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17  
 18  
 19 UNITED STATES DISTRICT COURT  
 FOR THE NORTHERN DISTRICT OF CALIFORNIA (SAN FRANCISCO)  
 20

21	APPLE COMPUTER, INC.,	§	Case No. 3:06-CV-00019 MHP
22		§	
23	Plaintiff/Counterdefendant,	§	<b>DEFENDANT BURST.COM, INC.’S</b>
24		§	<b>OPENING BRIEF ON</b>
25	v.	§	<b>CLAIM CONSTRUCTION</b>
26	BURST.COM, INC.,	§	
27	Defendant/Counterclaimant.	§	
28		§	

**TABLE OF CONTENTS**

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28

**I. BACKGROUND ..... 1**

**II. CLAIM CONSTRUCTION PRINCIPLES ..... 3**

**III. PRIOR CONSTRUCTION OF THE BURST PATENTS ..... 5**

**IV. DISPUTED “MEANS” TERMS..... 7**

**A. 35 U.S.C. § 112, ¶ 6 & Related Law ..... 7**

**B. Terms ..... 12**

**1. “analog to digital converter means” ..... 12**

**2. “monitor means” ..... 15**

**3. “random access storage means” ..... 18**

**4. “storage means” ..... 22**

**5. “recording ... onto a removable recording medium” ..... 25**

**6. “input means” ..... 29**

**7. “output means” ..... 33**

**V. REMAINING DISPUTED TERMS ..... 35**

**A. Media Terms..... 35**

**1. “audio/visual source information” & “audio/video source information” ..... 35**

**2. “multiplicity” & “multiplicity of video frames in the form of one or more full  
        motion video programs” ..... 39**

**B. Compression Terms ..... 43**

**1. Data Compression Versus Time Compression..... 43**

**2. “compressing” terms ..... 45**

**3. “time compressed representation” ..... 48**

1           a.    **The intrinsic evidence supports Burst’s proposed construction..... 51**

2           b.    **Apple’s constructions are inconsistent with the specification and the claims... 55**

3                i.    *Apple’s negative limitation excluding data compression is wrong ..... 55*

4                ii. *the claims do not have a definite duration requirement..... 57*

5           4.    **“compression means” ..... 60**

6           5.    **“decompression means” and “selectively decompressing” ..... 67**

7           C.    **Storage Terms ..... 70**

8                1.    **“recording means” ..... 70**

9           D.    **Input & Output Terms ..... 72**

10               1.    **“transmitting,” “transmission away,” and “transmitting...to a selected**

11               **destination” ..... 72**

12               2.    **“transmission means” ..... 76**

13           E.    **Editing & Monitoring Terms..... 77**

14               1.    **“editing means” ..... 77**

15               2.    **“editing” ..... 81**

16               3.    **“selectively view ... during editing” ..... 85**

17               4.    **“visually displaying ... for selective viewing by a user during editing” ..... 86**

18               5.    **“monitoring ... during editing” ..... 87**

19           VI.   **CONCLUSION ..... 88**

20

21

22

23

24

25

26

27

28

**TABLE OF AUTHORITIES**

**Cases**

1

2

3

4 *A.B. Dick Co. v. Burroughs Corp.*, 713 F.2d 700 (Fed. Cir. 1983) ..... 6

5 *Allen Engineering Corp. v. Bartell Industries, Inc.*, 299 F.3d 1336 (Fed. Cir. 2002) .. 9, 30, 32, 34

6 *Amgen, Inc. v. Hoechst Marion Roussel, Inc.*, 314 F.3d 1313 (Fed. Cir. 2003)..... 28

7 *Anchor Wall Sys., Inc. v. Rockwood Retaining Walls, Inc.*, 340 F.3d 1298 (Fed. Cir. 2003).....4

8 *Asyst Techs., Inc. v. Empak, Inc.*, 268 F.3d 1364 (Fed. Cir. 2001)..... 11, 17, 72, 81

9 *Atmel Corp. v. Info. Storage Devices, Inc.*, 198 F.3d 1374 (Fed. Cir. 1999)..... 11, 62

10 *Bancorp Svcs, L.L.C. v. Hartford Life Ins. Co.*, 359 F.3d 1367 (Fed. Cir. 2004)..... 58

11 *Biotec Biologische Naturverpackungen GmbH & Co. KG v. Biocorp, Inc.*, 249 F.3d 1341 (Fed.

12 *Cir. 2001)*..... 24, 82

13 *Budde v. Harley-Davidson, Inc.*, 250 F.3d 1369 (Fed. Cir. 2001)..... 11, 67, 80

14 *Callicrate v. Wadsworth Mfg., Inc.*, 427 F.3d 1361 (Fed. Cir. 2005)..... 11

15 *Cardiac Pacemakers, Inc. v. St. Jude Medical, Inc.*, 381 F.3d 1371 (Fed. Cir. 2004) ..... 26

16 *CCS Fitness, Inc. v. Brunswick Corp.*, 288 F.3d 1359, 1369 ..... 10

17 *Cellnet Data Sys., Inc. v. Itron, Inc.*, 17 F.Supp.2d 1100 (N.D. Cal. 1998) ..... 30

18 *Cole v. Kimberly-Clark Corp.*, 102 F.3d 524 (Fed. Cir. 1996)..... *passim*

19 *Electro Med Sys., S.A. v. Cooper Life Scis., Inc.*, 34 F.3d 1048 (Fed. Cir. 1994) ..... 28

20 *Envirco Corp. v. Clestra Cleanroom, Inc.*, 209 F.3d 1360 (Fed. Cir. 2000) ..... 9

21 *Greenberg v. Ethicon Endo-Surgery, Inc.*, 91 F.3d 1580 (Fed. Cir. 1996) ..... 9, 10, 23

22 *Hydranautics v. FilmTec Corp.*, 204 F.3d 880 (9th Cir. 2000).....5

23 *In re McWhorter*, 887 F.2d 1564 (11th Cir.1989) ..... 7

24 *Intel v. VIA Tech.*, 319 F.3d 1357 (Fed. Cir. 2003) ..... 62

25

26

27

28

1 *Intellectual Prop. Dev., Inc. v. UA-Columbia Cablevision of Westchester, Inc.*, 336 F.3d 1308  
 2 (Fed. Cir. 2003)..... 10  
 3 *Inverness Medical v. Princeton Biomeditech Corp.*, 309 F.3d 1365 (Fed. Cir. 2002).....5  
 4 *JVW Enters., Inc. v. Interact Accessories, Inc.*, 424 F.3d 1324 (Fed. Cir. 2005)..... 11  
 5 *Lighting World, Inc. v. Birchwood Lighting, Inc.*, 382 F.3d 1354 (Fed. Cir. 2004)..... 8  
 6 *Linear Tech. Corp. v. Impala Linear Corp.*, 379 F.3d 131 (Fed. Cir. 2004)..... 11, 15, 20, 23  
 7 *Lockheed Martin Corp. v. Space Sys/Loral, Inc.*, 324 F.3d 1308 (Fed. Cir. 2003) ..... 10  
 8 *Masco Corp. v. United States*, 303 F.3d 1316 (Fed. Cir. 2002) ..... 25, 26  
 9 *Medtronic, Inc. v. Advanced Cardiovascular Sys., Inc.*, 248 F.3d 1303 (Fed. Cir. 2001)..... 11  
 10 *Micro Chem., Inc. v. Great Plains Chem. Co.*, 194 F.3d 1250 (Fed. Cir. 1999)..... 10  
 11 *NeoMagic Corp. v. Trident Microsystems, Inc.*, 287 F.3d 1062 (Fed. Cir. 2002) ..... 84  
 12 *Omega Engineering Inc. v. Raytek Corp.*, 334 F.3d 1314 (Fed. Cir. 2003).....5  
 13 *Personalized Media Communications., L.L.C. v. Int’l Trade Comm’n*, 161 F.3d 696 (Fed. Cir.  
 14 1998) ..... 10, 13, 20, 23  
 15 *Phillips v. AWH Corp.*, 415 F.3d 1303 (Fed. Cir. 2005) ..... *passim*  
 16 *Resolution Trust Corp. v. Keating*, 186 F.3d 1110 (9th Cir. 1999).....5  
 17 *RF Delaware, Inc. v. Pac. Keystone Techs., Inc.*, 326 F.3d 1255 (Fed. Cir. 2003).....6  
 18 *Rodime PLC v. Seagate Tech., Inc.*, 174 F.3d 1294 (Fed. Cir. 1999)..... 8  
 19 *Sage Prods. v. Devon Indus., Inc.*, 126 F.3d 1420 (Fed. Cir. 1997)..... 8  
 20 *Serrano v. Telular Corp.*, 111 F.3d 1578 (Fed. Cir. 1997)..... 11, 12, 63  
 21 *SRI Int’l v. Matsushita Elec. Corp. of Am.*, 775 F.2d 1107 (Fed. Cir. 1985) (en banc)..... 84  
 22 *Texas Digital Systems, Inc. v. Telegenix, Inc.*, 308 F.3d 1193 (Fed. Cir. 2002).....3, 6  
 23 *Vitronics Corp. v. Conceptronic, Inc.*, 90 F.3d 1576 (Fed. Cir. 1996)..... *passim*  
 24 *Warner Jenkinson Co., Inc. v. Hilton Davis Chem. Co.*, 520 U.S. 17 (1997).....7  
 25 *Watts v. XL Sys.*, 232 F.3d 877, 880 (Fed. Cir. 2000)..... 8  
 26  
 27  
 28

1 *WMS Gaming Inc. vs. International Game Tech.*, 184 F.3d 1339 (Fed. Cir. 1999) ..... 62

