</li> </ul>
<ul> <li>Q: Let's turn to page 42 of your expert</li> <li>report and there's a paragraph on this page at the</li> <li>bottom which begins with the word "Finally." Do</li> <li>you see that?</li> <li>A: Yes.</li> <li>Q: And you state at the beginning of</li> </ul>	<ul> <li>[12] A: Yes.</li> <li>[13] Q: All right. Now, meaning number 1</li> <li>[14] that you provide is, "Reducing the duration of an</li> <li>[15] analog signal relative to its original duration."</li> <li>[16] Do you see that?</li> <li>[17] A: Yes.</li> </ul>
<ul> <li>Q: Let's turn to page 42 of your expert</li> <li>report and there's a paragraph on this page at the</li> <li>bottom which begins with the word "Finally." Do</li> <li>you see that?</li> <li>A: Yes.</li> <li>Q: And you state at the beginning of</li> <li>that paragraph that, "The proper construction and</li> </ul>	<ul> <li>[12] A: Yes.</li> <li>[13] Q: All right. Now, meaning number 1</li> <li>[14] that you provide is, "Reducing the duration of an</li> <li>[15] analog signal relative to its original duration."</li> <li>[16] Do you see that?</li> <li>[17] A: Yes.</li> <li>[18] Q: That is a meaning that is in the</li> </ul>
<ul> <li>report and there's a paragraph on this page at the</li> <li>bottom which begins with the word "Finally." Do</li> <li>you see that?</li> <li>A: Yes.</li> <li>Q: And you state at the beginning of</li> <li>that paragraph that, "The proper construction and</li> <li>meaning of 'time-compressed representation' can</li> </ul>	<ul> <li>[12] A: Yes.</li> <li>[13] Q: All right. Now, meaning number 1</li> <li>[14] that you provide is, "Reducing the duration of an</li> <li>[15] analog signal relative to its original duration."</li> <li>[16] Do you see that?</li> <li>[17] A: Yes.</li> <li>[18] Q: That is a meaning that is in the</li> <li>[19] context of the transmission of audio/video source</li> </ul>
<ul> <li>Q: Let's turn to page 42 of your expert</li> <li>report and there's a paragraph on this page at the</li> <li>bottom which begins with the word "Finally." Do</li> <li>you see that?</li> <li>A: Yes.</li> <li>Q: And you state at the beginning of</li> <li>that paragraph that, "The proper construction and</li> <li>meaning of 'time-compressed representation' can</li> <li>only be gleaned from the Burst patents</li> </ul>	<ul> <li>[12] A: Yes.</li> <li>[13] Q: All right. Now, meaning number 1</li> <li>[14] that you provide is, "Reducing the duration of an</li> <li>[15] analog signal relative to its original duration."</li> <li>[16] Do you see that?</li> <li>[17] A: Yes.</li> <li>[18] Q: That is a meaning that is in the</li> <li>[19] context of the transmission of audio/video source</li> <li>[20] information, correct, not the digital transmission</li> </ul>
<ul> <li>Q: Let's turn to page 42 of your expert</li> <li>report and there's a paragraph on this page at the</li> <li>bottom which begins with the word "Finally." Do</li> <li>you see that?</li> <li>A: Yes.</li> <li>Q: And you state at the beginning of</li> <li>that paragraph that, "The proper construction and</li> <li>meaning of 'time-compressed representation' can</li> <li>only be gleaned from the Burst patents</li> <li>themselves." Do you see that?</li> </ul>	<ul> <li>[12] A: Yes.</li> <li>[13] Q: All right. Now, meaning number 1</li> <li>[14] that you provide is, "Reducing the duration of an</li> <li>[15] analog signal relative to its original duration."</li> <li>[16] Do you see that?</li> <li>[17] A: Yes.</li> <li>[18] Q: That is a meaning that is in the</li> <li>[19] context of the transmission of audio/video source</li> <li>[20] information, correct, not the digital transmission</li> <li>[21] but the transmission of audio/video source</li> </ul>
<ul> <li>Q: Let's turn to page 42 of your expert</li> <li>report and there's a paragraph on this page at the</li> <li>bottom which begins with the word "Finally." Do</li> <li>you see that?</li> <li>A: Yes.</li> <li>Q: And you state at the beginning of</li> <li>that paragraph that, "The proper construction and</li> <li>meaning of 'time-compressed representation' can</li> <li>only be gleaned from the Burst patents</li> <li>themselves." Do you see that?</li> <li>A: Yes.</li> </ul>	<ul> <li>[12] A: Yes.</li> <li>[13] Q: All right. Now, meaning number 1</li> <li>[14] that you provide is, "Reducing the duration of an</li> <li>[15] analog signal relative to its original duration."</li> <li>[16] Do you see that?</li> <li>[17] A: Yes.</li> <li>[18] Q: That is a meaning that is in the</li> <li>[19] context of the transmission of audio/video source</li> <li>[20] information, correct, not the digital transmission</li> <li>[21] but the transmission of audio/video source</li> <li>[22] information, correct?</li> </ul>
<ul> <li>Q: Let's turn to page 42 of your expert</li> <li>report and there's a paragraph on this page at the</li> <li>bottom which begins with the word "Finally." Do</li> <li>you see that?</li> <li>A: Yes.</li> <li>Q: And you state at the beginning of</li> <li>that paragraph that, "The proper construction and</li> <li>meaning of 'time-compressed representation' can</li> <li>only be gleaned from the Burst patents</li> <li>themselves." Do you see that?</li> </ul>	<ul> <li>[12] A: Yes.</li> <li>[13] Q: All right. Now, meaning number 1</li> <li>[14] that you provide is, "Reducing the duration of an</li> <li>[15] analog signal relative to its original duration."</li> <li>[16] Do you see that?</li> <li>[17] A: Yes.</li> <li>[18] Q: That is a meaning that is in the</li> <li>[19] context of the transmission of audio/video source</li> <li>[20] information, correct, not the digital transmission</li> <li>[21] but the transmission of audio/video source</li> </ul>

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[1] Hemami	[1] Hemami
[2] think we can easily eliminate meanings 2 and 3	[2] reduction in duration of 10 or 100 times of the
<sup>[3]</sup> that you've listed here as meanings of "time	[3] analog signal.
[4] compression" that aren't relevant to the Burst	[4] That is the same as item 1 here,
[5] patents because they're in a different field,	<sup>[5]</sup> "reducing the duration of an analog signal
[6] COTTECT?	[6] relative to its original duration." So, whereas
[7] <b>A:</b> Yes.	[7] these references here — sorry. Let me look up
[8] <b>Q:</b> Okay. I want to focus on 1 and 4.	<sup>[8]</sup> what are 14 and 15. I believe —
9 A: Okay.	[9] <b>Q</b> : Why don't I get them out and mark
[10] <b>Q:</b> And you've said that, "The	[10] them?
information being compressed in the Burst patents	[11] A: Well, I believe one of them is
[12] is digital (eliminating 1)." Do you see that?	[12] Haskell.
[13] <b>A</b> : Yes.	[13] <b>Q:</b> I think you're right.
[14] <b>Q:</b> Okay. Now, we spoke before that the	[14] A: And the other one actually is for,
[15] area of the Burst patents as you defined it was	[15] I'm sorry. One of them is for speech. The other
[16] digital communication of audio/video source	[16] is Haskell and then we have the graph reference.
[17] information, correct?	[17] So, in fact, item 1 is, even those examples are
[18] <b>A:</b> Yes.	[18] not limited to audio/video source information.
(19) <b>Q:</b> Now, the meaning number 1 that you	[19] <b>Q:</b> And you say that because one of them
[20] provided there as known in 1988 was in the field	[20] includes speech?
[21] of communication of audio/video source	[21] <b>A:</b> Yes.
[22] information, just not digital communication,	
[23] COFFECT?	[22] <b>Q</b> : And you don't consider speech to be [23] audio/video source information?
[24] <b>A:</b> No.Actually, for example, the —	
[25] well, where is it now, your definition here of	[24] A: Speech, as I — let me not fup and [25] talk at the same time.
Page 161	Page 1 In Hemami
	[2] <b>Q</b> : Let me just ask a question.
<sup>[3]</sup> this definition because the analog signals are	[3] There's a clear distinction between
[4] simply being increased in frequency which is the	[4] speech processing and the communication of speech,
[5] same as definition 1 here, same idea.	[5] correct?
[6] <b>Q</b> : So hang on. Let's just back up	[6] A: The processing that you will do of
[7] because I want to make sure I'm following what	[7] the speech may be dependent on how you are going
[8] you're saying.	[8] to communicate it.
9 You were referring to an exhibit we	[9] <b>Q</b> : Sure. Let me try it slightly
[10] previously marked as Exhibit 80. Is that right?	[10] differently then.
[11] A: 80, right.	[11] There's a distinction between the
[12] <b>Q:</b> And in Exhibit 80, there's a	[12] field of speech processing and the field of
[13] definition of "burst transmission," correct?	[13] communication of audio and video information?
[14] <b>A</b> : Yes.	[14] A: That, my understanding of audio and
[15] <b>Q</b> : And that definition refers to	[15] video information in the context of what is in the
[16] releasing messages at 10 to 100 or more times the	[16] Burst patents in terms of programming movie
[17] normal speed, correct?	[17] content that somehow represents — well, now we're
[18] <b>A</b> : Yes.	[18] getting into something else, you know, a work, a
[19] <b>Q:</b> And you're saying that that	[19] piece that all sits together and provides us with
[20] definition is the same meaning as you've given in	[20] some type of information or meaning in a
[21] number 1 in your list here. Is that right?	[21] pre-designed manner.
	[22] <b>Q</b> : But would you agree that speech
[22] A: So as we discussed with respect to	[22] <b>G.</b> But would you agree that specen
<ul> <li>[22] A: So as we discussed with respect to</li> <li>[23] the burst transmission, I said this is for analog,</li> </ul>	[23] falls within the meaning of audio/video source
[22] A: So as we discussed with respect to	·