2 **Statutes**

3 35 U.S.C. § 112, ¶6..... *passim*

4 **Other Authorities**

5  
6 AM. HERITAGE DICTIONARY 822, 1201 (2d College ed. 1982) ..... 31, 47

7 IEEE STANDARD DICTIONARY OF ELECTRICAL AND ELECTRONIC TERMS 474, 655, 956 (4th ed.  
8 1988) ..... 16, 26, 35, 39

9 MCGRAW-HILL DICTIONARY OF SCIENTIFIC AND TECHNICAL TERMS (4th ed. 1989)..... 39

10 MODERN DICTIONARY OF ELECTRONICS (6th ed. 1984) ..... 16, 32, 35, 39

11 WEBSTER’S NEW COLLEGIATE DICTIONARY 737, 1340 (1981) ..... 42, 45, 94

12  
13  
14  
15  
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**LIST OF EXHIBITS**

1  
2  
3  
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1. U.S. Patent No. 4,963,995 (the “‘995 patent”);
2. U.S. Patent No. 5,057,932 (the “‘932 patent”);
3. U.S. Patent No. 5,164,839 (the “‘839 patent”);
4. U.S. Patent No. 5,995,705 (the “‘705 patent”);
5. Claim Construction Expert Report of Dr. Sheila S. Hemami;
6. Excerpts from Expert Report of Joel Halpern re: Claim Construction of U.S. Patent Nos. 4,963,995, 5,057,932, 5,164,839, and 5,995,705;
7. Excerpts from the deposition transcript of Sheila Hemami dated November 14, 2006;
8. Excerpts from the deposition transcript of Joel Halpern dated November 13, 2006;
9. *Amendment “A,” ‘995 Patent File History (March 12, 1990);*
10. *Amendment “A,” ‘932 Patent File History (May 7, 1990);*
11. *Amendment “B,” ‘932 Patent File History (January 4, 1991);*
12. *Preliminary Amendment, ‘705 Patent File History (August 7, 1997);*
13. *Amendment and Response, ‘705 Patent File History (June 1, 1998);*
14. *The American Heritage Dictionary (Second College Edition 1982);*
15. Exhibit Number Not Used;
16. *IEEE Standard Dictionary of Electrical and Electronics Terms (4<sup>th</sup> ed. 1988);*
17. *Modern Dictionary of Electronics (6th ed. 1984);*
18. *Webster’s New Collegiate Dictionary (1981);*
19. List of Agreed Terms;
20. Fibonacci Delta paper;
21. Excerpts from Microsoft’s Response Claim Construction Brief in the Burst/Microsoft case;

- 1 22. Excerpts from Burst’s Opening Claim Construction Brief in the Burst/Microsoft case;
- 2 23. March 12, 2004 letter from Judge Motz in the Burst/Microsoft case;
- 3 24. June 22, 2004 letter from Judge Motz in the Burst/Microsoft case;
- 4 25. CCITT Group IV Standard;
- 5 26. The specification sheet on the AMD Compression Processor.
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1 Defendant Burst.com, Inc. (“Burst”) submits this brief in support of its proposed  
2 constructions of the disputed claim terms in U.S. Patents Nos. 4,963,995 (the “995 Patent”),  
3 5,164,839 (the “839 Patent”), 5,057,932 (the “932 Patent”), and 5,995,705 (the “705 Patent”)  
4 (collectively, the “Burst patents”). The Burst patents are attached as Exhibits 1-4, respectively.<sup>1</sup>  
5

6 **I. BACKGROUND**

7 The Burst patents claim fundamental innovations for efficiently sharing, editing, and  
8 playing digital audio and video works by employing the technology of computers, compression,  
9 and high-speed transmission. Playing back digital audio and video works for listening and  
10 viewing requires time. Indeed, the need for and duration of playback time is an intrinsic  
11 characteristic of digital audio and video works that fundamentally distinguishes them from other  
12 sorts of digital information such as text files, still images, and spreadsheets. Burst’s inventions  
13 effectively decouple the time required to transmit and receive digital audio and video works from  
14 the time required to play them back. That innovation is at the heart of Burst’s patents.  
15  
16

17 At the time of the application for the first Burst patent in 1988, audio and video were  
18 transmitted primarily through broadcasting in “real time.” Radio and television stations  
19 continuously transmitted programming, and listeners or viewers could tune in to the  
20 programming as it was being received. The time required for transmission of a particular  
21 program or work was no different than the time required to view or listen to it. In the broadcast  
22 paradigm, the audio and video works were transmitted and received at a steady, real-time rate to  
23 ensure correct and realistic playback, and continuously occupied a fixed portion of the limited  
24 bandwidth of the transmission channel. In order to transmit more channels of audio or video in  
25  
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27 <sup>1</sup> All exhibits have been concurrently submitted as attachments to the “Declaration of Leslie V.  
28 Payne in Support of Defendant Burst.com, Inc.’s Opening Brief on Claim Construction.” To authenticate the Claim

1 real time over the limited available bandwidth, the telecommunications industry eventually  
2 began converting audio and video into digital bits of information and compressing them with  
3 specialized data compression techniques that preserved the temporal aspects of the audio/video  
4 source material. Yet even using these compression techniques, the time required for  
5 transmission was not different than the time required for “playback.”  
6

7         Against this background, the inventor of the Burst patents, Richard Lang, recognized that  
8 converging compression, transmission, and computer technologies could enable a new model for  
9 digital media delivery and a new kind of digital media device. Lang realized that compression of  
10 audio and video could be used not only to allow more channels to be broadcast in real time over  
11 a given amount of bandwidth, but also to reduce the transmission time of audio and video works.  
12 Lang saw that even though audio and video works have an associated playback time, the delivery  
13 of an audio or video work could be accomplished faster than the real-time period required for  
14 playback. Lang also recognized that the compressed audio or video work could be sent directly  
15 to consumers, and could be saved digitally in computer memory. Once saved, the audio or video  
16 could be played back, edited, or transmitted to another device.  
17  
18

19         Building on his invention, Lang set out to shift the existing broadcast paradigm of  
20 delivering audio and video at a rate matching the playback speed. Lang’s invention would  
21 eliminate the strict transmission time constraints found in the previous systems by transmitting  
22 audio and video faster than real time. Lang founded Burst’s earliest predecessor in 1988 to  
23 develop and commercialize his ideas, and he filed the application for what became the ‘995  
24 Patent in December 1988. In 1989 he secured an initial investment of \$2 million from the rock  
25 band U2. The band wanted to invest in technology that would benefit fans of its music, and it  
26  
27

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28 Construction Report of Burst’s expert, Burst also submits the “Declaration of Dr. Sheila S. Hemami in Support of  
Defendant Burst.com, Inc.’s  
Opening Brief on Claim Construction

1 recognized that Lang's inventions could revolutionize the music industry by providing audio  
2 (and video) works to consumers outside of traditional delivery mechanisms. In January of 1991,  
3 Lang exhibited a pair of prototypes of his invention at the Consumer Electronics Show. Today,  
4 the key elements of Lang's invention are replicated, among other places, in miniature digital  
5 media players that can weigh as little as half an ounce and cost less than one hundred dollars.<sup>2</sup>  
6

7 Burst licensed its patents and developed software to implement its technology on industry  
8 standard personal computers and servers. In 1996, Burst delivered the first experimental version  
9 of its video-streaming software called Burstware. It released the first commercial version of  
10 Burstware to the public in early 1999. By 2002, however, misappropriation of Burst's  
11 technology by larger competitors had devastated the company. Ultimately, Burst sued Microsoft  
12 for patent infringement and antitrust violations. That suit was settled in 2005 when Microsoft  
13 agreed to pay \$60 million for a license under the Burst patents.  
14

## 15 **II. CLAIM CONSTRUCTION PRINCIPLES**

16 Claim construction is governed by the Federal Circuit's recent *en banc* decision in  
17 *Phillips v. AWH Corp.*, 415 F.3d 1303 (Fed. Cir. 2005). There, it embraced the *Vitronics*  
18 hierarchical approach of focusing first on the claims, then on the patent specification, next on the  
19 file history, and finally on "extrinsic" evidence if appropriate. *Phillips*, 415 F.3d at 1312-18  
20 (repeatedly citing with approval *Vitronics Corp. v. Conceptronic, Inc.*, 90 F.3d 1576 (Fed. Cir.  
21 1996)). *Phillips* criticized the claim construction technique popularized in *Texas Digital*  
22 *Systems, Inc. v. Telegenix, Inc.*, 308 F.3d 1193 (Fed. Cir. 2002), in which courts consulted  
23 dictionaries before reviewing the patent specification to determine the meaning of a disputed  
24  
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27 Defendant Burst.com, Inc.'s Opening Brief on Claim Construction."  
28

1 claim term. *Phillips*, 415 F.3d at 1320-21. As stated by the *en banc* panel, “[t]hat approach, in  
2 our view, improperly restricts the role of the specification in claim construction,” *id.* at 1320,  
3 and “focuses the inquiry on the abstract meaning of words rather than on the meaning of claim  
4 terms within the context of the patent,” *id.* at 1321.

5  
6 *Phillips* is critical to claim construction in this case because the parties have taken vastly  
7 different approaches in their adherence to the patent specification. Significantly, *Phillips*  
8 reinforced the importance of the specification in claim construction, stating that “[t]he  
9 specification is . . . the primary basis for construing the claims.” 415 F.3d at 1315. *See also*  
10 *Vitronics*, 90 F.3d at 1582 (“[T]he specification is always highly relevant to the claim  
11 construction analysis. Usually, it is dispositive; it is the single best guide to the meaning of a  
12 disputed term.”). Consistent with that mandate, Burst’s constructions are carefully grounded in  
13 the patent specifications. Apple in many instances completely ignores the specifications. In fact,  
14 Apple’s own expert openly admits that the patent specification contains little, and in some cases  
15 no, support for Apple’s claim construction positions.  
16  
17

18 Apple’s approach not only violates *Phillips*, but also fails to account for another critical  
19 principle of claim construction: a construction that excludes the preferred embodiment is  
20 “rarely, if ever, correct.” *Vitronics Corp. v. Conceptronics, Inc.*, 90 F.3d 1576, 1583 (Fed. Cir.  
21 1996); *see also Anchor Wall Sys., Inc. v. Rockwood Retaining Walls, Inc.*, 340 F.3d 1298, 1308  
22 (Fed. Cir. 2003).  
23

24 While the prosecution history is also relevant to claim construction, it must be considered  
25 with great care. As the *Phillips* court cautioned, “because the prosecution history represents an  
26

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27  
28 <sup>2</sup> Apple’s iPod shuffle, for example, has one gigabyte of memory, “weighs in at about half an  
ounce,” and currently sells for \$79.00. *See* [http://store.apple.com/1-800-MY-APPLE/WebObjects/  
AppleStore?family=iPodshuffle](http://store.apple.com/1-800-MY-APPLE/WebObjects/AppleStore?family=iPodshuffle).

1 ongoing negotiation between the PTO and the applicant, rather than the final product of that  
2 negotiation, it often lacks the clarity of the specification and thus is less useful for claim  
3 construction purposes.” *Phillips*, 415 F.3d at 1317. This cautionary note has special application  
4 in this case because the last Burst patent, the ‘705 Patent, experienced a lengthy prosecution  
5 history involving significant back-and-forth correspondence with the PTO.  
6

7 One last legal principle that deserves highlighting at the outset is the rule that terms used  
8 in multiple claims should be construed consistently, *see Inverness Medical v. Princeton*  
9 *Biomeditech Corp.*, 309 F.3d 1365, 1371 (Fed. Cir. 2002), as should terms used in related  
10 patents, *see Omega Engineering Inc. v. Raytek Corp.*, 334 F.3d 1314, 1334 (Fed. Cir. 2003).  
11

### 12 **III. PRIOR CONSTRUCTION OF THE BURST PATENTS**

13 In the Microsoft case, Judge Motz of the Eastern District of Maryland entered a pair of  
14 interlocutory letter orders construing the Burst patents. Neither of these letter orders is  
15 controlling here because collateral estoppel does not apply. Collateral estoppel applies only if  
16 “(1) the issue necessarily decided at the previous proceeding is identical to the one which is  
17 sought to be relitigated; (2) the first proceeding ended with a final judgment on the merits; and  
18 (3) the party against whom collateral estoppel is asserted was a party or in privity with a party at  
19 the first proceeding.” *Hydranautics v. FilmTec Corp.*, 204 F.3d 880, 885 (9th Cir. 2000). The  
20 Motz opinions do not meet either of the first two requirements for application of collateral  
21 estoppel.  
22

23 Identity of issues for purposes of collateral estoppel requires “application of the same rule  
24 of law as that involved in the prior proceeding.” *Resolution Trust Corp. v. Keating*, 186 F.3d  
25 1110, 1116 (9th Cir. 1999). The Federal Circuit’s intervening *en banc* decision in the landmark  
26 *Phillips* case negates any identity of claim construction issues between this and the Microsoft  
27  
28

1 lawsuit. As explained above, *Phillips* resolved a conflict in claim construction law against a line  
2 of cases that placed undue emphasis on dictionary definitions following the *Texas Digital*  
3 decision. In *Phillips*, the Federal Circuit affirmed the primacy of intrinsic evidence consisting of  
4 the patent claims, specification, and, to a lesser extent, prosecution history. See 415 F.3d at  
5 1320-24. Microsoft and Burst both relied on *Texas Digital* throughout their claim construction  
6 briefing to Judge Motz. See Microsoft Resp. Cl. Const. Br. at 7, 10, 11, 14, 16, 30 (Exhibit 21);  
7 Burst Op. Cl. Const. Br. at 19 (Exhibit 22). The informal opinions of Judge Motz do not reject  
8 *Texas Digital*, nor do they identify the line of claim construction authority upon which they rely.  
9 Given the intervening decision in *Phillips*, there is no identity of issues between the Microsoft  
10 case and the case before this Court.  
11  
12

13 The Motz opinions also cannot satisfy the final judgment prong of the collateral estoppel  
14 test. The Federal Circuit has held in similar circumstances that a claim construction order does  
15 not constitute a “final judgment on the merits” for purposes of applying collateral estoppel. In  
16 *RF Delaware, Inc. v. Pac. Keystone Techs., Inc.*, 326 F.3d 1255, 1260-62 (Fed. Cir. 2003), the  
17 court held that a partial summary judgment order entered after claim construction in a suit that  
18 later settled before trial was not sufficiently final to establish collateral estoppel on claim  
19 construction issues in a later suit.<sup>3</sup> The court did not find that the claim construction opinion  
20 itself was sufficiently final to establish collateral estoppel. As the Federal Circuit has stated in  
21 other circumstances, “[e]xcept in the context of validity or infringement, judicial statements  
22 regarding the scope of patent claims are hypothetical . . .” *A.B. Dick Co. v. Burroughs Corp.*,  
23 713 F.2d 700, 704 (Fed. Cir. 1983). The Microsoft case settled without any adjudication on the  
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28 <sup>3</sup> The Federal Circuit applied the Eleventh Circuit’s collateral estoppel standard, which is substantially the same as the Ninth’s. See *In re McWhorter*, 887 F.2d 1564, 1566 (11th Cir.1989)

1 merits, and Judge Motz’s claim construction opinions were never embodied in a final judgment  
2 of any kind affecting validity or infringement that could support collateral estoppel in this case.

3 Moreover, the letter opinions themselves indicate that they were preliminary in nature  
4 and not final even in that case. *See, e.g., Burst.com v. Microsoft Corp.*, No. JFM-02-2952 (D.  
5 Md. March 12, 2004) (letter construing claim terms), at 3 (“When and if it is necessary for me to  
6 construe the term in order to decide summary judgment motions ... I will request further  
7 argument...”) (Exhibit 23); *Burst.com v. Microsoft Corp.*, No. JFM-02-2952 (D. Md. June 22,  
8 2004) (letter clarifying certain claim terms), at 1 (“In making this change, I am not finally  
9 deciding ...”) (Exhibit 24). Thus, it is fair to say that the Motz opinions were not viewed as  
10 final, even in the *Burst.com v. Microsoft* lawsuit.  
11

#### 12 **IV. DISPUTED “MEANS” TERMS**

13 The parties disagree whether a number of claim terms are “means-plus-function” terms  
14 subject to 35 U.S.C. § 112, ¶ 6 (“Paragraph 6”). Burst contends that Paragraph 6 does not apply  
15 to these terms because the terms themselves recite sufficient structure. Section A provides an  
16 overview of law governing the threshold issue of the application of Paragraph 6. Section B  
17 establishes that Paragraph 6 does not apply to specific terms.<sup>4</sup>  
18

##### 19 **A. 35 U.S.C. § 112, ¶ 6 & Related Law**

20 Although patent claims often recite the invention’s elements as physical structures (*e.g.*,  
21 an “oar” or “brake”), the Patent Act authorizes an applicant to describe an element of the  
22 invention in terms of its function (*e.g.*, a “means for rowing” or “means for stopping”). *Warner*  
23 *Jenkinson Co., Inc. v. Hilton Davis Chem. Co.*, 520 U.S. 17, 27 (1997). Under the statute, a  
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28 <sup>4</sup> The parties also disagree about the applicability of Paragraph 6 to the term “recording ... onto a removable recording medium.” The discussion of that term in Section B below describes the law applicable to purported “step-plus-function” terms and establishes that Paragraph 6 does not apply to the term.

1 limitation expressed as “a means or step for performing a specified function without the recital of  
2 structure, material, or acts in support thereof” is construed to “cover the corresponding structure,  
3 material, or acts described in the specification and equivalents thereof.” 35 U.S.C. § 112 ¶ 6.<sup>5</sup>  
4 Because such “means-plus-function” limitations are construed differently from other limitations,  
5 determining whether Paragraph 6 has been invoked is a threshold claim construction issue.  
6

7 Paragraph 6 applies “only to purely functional limitations that do not provide the  
8 structure that performs the recited function.” *Phillips*, 415 F.3d at 1311 (emphasis added).  
9 Though use of the word “means” presumptively invokes Paragraph 6, evidence that a limitation  
10 “recites sufficient structure or material for performing [the stated] function” rebuts the  
11 presumption. *Rodime PLC v. Seagate Tech., Inc.*, 174 F.3d 1294, 1302 (Fed. Cir. 1999). Thus,  
12 “[w]here a claim recites a function, but then goes on to elaborate sufficient structure, material, or  
13 acts within the claim itself to perform entirely the recited function, the claim is not in means-  
14 plus-function format,” even if the claim uses the term “means.” *Sage Prods. v. Devon Indus.,*  
15 *Inc.*, 126 F.3d 1420, 1427–28 (Fed. Cir. 1997) (internal quotations omitted).  
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18 The absence of the word “means” in a claim limitation creates the reverse presumption –  
19 namely, that Paragraph 6 does not apply. *Watts v. XL Sys.*, 232 F.3d 877, 880 (Fed. Cir. 2000).  
20 This presumption can be rebutted “by showing that the claim element recite[s] a function without  
21 reciting sufficient structure for performing that function.” *Id.* Unlike the presumption stemming  
22 from use of the term “means,” “the presumption flowing from the absence of the term ‘means’ is  
23 a strong one that is not readily overcome.” *Lighting World, Inc. v. Birchwood Lighting, Inc.*, 382  
24 F.3d 1354, 1358 (Fed. Cir. 2004). As the Federal Circuit explained in *Lighting World*, given the  
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28 <sup>5</sup> Apple’s purported identifications of corresponding structures uniformly omit the language “plus  
equivalents” required by the statute. Should the Court adopt any of Apple’s identifications of structures, its order  
should include this qualification.