Page 164	Page 166
1] Hemami	[1] Hemami
A: "Speech" in what context? Can you,	[2] A: 15 is Haskell so 15 is 81, yes.
3] can you be more specific in your question?	[3] <b>Q:</b> And 14, what you marked as reference
4] <b>Q</b> : Sure. Suppose you had a book on	[4] 14 in your expert report is Exhibit 82, correct?
5] tape or someone read a book into a tape.	[5] A: Yes, yes, that's correct.
Would you consider that to be	[6] <b>Q:</b> And you put brackets after your
7) audio/video source information within the meaning	<sup>[7]</sup> number 1 on page 42 and cited 14 and 15, correct?
a) of the Burst patents?	[8] <b>A</b> : Yes.
9 A: Now, I would say a book on tape is	[9] <b>Q</b> : And by that you intended to indicate
oj different from the meaning of "speech" as you	[10] that in Exhibits 81 and 82, the phrase "time
1] phrased it in "speech audio/video source	[11] compression" was used in the sense that you
2] information."	[12] articulated in your number 1 on page 42, right?
3] "Speech" as source content for a	[13] <b>A:</b> Yes.
4] signal processing person is a different beast than	[14] <b>Q:</b> In other words, in the sense of
5] audio/video information. And let's even get rid	[15] reducing the duration of an analog signal relative
of "video." I think we don't have to argue that	[16] to its original duration?
7 "video" and "speech" are different, maybe with the	[17] <b>A:</b> Yes.
8) exception of for deaf people.	[18] <b>Q:</b> And you said that is the same thing
9 <b>Q</b> : Are you referring to the distinction	[19] as releasing a message at 10 to 100 or more times
10) between wide-band audio and narrow-band audio that	[20] its normal speed? Well, I'm sorry, the numbers
you describe in your report?	[21] are probably wrong.
A: Yes. If one is going to design	Releasing a message at more than its
systems to operate on general audio content, then	[23] normal speed?
<sup>4</sup> that system, the decisions that are made, that's	
•	_
going to be different decisions, different design	[25] transmitting an analog radio message faster than
5] going to be different decisions, different design Page 165	[25] transmitting an analog radio message faster than Page 167
5) going to be different decisions, different design Page 165 1) <b>Hemami</b>	[25] transmitting an analog radio message faster than         Page 167         [1]         Hemami
Page 165 Hemami Choices, a different outcome than if we only must	[25] transmitting an analog radio message faster than         Page 167         [1]       Hemami         [2] its, they use "normal speed," yes, whatever,
Page 165 1) <b>Hemami</b> 2) choices, a different outcome than if we only must 3) deal with speech signals. This is why "hold"	<ul> <li>[25] transmitting an analog radio message faster than</li> <li>Page 167</li> <li>[1] <i>Hemami</i></li> <li>[2] its, they use "normal speed," yes, whatever,</li> <li>[3] normal speed.</li> </ul>
Page 165 1] Hemami 2] Choices, a different outcome than if we only must 3] deal with speech signals. This is why "hold" 4] music doesn't sound so good on the phone	[25] transmitting an analog radio message faster than         Page 167         [1]       Hemami         [2] its, they use "normal speed," yes, whatever,         [3] normal speed.         [4]       Q: Okay. And that's also the same
5] going to be different decisions, different design         Page 165         [1]       Hemami         [2] choices, a different outcome than if we only must         [3] deal with speech signals. This is why "hold"         [4] music doesn't sound so good on the phone         [5] sometimes.	[25] transmitting an analog radio message faster than         Page 167         [1]       Hemami         [2] its, they use "normal speed," yes, whatever,         [3] normal speed.         [4]       Q: Okay. And that's also the same         [5] thing as increasing the frequency of that signal,
5) going to be different decisions, different design         Page 165         11       Hemami         22       choices, a different outcome than if we only must         (33) deal with speech signals. This is why "hold"       Humani         (44) music doesn't sound so good on the phone       Sometimes.         (55) sometimes.       MR. BROWN: I'm going to mark	<ul> <li>[25] transmitting an analog radio message faster than</li> <li>Page 167</li> <li>[1] Hemami</li> <li>[2] its, they use "normal speed," yes, whatever,</li> <li>[3] normal speed.</li> <li>[4] Q: Okay. And that's also the same</li> <li>[5] thing as increasing the frequency of that signal,</li> <li>[6] right?</li> </ul>
Page 165 Page 165 Sometimest Page 165 MR. BROWN: I'm going to mark Page 165 Page	[25] transmitting an analog radio message faster than         Page 167         [1]       Hemami         [2] its, they use "normal speed," yes, whatever,         [3] normal speed.         [4]       Q: Okay. And that's also the same         [5] thing as increasing the frequency of that signal,         [6] right?         [7]       A: Yes.
Page 165 [1] Hemami [2] choices, a different outcome than if we only must [3] deal with speech signals. This is why "hold" [4] music doesn't sound so good on the phone [5] sometimes. [6] MR. BROWN: I'm going to mark [7] as Exhibit 81 a copy of the Haskell [8] patent, number 4,300,161.	[25] transmitting an analog radio message faster than         Page 167         [1]       Hemami         [2] its, they use "normal speed," yes, whatever,       [3] normal speed.         [4]       Q: Okay. And that's also the same         [5] thing as increasing the frequency of that signal,       [6] right?         [7]       A: Yes.         [8]       Q: All three of those are ways of
Page 165 Figure 165 Page 165 Page 165 Page 165 Page 165 Page 165 Page 165 Page 165 Page 165 Page 165 (1) Page 165 (2) Choices, a different outcome than if we only must (3) deal with speech signals. This is why "hold" (4) music doesn't sound so good on the phone (5) sometimes. (6) MR. BROWN: I'm going to mark (7) as Exhibit 81 a copy of the Haskell (8) patent, number 4,300,161. (9) (Document bearing Bates Nos.	[25] transmitting an analog radio message faster than         Page 167         [1]       Hemami         [2] its, they use "normal speed," yes, whatever,         [3] normal speed.       [4]         [4]       Q: Okay. And that's also the same         [5] thing as increasing the frequency of that signal,         [6] right?       [7]         [7]       A: Yes.         [8]       Q: All three of those are ways of         [9] describing the same physical occurrence?
Page 165 Page 165 Hemami Choices, a different outcome than if we only must Choices, a different outcome	[25] transmitting an analog radio message faster than         Page 167         [1]       Hemami         [2] its, they use "normal speed," yes, whatever,         [3] normal speed.       [4]         [4]       Q: Okay. And that's also the same         [5] thing as increasing the frequency of that signal,         [6] right?         [7]       A: Yes.         [8]       Q: All three of those are ways of         [9] describing the same physical occurrence?         [10]       A: Yes.
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Page 168	Page 170
[1] Hemami	[1] Hemami
[2] utilizing bandwidth in a communication system in	[2] <b>Q:</b> Okay. So Haskell we know is in the
[3] the abstract," which certainly implies	[3] area of audio or video communication of source
[4] transmission.	[4] content, correct?
[5] <b>Q:</b> So the Haskell patent falls into the	[5] <b>A</b> : Yes.
[6] area of communication of audio/video source	[6] <b>Q:</b> Look at Exhibit 82.
information, correct?	[7] <b>A:</b> Yes.
(B)         A: Well, I don't believe he explicitly	[8] <b>Q:</b> This refers to using time
9 deals with audio. I believe that his example —	<sup>[9]</sup> compression multiplexing for telephone loop
10] everything he refers to is a plurality of scan	[10] communications. Do you see that?
11] lines. I believe that he is, he is discussing,	[11] <b>A:</b> Yes.
now using the word "video" to explicitly refer to	[12] <b>Q:</b> And that is the transmission of
(13) the visual content as opposed to the audio	[13] narrow band audio, correct?
[14] COntent.	[14] A: That is correct. That is what the,
[15] <b>Q:</b> Okay. Let's back up for a second.	[15] the loop gives us that information.
[16] When I say, "audio/video," I meant	[16] <b>Q</b> : Would this fall within the field of
to say, "audio and/or video" which would include	[17] the Burst patents as you've defined it, setting
[18] video only, audio only and both.	[18] aside the question of whether it's analog or
<sup>[19]</sup> That definition has been agreed to	[19] digital?
[20] by the parties in this case. I was assuming, and	[20] <b>A</b> : In terms of the field, communication
[21] perhaps I shouldn't have been, that when you used	[21] of audio/video source information, no.
[22] the phrase "audio/video," you meant the same	[22] <b>Q:</b> And is that because it describes
[23] thing.	[23] narrow-band audio as opposed to wide-band audio?
[24] A: So —	[24] A: It is for speech, yes.
[25] <b>Q</b> : Can you clarify for me what you mean	[25] <b>Q</b> : But it is for the communication of
Page 169	Page 17
[1] Hemami	[1] Hemami
[2] when you used the phrase "audio/video" in your	[2] audio information, correct?
<sup>[3]</sup> expert report?	[3] MR. PAYNE: Objection. Form.
[4] A: Well, I make clear when I use the	[4] A: I would say, actually, I mean, I
5 term "video" to solely refer just to the video	[5] would say it is for the communication of speech.
[6] content and when it is the general content, audio	[6] To be accurate, I think one, one of skill would
[7] and/or video, then I've just used "audio/video	[7] say "speech" because audio, without any modifiers,
[8] source information."	<sup>[8]</sup> one tends to think of as broader than simply just
Image: Provide the set of the set o	[9] speech.
[10] of the Burst patents, the field of the Burst	<sup>[10]</sup> <b>Q</b> : So a person of ordinary skill in the
[11] patents, I can't remember which words you used,	[11] art in 1988 seeing "audio" alone without
[12] was digital communication of audio/video source	[12] qualifiers would associate that with wide-band
[13] information. Do you recall that?	[13] audio, is that right?
[14] <b>A</b> : Yes.	[14] <b>A:</b> I don't think that they would limit
[15] <b>Q</b> : In that context, did you mean audio	[15] it to speech.
[16] and/or video?	[16] <b>Q</b> : It could include speech?
[17] <b>A</b> : Yes.	[17] A: It, certainly from the standpoint
[18] <b>Q</b> : Okay.	[18] that if we look at a general wide-band audio
[19] A: So in response, then, to your	[19] content, say, from a television program, somebody
[20] age-old question, the answer — this is just video	[20] speaking may be part of that but the content
[21] and, yes, it falls into the category of audio	[21] itself has a very different source model and must
[22] and/or video.	[22] be treated differently.
[23] <b>Q</b> : Communication?	[23] <b>Q:</b> Let's look at your definition number
<ul> <li>[23] Q: Communication?</li> <li>[24] A: Sorry. Communication, yes. The</li> <li>[25] source content is audio and/or video.</li> </ul>	<ul> <li>[23] Q: Let's look at your definition number</li> <li>[24] 4 on page 43.</li> <li>[25] MR. BROWN: Before we get too</li> </ul>

**SHEILA HEMAMI** Case 3:06-cv-00019-MHP Document 75-3 Filed 12/09/2006 **November 14, 2006** 

ABPLE COMPLITER v. BURST.COM

- 1 1

Page 17	2 Page 174
1] Hemami	[1] Hemami
2] far into that, let's mark Exhibit 83	[2] A: I believe so.
3) which is a copy of an article	[3] <b>Q</b> : So what this is describing is
4] entitled, "The UK D-MAC/Packet	[4] sending the same bits in a shorter period of time
5] Standard for DBS" by Gardiner.	[5] using more bandwidth, correct?
(Document entitled "The UK	[6] <b>A:</b> I believe the operation by which
7] D-MAC/PACKET Standard for DBS" by Paul	[7] this would be achieved is, it is performed
B] Gardiner was marked as Deposition	[8] digitally.
9) Exhibit No. 83 for identification, as	(9) What is described is sort of an
of this date.)	[10] analog description but they, if you read the first
1] <b>Q:</b> Exhibit 83 is the reference that you	[11] sentence at the bottom of that page you have in
2] identified as 17 in your expert report, correct?	[12] front of you, "Time compression is carried out by
3] <b>A:</b> Yes.	[13] a sampling process." So that is achieved by the,
4] <b>Q:</b> And your citation of the number 17	[14] the understanding of time compression as I have
5) in paragraph number 4 on page 43 of your expert	[14] the understanding of thic compression as I have [15] described in, in item 4.
ej report shows that in your view, Exhibit 83 uses	
7] the phrase "time compression" to refer to	[16] <b>Q:</b> The term "bandwidth" applies to both [17] analog signals and digital signals, correct?
increasing the digital signalling rate as you've	
9 set forth in that paragraph. Is that right?	[18] A: It is used with respect to both [19] signals. It doesn't have the same meaning.
a) A: Yes.	
<b>Q</b> : Or more specifically to read, the	• •
<sup>22</sup> complete sentence without the parenthetical,	[21] correlate to the amount of data that you can send [22] in a unit time?
	• -
<sup>23]</sup> "Increasing the digital signalling rate of a <sup>24]</sup> digital signal transmitted over a digital	[23] A: Well, what is an analog amount of
<sup>24</sup> communications link to reduce the transmission	[24] data?
	[25] <b>Q</b> : That would depend, I would imagine,
Page 1	73 Page 17
(1) Hemami	[1] Hemami
[2] time." Is that right?	[2] on the modulation technique used, correct?
[3] <b>A:</b> Yes.	[3] A: No. Actually, if we had a measure
[4] <b>Q</b> : So if we look at this article, let's	[4] of what analog data was, we would be much farther
[5] look at page, the second page of the article which	[5] along with respect to compression theory of
6 has 129 in the top right?	[6] digital signals in general.
רק <b>A: Yes</b> .	[7] <b>Q</b> : Yes, that goes into an area of, that
[8] <b>Q:</b> There's a figure there in the	[8] I don't think we need to go into.
9 right-hand column. Do you see that?	[9] All right. Let's put it this way.
10] <b>A:</b> Yes.	[10] Exhibit 83 is describing sending a digital signal
<b>Q:</b> And beneath the figure, it says,	[11] using an analog carrier, correct? Well, let me
<sup>12]</sup> "The effective time compression is to produce a	[12] try that again. Strike that.
13] corresponding increase in the bandwidth	[13] Exhibit 83 is describing sending a
14] requirement." Do you see that?	[14] digital signal using a satellite, right?
[15] <b>A</b> : Yes.	[15] A: Yes. Yes. I think that that's a, I
<b>Q:</b> So it then refers to, "A luminent	[16] think that's a good statement.
17] signal with 5.75 megahertz bandwidth requirement	<b>Q:</b> The first sentence of the abstract
18] being time compressed by a factor of 3 to 2." Do	[18] says that it's referring to "direct broadcasting
(19) you see that?	[19] by satellite (DBS)," correct?
[20] <b>A</b> : Yes.	[20] <b>A:</b> Yes, it does.
Q: And it says, "It now occupies 8.625	[21] <b>Q:</b> And you've said before that
	[22] satellite transmission involves microwave
[22] Ineganeriz worth of Dandwidth. Do you see that	
<ul><li>[22] megahertz worth of bandwidth." Do you see that?</li><li>[23] A: Yes.</li></ul>	1231 transmission, correct?
<ul> <li>[22] Ineganeriz worth of bandwidth. Do you see that?</li> <li>[23] A: Yes.</li> <li>[24] Q: So 5.75 multiplied by the factor of</li> </ul>	[23] transmission, correct? [24] A: Satellites communicate in the

Page 172 - Page 175 (46)