1 strength of the presumption, “it is not surprising that we have seldom held that a limitation not  
2 using the term ‘means’ must be considered to be in means-plus-function form.” *Id.* at 1362.

3 A common principle guides both presumptions about the presence or absence of the word  
4 “means”: recitation of sufficient structure to perform any stated function precludes application of  
5 Paragraph 6. In *Cole v. Kimberly-Clark Corp.*, 102 F.3d 524, 526–31 (Fed. Cir. 1996), for  
6 example, the Federal Circuit concluded that the limitation “perforation means . . . for tearing the  
7 outer impermeable layer means for removing the training brief in case of an accident by the user”  
8 did not invoke Paragraph 6 because the “perforation” connoted adequate structure to perform the  
9 recited function. The court reached the same result regarding the term “baffle means” in *Envirco*  
10 *Corp. v. Clestra Cleanroom, Inc.*, 209 F.3d 1360, 1365 (Fed. Cir. 2000). In *Allen Engineering*  
11 *Corp. v. Bartell Industries, Inc.*, 299 F.3d 1336, 1348 (Fed. Cir. 2002), the Federal Circuit found  
12 that Paragraph 6 was not invoked by any of a host of terms that appended “means” to a number  
13 of readily identifiable mechanical parts. In each of these cases, the “perfunctory addition” of the  
14 term “means” did not subject the terms to Paragraph 6. *See Cole*, 102 F.3d at 531.<sup>6</sup>

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18 Recitation of structure that precludes application of Paragraph 6 need not be specific to a  
19 single structure; it need only convey a family or group of structures to those of skill in the art:

20 [T]he term “detector” is a sufficient recitation of structure. “Detector” is not a  
21 generic structural term such as “means,” “element,” or “device”; nor is it a coined

22  
23 <sup>6</sup> As *Cole* and *Allen Engineering* make explicit, the mere fact that an applicant is “enamored” of the  
24 term “means” and makes “perfunctory” use of it repeatedly does not justify a conclusion that Paragraph 6 was  
25 invoked. *Cole*, 102 F.3d at 531 (“The drafter of claim 1 in the ‘239 patent was clearly enamored of the word  
26 ‘means’. . . . [T]he claim drafter’s perfunctory addition of the word ‘means’ did nothing to diminish the precise  
27 structural character of this element. It definitely did not somehow magically transform this element into a § 112, ¶ 6,  
28 ‘means-plus-function’ element.”); *Allen Eng’g*, 299 F.3d at 1348 (recognizing that “[a]s in *Cole*, the drafter of the  
‘220 patent was clearly enamored of the word ‘means,’” but refusing to apply Paragraph 6 to most of the “means”  
limitations) (internal quotation omitted); *see also Greenberg v. Ethicon Endo-Surgery, Inc.*, 91 F.3d 1580, 1583-84  
(Fed. Cir. 1996) (“The drafter of the application that matured into the ‘501 patent appears to have been enamored of  
the word ‘means,’ as the word is used repeatedly in the summary of the invention. A close reading of the  
specification reveals, however, that the term is used in that portion of the patent simply as a shorthand way of  
referring to each of the key structural elements of the invention.”).

1 term lacking a clear meaning, such as “widget” or “ram-a-fram.” Instead, as  
2 noted by the ALJ by reference to dictionary definitions, “detector” had a well-  
3 known meaning to those of skill in the electrical arts connotative of structure,  
4 including a rectifier or demodulator. . . . [N]either the fact that a “detector” is  
5 defined in terms of its function, nor the fact that the term “detector” does not  
6 connote a precise physical structure in the minds of those of skill in the art  
7 detracts from the definiteness of structure. Even though the term “detector” does  
8 not specifically evoke a particular structure, it does convey to one knowledgeable  
9 in the art a variety of structures known as “detectors.” We therefore conclude that  
10 the term “detector” is a sufficiently definite structural term to preclude the  
11 application of § 112, ¶ 6.

12 *Personalized Media Communications., L.L.C. v. Int’l Trade Comm’n*, 161 F.3d 696, 704–05  
13 (Fed. Cir. 1998) (emphasis added). Thus, recitation of a term that connotes structure but is  
14 generic to a family of structures is adequate to preclude application of Paragraph 6.

15 Dictionaries can be proper aids in determining whether a given term (*e.g.*, analog digital  
16 converter, monitor, input or output) “denotes a type of device with a generally understood  
17 meaning in the [relevant art]” so as to preclude application of Paragraph 6. *Greenberg*, 91 F.3d  
18 at 1583; *see also CCS Fitness, Inc. v. Brunswick Corp.*, 288 F.3d 1359, 1369 (dictionary  
19 definition established that term “member” connotes structure to an artisan of ordinary skill).

20 Once a court determines that a term invokes Paragraph 6, two further steps are required to  
21 construe it as a means-plus-function term. First, the Court must identify the claimed function.  
22 *See Intellectual Prop. Dev., Inc. v. UA-Columbia Cablevision of Westchester, Inc.*, 336 F.3d  
23 1308, 1319 (Fed. Cir. 2003). Second, the Court must determine what structure disclosed in the  
24 specification corresponds to the claimed function. *Id.* The claim limitation is then construed to  
25 mean the corresponding structure as well as statutory “equivalents.” 35 U.S.C. § 112, ¶6.

26 When identifying the function, the Court must not “adopt[] a function different from that  
27 explicitly recited in the claim.” *Micro Chem., Inc. v. Great Plains Chem. Co.*, 194 F.3d 1250,  
28 1258 (Fed. Cir. 1999). Nor may the Court narrow or broaden the claimed function. *Lockheed*

1 *Martin Corp. v. Space Sys/Loral, Inc.*, 324 F.3d 1308, 1319 (Fed. Cir. 2003). Finally, as with  
2 terms not subject to Paragraph 6, the Court may not “import[] the functions of a working device  
3 into the specific claims, rather than reading the claims for their meaning independent of any  
4 working embodiment.” *JVW Enters., Inc. v. Interact Accessories, Inc.*, 424 F.3d 1324, 1331  
5 (Fed. Cir. 2005).  
6

7 The Court undertakes the next step of identifying the structure corresponding to the  
8 properly construed function from the perspective of a person of ordinary skill in the art. *Atmel*  
9 *Corp. v. Info. Storage Devices, Inc.*, 198 F.3d 1374, 1379 (Fed. Cir. 1999). The corresponding  
10 structure identified must not only perform the claimed function, but also should be linked to the  
11 performance of the function in the patent specification. *Medtronic, Inc. v. Advanced*  
12 *Cardiovascular Sys., Inc.*, 248 F.3d 1303, 1311 (Fed. Cir. 2001). The corresponding structure  
13 need not include all things necessary to enable the claimed invention to work but instead should  
14 be limited to the structure that actually performs the recited function. *Asyst Techs., Inc. v.*  
15 *Empak, Inc.*, 268 F.3d 1364, 1371 (Fed. Cir. 2001). To the extent that the patent discloses  
16 multiple embodiments that link different structures to the claimed function, the corresponding  
17 structure of the means-plus-function limitation encompasses all alternative structures disclosed in  
18 the patent. *Callicrate v. Wadsworth Mfg., Inc.*, 427 F.3d 1361, 1369 (Fed. Cir. 2005); *Serrano v.*  
19 *Telular Corp.*, 111 F.3d 1578, 1583 (Fed. Cir. 1997).  
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23 Structure can be viewed at many levels of abstraction ranging from the very general (*e.g.*,  
24 an automobile) to the very specific (*e.g.*, a Toyota Camry V6 XLE). Accused infringers  
25 regularly seek to relegate patentees to very specific and narrow structures. However, the law is  
26 clear that “generic” structure can be perfectly adequate structure under Paragraph 6 provided it  
27 refers to a “class of structures [that are] identifiable by a person of ordinary skill in the art.”  
28

1 *Linear Tech. Corp. v. Impala Linear Corp.*, 379 F.3d 1311, 1321–22 (Fed. Cir. 2004); *see also*  
 2 *Budde v. Harley-Davidson, Inc.*, 250 F.3d 1369, 1381-82 (Fed. Cir. 2001) (holding that a generic  
 3 reference in the specification to “commercially available” “vacuum sensors” provided adequate  
 4 structure because vacuum sensors were well known in the art at the time); *Serrano*, 111 F.3d at  
 5 1583 (general reference to a microprocessor programmed to perform a specific function was  
 6 adequate to treat microprocessor as corresponding structure).

8 **B. Terms**

9 **1. “analog to digital converter means”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>11 “analog to digital converter means”</p> <p>12 ‘995: 8</p> <p>13</p> <p>14 “analog to digital converter means for converting said analog audio/video source information to corresponding digital audio/video source information”</p> <p>15 ‘995: 8.</p>	<p>11 “analog to digital converter means” –</p> <p>12 Not subject to §112 ¶6, and no construction necessary. Alternatively, “a circuit that changes analog information into digital information”</p> <p>13</p> <p>14 Although Burst does not believe “analog to digital converter means” is subject to § 112 ¶6, Burst provides the following description of the corresponding structure if the terms were interpreted as subject to § 112 ¶6.</p> <p>15</p> <p>16 “analog to digital converter means” –</p> <p>17 Corresponding structure: an analog to digital converter, plus equivalents.</p>	<p>11 “analog to digital converter means for converting said analog audio/video source information to corresponding digital audio/video source information” - Limited to structures disclosed under §112 ¶6: Burr-Brown ADC 600.</p>

21 Claim 8 of the ‘995 Patent recites an “analog to digital converter means.” Claim 8  
 22 defines the pertinent function as “converting [] analog audio/video source information . . . to  
 23 corresponding digital audio/video source information.”

24 The term “analog to digital converter” recites sufficient structure for performing the  
 25 function of converting analog information into digital information. At the time the ‘995 Patent  
 26 was filed and prosecuted, analog to digital converters constituted a well known class of circuits  
 27 that perform precisely the function recited in claim 8. For example, technical dictionaries  
 28

1 recognized that analog to digital converters were specific circuits used to convert analog  
2 information to digital information. *See* IEEE STANDARD DICTIONARY OF ELECTRICAL AND  
3 ELECTRONICS TERMS (4th ed. 1988) (defining an “analog-to-digital converter” as “[a] circuit  
4 whose input is information in analog form and whose output is the same information in digital  
5 form”) (Exhibit 16); MODERN DICTIONARY OF ELECTRONICS (6th ed. 1984) (defining an “analog-  
6 to-digital converter” as “[a] circuit that changes a continuously varying voltage or current  
7 (analog) into a digital output”) (Exhibit 17). Similarly, Burst’s expert Dr. Hemami has opined  
8 that “[t]he term ‘analog to digital converter’ connotes a physical device [and] would have been  
9 well known in 1988 to one of ordinary skill in the art.” *See* Hemami Report at 57 (Exhibit 5).<sup>7</sup>  
10  
11

12 Because the term “analog to digital converter” refers to a “variety of structures” known to  
13 perform a specific function, it describes sufficient structure. *Personalized Media*, 161 F.3d at  
14 704–05. Additional evidence that the words “analog to digital converter” represent sufficient  
15 structure can be found in claim 73 of the ‘995 Patent. That claim, which also requires an “analog  
16 to digital converter means,” specifies that the “analog to digital converter” is coupled to the  
17 “random access storage means” via the “high speed bus means.” This specification of a  
18 particular location for the analog to digital converter connotes structure. *See Cole v. Kimberly-*  
19 *Clark Corp.*, 102 F.3d 524, 531 (Fed. Cir. 1996) (refusing to apply Paragraph 6, in part because  
20 “[t]he claim describes not only the structure that supports the [stated] function, but also its  
21 location . . . and extent”).  
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23

24 The prosecution history of the ‘995 Patent further demonstrates that the term “analog to  
25 digital converter” represents structure. In a March 12, 1990 Response, Burst characterized  
26 certain claims as requiring “an analog to digital converter for converting analog audio/video  
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28 <sup>7</sup> The expert report of Dr. Sheila Hemami provides support for each and every construction

1 source information to a corresponding digital format.” *Amendment “A,” ‘995 PH*, at 19 (March  
2 12, 1990) (Exhibit 9). This characterization, which uses the term “analog to digital converter” as  
3 a noun, makes clear that the analog to digital converter is the specific structure performing the  
4 conversion function. Adding the term “means” in the claims was simply perfunctory.  
5

6 Because the term “analog to digital converter means” provides sufficient structure to  
7 perform the recited function, it is not subject to Paragraph 6. Moreover, because the term  
8 “analog to digital converter” is sufficiently descriptive, no construction is necessary. To the  
9 extent the Court deems one necessary, the customary and ordinary meaning of the term—  
10 namely, a circuit that changes analog information into digital information – should apply.  
11

12 If the Court determines that “analog to digital converter means” is subject to Paragraph 6,  
13 Burst would identify the corresponding structure as “an analog-to-digital converter, plus  
14 equivalents.” Burst’s position is supported by several passages in the patent specification. *See*  
15 ‘995 Patent, 4:19-20; 4:34-37; 4:54-62. In contrast, Apple’s proposed identification of  
16 corresponding structure as a single model of chip – the “Burr-Brown ADC 600” – is overly  
17 restrictive, given that the specification identifies “commercially available analog to digital  
18 converter integrated circuits” in the plural form and mentions the Burr-Brown converter as just  
19 one of several different types. *See* ‘995 Patent, 4:56-62. Apple’s position also contains the flaw  
20 common to every one of Apple’s identifications of corresponding structure: the omission of the  
21 language “plus equivalents” that is required by Paragraph 6.  
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24 Burst will provide further explanation of its alternative construction under Paragraph 6, if  
25 necessary, in its reply brief.  
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proposed by Burst and addressed in this brief.

2. “monitor means”

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>“monitor means” ‘995: 3, 22, 24, 25, 27, 28.</p> <p>“monitor means for enabling the user to selectively identify the time compressed representation...” ‘995: 3.</p> <p>“monitor means...for enabling the user to selectively view...” ‘995: 24, 25, 27, 28.</p>	<p>“monitor means” – Not subject to §112 ¶6, and no construction necessary. Alternatively, “a display”</p> <p>Although Burst does not believe “monitor means” is subject to § 112 ¶6, Burst provides the following description of the corresponding structure if the terms were interpreted as subject to § 112 ¶6.</p> <p>“monitor means” – Corresponding structure: a flat panel video display, a television, or a computer monitor, plus equivalents.</p>	<p>“monitor means for enabling the user to selectively identify the time compressed representation...” - Limited to structures disclosed under §112 ¶6: flat panel video display built into the VCR-ET, television coupled to an RF modulator, or a computer monitor.</p> <p>“monitor means...for enabling the user to selectively view...” - Limited to structures disclosed under §112 ¶6: (1) flat panel video display built into the VCR-ET, television coupled to an RF modulator, or a computer monitor and (2) user interface control panel, light pen or mouse.</p>

The term “monitor means” appears in several ‘995 Patent claims. *See* ‘995 Patent, claims 3, 22, 24, 25, 27, and 28. Each of those claims describes a monitor that can be used while editing to enable the user to “selectively identify the time compressed representation ... during editing” (claim 3), “view the selectively decompressed time compressed representation” (claim 22), or “selectively view the decompressed digital time compressed representation” (claims 24, 25, 27, and 28).

Apple has taken the position that “monitor means” is subject to Paragraph 6. Apple’s position is incorrect because the word “monitor” recites sufficient structure for performing the stated functions of selectively identifying and viewing. First, the term “monitor” plainly denotes a monitor or display. Second, the claim language – which provides that the monitor allows the user to identify and view representations of audio/video source information – reinforces that common understanding. Third, the specification precisely identifies examples of monitors: “a flat-panel video display,” “a television,” and “computer monitors and similar display devices.” ‘995 Patent, 6:39-40, 6:49-52, 8:24-26; 10:25-28. These all belong to a “class of structures [that

1 are] identifiable by a person of ordinary skill in the art.” *Linear Tech. Corp. v. Impala Linear*  
2 *Corp.*, 379 F.3d 1311, 1322 (Fed. Cir. 2004). One skilled in the art would clearly understand  
3 “monitor means” to be a monitor or display. *See* Hemami Report at 54-55 (Exhibit 5). Fourth, it  
4 is apparent that the term “monitor” constitutes sufficient structure because nothing is lost in the  
5 claims when the term “means” is deleted. *See, e.g.*, ‘995 Patent, claim 24 (“monitor [] for  
6 enabling the user to selectively view the decompressed time compressed representation”). Fifth,  
7 the claims treat “monitor means” as structure by describing it as “coupled to” the decompression  
8 means. *See* ‘995 Patent, claims 25 & 28. That description indicates that a claim term is  
9 structural in nature. *See Cole*, 102 F.3d at 531.

12 Burst’s position is that “monitor means” does not need construction. If, however, the  
13 Court determines that it is necessary to construe the term, Burst’s construction is “a display.”  
14 That term accurately and sufficiently captures the examples provided in the specification recited  
15 above. *See* ‘995 Patent, 6:39-40, 6:49-52, 8:24-26; 10:25-28.

17 If the Court were to conclude that “monitor means” is subject to Paragraph 6, Burst  
18 would identify the corresponding structure as: “a flat panel video display, a television, or a  
19 computer monitor, plus equivalents.” As set forth above, the specification identifies each of  
20 these types of monitors or displays as performing the cited function of enabling the user to  
21 “selectively identify the time compressed representation ... during editing” (claim 3), “view the  
22 selectively decompressed time compressed representation” (claim 22), or “selectively view the  
23 decompressed digital time compressed representation” (claims 24, 25, 27, and 28). *See also*  
24 Hemami Report at 55 (one of ordinary skill in the art would recognize these displays as “easily  
25 fulfilling any of the functions associated with the ‘monitor means’”) (Exhibit 5).