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[1]	Hemami		[1] Hemami	
[2]	<b>Q</b> : And the specific satellite bands		[2] question on the table, though.	
	that are described in this article are referred to		[3] Is that your question?	
[4]	in the introduction in the second paragraph as		[4] MR. BROWN: You want me to ask	
[5]	within the band of 11.7 to 12.5 gigahertz. Do you		[5] another question is what you're	
[6]	see that?		[6] saying, Les?	
[7]	A: Yes, I do.		[7] MR. PAYNE: Well, I can't tell	
[8]	<b>Q</b> : And is that in the microwave band?		[8] what she's doing, quite frankly, if	
[9]	A: It is Actually, let me, let me		(9) she's going back to another question,	
[10]	check that, not having memorized the entire		[10] <b>SO</b> —	
[11]	frequency allocation chart from the FCC.		[11] <b>Q</b> : Okay. I can't quite remember either	
[12]	If I said it was, it is.		[12] what I was asking but it seems to me that the	
[13]	Q: Can you tell me where you're		[13] article is describing using a certain amount of	
	looking?		[14] bandwidth to send a digital signal. Is that true?	
[15]	A: Yes. Page 10		[15] A: What these two paragraphs describe	
[16]	Q: Okay.		[16] is, the paragraph underneath Figure 4 is a	
[17]	A: — under 2.2.4, the very first		[17] description of time compression in the classical	
	sentence ends with a parenthetical which says,		[18] analog sense of definition 1, okay?	
[19]	"The microwave frequency range starts at		[19] We see the analog signal in the	
-	frequencies of 1 gigahertz." And these are indeed		[20] figure directly above the paragraph, right?	
	greater than 1 gigahertz, so I stand by my answer.		[21] That's an analog signal. We don't see a bunch of,	
[22]	<b>Q:</b> So this article is describing		[22] a bunch of samples there. That is described here,	
	satellite microwave transmission, correct?		[23] this paragraph describes time compression in a	
[24]	A: Yes.		[24] similar manner that, simply referring to — this	
[25]	<b>Q</b> : And it's describing digital		[25] probably isn't the right way to answer a question	
1601				
		Page 177	Page	ie 17
[1]	Hemami	Page 177	Page	ie 17
[1] [2]	<i>Hemami</i> transmission of information from the satellite,	Page 177	Page [1] Hemami [2] — pictures where we have a signal that occupies a	ie 17
[1] [2] [3]	<i>Hemami</i> transmission of information from the satellite, right?	Page 177	Page [1] Hemami [2] — pictures where we have a signal that occupies a [3] lot of space and time and then we just squash it	ie 17
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Hemami	[1] Hemami
luminence is sampled at a rate of 13.5 megahertz	[2] <b>Q:</b> Exhibit 84 is what you referred to
in that paragraph that you're referring to?	3 in your expert report on page 43 as, "The Gitlin
A: Yes.	[4] Reference Cited by Apple." Is that right?
<b>Q</b> : And it then says in the next	[5] <b>A</b> : Yes.
sentence, "The time compressed MAC vision signal	[6] <b>Q</b> : And if you look at page 609 of
is defined in terms of a number of samples at a	[7] Exhibit 84 —
g clock rate of 20.25 megahertz." Do you see that?	[8] <b>A:</b> Yes.
A: Yes.	[9] <b>Q</b> : — and on page 609, there's a figure
<b>Q:</b> And 20.25 megahertz is a factor of 3	[10] and a paragraph describing time compression
to 2 larger than 13.5 megahertz, right?	[11] multiplexing, correct?
A: I think it is without doing the math	[12] <b>A: Yes</b> .
n my head.	[13] <b>Q:</b> And that figure and description use
<b>Q</b> : I have a calculator on my computer.	[14] the same, use "time compression" in the same sense
According to the calculator on my computer 13.5	[15] that we were just discussing and that you've
i times 1.5 is 20.25.	[16] described as item number 4 in your expert report,
A: That's a relief. Okay.	[17] namely increasing the digital signalling rate to
<b>Q:</b> So what this is describing is	[18] reduce the transmission time, correct?
g effectively reading the bits which were sampled at	[19] <b>A:</b> Yes, I think the figure, it has
13.5 megahertz out of wherever they were stored at	[20] very nice pictures on it of the actual binary
a clock rate that is a factor of 3 to 2 larger	[21] signal getting squashed in time, shall we say.
than the sampling rate. Is that right?	[22] <b>Q:</b> Are you referring to the top line,
A: I would say reading the samples out,	[23] so to speak —
the samples consist of bits.	[24] <b>A</b> : Yes.
<b>Q</b> : So, in effect, what you have is	[25] <b>Q</b> : — of the figure?
Page	181 Page 183
Page	
	[1] Hemami
Hemami	<ul> <li>[1] <i>Hemami</i></li> <li>[2] A: Yes. The top most, top left and</li> </ul>
Hemami a samples going into some form of a buffer or	<ul> <li>[1] <i>Hemami</i></li> <li>[2] A: Yes. The top most, top left and</li> <li>[3] then immediately to the right of that, the two</li> </ul>
Hemami e samples going into some form of a buffer or storage at the rate of 13.5 megahertz and then at	<ul> <li>[1] <i>Hemami</i></li> <li>[2] A: Yes. The top most, top left and</li> <li>[3] then immediately to the right of that, the two</li> <li>[4] graphics depicting, probably what we would call</li> </ul>
Hemami e samples going into some form of a buffer or storage at the rate of 13.5 megahertz and then at some later point, coming out of that buffer at a	<ul> <li>[1] <i>Hemami</i></li> <li>[2] A: Yes. The top most, top left and</li> <li>[3] then immediately to the right of that, the two</li> <li>[4] graphics depicting, probably what we would call</li> <li>[5] transitions between the two states twice.</li> </ul>
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<ul> <li>Hemami</li> <li>Hemami</li> <li>samples going into some form of a buffer or</li> <li>storage at the rate of 13.5 megahertz and then at</li> <li>some later point, coming out of that buffer at a</li> <li>rate of 20.25 megahertz?</li> <li>A: Yes.</li> <li>Q: Which is 150 percent faster?</li> <li>A: Yes.</li> <li>Q: And that's what you're describing as</li> <li>the meaning of "time compression" in the digital</li> <li>sense which is item number 4 in your list here,</li> <li>correct?</li> <li>A: I've lost my list. What page are we</li> <li>on again?</li> <li>Q: 42 and 43.</li> <li>A: Yes.</li> <li>MR. BROWN: Let's mark as</li> <li>Exhibit 84 a portion of a book called</li> <li>"Data Communication Principles" that</li> <li>bears production numbers APBU414882</li> <li>through 414945.</li> <li>(Document bearing Bates Nos.</li> </ul>	<ul> <li>Hemami</li> <li>A: Yes. The top most, top left and</li> <li>then immediately to the right of that, the two</li> <li>graphics depicting, probably what we would call</li> <li>transitions between the two states twice.</li> <li>Q: And I think you just described that</li> <li>as a digital signal being squished in time. Is</li> <li>that correct?</li> <li>A: That would be the very, very "person</li> <li>on the bus" description level of what's going on.</li> <li>Q: Okay. And that is the sense in</li> <li>which you're, which you've defined as number 4 on</li> <li>your list here. Is that right?</li> <li>A: Yes. I mean, these pictures suggest</li> <li>an implicit time dimension and because the</li> <li>horizontal access is shorter then we have reduced</li> <li>the time duration for the same number of</li> <li>transitions.</li> <li>Q: The, Exhibit 84 is titled, "Data</li> <li>Communications Principles," correct?</li> <li>Yes.</li> </ul>
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	F	age 184	Page 186
[1]	Hemami		[1] Hemami
[2]	A: Yes.		[2] patents, correct?
[3]	<b>Q</b> : But within this "Data Communications		[3] A: That is right.
	Principles" book is a description of time		[4] <b>Q:</b> And definition number 1 you believe
	compression in the sense that you've described it		[5] to be inapplicable because it refers to analog
[6]	as number 4 on your list, correct?		[6] signals as opposed to digital signals. Is that
[7]	A: Yes.		right?
[8]	<b>Q</b> : And this book is in the area of		[8] <b>A:</b> It refers to the explicit time
[9]	communication of data generally, right?		[9] compression and signalling of analog signals, yes.
10]	A: I, I haven't actually seen the book.	ľ	10] <b>Q:</b> And that's the reason you believe
11]	I've only seen this, this chapter so —	[	11] that definition is not applicable to the Burst
12]	<b>Q:</b> Fair enough.	ſ	12] patents, is that right?
13]	Going to Exhibit 83 —	1	A: That is correct.
14]	A: Sorry. Okay.	ſ	[14] <b>Q:</b> When a digital signal is
15]	<b>Q</b> : — which is the satellite article we	l	15] transmitted, let's take the example of a satellite
16]	were describing earlier that you've reviewed in	ſ	[16] microwave transmission, it is converted into an
17]	its entirety, correct?	1	analog waveform, correct?
18]	A: I have.	1	[18] <b>A:</b> Yes.
19]	<b>Q</b> : And this describes the transmission,		[19] <b>Q:</b> For microwave transmission is the
20]	or I should say communication of video, correct?	1	[20] modulation of the waveform amplitude modulation or
[21]	A: It does, yes.	1	[21] frequency modulation?
[22]	<b>Q</b> : And specifically the digital		[22] <b>A</b> : I do not know.
[23]	communication of video, correct?		[23] <b>Q</b> : Do you know whether increasing the
[24]	A: I believe so, yes.		[24] digital signalling rate of a digital transmission
[25]	Q: So at least Exhibit 83 is an example		[25] would have the effect of increasing, by the same
		Page 185	
[1]	Hemami		[1] Hemami
[2]	of the use of the term "time compression" in the		[2] factor, the frequency of the analog waveform
[3]	same field as the Burst patents, correct?	]	[3] carrying the digital signal?
[4]	A: With respect to the fact that		[4] A: Carrier frequencies are fixed.
[5]	digital, digital audio/video information is being		[5] <b>Q:</b> Fair enough. Do you know whether
[6]	transmitted, yes.		[6] increasing the digital signalling rate of a
[7]	Now, here, of course, we don't have		[7] digital signal by a factor of, say, 5 would have
[8]	any compression, data compression.		[8] the effect of increasing the frequency of the
[9]	Q: There's time compression in		<sup>[9]</sup> modulation on the analog carrier wave by the same
[10]	Exhibit 83 but not data compression. Is that your		[10] amount?
[11]	testimony?		[11] A: That depends on how the guts of the
[12]	A: Yes.		[12] microwave transceiver, how the microwave
[13]	Sorry. Let me — there's no data		[13] transceiver itself is designed.
[14]	compression in Exhibit 83. There is time		[14] If you have a transceiver with a big
[15]	compression in the sense of my definition 4,		[15] knob on it and you can say, "Input data rate is
[16]	reducing the, increasing the digital signalling		[16] this," then presumably — although I think we all
[17]	rate.		[17] have experiences of equipment and software where
[18]	• A state of the definition of the second		[18] we choose an option and nothing happens — one
	provided in your report are all definitions of		[19] would presume that if such a knob was on our
[20]	the second sector sheet many language in 1000 some	ct?	[20] hypothetical transceiver or transmitter, we would
[21]	A mile of a strength of the Niew T		[21] be able to dial up that our input data rate was
	believe that — yes, yes. That's correct. That's		[22] something and that the system would be able to
	correct.		[23] handle, through whatever choice of modulation,
			[24] such a increase in data rate but I don't, I don't,
[24]			In a second of the second of t
[24] [25]	of speech processing and not the area of the Burst		[25] you know, that's a — that's a question that is

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[2] difficult to answer in the abstract, you know.	[2] good precision how far away it is and how fast it
<sup>[3]</sup> There is a specific unit.	[3] is moving.
[4] It has, they have picked some or	[4] Narrower pulses provide better
[5] maybe multiple signalling techniques. Obviously	[5] resolution with respect to time. So in radar, the
6) what's in the sky, you can't easily reconfigure a	[6] term "time compression" is used to actually shape
[7] satellite once it's up there. It's going to have,	[7] those pulses and "shaping" there means let's give
<sup>[8]</sup> you know, some, some things you just can't do with	[8] them very efficient time frequency products.
9 it so I don't know.	[9] <b>Q</b> : You'd agree that radar is outside
of THE VIDEOGRAPHER: Counsel,	[10] the field of the Burst patents, correct?
11) you have 8 minutes.	[11] A: I would definitely agree with that
12] MR. BROWN: Okay.	[12] statement, yes.
<b>Q:</b> You've listed four meanings of	[13] <b>Q</b> : Okay. Are you — and we've already
<sup>[4]</sup> "time compression" that were known in 1988.	[14] established that numbers 2 and 3 are outside the
Are you aware of any others?	[15] field of the Burst patents?
16] <b>A</b> : Yes.	[16] <b>A:</b> Yes.
<b>Q</b> : Are you aware of any others in the	[17] <b>Q:</b> Are you aware of any definitions
18] area of communication of audio/video information?	[18] that you haven't, definitions of the term "time
A: Now, are you — sorry. I think I	[19] compression" that would have been known in 1988
<sup>20</sup> need to ask you to repeat your question. If	[20] that fall within the field of the Burst patents
you're referring to references or what — can you	[21] that you haven't listed here?
22] just repeat the question?	[22] A: I am not aware of any that I haven't
23] <b>Q:</b> Sure. I don't mean to limit my	[23] listed. I attempted to be thorough in finding the
<sup>24]</sup> question to references. I mean the question I	[24] uses because, as I state, it's not a term, it's a
25] want to ask you about is whether you're aware of	[25] term that didn't have a single accepted use or
Page 189 [1] <b>Hemami</b>	(Iomomi
<sup>[2]</sup> any meanings that were ascribed to the phrase	[1] <b>Hemami</b> [2] meaning and I wanted to make sure that I cast a
[3] "time compression" in 1988 other than the ones	<sup>[2]</sup> Incaming and I wanted to make sure that I case a <sup>[3]</sup> broad net and that I didn't miss anything. Now,
[4] that you've listed in your expert report?	<sup>[3]</sup> obviously here I missed the radar definition.
[5]       A: Yes. Time compression was also used	
[6] with respect to radar.	<ul> <li>[5] <b>Q</b>: So definitions 1 and 4 that you've</li> <li>[6] listed here are the only definitions of "time</li> </ul>
	[7] compression" that you are aware of that fall
	m within the field of the communication of
[8] context of radar?	<sup>[8]</sup> within the field of the communication of
<ul><li>[8] context of radar?</li><li>[9] A: So and I'm going to give sort of a</li></ul>	19] audio/video information. Is that right?
<ul> <li>[8] context of radar?</li> <li>[9] A: So and I'm going to give sort of a</li> <li>[10] bus type description here because I'm not a radar</li> </ul>	<ul><li>[9] audio/video information. Is that right?</li><li>[10] A: Some of the references in items 1</li></ul>
<ul> <li>[8] context of radar?</li> <li>[9] A: So and I'm going to give sort of a</li> <li>[10] bus type description here because I'm not a radar</li> <li>[11] expert but radar operates by essentially sending</li> </ul>	<ul> <li>[9] audio/video information. Is that right?</li> <li>[10] A: Some of the references in items 1</li> <li>[11] and 4.</li> </ul>
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<ul> <li>[8] context of radar?</li> <li>[9] A: So and I'm going to give sort of a</li> <li>[10] bus type description here because I'm not a radar</li> <li>[11] expert but radar operates by essentially sending</li> <li>[12] out a very narrow pulse and then waiting and</li> <li>[13] receiving the reflection of the pulses and thereby</li> <li>[14] measuring, between propagation delay and various</li> <li>[15] other effects, how far away an object is. And,</li> <li>[16] you know, one can also image an object.</li> <li>[17] If you just imagine how this</li> <li>[18] operation, one would like those pulses that one is</li> <li>[19] transmitting, that one is sort of flooding the air</li> <li>[20] with to be skinny because the narrower the pulses</li> <li>[21] are, the better we can limit the relative distance</li> <li>[22] of the object it has bounced off of when we</li> </ul>	<ul> <li>[9] audio/video information. Is that right?</li> <li>[10] A: Some of the references in items 1</li> <li>[11] and 4.</li> <li>[12] MR. PAYNE: Objection. Form.</li> <li>[13] Q: You'd agree that the term "time</li> <li>[14] compression" is used in the sense you've described</li> <li>[15] as 1 and 4 in your expert report in the field of</li> <li>[16] communication of audio or video information?</li> <li>[17] A: Yes.</li> <li>[18] Q: And that was known by a person of</li> <li>[19] ordinary skill in the art in 1988?</li> <li>[20] A: What was known?</li> <li>[21] Q: That those two meanings as you've</li> <li>[22] described them were used in that field?</li> </ul>

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	Page 192			Page 194
[1]	Hemami	[1]	Hemami	
[2]	A: I do not, I don't think I believe	[2]	in 1988?	
	that one of ordinary skill would necessarily know	[3]	A: I think some people would and some	
	the use of time compression in these contexts for	[4]	people wouldn't. If I have to make a blanket	
[5] 3	audio/video source information.	[5]	statement then, then I guess the answer has to be	
[6]	<b>Q</b> : So you think someone of ordinary	[6]	"no" because we need to take into account the	
	skill in the art would not know those meanings or	[7]	people that wouldn't.	
[8]	you're not sure one way or the other?	[8]	<b>Q</b> : And what about 4?	
[9]	A: I, I think that it would depend on	[9]	Would some people know that	
[10]	where the ordinary skill came from to some extent.	[10]	definition and some people not know that	
	I think we discussed earlier that there were, we	[11]	definition?	
[12]	could have somebody without an electrical	[12]	A: Well, certainly based on the fact	
[13]	engineering degree who was a techy person who, you	[13]	that that definition appears in even textbooks at	
[14]	know, worked in the context of broadcasting or	[14]	the time involving digital communication with	
[15]	something that, that might follow these.	[15]	respect to full duplex transmission, both the	
[16]	Now, let me say that, you know, the	[16]	chapter that you gave me and the Lee and	
[17]	Haskell, the Haskell patent, there is a very, very	[17]	Messerschmitt text, which I have, describe time	
	similar paper, that IEEE technical paper in	[18]	compression in the context of full duplex sharing	
	content to the Haskell patent. I don't know to	[19]	of a channel so that two people can talk at the	
[20]	what extent that was, that was done.	[20]	same time.	
[21]	<b>Q</b> : This much I think is fairly simple.	[21]	I think that it is more likely that	
-	Exhibit 80, which is The Modern Dictionary of		people would understand that interpretation of	
[23]	Electronics —	[23]	time compression, item 4 as opposed to item 1.	
[24]	A: The burst transmission.	[24]	THE VIDEOGRAPHER: Excuse me,	
[25]	<b>Q:</b> Correct. That contains a definition	[25]	Counsel. I need to change the tape.	
	Page 193			Page 19
[1]	Hemami	[1]	Hemami	
[2]	of "burst transmission" that corresponds to your	[2]	MR. BROWN: Let's do it.	
[3]	definition 1, correct?	[3]	THE VIDEOGRAPHER: The time is	
[4]	A: Yes. Yes.	[4]	now 2:24. This marks the ending of	
[5]	THE VIDEOGRAPHER: Counselor,	[5]	tape number three. Off the record.	
[6]	you have two minutes.	[6]	(Recess taken)	
[7]	<b>Q</b> : And the edition that contains, that			
	was published in 1984 as it says on the second	[8]	now 2:32. This marks the beginning of	
[9]	page of Exhibit 80, correct?	[9]	tape number four. On the record.	
[10]		[10]		
[11]	•	[11]		
	agree would be known to a person of ordinary skill	1	and 43, number 1, you're meaning number 1 for the	ime
[13]	in the art in 1988, correct?	[13]	compression. Do you see that?	
[14]		[14]	A: Yes.	
	read the dictionary and when I read — I mean I	[15]	<b>Q</b> : Is that data compression?	
	think I'm a pretty educated person and when I pick	[16]		
	up a technical dictionary, I always find terms		signal relative to its original duration," no,	
	that I don't know, some of which are amusing and	[18]	there's no data compression there.	
[19]	some of which are just there. So —	[19]	~	
		[20]		
[20]	directly, then.	[21]	rate is not data compression.	
	De ser ser et le station de ser de	[22	<b>Q</b> : Your reference 14, which is	
[21] [22]		1		
[21] [22] [23]	1 which appears in the Modern Dictionary of	1	Exhibit 82?	
[21] [22] [23] [24]	•	1	Exhibit 82?	

SHEILA HEMAMI November 14, 2006 Signature Content 75-3 Filed 12/09/2006

ABPLE COMPLITER v. BURST.COM

	Page 196 Page 198
1) Hemami	[1] Hemami
<sup>2]</sup> not been cited by either Burst or Apple. Is that	[2] <b>Q</b> : And you came upon that reference
3] true to the best of your knowledge?	[3] because it was cited by Apple in this case?
4] <b>A:</b> To the best of my knowledge, yes.	[4] <b>A</b> : Yes.
5] <b>Q</b> : Did you find this reference on your	[5] <b>Q</b> : Did you do some sort of search in
6] Own?	[6] order to find Exhibits 83 and 82?
رم <b>A: I did</b> .	[7] <b>A</b> : Yes.
<b>Q:</b> The Haskell reference is cited prior	[8] <b>Q:</b> And can you just generally describe
g art to the Burst patents, correct?	[9] the search that you did?
oj <b>A: Yes</b> .	[10] A: I used the IEEE's online database
1] <b>Q</b> : You state here that the graph	[11] called IEEE Explore and I searched on variations
2] reference was cited by Apple?	[12] of "time compression."
3] <b>A:</b> Yes.	[13] <b>Q</b> : So for example, "time compress"
<b>Q:</b> Is that how you found the graph	[14] would be included?
5] reference?	[15] <b>A:</b> Yes, I don't remember because, you
6] A: Well, I actually own that book so	[16] know, one has to be a little bit flexible when
7] when I saw the text on the, the chart, I went	[17] searching databases. I don't know which ones
18] upstairs and pulled it off my shelf.	[18] actually worked —
9 <b>Q:</b> When do, did you acquire that book,	[19] <b>Q:</b> Fair enough.
20] if you remember?	[20] A: — but appropriate variations that
A: During the DirecTV case.	[21] somebody would think of when doing such a search.
22] <b>Q</b> : Oh. That's the Pegasus/DirecTV case	[22] <b>Q:</b> I'm just going to mark a series of
23] we discussed earlier today, correct?	[23] other references which I will, I'll represent to
A: Yes, so most likely in 2001.	[24] you are references that were cited in
<b>Q</b> : Turning to number 4, reference	[25] Mr. Halpern's expert report and let's start with
[1] Hemami	11
[2] number 1 there is a text that you owned	[1] <b>Hemami</b> [2] the Arnon patent, $4,467,473$ which is 85.
[3] independently of this case, correct?	
[4] A: Reference 1 is —	<ul> <li>[3] (Document bearing Bates Nos.</li> <li>[4] APBU00000807 through 813 was marked as</li> </ul>
[5] <b>Q</b> : The Lee book —	[5] Deposition Exhibit No. 85 for
6 A: Lee and Messerschmitt, yes, that's	[6] identification, as of this date.)
7 correct.	
<ul> <li>[8] Q: — which I believe you said you</li> </ul>	[7] <b>G</b> : Have you reviewed Exhibit 85 prior [8] to today?
(9) acquired as a student?	A
10] <b>A:</b> Yes.	[9] A: Yes, I have. [10] MR. BROWN: I'm going to mark
<b>Q:</b> So that's a reference you had	[11] as Exhibit 86 a copy of the Roberts
12) independent of this case?	[12] patent, 2,987,614.
13] <b>A</b> : Yes.	
$\mathbf{Q}$ : 17, which is Exhibit 83, the	[13] (Document bearing Bates Nos. [14] APBU00000726 through 730 was marked as
(15) Gardiner article?	[14] AFB000000720 through 750 was marked as [15] Deposition Exhibit No. 86 for
[16] <b>A</b> : Yes.	[16] identification, as of this date.)
<b>Q</b> : That one I also believe was not	
[19] cited by the parties to this case.	[17] <b>Q:</b> Have you reviewed Exhibit 86, the [18] Roberts patent, prior to today?
In Is this a reference that you found	A
[20] On your own?	
Levi Car Jour Ottari	[20] <b>Q:</b> Had you reviewed Exhibit 86 prior to [21] preparing your expert report?
A: Yes it is	
A: Yes, it is. <b>Q</b> : And then the Gitlin reference the	
[22] <b>Q</b> : And then the Gitlin reference, the	[22] <b>A:</b> No.

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	Page 200			Page 202
[1]	Hemami	[1]	Hemami	
2]	<b>Q</b> : Are you aware that Exhibit 86 is	[2]	33.	
3]	cited prior art to the Burst patent?	[3]	(Pause)	
[4]	A: Yes.	[4]	A: Sorry. Now, you mentioned 25 to 33,	
5]	<b>Q</b> : Are you aware that Exhibit 85 is	[5]	yes?	
[6]	cited prior part to the Burst patent?	[6]	<b>Q</b> : The reason I thought that might be	
[7]	A: Yes.	[7]	helpful is because it says that, "The message	
[8]	MR. BROWN: I'm going to mark	[8]	signal sources are digitized and compressed	
[9]	as Exhibit 87 a copy of the Abraham	( <del>9</del> )	time-wise for transmission," through line 94,	
10]	patent, 4,521,806.	[10]	"during time compressed transmission periods of	
11]	(Document bearing Bates Nos.	[11]	relatively short duration as compared to real-time	
12]	APBU00001613 through 1628 was marked	[12]	duration."	
13]	as Deposition Exhibit No. 87 for	[13]	A: Okay. So why don't I say at this	
	identification, as of this date.)	[14]	point, I think I recall this and I may reserve the	
[15]	Q: Have you reviewed Exhibit 87 prior	[15]	right to go back and read some more.	
16]	to today?	[16]	<b>Q:</b> Okay. But the question that I	
17]	A: Yes, I have.	1	intended to ask you about this is whether the	
18]	Q: Had you reviewed Exhibit 87 prior to	[18]	Abraham patent, Exhibit 87, uses "time	
19]	preparing your expert report?		compression" in the sense of either 1 or 4 and	
[20]	A: I do not remember.	[20]	certainly my view is that it uses it in sense	
[21]	<b>Q</b> : Are you aware that Exhibit 87 is		number 4 as you've defined it on page 43 of your	
[22]	cited prior art to the Burst patents?	[22]	report but I'm asking your opinion.	
[23]	A: Yes.	[23]	A: Yes. In this patent, audio-visual	
[24]	<b>Q</b> : If you look at Exhibit 87, in the	[24]	information is digitized and then time compressed	
[25]	"Summary of the Invention" section in column 1, at	[25]	in the manner or in the definition of number 4,	
	Page 201			_
				Page 20
[1]	Hemami	[1]	Hemami	Page 20
				Page 20
[2]	Hemami		<i>Hemami</i> sort of similar to the Gardiner reference, simply clocking things out faster for this particular,	Page 20
[2] [3]	<i>Hemami</i> line, I would say roughly 40 through 50, it refers	[2] [3]	sort of similar to the Gardiner reference, simply clocking things out faster for this particular,	Page 20
[2] [3] [4]	<i>Hemami</i> line, I would say roughly 40 through 50, it refers to signals that are time compressed for broadcast	[2] [3] [4]	sort of similar to the Gardiner reference, simply	Page 20
[2] [3] [4]	<i>Hemami</i> line, I would say roughly 40 through 50, it refers to signals that are time compressed for broadcast through a leased cable communication path. Do you	[2] [3] [4]	sort of similar to the Gardiner reference, simply clocking things out faster for this particular, just from the sheer standpoint of clocking things,	Page 20
[2] [3] [4] [5]	<i>Hemami</i> line, I would say roughly 40 through 50, it refers to signals that are time compressed for broadcast through a leased cable communication path. Do you see that?	[2] [3] [4] [5] [6]	sort of similar to the Gardiner reference, simply clocking things out faster for this particular, just from the sheer standpoint of clocking things, yes. That's item 4.	
[2] [3] [4] [5] [6] [7]	Hemami line, I would say roughly 40 through 50, it refers to signals that are time compressed for broadcast through a leased cable communication path. Do you see that? A: Yes. Q: Does the Abraham patent, Exhibit 87,	[2] [3] [4] [5] [6]	sort of similar to the Gardiner reference, simply clocking things out faster for this particular, just from the sheer standpoint of clocking things, yes.That's item 4. <b>Q</b> : So do you agree that Exhibit 87,	
[2] [3] [4] [5] [6] [7] [8]	Hemami line, I would say roughly 40 through 50, it refers to signals that are time compressed for broadcast through a leased cable communication path. Do you see that? A: Yes. Q: Does the Abraham patent, Exhibit 87,	[2] [3] [4] [5] [6]	sort of similar to the Gardiner reference, simply clocking things out faster for this particular, just from the sheer standpoint of clocking things, yes. That's item 4. <b>Q</b> : So do you agree that Exhibit 87, which is described transmitting audio/video signal	
[2] [3] [4] [5] [6] [7] [8]	Hemami line, I would say roughly 40 through 50, it refers to signals that are time compressed for broadcast through a leased cable communication path. Do you see that? A: Yes. Q: Does the Abraham patent, Exhibit 87, use time compressed in the sense of either 1 or 4	[2] [3] [4] [5] [6] [7] [8] [9]	sort of similar to the Gardiner reference, simply clocking things out faster for this particular, just from the sheer standpoint of clocking things, yes. That's item 4. <b>Q</b> : So do you agree that Exhibit 87, which is described transmitting audio/video signal sources over television networks uses the phrase	
[2] [3] [4] [5] [6] [7] [8] [9] [10]	Hemami line, I would say roughly 40 through 50, it refers to signals that are time compressed for broadcast through a leased cable communication path. Do you see that? A: Yes. Q: Does the Abraham patent, Exhibit 87, use time compressed in the sense of either 1 or 4 in your expert report on pages 42 and 43?	[2] [3] [4] [5] [6] [7] [8] [9]	sort of similar to the Gardiner reference, simply clocking things out faster for this particular, just from the sheer standpoint of clocking things, yes. That's item 4. <b>Q</b> : So do you agree that Exhibit 87, which is described transmitting audio/video signal sources over television networks uses the phrase "time compression" as you've described it in Exhibit 4?	
<ul> <li>[2]</li> <li>[3]</li> <li>[4]</li> <li>[5]</li> <li>[6]</li> <li>[7]</li> <li>[8]</li> <li>[9]</li> <li>[10]</li> <li>[11]</li> </ul>	<ul> <li>Hemami</li> <li>line, I would say roughly 40 through 50, it refers to signals that are time compressed for broadcast through a leased cable communication path. Do you see that?</li> <li>A: Yes.</li> <li>Q: Does the Abraham patent, Exhibit 87, use time compressed in the sense of either 1 or 4 in your expert report on pages 42 and 43?</li> <li>A: Okay. I would like to take just a</li> </ul>	[2] [3] [4] [5] [6] [7] [8] [9] [10] [11]	sort of similar to the Gardiner reference, simply clocking things out faster for this particular, just from the sheer standpoint of clocking things, yes. That's item 4. <b>Q</b> : So do you agree that Exhibit 87, which is described transmitting audio/video signal sources over television networks uses the phrase "time compression" as you've described it in Exhibit 4? <b>MR. PAYNE:</b> Objection —	
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	Page 204	Page 206
[1] Hemami	[1]	Hemami
[2] correct?	[2]	A: Yes.
A: Leased cable communication path.	[3]	Q: That is, again, using the phrase
[4] <b>Q</b> : Okay. It's not, it's not terribly	[4]	"time compressed." Actually, here it's compressed
[5] important.	[5]	with respect to time, not actually time compressed
[6] You agree that Abraham discloses the	[6]	in the sense which you've set forth as number 4 on
ransmission of audio/video source information,	רז	page 33 of your expert report, correct?
[8] COrrect?	[8]	A: So here I think I would clarify that
19] <b>A:</b> Yes.	[9]	that in particular, item 4 points out that the
10] <b>Q</b> : And you agree that in the Abraham	[10]	origin or the meaning of the signal is irrelevant.
11] reference, the term "time compression" is used in	[11]	It's simply viewed as a sequence of 1's and zeros
<sup>12]</sup> the sense that you've defined it as number 4 in	[12]	and in this sentence, you know, to the extent that
13] your expert report on page 43?	[13]	it's simply a digital information signal, there
14] <b>A:</b> With respect to the fact that the	[14]	are no attributes ascribed to it, that is a nice
15] Abraham patent is transmitting bits, those bits	[15]	correspondence.
16] are clocked out at a faster rate.	[16]	I would also like to specify,
<b>Q:</b> Which is time compression in the	[17]	though, that in — this sentence is describing
[18] sense you've defined it in, as number 4?	[18]	"time compression multiplexing," okay? And the
19] A: Well, I wouldn't say I've defined it		description that I've given in 4 involves simply
<sup>[20]</sup> in number 4. I've given number 4 as one of the	[20]	just increasing the digital signal. It's a sub,
<sup>[21]</sup> uses in which it appeared in the 1988 time frame.	[21]	sub-step, shall we say.
<b>Q:</b> And Exhibit 87 is another example of	[22]	<b>Q</b> : It's true that the use of "time
[23] that, correct?	[23]	compression" that you've described as number 4 is
[24] MR. PAYNE: Objection. Form.	[24]	a technique that is used as part of time
A: I don't know if I would say it's an	[25]	compression multiplexing, correct?
	Page 205	Page 207
[1] Hemami		Hemami
	[1]	nemani
2] example. I would say they employed that, so to	[1]	A
		A: Yes.
<ul> <li>[2] example. I would say they employed that, so to</li> <li>[3] the, to the extent that an example employs</li> <li>[4] something.</li> </ul>	[2] [3]	A: Yes.
<ul> <li>[2] example. I would say they employed that, so to</li> <li>[3] the, to the extent that an example employs</li> <li>[4] something.</li> <li>[5] Q: Okay. Let's look at Exhibit 85. So</li> </ul>	[2] [3] [4]	A: Yes. Q: And Exhibit 85, the Arnon patent,
<ul> <li>[2] example. I would say they employed that, so to</li> <li>[3] the, to the extent that an example employs</li> <li>[4] something.</li> <li>[5] Q: Okay. Let's look at Exhibit 85. So</li> <li>[6] Exhibit 85 is titled, "Time Compression Multiplex</li> </ul>	[2] [3] [4] [5]	<ul><li>A: Yes.</li><li>Q: And Exhibit 85, the Arnon patent,</li><li>uses the phrase "compressed with respect to time"</li></ul>
<ul> <li>[2] example. I would say they employed that, so to</li> <li>[3] the, to the extent that an example employs</li> <li>[4] something.</li> <li>[5] Q: Okay. Let's look at Exhibit 85. So</li> <li>[6] Exhibit 85 is titled, "Time Compression Multiplex</li> <li>[7] Digital Transmission System." Do you see that?</li> </ul>	[2] [3] [4] [5]	A: Yes. Q: And Exhibit 85, the Arnon patent, uses the phrase "compressed with respect to time" to refer to that technique which you've set forth at number 4 of your expert report on page 43?
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	Page 208		Page 210
[1]	Hemami	[1] Hemami	
[2] <b>t</b>	erm shows up in the claims.	[2] <b>Q:</b> Okay. Why don't you read claim 1 to	
[3]	Q: Hang on just a second. It turns out	<sup>[3]</sup> yourself and let me know when you're finished.	
{4} <b>1</b>	my copy of the file history is in my other bag.	[4] (Pause)	
[5]	Did you review the originally filed	[5] <b>A</b> : Okay.	
[6] (	claims of the '995 patent?	[6] <b>Q</b> : Claim 1 describes increasing the	
[7]	A: Yes. In the context of trying to	7 digital signalling rate as you've set that forth	
	understand the patents, I reviewed the application	[8] in — let me take a step back.	
[9] 2	and the evolution thereof.	<sup>[9]</sup> Do you see the last part of claim 1	
[10]	<b>Q</b> : Okay. So you understand that the	[10] just says "transmitting said first digital signals	
	initial application, the first application that	[11] to said output port at a speed greater than the	
	Richard Lang filed is the application that's	[12] speed of the analog video signals received by the	
[13] ]	behind tab 1 of the '995 File History, correct?	[13] first means"? Do you see that?	
[14]	A: If you say so. I mean, I don't	[14] <b>A:</b> I do.	
[15] ]	remember if that's what it is.	[15] <b>Q</b> : Do you agree that claim 1 describes	
[16]	Q: Okay. Well, I will represent that	[16] "time compression" in the sense that you've	
	that is true. You can see behind tab 1 of the	[17] defined it in number 4 of your expert report on	
[18]	'995 file history, there's a mail room stamp in	[18] page 43?	
[19]	the top left corner. Do you see that?	[19] A: I, I'm not sure what a "speed of	
[20]	<b>A:</b> I do.	[20] analog video signal is." So as a reviewer, I	
[21]	Q: And it says, "December 27, 1988."	[21] would say this is written in such a manner that	
[22]	A: Yes.	[22] it's difficult for me to understand what he's	
[23]	<b>Q</b> : And if you go back to the '995	[23] intending there.	
[24]	patent, you can see that it has a file date of	[24] <b>Q:</b> Right. So he's comparing the speed	
[25]	December 27, 1988. Do you see that?	[25] of the digital data signals to the speed of the	
	Page 209		Page 2 <sup>-</sup>
[1]	Hemami	m Hemami	
107		[1] Hemami	
[2]	A: Yes.Yes.	[2] analog video signals, right?	
[2] [3]	A: Yes.Yes. Q: And if you go to another one of the	F.1	
[3]		[2] analog video signals, right?	
[3] [4]	<b>Q</b> : And if you go to another one of the	<ul> <li>[2] analog video signals, right?</li> <li>[3] A: I don't know what a "speed of a</li> </ul>	
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[3] [4] [5]	<b>Q</b> : And if you go to another one of the patents, pick whichever one you want, you'll see that that's the earliest date on those patents.	<ul> <li>[2] analog video signals, right?</li> <li>[3] A: I don't know what a "speed of a</li> <li>[4] digital data signal" is and I don't know what a</li> <li>[5] "speed of an analog video signal" is.</li> </ul>	rt
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SHEILA HEMAMI Se 3:06-cv-00019-MHP November 14, 2006