1 Apple offers two different identifications of corresponding structure. Both include “flat  
2 panel video display built into the VCR-ET, television coupled to an RF modulator, or a computer  
3 monitor.” One identification, which Apple applies to claims 24, 25, 27, and 28 of the ‘995  
4 Patent (“monitor means ... for enabling the user to selectively view”), includes the additional  
5 structure of “user interface control panel, light pen or mouse.” Both of Apple’s identifications of  
6 corresponding structure suffer from major infirmities. First, they include structure that does not  
7 itself perform the recited functions of identifying and viewing. Thus, it is not necessary that the  
8 display structure be “built into the VCR-ET,” nor is it necessary to the structure for the television  
9 to be “coupled to an RF modulator.” Second, the structures of “user interface control panel, light  
10 pen or mouse” do not perform the recited function of enabling the user to “selectively identify”  
11 or “view.” The corresponding structure should include only that which is necessary to perform  
12 the recited function. It should not include everything necessary to enable the claimed invention  
13 to work. *Asyst Techs., Inc. v. Empak, Inc.*, 268 F.3d 1364, 1370-71 (Fed. Cir. 2001). Finally,  
14 Apple’s identification omits the legally required language “plus equivalents.”  
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18 For all of these reasons, if the Court concludes that Paragraph 6 applies to “monitor  
19 means,” the Court should adopt Burst’s alternative identification of corresponding structure.  
20 Burst will provide further explanation of its alternative construction under Paragraph 6, if  
21 necessary, in its reply brief.  
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3. “random access storage means”

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>“random access storage means”                      ‘995: 1, 2, 3, 7, 8, 9, 17, 20, 21, 22, 23, 25, 26, 28, 44, 47, 80;                      ‘932: 4.</p> <p>“random access storage means...for storing the recompressed...”                      ‘995: 21.</p>	<p>“random access storage means” - Not subject to §112 ¶6: “storage that provides for random access to any given segment of stored audio/video source information”</p> <p>Although Burst does not believe “random access storage means” is subject to § 112 ¶6, Burst provides the following description of the corresponding structure for the ‘995 Patent claims if the terms were interpreted as subject to § 112 ¶6.</p> <p>“random access storage means” – Corresponding structure: DRAM, SRAM, CMOS, or optical disk memories, plus equivalents.</p>	<p>‘995 PATENT:                      “random access storage means...for storing the time compressed representation...”                      AND                      “random access storage means...for storing the recompressed...” - Limited to structures disclosed under §112 ¶6: DRAM, SRAM, CMOS memory, or optical disc memory.</p>

The term “random access storage means” appears in independent claims 1 and 17 and several dependent claims in the ‘995 Patent.<sup>8</sup> This term is not subject to Paragraph 6 of Section 112 because the words “random access storage” recite sufficient structure for performing the stated function of “storing” audio/video source information in the form of a time compressed representation (‘995 Patent claims 1, 8, 9, and 17), a recompressed selectively decompressed time compressed representation (‘995 Patent claim 21), or an edited decompressed digital time compressed representation (‘995 Patent claim 26).

The function performed by the random access storage means is fundamentally the same in each of these variations: storing compressed audio and/or video. The words “random access storage” define a particular type of memory structure for performing that function and thus convey sufficient structure to preclude application of Paragraph 6. The term “random access

<sup>8</sup> The term also appears in ‘932 claim 4, but the parties agree that the proper construction for that term is “one or more magnetic disks.”

1 storage” was known to one of ordinary skill in the art in 1988. *See* Hemami Report at 43-44  
2 (Exhibit 5). Indeed, the term would be “self-descriptive to such an individual,” conveying the  
3 meaning within the context of the Burst patents of “storage that provides for random access to  
4 any given segment of stored audio/video source information.” *Id.*

5  
6 It is also clear that “random access storage” constitutes sufficient structure based on the  
7 claim language. For example, the relevant limitation from a representative claim requires:  
8 “random access storage [means], coupled to said compression means, for storing the time  
9 compressed representation of said audio/video source information.” ‘995 Patent claim 1  
10 (brackets added around term “means”). With or without the term “means” included, this  
11 limitation has exactly the same meaning. The word “means” is perfunctory and superfluous.  
12 Moreover, the limitation treats “random access storage” as structure by giving it a particular  
13 location, “coupled to” the compression means. *See Cole*, 102 F.3d at 531.

14  
15 Apple’s contention that “random access storage means” is subject to Paragraph 6 is not  
16 supported. Apple’s expert opined that “random access storage” does not connote sufficient  
17 structure because there are a “wide variety of very different classes of structures” that provide  
18 random access storage. *See Halpern Report* at 34 (Exhibit 6). But in his deposition, Mr. Halpern  
19 conceded that he could not identify any type of random access storage in 1988 not listed in the  
20 patent specifications. *See Halpern Dep.* at 259-62 (Exhibit 8). That short list hardly represents a  
21 “wide variety of very different classes of structures.”

22  
23 Moreover, as Mr. Halpern also conceded in his deposition, the term “random access  
24 storage” represents a “general class of structure.” *Id.* at 253. A term need not be limited to a  
25 single, specific structure to preclude application of Paragraph 6. To the contrary, “generic”  
26 structure is perfectly sufficient if it refers to a “class of structures [that are] identifiable by a  
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1 person of ordinary skill in the art.” *Linear Tech.*, 379 F.3d at 1322; *see also Personalized Media*,  
2 161 F.3d at 704-05 (finding a term encompassing a variety of structures not subject to Paragraph  
3 6 where that term had a well-known meaning to those of skill in the art). Mr. Halpern’s  
4 concession and Dr. Hemami’s opinion confirm that the term “random access storage means”  
5 conveys sufficiently definite structure under these cases to avoid Paragraph 6.  
6

7 The prosecution histories of the Burst patents further demonstrate that the term “random  
8 access storage” is structure and that the addition of the word “means” was purely perfunctory. In  
9 a March 12, 1990 Response in the ‘995 prosecution, Burst used the words “random access  
10 storage” as a noun more than ten times to describe the location where certain information is  
11 stored. *Amendment “A”*, ‘995 PH at 18-20 (March 12, 1990) (Exhibit 9); *see also Amendment*  
12 *“A”*, ‘932 PH at 5-6 (May 7, 1990) (using “random access storage” as noun and structure)  
13 (Exhibit 10); *Amendment “B”*, ‘932 PH at 7 (January 4, 1991) (using “random access storage” as  
14 noun and structure) (Exhibit 11). This use of the term “random access storage” as a noun makes  
15 clear that the random access storage is the specific structure performing the storing function. In  
16 fact, Apple’s expert conceded that Burst used the phrase random access storage as structure in  
17 the prosecution histories. *See Halpern Dep.* at 261:5-264:4 (Exhibit 8).  
18  
19

20 Burst’s proposed construction of the term “random access storage means” is “storage that  
21 provides for random access to any given segment of stored audio/video source information.” The  
22 claims make clear that this term defines storage for the time-compressed representation of  
23 audio/video source information, allowing random access to selected segments or portions. For  
24 example, ‘995 claim 20 provides that audio/video source information stored in random access  
25 storage means can be “selectively decompress[ed].” That functionality requires that segments of  
26 the stored information can be accessed randomly in order for selective decompression to occur.  
27  
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1 The specification also provides unambiguous support for Burst’s construction. It is a  
2 stated object of the invention to provide for “random access to any given segment of a self-stored  
3 audio/video program so that the desired segment may be accessed and viewed without the time-  
4 consuming delays normally involved in fast-forward or fast-reverse searching procedures  
5 employed in present state-of-the-art VCRs.” ‘995 Patent, 2:59-66. The specification states  
6 further that audio/video source information that has been digitized and stored in the random  
7 access memory can be viewed or transferred “either in its entirety or in random segments, based  
8 on user preference.” ‘995 Patent, 10:1-5.

9  
10  
11 The specification describes particular types of random access memory, such as DRAM  
12 (Dynamic Random Access Memory), SRAM (Static Random Access Memory), CMOS  
13 (Complimentary Metal Oxide Semiconductor), optical disc memories, and magnetic disks, all of  
14 which are identified as examples of memory 13 in Figure 2. *See* ‘995 Patent, Fig. 2; 6:8-19; ‘932  
15 Patent, 6:37-39; *see also* ‘995 Patent, 5:38-40 (describing DRAM and SRAM); ‘995 Patent,  
16 3:59-4:16 (describing optical disc memories such as WORM (Write Once Read Many) and  
17 erasable optical discs, which have “random access capabilities”). The common feature of all  
18 these memory types is random access capability. *See* Hemami Report at 44 (Exhibit 5). It was  
19 clear to one of ordinary skill in the art in 1988 that any form of memory or media that provided  
20 random access to segments of stored audio/video source information would be acceptable. *Id.*

21  
22  
23 If the Court concludes that “random access storage means” as used in the ‘995 Patent is  
24 subject to the means plus function analysis of Section 112, ¶ 6, Burst identifies the corresponding  
25 structure as: DRAM, SRAM, CMOS, or optical disk memories, plus equivalents. Claims 6 and 7  
26 of the ‘995 Patent plainly establish these forms of memory as types of random access storage  
27 means. *See* ‘995 Patent, claim 6 (“said random access storage means comprises an optical  
28

1 disc”); ‘995 Patent, claim 7 (“said random access storage means comprises a semiconductor  
 2 memory”). As shown above, the specification also describes these forms of memories as random  
 3 access storage. *See also* Hemami Report at 44 (these forms all correspond to random access  
 4 storage means and memory 13) (Exhibit 5). Apple’s identification of corresponding structure is  
 5 incorrect because it does not identify “equivalents.”  
 6

7 Burst will provide further explanation of its alternative construction under Paragraph 6, if  
 8 necessary, in its reply brief.