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[1]	Hemami	r i	[1] Hemami	
	g said that, speed of an		[2] of my unhappiness with the "speed of analog video	
-	gnal, speed is a rate, right,		[3] signals" in claim 1, it would be, yes, that	
	et per minute or —		[4] "compresses" to me clearly refers back to the data	
[5] <b>Q</b> : Right.			5 compression which was discussed in the	
	hing per minute.		6 specification.	
•	ve said in paragraph 4 that		<b>Q:</b> And by that "compresses," you mean	
=	ng the digital signalling rate		<sup>[8]</sup> the word "compresses" in claim 4 of the '995	
	o me to be the same thing as		[9] application?	
	speed of a digital data signal.	ſ	10] <b>A:</b> Yes. Now, let me, let me, having	
_	bleasantly worded manner,	ſ	11] said that, say that at this point, I am	
	y that but now, "greater than the	l	sequentially reading the claims and there may be a	
-	nalog video signal," it's unclear to	t	13] claim later that may cause me to think is that	
	speed of a video analog signal is	1	[14] really what was meant there —	
[15] purely from rea	-	l	[15] <b>Q:</b> Sure.	
	ok at claim 4 of the		A: — and then go back and, you know, I	
-	ry, of the patent, of the		would like to understand the whole thing as a	
[18] application. Do	) you see that?	1	[18] whole when all is said and done.	
[19] <b>A:</b> Yes.			[19] <b>Q</b> : But having read only claim 1 and	
	to "a first means which		[20] claim 4 of the application, it's your opinion in	
[21] sequentially co	ompresses said first digital data		[21] light of what the application which you've	
[22] signal into a se	cond data signal."		[22] previously read that the word "compresses" in	
[23] Do you see	that?		[23] claim 4 is referring to data, correct?	
[24] <b>A</b> : Yes.			[24] <b>A:</b> I believe so.	
[25] <b>Q</b> : You unde	erstand from that claim		[25] <b>Q:</b> And certainly in data compression in	
		Page 213	Page	ə 215
[1]	Hemami		[1] Hemami	
[2] language that	the second digital data signal is		[2] the sense that you've defined it, namely reducing	
121 different from				
o uncrent from	the first digital data signal?		<sup>[3]</sup> the number of bits, when you data compress a data	
[3] universit from [4] <b>A:</b> Yes.	the first digital data signal?			
[4] <b>A:</b> Yes.	the first digital data signal? Inderstand that to be		[3] the number of bits, when you data compress a data	
<ul> <li>[4] A: Yes.</li> <li>[5] Q: Do you u</li> </ul>	-		<ul><li>[3] the number of bits, when you data compress a data</li><li>[4] signal, the resulting signal is a different signal</li></ul>	
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		Page 216	Page 21
[1]			[1] Hemami
[2]			[2] Let's go back to the abstract for a
[3]	-		[3] second. It talks about storing video, right?
	magnetic media is identified as blocks 23,		[4] <b>A</b> : Yes.
[5]	correct?		[5] <b>Q</b> : It talks about editing such
[6]			[6] programs?
[7]	· - ·		[7] <b>A</b> : Yes.
[8]	to column 3, lines 51 through 58 — really 55.		[8] <b>Q</b> : It talks about transferring such
[9]			[9] programs onto hard copy and magnetic media, right?
[10]	_		[10] <b>A:</b> Yes.
[11]	media 23 is a magnetic tape." Do you see that?		[11] <b>Q:</b> And then it refers to transmitting
[12]			[12] them to a remote location.
[13]	•		[13] <b>A:</b> Yes.
	AVRU11 may operate with other types of storage		[14] <b>Q</b> : So at least in, in that context,
	media including, but not limited to, other		[15] would you agree that the hard copy magnetic media
[16]	magnetic tape formats." Do you see that?		[16] it's referring to is the box 23 in Figure 2 which
[17]			[17] is the, the VCR tape that we looked at earlier?
[18]	, 1, -		[18] A: The V — I would agree with that.
[19]	media, correct?		[19] The VCR tape is one example as given in column 3.
[20]			[20] <b>Q</b> : Okay. If you look at column 6, it's
	to soft copy?		[21] describing various types of memory at line 33. Do
[22]			[22] you see that? Or maybe it actually starts at —
-	If you look at the abstract, it's		[23] A: Starting with, "One type" or
	describing the capability of the improved video		[24] earlier?
[25]	recorder transceiver, right?		[25] <b>Q</b> : I think it actually starts earlier
		Page 217	Page 21
[1]			
[2	· -		[2] at 28. Do you see that?
[3	functionality and then it refers to it as a		[3] A: Yes.
[4	VCR-ET, correct?		[4] <b>Q</b> : And then it describes, going down to
[5			[5] about line 45, different memory technologies.
[6			[6] A: Yes.
[7	what "VCR-ET" stands for, have you?		[7] <b>Q</b> : It gives various examples including
[8			[8] optical disk memories, bubble memories and
	<b>Q:</b> In column 3 at line 42 it says that		
[9	the second se		<sup>[9]</sup> magnetic disks, correct?
(10	video, it refers to an "audio/video recorder		[10] <b>A</b> : Yes.
(10 [11	editor/transceiver." Do you see that?		[10] A: Yes. [11] Q: And that is all in the context of
(10 [11 [12	editor/transceiver." Do you see that? A: Yes.		<ul> <li>[10] A: Yes.</li> <li>[11] Q: And that is all in the context of</li> <li>[12] describing what can be used in memory 13, correct?</li> </ul>
(10 [11 [12 [13	<ul> <li>editor/transceiver." Do you see that?</li> <li>A: Yes.</li> <li>Q: So is it your understanding that</li> </ul>		<ul> <li>[10] A: Yes.</li> <li>[11] Q: And that is all in the context of</li> <li>[12] describing what can be used in memory 13, correct?</li> <li>[13] A: I agree.</li> </ul>
(10 [11 [12 [13 [14	<ul> <li>editor/transceiver." Do you see that?</li> <li>A: Yes.</li> <li>Q: So is it your understanding that</li> <li>"VCR-ET" refers to a "video recorder</li> </ul>		<ul> <li>A: Yes.</li> <li>Q: And that is all in the context of</li> <li>describing what can be used in memory 13, correct?</li> <li>A: I agree.</li> <li>Q: And certainly the general, one</li> </ul>
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(10) (11) (12) (12) (12) (12) (12) (11) (13) (13) (14) (	<ul> <li>editor/transceiver." Do you see that?</li> <li>A: Yes.</li> <li>Q: So is it your understanding that</li> <li>"VCR-ET" refers to a "video recorder</li> <li>editor/transceiver"?</li> <li>A: It was my understanding that the</li> <li>VCR-ET was whatever this invention was.</li> <li>Q: Okay. You'd agree with me, though,</li> <li>that video recorder editor transceiver has the</li> <li>initials VCR-ET?</li> <li>A: It does, it does. Somehow I always</li> <li>thought it was "enhanced transmission."</li> </ul>		<ul> <li>A: Yes.</li> <li>Q: And that is all in the context of</li> <li>describing what can be used in memory 13, correct?</li> <li>A: I agree.</li> <li>Q: And certainly the general, one</li> <li>general idea of the apparatus described in this</li> <li>patent is that it allows you to put a VCR tape</li> <li>into a VCR, copy it onto memory 13 and then copy</li> <li>it back onto a different VCR tape, correct?</li> <li>A: Yes.</li> <li>Q: So one of the things that the</li> <li>apparatus described in the Burst patents can</li> <li>accomplish is copying one VCR tape to another</li> </ul>

SHEILA HEMAMI 3:06-cv-00019-MHP Document 75-3 Filed 12/09/2006 November 14, 2006

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Hemami	[1] Hemami
A: I agree.	[2] <b>Q</b> : And it's a — now, in the context of
<b>Q:</b> Okay. In your opinion, are	[3] that embodiment, if you see at line 31, it talks
a examples, other than magnetic tape, given for	[4] about transmitting —
5] storage media 23?	[5] A: Sorry. We're still on column 11?
A: I, I believe that they are.	[6] <b>Q</b> : I'm sorry. Yes. Column 11, line
<b>Q</b> : Are you referring, for example, to	[7] 31. The specification refers to transmitting by
b) the CD-ROM that's referred to on column 3, line	[8] the fiber optic port to another VCR-ET, correct?
9) 60?	[9] <b>A:</b> Yes.
A: Well, in fact, I think, I believe —	[10] <b>Q</b> : And if you go down to line $66 - I'm$
1) here we go. Column 3, line 60 suggests that an	[11] sorry. I'm looking at the wrong column. My
2) alternate form for storage media is CD-ROM and	[12] apologies. Let's go to column 9 at line 66.
3) then goes on to, of course, mention that you	[13] There it refers to downloading the
4] couldn't store or write on the CD-ROM.	[14] stored program from memory 13 onto recording media
5) Now, then we further go on to column	[15] 23, correct?
6] 4 and it says that, "The VCR-ET can use optical	[16] A: Yes.
7] disks as media 23," and then discusses two types	[17] <b>Q</b> : And then in the next sentence, it
8] of optical disks.	[18] talks about reloading the program for media 23
9] <b>Q</b> : So media 23 can be optical disks or	[19] into memory at a future time, right?
no magnetic tape, right?	[20] <b>A:</b> Yes.
A: I don't know that it would be	[21] <b>Q:</b> And then later on, it talks about,
22] limited to those but certainly those are the	[22] at line 6 of column 10, it refers to the hard copy
23] examples that are given in columns 3 and 4.	[23] in compressed digital format. Do you see that?
<b>Q:</b> Now, in the embodiment that's shown	[24] <b>A:</b> Yes.
<sup>25]</sup> in Figure 2, the drive that holds either the	[25] <b>Q:</b> And that is referring back to the
	Page 221 Page 223
[1] Hemami	[1] Hemami
<sup>[2]</sup> magnetic tape or the optical disk is shown as part	[2] copy on media 23, right?
[3] of the transceiver apparatus, correct?	[3] <b>A:</b> Yes.
[4] <b>A</b> : Yes.	[4] <b>Q</b> : And it says there that that hard
[5] <b>Q</b> : If you look at the embodiment shown	[5] copy could later be transmitted by an appropriate
[6] in Figure 3, in that embodiment, item 23 is shown	[6] independent transmitter. Do you see that?
7 as part of a separate device, which I believe is	[7] A: Yes.
<sup>[8]</sup> described as a conventional VCR in the	[8] <b>Q</b> : So would you agree that at least in
specification, correct?	[9] that, those paragraphs that we have discussed, the
A: I, I would just like to check.	[10] patent uses "transmission" in a sense different
(11) <b>Q:</b> Sure.	[11] from, for example, "downloading"?
A: I believe that what you said about	[12] MR. PAYNE: Objection to form.
[13] conventional VCR that that is accurate.	[13] A: Okay. So, sorry. We went through
[14] <b>Q</b> : The description in Figure 3 starts	[14] several things. First, we talked about — can you
[15] at column 11, line 9.	[15] clarify your question?
[16] A: So, yes. We see that in this	[16] <b>Q</b> : Sure, absolutely.
[17] embodiment, it is suggested to be a conventional,	[17] It seems to me that the patent
[18] commercially available VCR.	[18] refers, uses the word "transmitting" to refer to
[19] <b>Q</b> : And it says specifically that the	[19] sending something to a remote location, as it says
[20] AVRU11 is not integral with the VCU12, 13 or 14.	[20] in the abstract, and uses other language such as
	[21] "transfer" or "download" to refer to moving
[21] Do you see that?	
	[22] information onto, for example, media 23.
[21] Do you see that?	
[21] Do you see that? [22] <b>A:</b> Yes.	[22] information onto, for example, media 23.

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[1] Hemami	[1] Hemami
[2] characterization because I recall at least another	[2] is fairly simple.
<sup>[3]</sup> instance where the word "transmit" is used in the	<sup>[3]</sup> Do you consider Figure 3 to show
[4] specification but when we read what's going on, it	[4] that unit 11, which is the conventional VCR, is
[5] is a transfer between units within the VCR-ET.	[5] remote from unit 60?
[6] So I do not believe that the	[6] A: Is the — well, so I think that, I
7 specifications have a consistent use of	[7] think — actually, now I, I'm a little bit behind
<sup>[8]</sup> delineation between "transfer" and "transmit."	<sup>[8]</sup> you. I've put some pieces together.
[9]         Q: Okay. So you agree that it is true	[9] The context of the download and
10] that at least some of the time the patent refers	[10] where the device elsewhere shows up which is
11] to "transmit" in the sense of send to a remote	[11] archived for later viewing and transmitted by an
location, correct, for example, in the abstract?	[12] independent transmitter, this wouldn't work with
A: Those words appear in the abstract,	[13] that VCR instantiation.
[14] "remote location using a second VCR-ET."	[14] This wouldn't work with Figure 3
Q: And you'll agree that the patent at	[15] because this description in column 9 discusses
[16] least some of the time uses the word "transfer" or	[16] essentially making a digital hard copy. And I
"download" to talk about moving something onto	[17] think we would agree that the VCR, the
[18] media 23 which is a local drive, correct?	[18] conventional, commercial VCR in the alternate
[19] MR. PAYNE: Objection to form.	[19] embodiment, which is in Figure 3, is not going to
[20] A: The only section I would say that	[20] record, create for us a digital, a hard copy of
<sup>[21]</sup> that definitively occurs is exactly in this	[21] the program in digital format, reading from column
[22] paragraph you point out.	[22] 10.
[23] I didn't — if I may borrow an [24] answer from Mr. Halpern, I didn't go through the	[23] <b>Q</b> : Have a look at your expert report on
[25] patents with the idea in mind of tabulating	[24] page 49.
	[25] In the last paragraph, you discuss
Page 22	C C
[1] Hemami	[1] Hemami
[2] "download," "transfer," "transmit" and trying to	[2] the prosecution history in the Izeki patent,
<sup>[3]</sup> draw some conclusions about whether those words	[3] correct?
[4] were used in a rigid manner or in a more perhaps	[4] <b>A</b> : Yes.
5 colloquial manner.	[5] MR. BROWN: Let's mark the
[6] <b>Q</b> : Fair enough. You'd agree, though,	[6] Izeki patent. Did we mark that
[7] that in the context of Figure 3, the conventional	[7] yesterday, Les?
[8] VCR I believe is labeled 11 at the top of the	[8] MR. PAYNE: It's part of
9 picture, is not remote from the VCR-ET that is	(9) Halpern's report.
[10] within the box labeled 60, correct?	[10] MR. BROWN: I think it's
[11] A: Well, this gets back to the, what	[11] better to have, I think it's better to
[12] "remote" refers to. "Remote" is a, as I think I	[12] have a separate exhibit. I just don't
[13] pointed out in my report, a term of	[13] want to mark the same thing twice. So
[14] nondefiniteness. And perhaps I can, perhaps I can	[14] let's mark the Izeki patent as
[15] locate that or you can oblige me by telling me	[15] Exhibit 88.
[16] where I made that statement.	[16] (Document bearing Bates Nos.
[17] <b>Q:</b> Well, I assume you made it in the	[17] APBU00001613 through 1628 was marked
	[18] as Deposition Exhibit No. 88 for
[18] context of your discussion of the word	[19] identification, as of this date.)
<ul><li>[18] context of your discussion of the word</li><li>[19] "transmitting."</li></ul>	
<ul> <li>[18] context of your discussion of the word</li> <li>[19] "transmitting."</li> <li>[20] A: I think you are correct, yes. I'll</li> </ul>	[20] <b>Q</b> : Do you recognize Exhibit 88?
<ul> <li>[18] context of your discussion of the word</li> <li>[19] "transmitting."</li> <li>[20] A: I think you are correct, yes. I'll</li> <li>[21] try page 48.</li> </ul>	<ul> <li>[20] <b>Q</b>: Do you recognize Exhibit 88?</li> <li>[21] <b>A</b>: I do.</li> </ul>
<ul> <li>[18] context of your discussion of the word</li> <li>[19] "transmitting."</li> <li>[20] A: I think you are correct, yes. I'll</li> <li>[21] try page 48.</li> <li>[22] Q: Maybe page 49.</li> </ul>	<ul> <li>[20] Q: Do you recognize Exhibit 88?</li> <li>[21] A: I do.</li> <li>[22] Q: Is Exhibit 88 the Izeki patent that</li> </ul>
<ul> <li>[18] context of your discussion of the word</li> <li>[19] "transmitting."</li> <li>[20] A: I think you are correct, yes. I'll</li> <li>[21] try page 48.</li> <li>[22] Q: Maybe page 49.</li> <li>[23] A: Yes. Sorry. I was giving the</li> </ul>	<ul> <li>[20] Q: Do you recognize Exhibit 88?</li> <li>[21] A: I do.</li> <li>[22] Q: Is Exhibit 88 the Izeki patent that</li> <li>[23] you referred to in page, the last paragraph of</li> </ul>
<ul> <li>[18] context of your discussion of the word</li> <li>[19] "transmitting."</li> <li>[20] A: I think you are correct, yes. I'll</li> <li>[21] try page 48.</li> <li>[22] Q: Maybe page 49.</li> </ul>	<ul> <li>[20] Q: Do you recognize Exhibit 88?</li> <li>[21] A: I do.</li> <li>[22] Q: Is Exhibit 88 the Izeki patent that</li> </ul>

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	Page 228 Page 230
Bernami	[1] Hemami
<b>Q</b> : And you recall that the applicant	[2] file history and maybe I can help you find the
y distinguished the Izeki reference during the	[3] right tab.
prosecution of the Burst patents, correct?	[4] A: I believe this —
$\mathbf{A:} \mathbf{Yes.}$	[5] MR. PAYNE: We marked this
<b>Q:</b> And one of the things that the	[6] from yesterday if you plan to use it.
n applicant or that Burst said about Izeki is that	[7] MR. BROWN: I prefer using the
J Izeki does not disclose transmission, correct?	[8] file history as a whole since I'm
a <b>A</b> : Yes.	[9] thinking that's where we're going to
<b>Q</b> : Now, it appears that in the final	[10] wind up. I think it might just be
paragraph of 49, you're drawing a distinction	[11] easier that way.
2] between external devices and internal devices. Is	[12] <b>Q</b> : It's tab 19 and I think you were
e that correct?	[13] referring to page 15 within tab 19. Maybe I'm
4] (Pause)	[14] wrong.
5] <b>A:</b> I think that's a fair statement.	[15] A: This doesn't seem to have it.
<b>Q:</b> So if your definition of	[16] Actually, it's not 15 but we're getting close.
" "transmitting" is as shown in the Burst's proposed	[17] <b>Q</b> : Here we go. Let's try tab 37. So
g construction column, correct, on page 48 of your	[18] is that page 15 of tab 37, APBU652, is that the
ej report?	[19] page you're referring to in your report?
A: Sorry. The question was what?	[20] <b>A</b> : Yes.
<b>Q:</b> Your proposed, or your, the	[21] <b>Q:</b> Okay. And it's your view that in
2] definition that you believe is correct for the	[22] that sentence, Burst distinguished the Izeki
word "transmitting" is what is set forth in the	[23] reference on the ground that the master tape in
4] column that's entitled "Burst's Proposed	[24] the Izeki reference is an internal device as
5] Construction" on page 48, right?	[25] opposed to an external device? Is that right?
	Page 229 Page 23
Hemami	(1) Hemami
<sup>2</sup> ] <b>A:</b> Yes.	[2] A: Well, the Izeki invention is a unit
<b>Q:</b> And that definition is "sending to	[3] that has the premastering, I guess they call it
4) an external device that is capable of playback and	[4] the premastering unit. It's integrated within the
5] is selected by a user"?	[5] system. It's an integral part of the system.
MR. PAYNE: Objection. Form.	[6] It's not a separate entity.
7 A: Yes. That, you've read the second	<ul> <li>In the figures and in the</li> </ul>
<sup>8</sup> ) chunk there.	<sup>[B]</sup> description, this is a, their editing apparatus is
9 <b>Q</b> : Okay. Why is it that the device	[9] a single entity. This is a piece of that
•	[10] identity.
of that the transmission is directed to has to be an	[10] identity. [11] <b>Q:</b> Is the Izeki reference and the
of that the transmission is directed to has to be an 1) external device in your view?	
<ul> <li>1) that the transmission is directed to has to be an</li> <li>1) external device in your view?</li> <li>2) A: Well, this was delineated in the</li> </ul>	[11] <b>Q</b> : Is the Izeki reference and the [12] applicant's distinguishing of the Izeki reference
<ul> <li>o) that the transmission is directed to has to be an</li> <li>i) external device in your view?</li> <li>2) A: Well, this was delineated in the</li> <li>3) Izeki, I'm sorry, in the file history that</li> </ul>	<ul> <li>[11] Q: Is the Izeki reference and the</li> <li>[12] applicant's distinguishing of the Izeki reference</li> <li>[13] the reason you included the phrase "external</li> </ul>
<ul> <li>o) that the transmission is directed to has to be an</li> <li>i) external device in your view?</li> <li>2) A: Well, this was delineated in the</li> <li>3) Izeki, I'm sorry, in the file history that</li> <li>4) discusses the differences between the Burst</li> </ul>	<ul> <li>[11] Q: Is the Izeki reference and the</li> <li>[12] applicant's distinguishing of the Izeki reference</li> <li>[13] the reason you included the phrase "external</li> <li>[14] device" in your definition?</li> </ul>
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	Pag	je 232	Page 234
[1]	Hemami		[1] Hemami
[2] 3	about Izeki and the file history, you concluded		[2] transmit and where transfer occurs, one might
[3] 1	that transmitting in the Burst patents was limited		3 decide to change that word.
[4]	to sending to external devices. Is that correct?		[4] So here I wanted to be clear that in
[5]	A: External —		[5] spite of the fact that "transmit" is used in some
[6]	Q: Go ahead.		6 location in the specification to refer to what we
[7]	A: Shall I talk?		[7] might more actually call a "transfer," that indeed
[8]	MR. PAYNE: Objection to form.		<sup>[8]</sup> internal transfers, even though they might be
[9]	I just, I want to be — there's a		[9] called "transmit" in one or two paragraphs, are
	couple of different definitions on		<sup>[10]</sup> not transmitting to a selected destination or
1]	page 48. You keep on saying		[11] transmitting away or transmission away in the
12]	"transmitting" and I just want to make		[12] context of this three, these three items.
13]	sure we're talking about the same		[13] <b>Q</b> : Okay. You said several things
14]	constructions. That's my concern,		[14] there. I want to make sure I understand.
15]	Nick.		[15] First, I think you said that there
16]	MR. BROWN: There's I think		[16] was one and maybe more than one location in the
17]	three constructions here and each of	:	patent where the word "transmit" might have been
[18]	them say "sending to an external		[18] used to describe something that would be more
19]	device capable of playback," correct?		[19] accurately called a "transfer." Is that right?
[20]	MR. PAYNE: No. The top one		[20] A: Yes.
21]	doesn't and you keep on referring to		[21] <b>Q</b> : And in those one or two locations,
22]	the top one in your questions.		[22] you're referring to the transfer of information
[23]	MR. BROWN: Oh.		[23] within a device, right?
[24]	MR. PAYNE: I'm not trying to		[24] A: Within a VCR-ET.
[25]	be — I just want to make sure the		[25] <b>Q</b> : Okay. So a more appropriate use of
	Pa	ge 233	Page 23
F41		3	Faye 20
[1]	Hemami	3	[1] Hemami
	Hemami record's clear. That's all.	3	Uememi
		<b>3</b>	[1] Hemami
[2] [3]	record's clear. That's all.	<b>3</b>	[1] Hemami [2] the word "transmit" is to refer to sending
[2] [3] [4]	record's clear. That's all. MR. BROWN: I don't intend to	3	<ul> <li>[1] Hemami</li> <li>[2] the word "transmit" is to refer to sending</li> <li>[3] something to an external device. Is that right?</li> </ul>
[2] [3] [4]	record's clear. That's all. MR. BROWN: I don't intend to be referring to the top one. Let's	3	<ul> <li>[1] Hemami</li> <li>[2] the word "transmit" is to refer to sending</li> <li>[3] something to an external device. Is that right?</li> <li>[4] A: Yes.</li> </ul>
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<ul> <li>[2]</li> <li>[3]</li> <li>[4]</li> <li>[5]</li> <li>[6]</li> <li>[7]</li> <li>[8]</li> <li>[10]</li> <li>[11]</li> <li>[12]</li> <li>[13]</li> <li>[14]</li> <li>[15]</li> <li>[16]</li> <li>[17]</li> <li>[18]</li> <li>[19]</li> <li>[20]</li> <li>[21]</li> <li>[22]</li> <li>[23]</li> </ul>	record's clear. That's all. MR. BROWN: I don't intend to be referring to the top one. Let's just clarify that with Dr. Hemami. Q: So, Dr. Hemami, you've proffered three definitions for phrases that include the word "transmitting," right? A: Yes. Three definitions for phrases. Q: And for "transmitting," Burst's proposed construction is "no construction required. Alternatively, sending." Do you see that? A: Yes. Q: Okay. So when I'm talking to you about transmitting, I'm talking to you about the, the other definitions that you've offered here and I'm going to try and understand why you included the phrase "external device capable of playback." All right. Let's start with just external device. A: Well, now, I mentioned that there		<ul> <li>Hemami</li> <li>Hemami</li> <li>the word "transmit" is to refer to sending</li> <li>something to an external device. Is that right?</li> <li>A: Yes.</li> <li>G: And that's your sense of how the</li> <li>word "transmit" is used by a person of ordinary</li> <li>skill in the art in 1988, right?</li> <li>A: Were they to read the Burst patents,</li> <li>I believe they would understand "transmission" in</li> <li>the context of two units which are separate,</li> <li>information.</li> <li>G: Okay. You also have this phrase</li> <li>"capable of playback" in there. Do you see that?</li> <li>A: Yes.</li> <li>G: Why is it that you think these</li> <li>playback" require or have the limitation of</li> <li>playback" require or have the limitation of</li> <li>prequiring that the device that receives the</li> <li>transmission be capable of playback?</li> <li>A: The descriptions in the</li> <li>specification involve, when something is</li> </ul>