9 **4. “storage means”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>11 “storage means”                      12 ‘705: 1, 2</p> <p>13 “storage means...for storing                      14 said digital time compressed                      15 representation...”                      16 ‘705: 1.</p>	<p>17 “storage means” –Not subject to §112                      ¶6, and no construction necessary.                      Alternatively, “a medium in which data                      is retained for subsequent retrieval”</p> <p>18 Although Burst does not believe                      “storage means” is subject to § 112 ¶6,                      Burst provides the following description                      of the corresponding structure if the                      terms were interpreted as subject to §                      112 ¶6.</p> <p>19 “storage means” – Corresponding                      structure: DRAM, SRAM, CMOS,                      magnetic disk, or optical disk memories,                      plus equivalents.</p>	<p>20 ‘705 PATENT:                      “storage means...for storing said digital                      time compressed representation...” -                      Limited to structures disclosed under §112                      ¶6: DRAM, SRAM, CMOS memory,                      optical disc memory, bubble memory,                      magnetic disk, or digital paper.</p>

21 The term “storage means” appears in claims 1 and 2 of the ‘705 Patent. It provides  
 22 storage of the digital time compressed representation. It is not subject to Paragraph 6 because  
 23 one of ordinary skill in the art in 1988 would have had no difficulty identifying the class of  
 24 structures connoted by the term “storage” that could perform the function of storing the digital  
 25 time compressed representation in memory. *See* Hemami Report at 45 (Exhibit 5). In other  
 26 words, the term “storage” represents a group or family of structures that is sufficient to preclude  
 27  
 28

1 the application of Paragraph 6. *See Linear Tech.*, 379 F.3d at 1322; *Personalized Media*, 161  
2 F.3d at 704-05.

3 Moreover, as is true of “random access storage means,” the claim limitations that include  
4 “storage means” reveal its treatment as structure. An exemplary limitation reads: “storage  
5 [means], coupled to said compression means, for storing said digital time compressed  
6 representation ....” ‘705 claim 1 (brackets added around term “means”). With or without the  
7 term “means” included, this limitation has exactly the same meaning. The word “means” is  
8 again merely perfunctory. In addition, the limitation plainly treats “storage” as structure by  
9 giving it a particular location, “coupled to” the compression means. *See Cole*, 102 F.3d at 531.  
10  
11

12 Technical dictionary definitions also demonstrate that the term “storage” connotes  
13 sufficient structure to one skilled in the art. For example, the IEEE STANDARD DICTIONARY OF  
14 ELECTRICAL AND ELECTRONIC TERMS 956 (4th ed. 1988) defines storage as “any device in which  
15 information can be stored, sometimes called a memory device.” (Exhibit 16). This definition  
16 matches the use in the patent claims and shows that the word “storage” had a generally  
17 understood meaning to those skilled in the art. *See Greenberg v. Ethicon Endo-Surgery, Inc.*, 91  
18 F.3d 1580, 1583 (Fed. Cir. 1996) (dictionaries are proper aids in determining whether a term  
19 “denotes a type of device with a generally understood meaning in the [relevant art]” precluding  
20 application of Paragraph 6). The term “storage means” is not subject to Paragraph 6.  
21  
22

23 Nor does “storage means” require construction by the Court. As noted above, the term  
24 has a straightforward meaning to those skilled in the art. The same is true for the ordinary juror  
25 or layperson. In the context of the Burst patents, a layperson would understand “storage” to have  
26 its common meaning. As defined by one general purpose dictionary, “storage” is “[t]he part of a  
27 computer that stores information for subsequent use or retrieval.” AM. HERITAGE DICTIONARY  
28

1 1201 (2d College ed. 1982) (Exhibit 17). The Court need not construe a term whose meaning  
2 within a patent claim is the same as the term's ordinary meaning. *See Biotec Biologische*  
3 *Naturverpackungen GmbH & Co. KG v. Biocorp, Inc.*, 249 F.3d 1341, 1349 (Fed. Cir. 2001)  
4 (district court did not err in declining to construe the term "melting" because its meaning in the  
5 patent claim did not "depart from its ordinary meaning").  
6

7 If the Court concludes that it must construe "storage means," it should adopt Burst's  
8 construction: "a medium in which data is retained for subsequent retrieval." That construction is  
9 directly supported by the claims themselves, which describe the process of storing data (the  
10 digital time compressed representation) in the storage means and then retrieving it for purposes  
11 of transmission ('705 Patent, claim 1) and/or editing and re-storing ('705 Patent, claim 2).  
12

13 The specification amply supports this construction. The specification identifies storage  
14 as "intermediate" in that data is stored and then retrieved for additional purposes, such as  
15 conversion between analog and digital forms of audio/video source information. *See* '995  
16 Patent, Abstract, 2:13-17; '839 Patent, Abstract. In addition, there are numerous examples in the  
17 specification in which data is placed in storage and then subsequently retrieved for copying to  
18 other media or for editing, transmission, and/or viewing. *See* '995 Patent, 9:12-26; 9:33-38,  
19 9:55-62, 10:1-5, 10:10-13; '839, 8:30-33, 9:65-10:6; 11:28-35; 11:66-12:4; 12:23-27; 12:38-40.  
20 The definitions of "storage" from technical and lay dictionaries cited above are fully consistent  
21 with this usage of the term in the claims and specification.  
22

23  
24 Finally, if the Court were to find that the term "storage means" is subject to Paragraph 6,  
25 Burst would identify the corresponding structure as: "DRAM, SRAM, CMOS, magnetic disk, or  
26 optical disk memories, plus equivalents." All of these forms of memory are structures disclosed  
27 in the specification. *See* '995 Patent, Fig. 2; 6:8-19; *see also* '995 Patent, 5:38-40 (DRAM and  
28



1 SRAM); ‘995 Patent, 3:59-4:16 (optical disc memories); ‘705 Patent, 6:24-26 (magnetic disks).  
 2 All perform the stated function of storing the digital time compressed representation. Apple’s  
 3 identification of corresponding structure for “storage means,” like its identification of structure  
 4 for “random access storage means,” is inadequate because it fails to identify “equivalents.”

5  
 6 Burst will provide further explanation of its alternative construction under Paragraph 6, if  
 7 necessary, in its reply brief.

8 **5. “recording ... onto a removable recording medium”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>9                      10 “recording ... onto a                      11 removable recording                      12 medium”                      ‘839: 44, 45, 47, 48, 49, 50.</p>	<p>13                      “recording ... onto a removable                      recording medium” – Not subject to §112                      ¶6, and no construction required.                      Alternatively, “copying on a storage                      medium that can be removed”</p>	<p>“recording ... onto a removable                      recording medium” - Limited to                      structures disclosed under §112 ¶6:                      removable magnetic tape, removable                      magnetic disk, removable WORM optical                      disk, or removable erasable optical disk.</p>

14 Several asserted method claims in the ‘839 Patent include the term “recording ... onto a  
 15 removable recording medium.” These dependent claims all recite “the step of” recording various  
 16 versions of time compressed representations of audio/video source information onto removable  
 17 recording media. See ‘839 Patent, claims 44, 45, 47, 48, 49, and 50. Apple has taken the  
 18 position that this phrase is subject to Paragraph 6 as a “step-plus-function” claim. Apple’s  
 19 position is wholly unsupported.  
 20

21 First, the language of the “recording” limitation in these claims gives rise to a  
 22 presumption that Paragraph 6 does not apply. The drafter of a patent claim invokes a  
 23 presumption that Paragraph 6 applies to a method claim only by using the language “step *for*” to  
 24 describe a step in the method. *Masco Corp. v. United States*, 303 F.3d 1316, 1327 (Fed. Cir.  
 25 2002). Where the drafter has instead used the language “step *of*” within a claim limitation, as is  
 26 true of the “recording” limitation in the claims of the ‘839 Patent, it is presumed that the  
 27 limitation is not subject to Paragraph 6. *Cardiac Pacemakers, Inc. v. St. Jude Medical, Inc.*, 381  
 28

1 F.3d 1371, 1382 (Fed. Cir. 2004). Apple, therefore, must overcome the presumption that  
2 Paragraph 6 does not apply to this term.

3 Apple cannot sustain its burden and overcome this presumption. The requirement Apple  
4 must meet to prove that Paragraph 6 applies to a method claim limitation that lacks the “step for”  
5 language is as follows: “[W]here a method claim does not contain the term ‘step[s] for,’ a  
6 limitation of that claim cannot be construed as a step-plus-function limitation without a showing  
7 that the limitation contains no act.” *Masco*, 303 F.3d at 1327. Thus, Apple must show that the  
8 claim limitation “recording ... the time compressed representation onto a removable recording  
9 medium” contains no act. This Apple cannot do. The claim language clearly includes the act of  
10 recording. The underlying function of the limitation in these method claims is to make a “hard”  
11 copy of the time compressed representation, *i.e.*, to copy it onto other media. *See* ‘839 Patent,  
12 8:30-33 (“After downloading, ... a hard copy of the program may be made on magnetic tape,  
13 optical disk, etc.”), 9:64-10:9 (describing how user can download a stored program onto  
14 recording media, thereby providing “a hard copy of the program in digital format” for archiving  
15 or later viewing or use), 10:60-61 (“A hard copy of the program may also be made for later  
16 viewing.”). It is the act of “recording ... onto a removable recording medium” that accomplishes  
17 this function of creating a hard copy. Because the “recording” claim limitations all include an  
18 act, Paragraph 6 cannot apply to them. *See Masco*, 303 F.3d at 1327.