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I] Hemami	[1] Hemami
destination unit, not the satellite in the middle,	[2] feature. I think in the description of a
n right? The satellite just takes bits in and spits	[3] traditional VCR and the enhanced features of this,
bits out but the destination is something that can	[4] the fact that it's capable of playing the material
do something with the, with the material. You	[5] is, it may be implicit. We may not, you know, we
know, the VCR-ET was not proposed as an archiving	[6] just expect a VCR to be able to play.
1 mechanism. We don't —	[7] <b>Q</b> : Okay. Well, let's talk about the
<b>Q</b> : Did you — or let me just put it	[8] word "transmit" as it would be used by a person of
this way.	9 ordinary skill in the art in 1988, separate from
Is there anything in the file	[10] the patent for a moment, okay?
history that lead you to the phrase, "capable of	[11] You agree that you can transmit
playback" or was that based solely on your	[12] information to a satellite, right?
interpretation of the specification?	[13] <b>A</b> : Yes.
A: Let me see what I wrote in my	<b>Q:</b> And that would be a common sense in
5 report.	[15] which a person of ordinary skill in the art would
(Pause)	[16] use the word "transmit" in 1988. Is that right?
A: So I think on page 49 of my report,	[17] A: I think we would say "transmit over
I do refer to something in the '995, at the very	[18] a satellite" as opposed to "transmit to."
top, four lines from the top, something in the	<sup>[19]</sup> "Transmit to" makes it sound as if maybe we're
<sup>3</sup> 995 file history that suggests that, what I just	[20] configuring the satellite and actually uploading
a said but in the context of in the file history,	[21] configuration material, in which case we would
e destination devices are expected to be able to	[22] "transmit to."
play back the information.	[23] <b>Q</b> : But certainly the word
<b>Q:</b> Okay. Let's look at that. That	[24] "transmission" is used in the context of sending
would be tab 7 of the '995 history. I think	[25] information to a satellite, right?
Page 237 Hemami	ll
you're referring to pages 18 to 20?	
A 37	[2] <b>A</b> : That would be inaccurate now, [3] "transmission."
<ul> <li>G: Can you just point me to what, the</li> <li>portion that you thought supported the view —</li> </ul>	[4] <b>Q</b> : And it's used in the context of
A	[5] sending information over point-to-point microwave
	[6] links, terrestrial point-to-point microwave links?
be capable of playback?	7 A: Yes.
	[8] <b>Q</b> : And a satellite is not capable
	[9] ordinarily of playing back the information that it
<ul> <li>A: So the quote at the top of line 49</li> <li>of my report that begins at the end of the first</li> </ul>	[10] receives, right?
2] line, "Any of various types of destination devices	[11] <b>A:</b> To the best of our understanding,
y via any number of transmission mediums," occurs at	[12] yes. We don't know what the aliens are doing.
the bottom of page 18 of the APBU, lots of zeros,	[13] <b>Q:</b> And the same thing is true for
	[14] microwave transmitters, right?
5 89.	[15] A: Yes.
<b>Q:</b> But there's nothing about playback	[16] <b>Q</b> : So the word "transmission" itself to
in that sentence, is there?	[17] a person of ordinary skill in the art would not
A: There is nothing about playback in	<sup>[18]</sup> imply that the device that received the
	[19] transmission was capable of playback, correct?
9) the sentence but this unit is something that can	
oj play back the material. This is a feature of the	[20] A: If you presented one of ordinary
oj play back the material. This is a feature of the 1) unit that — what has been patented here is not an	[21] skill in the art with a black box and told them
<ul> <li>play back the material. This is a feature of the</li> <li>unit that — what has been patented here is not an</li> <li>audio/video relay system which would simply store</li> </ul>	[21] skill in the art with a black box and told them [22] that it was capable of transmission, I don't think
<ul> <li>play back the material. This is a feature of the</li> <li>unit that — what has been patented here is not an</li> <li>audio/video relay system which would simply store</li> <li>in forward without the capability to play back.</li> </ul>	<ul> <li>[21] skill in the art with a black box and told them</li> <li>[22] that it was capable of transmission, I don't think</li> <li>[23] they would leap to the conclusion that the black</li> </ul>
<ul> <li>play back the material. This is a feature of the</li> <li>unit that — what has been patented here is not an</li> <li>audio/video relay system which would simply store</li> </ul>	[21] skill in the art with a black box and told them [22] that it was capable of transmission, I don't think

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	Page 240			Page 242
[1]		[1]	Hemami	
[2] 1	function from transmitting, right?	-	rface to a storage device such as a magnetic	
[3]	A: I agree.	-	e," right?	
[4]	Q: I, while you were answering an		: Yes.	
	earlier question, looked through pages 18 and 19		: And then they say, "Neither	
	and I did not see the word "playback." And		rface 80 of Izeki et al. nor any other element	
	frankly, I don't see anything in pages 18 and 19		cribed in that reference has the capability of	
	which would suggest, just from within those two		Applicant's specifically claimed output means	
-	pages, that play back was associated by the	[9] to s	erially transmit a time compressed	
[10] ]	patentee with the act of transmission.	[10] <b>rep</b> :	resentation," and it goes on.	
[11]	I understand your argument that the	[11]	Do you see that?	
	specification describes transmitting to another	[12] 🗚	: Yes.	
[13]	VCR-ET and VCR-ET can provide playback.	[13] G	: Now, I'd like to turn you to tab 25.	
[14]	Is there something else that you're	[14]	: Is it important that this material	
	relying on in support of your insertion of the	[15] stay	7s —	
	phrase, "capable of playback" into the definitions	[16] <b>C</b>	: In order?	
[17]	on page 48 of your report?		Yes.	
[18]	A: The operation of the device involves	[18] <b>C</b>	: It is so let me give you a flag.	
[19]	transmission to other devices of a similar ilk.	[19] WO	uld that help?	
[20]	In the patent it is described as,		Yes.	
	"other VCR-ETs" and here we have various types of	-	<b>IR. PAYNE:</b> Has something	
[22]	destination devices.		unged? The order wasn't changed,	
[23]	Now, in light of reading the, what	[23] rigl		
	was at the time the application and the associated	-	THE WITNESS: No, he just	
[25]	claims, the devices involved in transmission are	[25] wa	nts me to flip and my concern is do	
	Page 24	1		Page 24:
[1]	Hemami	[1]	Hemami	
	these devices, devices that can offer the feature		ill need this open and if I do,	
[3]	of playback.	-	en do I take it out and things will	
[4]	<b>Q</b> : And when you're talking about the		out of order, so I'll just flag	
	devices, you're talking about the devices that are	[5] alo	ng the side of the page.	
[6]	described in the specification of the patent,			
		-	MR. BROWN: Do you want —	
[7]	correct?	[7]	MR. BROWN: Do you want MR. PAYNE: I'm fine. Which	
[7] [8]	A: Yes.	[7]   [8] tab	MR. BROWN: Do you want — MR. PAYNE: I'm fine. Which again, please?	
[8] [9]	<b>A:</b> Yes. <b>Q:</b> Let's turn to the '705 file history	[7]   [8] tab [9]	MR. BROWN: Do you want — MR. PAYNE: I'm fine. Which 9 again, please? MR. BROWN: So we were at tab	
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[1]	Hemami	[1]		
	ansmission in the sense that they		that Burst told the Patent Office on more than one	
[3] were using that		[3]	occasion that Izeki did not teach transmission in	
	vo occasions being —	[4]	the sense that they were using that word in the	
	nat we're looking at in	[5	claims, correct?	
[6] tab —		[6	MR. PAYNE: Objection. Form.	
A: This page	8.	[7	A: So we have delineation with respect	
8] <b>Q:</b> Page 8, AP	BU620.	[8]	to transmission means, we have a general statement	
a: Yes.		[9	regarding Izeki teaches compression without	
<b>Q:</b> And the or	ne that we were looking at	[10	transmission and then we have a statement relative	
1] earlier, give me	a moment, which is at page	[11	to output means, I believe. Is that true?	
2] APBU552.		[12		
3] <b>A</b> : Okay.And	the only question I have	1-	referring to is page APBU652.	
-	that I referred to — where did we	[14		
5] decide that was		[15		
•	find that one, too, and	1-	transmission — I guess — it doesn't use the word	
	t one is, I think, tab 37 at	-	<sup>1</sup> "both." It says, "It is not analogous to the	
18] page 15.			transmission means or transmission step of the	
9 (Pause)		-	claimed invention."	
	one just hand me some	[20	·	
ij stickies?	,	[21		
-	go. So let me know when	-	e edited files to a master tape is not analogous to	
•	d I'll ask you the question again.		transmission, either transmission means or	
	on. That's a yes, I'll		transmission step, correct?	
5] let you know.		[2:	•	
	Hemami	Page 245		Page 247
11				
	nemann		Hemami	
[2] <b>Q:</b> Okay.		[2	<b>Q:</b> And at least on APBU620, they state	
2] <b>Q:</b> Okay. 3] <b>MR. PAYNE:</b> I	Let's try to keep	[] []	<b>Q:</b> And at least on APBU620, they state without reservation, that Izeki does not teach	
<ul> <li>[2] Q: Okay.</li> <li>[3] MR. PAYNE: I</li> <li>[4] those in order.</li> </ul>	Let's try to keep	[2 [2 [4	<b>Q:</b> And at least on APBU620, they state without reservation, that Izeki does not teach transmission, correct?	
<ul> <li>[2] <b>Q:</b> Okay.</li> <li>[3] <b>MR.</b> PAYNE: I</li> <li>[4] those in order.</li> <li>[5] THE WITNES</li> </ul>	Let's try to keep S: I know.Well,	6 6 9 9	<ul> <li>Q: And at least on APBU620, they state</li> <li>without reservation, that Izeki does not teach</li> <li>transmission, correct?</li> <li>A: Yes.</li> </ul>	
<ul> <li>[2] <b>Q:</b> Okay.</li> <li>[3] <b>MR.</b> PAYNE: I</li> <li>[4] those in order.</li> <li>[5] <b>THE WITNES</b></li> <li>[6] they have the, t</li> </ul>	Let's try to keep S: I know.Well, the Bates numbers on	6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	<ul> <li>Q: And at least on APBU620, they state</li> <li>without reservation, that Izeki does not teach</li> <li>transmission, correct?</li> <li>A: Yes.</li> <li>G: And on page 552, they state that,</li> </ul>	
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	Page 248	Page 250
[1]	Hemami	[1] Hemami
[2]	<b>Q</b> : Thank you. I'd like you to turn to	[2] sense of full motion video?
[3]	column 2 of the Izeki reference.	[3] A: At the time that this patent was
[4]	A: Okay.	[4] written, the term "video" was used in what is best
[5]	<b>Q</b> : In column 2, it describes or it	[5] described as "a sloppy manner."
[6]	refers to — well, there's a paragraph that starts	[6] If a television camera was the
[7]	at line 47 in column 2. Do you see that?	[7] mechanism that was used to pick up a still image
[8]	A: A conversion unit?	[8] and get it into a format which could be digitized,
[9]	Q: Right.	9 okay, so think about when we take a picture with a
[10]	A: Yes.	[10] camera we have to go scan it, a television camera
[11]	<b>Q</b> : And it states that, "That conversion	[11] provides outputs.
[12]	unit 46 compresses the inputted video and/or audio	[12] So from the standpoint of not having
[13]	data to the prescribed data format." Do you see	[13] to develop film and then process the film, at
[14]	that?	[14] this, in this time period, people used, it was
[15]	A: Yes.	[15] common to use television cameras and then, to
[16]	<b>Q</b> : And it then states, "One example of	[16] acquire a still image. That television output
[17]	such a conversion unit is described in scene	[17] signal would be digitized and that would produce a
[18]	adaptive coder." Do you see that?	[18] digital still image, albeit a low resolution image
[19]	A: Yes.	[19] relative to what one would get from scanning.
[20]	<b>Q</b> : That's the paper that we were	[20] So having said that, any time I read
[21]	looking at earlier today?	[21] a paper or a patent of a certain age and the word
[22]	A: Yes.	[22] "video" is used, one of the first things that I do
[23]	<b>Q</b> : And that paper describes an	[23] is a reality check on do they mean video as in a
[24]	intra-frame image compression technique, correct?	[24] sequence of frames at at least 24 frames per
	· · · · · · · ·	
[25]	A: A still image compression technique,	[25] second conveying full motion which, I think, today
[25]	A: A still image compression technique, Page 249	
[25]		
[1]	Page 249	Page 251
[1]	Page 249 Hemami	Page 25 <sup>.</sup> [1] <b>Hemami</b>
[1] [2] [3]	Page 249 Hemami yes.	Page 25 <sup>-</sup> [1] <i>Hemami</i> [2] is the colloquial understanding of video, as well
[1] [2] [3] [4]	Page 249 <i>Hemami</i> yes. <b>Q</b> : And that paper also describes applying that still image compression technique to NTSC video?	Page 25 <sup>-</sup> [1] <i>Hemami</i> [2] is the colloquial understanding of video, as well [3] as certainly the technical meaning of video and
[1] [2] [3] [4] [5] [6]	Page 249 <i>Hemami</i> yes. <b>Q</b> : And that paper also describes applying that still image compression technique to NTSC video? <b>A</b> : The paper gives the resulting data	Page 25 <sup>-</sup> [1] <i>Hemami</i> [2] is the colloquial understanding of video, as well [3] as certainly the technical meaning of video and [4] our understanding of video in this litigation or
[1] [2] [3] [4] [5] [6]	Page 249 <i>Hemami</i> yes. <b>Q</b> : And that paper also describes applying that still image compression technique to NTSC video?	Page 251 [1] Hemami [2] is the colloquial understanding of video, as well [3] as certainly the technical meaning of video and [4] our understanding of video in this litigation or [5] were they using video in a sloppy manner to refer
[1] [2] [3] [4] [5] [6] [7]	Page 249 Hemami yes. Q: And that paper also describes applying that still image compression technique to NTSC video? A: The paper gives the resulting data rate that would ensue at .4 bits per pixel for digitized NTSC video.	Page 251 [1] Hemami [2] is the colloquial understanding of video, as well [3] as certainly the technical meaning of video and [4] our understanding of video in this litigation or [5] were they using video in a sloppy manner to refer [6] to really what was a still image. [7] You know, and similarly, of course, [8] that still image could be displayed on a
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1] Hemami	[1] Hemami
g camera provides a moving video signal, correct?	[2] And an important qualifier, in real
A: Only if the subject matter is moving	[3] time, so clearly compression could have been done
and you are watching the output of the camera as	[4] if you had infinite time. My question is
5] video plugged into a TV set or you record it on	[5] A: So as described in column 4. So —
by your Handycam and then go stick the tape into some	[6] <b>Q:</b> So there's a data rate given there
n appropriate device.	[7] of 1.89 megabits per frame at column 4 at line 51,
<b>Q</b> : But if you had a television camera	[8] right?
n hooked up to, say, a television and your subject	[9] A: Okay.
y was moving, the television camera would be	[10] <b>Q:</b> And that's, I believe we did not
providing a moving video signal, right?	[11] check that math —
A: If the TV camera was operating	[12] A: Yes, we were going to.
e properly and was hooked up to a camera, right —	[13] <b>Q</b> : But that's, we assumed that that was
when I wave at the camera, he probably sees me on	[14] correct and that's at least what the patent says
s] some display. Maybe you don't. Yes, he does.	[15] is the, if you multiply that by 30 that gives you
oj Okay.	[16] between 50 and 60 megabits per second data rate
<b>Q</b> : So a television camera is a camera	[17] for the raw video as it is captured. Is that
e) that's capable of generating a moving signal,	[18] COrrect?
p] correct?	[19] <b>A:</b> Yes.
A: It is capable of generating a video	[20] <b>Q:</b> Okay. Were the micro processors of
1] signal which represents full motion video, how's	[21] the 1988 capable of compressing that much data in
el that, which can represent full-motion video.	[22] real time?
MR. BROWN: We should probably	[23] <b>A:</b> No.
4) change the tape.	[24] <b>Q</b> : If one is going to make or use —
THE VIDEOGRAPHER: The time is	[25] let's take a step back.
Page 2	53 Page 25
Hemami	[1] Hemami
now 3:59. This marks the ending of	[2] Are you familiar with the term "a
tape number four. Off the record.	[3] live transmission" or "a live broadcast"?
(Recess taken)	[4] A: Certainly I've heard that term used.
THE VIDEOGRAPHER: The time is	[5] <b>Q</b> : Okay. And you understand "live" to
ej now 4:09 p.m. This marks the	[6] refer to transmitting something at the same time
7 beginning of tape number five. On the	[7] as it's occurring. Is that right?
record.	[8] A: I think it's a little more general
BY MR. BROWN:	[9] than that. Certainly "Seinfeld" is not being
o] <b>Q</b> : Have you reviewed the — well, let	[10] acted at the time that the UPN Network is
1] me step back.	[11] broadcasting it but —
2) Do you recall yesterday that	[12] <b>Q:</b> But, but I don't think "Seinfeld" is
3] Mr. Halpern testified that a microprocessor in the	[13] a live show, do you? It's not broadcast live?
<sup>4]</sup> 1988 time frame that, such as the ones described	[14] A: So what I'm trying to understand is
5] in the Burst patents could not have compressed the	[15] what is your definition of "live" then because I
6] video that's described in the '995 patent?	[16] have several understandings of what "live" can
7] Do you remember that generally?	[17] mean in the context of transmission.
MR. PAYNE: Objection to form.	[18] <b>Q</b> : Why don't you tell me what you think
9 <b>Q</b> : In fact, that, we can just use that	[19] "live" means in the context of transmitting a
20] to set the stage.	[20] video signal?
The question I have for you is have	[21] A: Well, I believe "live" has two
22] you done any analysis to determine whether a	[22] meanings. One of them is the action is occurring
	[23] immediately. All we have is the propagation delay
<sup>23]</sup> microprocessor in the 1988 time period could have	[23] minetiately. Mi we have is the propagation demy
<sup>23]</sup> microprocessor in the 1988 time period could have <sup>24]</sup> compressed video that, as it's described in column	[24] so sports, for example, we hope, are an example of

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	Page 256		Page 2
[1]	Hemami	[1]	Hemami
[2]	The second, I think, is sometimes		describe. They describe bursting or sending —
-	used in the context of simply broadcasting as		how can I put this? So let me contrast it with,
	opposed to — so we're watching live TV as opposed	[4]	rather than saying "all at once."
	to TV off of a TiVo or a VCR where that TV could	[5]	Let's not talk about a single
6] [	simply be HBO or sports.	• •	transmission. Let's instead talk about
7]	Q: Okay. So in that second sentence,	[7]	transmission duration where transmission duration
	it's just any television that hasn't been	[8]	is defined as the very second the first bit goes
	previously recorded on a TiVo or a VCR, is that	[9]	out.
0] [	right?	[10]	It may be part of a packet or
1]	A: So essentially it's being viewed at	[11]	something else but at some point, we start a stop
	the same instant minus the propagation delay that	[12]	watch, okay, the first bit goes out. And at some
	the broadcaster is putting it either over the air	[13]	later point, the last bit is received, okay? And
4]	or over the cable.	[14]	maybe we should time, let's time it from the
15]	<b>Q</b> : Okay. Let's go to the '995 patent	[15]	reception. So we receive a first bit and then we
-	at column 10, at lines 6 and 7. There's a	[16]	receive the last bit and we stop the stop watch.
	sentence which reads, "In the case of video camera	[17]	My understanding of these patents is
18]	input at input 15 the transmitted signals may	[18]	that provided that the time on the stop watch is
19]	comprise a live transmission."	[19]	shorter than what we call "the duration" or "the
20]	Do you see that?	[20]	length" of the program, then a burst transmission
21]	A: Yes.	[21]	has been accomplished. So let me back off on this
22]	<b>Q</b> : In that context, do you understand	[22]	all at once. I think that's all unclear.
	"live" to be referring to transmitting at the same	[23]	The burst transmission is defined,
-	—	l	
-	time as the actions that are being recorded are	[24]	not in terms of, I think, my erroneous first
24]	—	[24]	not in terms of, I think, my erroneous first characterization, but it's defined in terms of a
24]	time as the actions that are being recorded are	[24]	-
24]	time as the actions that are being recorded are occurring? Page 257 <i>Hemami</i>	[24] [25] [1]	characterization, but it's defined in terms of a Page : Hemami
24] 25] [1] [2]	time as the actions that are being recorded are occurring? Page 257 <i>Hemami</i> A: So here, no.And I have always	[24] [25] [1] [2]	characterization, but it's defined in terms of a       Page 2         Page 2       Hemami         shorter time period or in the case of the '705, a
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[1] Hemami	[1] Hemami
[2] <b>Q</b> : And that's what you were referring	[2] that I start storing and, of course, also we do
<sup>[3]</sup> to earlier as the entire file that you wind up	[3] not do an instant — when we store to memory,
[4] transmitting. Is that right?	[4] there's a bus of a certain width, right? We
[5] A: The file that is — yes. When I	[5] cannot write all hundreds of megabits or however
[6] discussed whatever was transmitted, I was	[6] many we have instantaneously, right? We have to
[7] referring to the stored time compressed	77 put them over the bus. The bus has a speed. The
[8] representation.	[8] bus has a width.
9 Q: So what's transmitted is a	<sup>[9]</sup> We can figure out that there's going
10] representation of the original audio/video source	[10] to be some amount of time to write the material to
information, correct?	[11] memory. So while we are writing to memory, we
12] <b>A:</b> Yes.	[12] just, you know, we need to make sure that we're
13] <b>Q:</b> Okay. And what's stored is also a	[13] not going to, in the amount of time it takes for
14] representation of the original audio/video source	[14] us to clock things out, hit something that we
(15) information, right?	[15] haven't yet written.
16 A: Yes.	
<b>Q:</b> And the claim requires that what is	[16] <b>Q</b> : So in other words, you want to have [17] finished storing the file before you transmit the
18] transmitted be the same information, in fact, the	[18] last bit of the file, right?
<ul><li>19] same representation that was stored, correct?</li></ul>	[19] A: No, that's not what I said. Perhaps
[20] <b>A:</b> Yes.	[20] you can rephrase so I'm sure I understand what you
[21] <b>Q:</b> In your view, can the storing step	[21] just said.
[22] and the transmitting step of the '839 patent be	
[23] happening at the same time or in overlapping time	[22] <b>Q</b> : Imagine you have a file that has — [23] I'm going to make this very simple — three
[24] periods?	
[25] <b>A:</b> The short answer to that question is	[24] pieces, three bits. [25] You store the first bit and it takes
	=   <u></u>
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Page 261	
[1] Hemami	[1] Hemami
[1]   Hemami     [2] "yes."	[1]Hemami[2] you 10 seconds to do that and then you store the
[1]       Hemami         [2] "yes."       [3]         [3]       Q: Okay. Do you believe that the	[1]Hemami[2] you 10 seconds to do that and then you store the[3] second bit and it takes you 10 seconds to do it
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	Page 264		Page 26
[1]	Hemami	[1]	Hemami
[2] t	o memory.		transmit a bit, then you have to have written —
[3]	Q: Right.		you're going to be able to transmit all 3 bits in
[4]	A: Okay? Now. As soon as — so I'm	[4]	15 seconds, right?
	going to speak out loud and then I'm going to	[5]	A: That's right.
[6] (	correct —	[6]	<b>Q</b> : It's going to take you 20 seconds to
[7]	Q: That's fine.	M	write the last 2 bits, right?
[8]	A: — whatever.	[8]	A: That's right.
	Let's just, let's imagine the	[9]	<b>Q</b> : So if you write — start
-	scenario where we have written the first bit to	[10]	transmitting after you've only written 1 bit, you
11] 1	memory so now we're 10 seconds in.	[11]	will have get to the end before you finish?
12]	<b>Q:</b> Right.	[12]	A: You will transmit garbage, yes.
13]	A: I immediately start transmitting	[13]	Q: You will transmit garbage.And
14] 1	that bit, okay? And we can see this is going to	[14]	would that transmission of garbage fall within the
15]	work in this scenario because in 15 seconds, the	[15]	scope of the claims as you understand them?
16] 1	transmission is ready for the next bit.	[16]	<b>A:</b> No.
17]	No, actually, we're fine because	[17]	<b>Q</b> : Okay. So as you understand it, you
18] (	after that 15 seconds, the 10 seconds it took to	[18]	do have to have completed storing the bits that
19]	write the second bit has put the second bit in	[19]	form the time compressed representation before you
20]	memory. So we're just fine.	[20]	finish the transmission of those bits, right?
21]	Q: Well, you changed my hypothetical	[21]	A: Oh, clearly, you have to store it
22]	slightly.	[22]	before you transmit it. Is that —
[23]	A: Oh, no, I misunderstood you.	[23]	<b>Q</b> : That's what I'm asking you.
[24]	<b>Q:</b> That's okay. I said that you needed	[24]	A: The bits that are accessed
25]	15 seconds to transmit all 3 bits so 5 seconds per	[25]	instantaneously by the transmission unit must be,
	Page 265		Page 2
[1]	Page 265 <b>Hemami</b>	[1]	Page 2 <b>Hemami</b>
			-
	Hemami	[2]	Hemami
[2] [3]	Hemami bit.	[2] [3]	Hemami in order for live to be good, valid bits. So when
[2] [3]	<i>Hemami</i> bit. A: So you want it at 5 seconds per bit.	[2] [3]	Hemami in order for live to be good, valid bits. So when we say — see I think when you say "completed
[2] [3] [4] [5]	<i>Hemami</i> bit. <b>A</b> : So you want it at 5 seconds per bit. Okay. Okay. I'm sorry. I misunderstood.	[2] [3] [4] [5]	Hemami in order for live to be good, valid bits. So when we say — see I think when you say "completed storing," this is a bit of a vague term.
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-	e 268 Page 270
[1] Hemami	[1] Hemami
[2] transmission step of the claims cannot end prior	[2] <b>Q:</b> And then it goes on to say that,
19] to the time at which the storing step ends,	[3] "Sending time compressed representations to a
[4] correct?	[4] receiver can add a new variable consumption rate
[5] A: Yes, that is correct. We would like	5 to the equation," and points out that in that
[6] the storing pointer and the transmission pointer	[6] scenario, when you send a time compressed
7 to terminate at the same time and in appropriate	7 representation, when the clients pause or rewind
<sup>[8]</sup> order such that we appropriately latch the last	<sup>[8]</sup> videos, less information may need to be sent.
9 bit of information and the last bit that is	Image: Second se
10] transmitted is valid.	[10] <b>A</b> : Yes.
<b>Q:</b> Now, I believe you mentioned prior	[11] <b>Q:</b> The point that is being made there
2] art patents that talk about sending pieces of	[12] is that in a Haskell system where you send a small
audio/video data in an earlier answer.	[13] piece faster than real time but you only send the
14] Do you remember that generally?	[14] entire program in real time, if someone were to
15] <b>A:</b> Yes.	[15] hit "pause," you would have to keep or rewind, you
<ul><li><b>Q:</b> And, in fact, now, we're going to go</li></ul>	[16] would have to resend information that you'd
17) back to the file history and it's going to be the	[17] already sent, correct, and that would take more
18] second tab there, the second marker you have.	[17] aready sent, correct, and that would take more [18] data?
<ul> <li>A: The second yellow?</li> </ul>	
	[21] you agree with what I think it means, okay?
-	[22] Imagine the situation where you have
23) are we, Nick?	[23] a program broken into ten pieces, okay? And you
<sup>24]</sup> MR. BROWN: '705 file history,	[24] send each one of those ten pieces in an amount of
25] page 620 which is tab 22.	[25] time that is shorter than the time that it would
Pag	ge 269 Page 271
(1) Hemami	[1] Hemami
Hemami       [2]     Q: And if you look, there's a sentence	[1] Hemami [2] take to view that piece.
Hemami[2]Q: And if you look, there's a sentence[3]that describes Haskell and Hamilton. Do you see	<ul> <li>[1] Hemami</li> <li>[2] take to view that piece.</li> <li>[3] Are you with me so far?</li> </ul>
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