19 Burst’s position is that the phrase “recording ... onto a removable recording medium”  
20 does not require construction by the Court, because an ordinary layperson or juror would  
21 understand it to mean recording onto a tape, disk, or other medium that could be removed from  
22 the device. If the Court decides that the term needs construction, however, Burst proposes the  
23 following construction: “copying on a storage medium that can be removed.” This construction  
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25  
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1 is supported by the series of ‘839 claims that use the phrase, claims 44, 45, 47, 48, 49, and 50.  
2 Each of these claims includes the step of recording the time compressed representation – or the  
3 stored, edited, or selectively decompressed time compressed representation – onto a removable  
4 recording medium. As noted below with respect to the construction of “recording means,” the  
5 specification identifies several different types of removable recording media that can be inserted  
6 into the recording or copying device and then removed: magnetic tape, WORM disks, and  
7 erasable optical disks. *See* ‘995 Patent, 3:31, 3:38-45, 3:58-4:16, 9:4-30.  
8

9  
10 Moreover, the specification uses the term “copying” to refer to recording. In addition to  
11 the passages cited above regarding the creation of “hard” copies of programs, the specification  
12 states that “[w]hen it is desired to copy a program from one recording media to another, the  
13 recording media holding the desired program is installed in the AVRU.” ‘995 Patent, 9:4-6.  
14 Then, once that program has been stored in memory, “the recording media from which the stored  
15 program has just been read is replaced by blank recording media upon which the stored program  
16 is to be copied.” ‘995 Patent, 9:18-22. Similarly, the specification highlights the invention’s  
17 capability to transfer or copy an audio/video program from one magnetic tape or other storage  
18 medium to another. *See* ‘995 Patent, 1:30-33 (VCRs ordinarily lack “capabilities for copying  
19 recorded programs from one tape or alternative storage medium to a similar or dissimilar storage  
20 medium”); 2:4-7 (invention includes transferring program from one storage medium to another);  
21 2:13-17 (same).  
22  
23

24 These passages all demonstrate that “recording ... onto a removable recording medium”  
25 means copying onto a storage medium that can be inserted into and then removed from the  
26 recording device. They are further supported by two pieces of extrinsic evidence. First, the  
27 MODERN DICTIONARY OF ELECTRONICS 834 (6th ed. 1984) defines “record” to mean “the process  
28

1 of putting data into a computer storage device.” (Exhibit 17). Second, those of ordinary skill in  
2 the art would understand that “recording” means copying onto some type of media and that  
3 “removable recording media” means media that can be inserted into and removed from the  
4 recording device. *See* Hemami Report at 60 (Exhibit 5).

5  
6 Apple’s construction – that the phrase is limited to the structures of removable magnetic  
7 tape, magnetic disk, WORM optical disk, or erasable optical disk – is based on application of  
8 Paragraph 6 and thus limits the claims to particular embodiments. Such limitations are not  
9 appropriate when Paragraph 6 does not apply, because particular embodiments appearing in the  
10 specification must not be read into the claims when the claim language is broader than the  
11 disclosed embodiments. *Electro Med Sys., S.A. v. Cooper Life Scis., Inc.*, 34 F.3d 1048, 1054  
12 (Fed. Cir. 1994); *see also Amgen, Inc. v. Hoechst Marion Roussel, Inc.*, 314 F.3d 1313, 1328  
13 (Fed. Cir. 2003) (courts may not incorporate into claims the unclaimed attributes of preferred  
14 embodiments described in the specification). Apple’s construction violates this important  
15 principle of claim construction and must be rejected.  
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18 Burst will provide further explanation of its alternative construction under Paragraph 6, if  
19 necessary, in its reply brief.  
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6. “input means”

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>“input means”                      ‘995: 1, 15, 16, 17                      ‘932: 4;                      ‘705: 1.</p> <p>“input means for receiving audio/video source information”                      ‘995: 1;                      ‘932: 4;                      ‘705: 1.</p> <p>“input means for receiving audio/video source information as a time compressed representation thereof...”                      ‘995: 17.</p>	<p>“input means” - Not subject to §112 ¶6: “an input port or terminal capable of receiving information”</p> <p>Although Burst does not believe “input means” is subject to § 112 ¶6, Burst provides the following description of the corresponding structure if the terms were interpreted as subject to § 112 ¶6.</p> <p><b>‘995 Patent</b>                      “input means for receiving audio/video source information” – Corresponding structure: video line or camera input line, TV RF tuner, auxiliary digital input port, fiber optic input/output port, audio/video transmitter/receiver, or microwave satellite transceiver, plus equivalents.</p> <p><b>“input means for receiving audio/video source information as a time compressed representation thereof...”</b> – Corresponding structure: auxiliary digital input port, fiber optic port, or microwave satellite transceiver, plus equivalents.</p> <p><b>‘932 and ‘705 Patents</b>                      “input means for receiving audio/video source information” – Corresponding structure: video line or camera input line, TV RF tuner, auxiliary digital input port, fiber optic input/output port, audio/video transmitter/receiver, or microwave transceiver, plus equivalents.</p>	<p>‘995 PATENT:  <b>“input means for receiving audio/visual source information”</b> - Limited to structures disclosed under §112 ¶6: video line or camera input line 15, TV RF tuner 16, auxiliary digital input port 17, or fiber optic port 18.</p>

Although “input means” includes the word “means,” thus giving rise to a presumption that “input means” is a means-plus-function claim subject to Paragraph 6, that presumption is rebutted because an “input” conveys sufficient structure to one of ordinary skill in the art to perform the claimed function. As discussed above, the “perfunctory addition” of the word “means” to a claim that otherwise recites sufficient structure will not subject that claim to Paragraph 6. *Cole*, 102 F.3d at 531. The perfunctory nature of the word “means” in the term

1 “input means” is apparent when the claim language is read with the word “means” omitted:  
2 “input [] for receiving audio/video source information” or “input [] for receiving audio/video  
3 source information as a time compressed representation thereof.” Accordingly, Burst proposes  
4 that “input means” be construed as “an input port or terminal capable of receiving information.”  
5

6 The focus of the inquiry in determining whether a claim is subject to Paragraph 6 is the  
7 understanding of a person of ordinary skill in the art. *See Cole*, 102 F.3d at 531; *Allen Eng’g*  
8 *Corp. v. Bartell Indus., Inc.*, 299 F.3d 1336, 1348 (Fed. Cir. 2002). To such a person, an “input”  
9 is a structure. *See Hemami Report* at 29-30 (Exhibit 5). In fact, an “input” would be a known  
10 structure to many laypeople. Most modern electronic devices, such as computers, televisions,  
11 and VCRs, are equipped with many “inputs” and “outputs” – perhaps too many, as anybody who  
12 has ever attempted to set up a home entertainment system will understand. For example, there is  
13 likely an input on the back of a television for receiving the cable television signal. Similarly,  
14 there is likely an audio input on the back of a stereo surround-sound system for receiving the  
15 television audio signal. In each of the above examples, the input is structure—a physical port or  
16 terminal.  
17

18  
19 Additionally, the functions of “receiving audio/video source information” and “receiving  
20 audio/video source information as a time compressed representation thereof” clarify the type of  
21 input covered – one that can receive audio/video information. The claims further specify the  
22 location of the “input means” in the Burst apparatus as being connected to the “compression  
23 means.” *See, e.g.*, ‘995 Patent, claim 1 (describing the “compression means, coupled to said  
24 input means”). Descriptions of location are a further indication that a claim term is structural in  
25 nature. *See Cole*, 102 F.3d at 531; *Cellnet Data Sys., Inc. v. Itron, Inc.*, 17 F.Supp.2d 1100, 1107  
26 (N.D. Cal. 1998) (Infante, J.).  
27  
28

1 Dr. Hemami explained in her report that an “input” “connotes a physical port or terminal  
2 on a device through which information is received” and would be understood as such by a person  
3 of ordinary skill in the art. Hemami Report at 29-30 (Exhibit 5). Technical dictionaries that  
4 were standard in the field at the relevant time frame also confirm that an “input” is structure.  
5  
6 *See, e.g.*, IEEE STANDARD DICTIONARY OF ELECTRICAL AND ELECTRONIC TERMS 474 (4th ed.  
7 1988) (“The device or collection of devices used for bringing data into another device.”) (Exhibit  
8 16); GRAF, MODERN DICTIONARY OF ELECTRONICS 495 (6th ed. 1984) (“The terminals, jack, or  
9 receptacle provided for the introduction of an electrical signal or electric power into a device or  
10 system.”) (Exhibit 17). *See Cole*, 102 F.3d at 531 (construing “perforation” in “perforation  
11 means” to recite sufficient structure based in part on dictionary definition). The same is further  
12 demonstrated by Figure 2 of the Burst patents, which refers to the various “inputs” and the  
13 “input/output port” on the Burst transceiver interchangeably. All of the above demonstrates that  
14 an “input” is structure.  
15

16  
17 The specific input structure is further clarified by the remainder of the claim language,  
18 which requires an “input means” capable of “receiving audio/video source information” or  
19 “receiving audio/video source information as a time compressed representation.” This language  
20 limits the types of inputs that fall within the scope of the claims. Not just any input will suffice  
21 to perform the stated function. It must be capable of receiving audio/video source information,  
22 which “can be in either analog or digital form.” Hemami Report at 29 (Exhibit 5). This limiting  
23 language excludes inputs that, for example, receive only data that is neither audio nor video, such  
24 as a mouse input or keyboard input.  
25

26  
27 Apple’s proposed construction treats “input means” as subject to Paragraph 6. Notably,  
28 however, Apple’s expert, Mr. Halpern, agrees with Burst that an “input” is structure. *See, e.g.*,

1 Halpern Report at 23 (citing technical dictionary defining “input/output device” as “A unit that  
2 accepts new data, sends it into the computer for processing...”(emphasis added)) (Exhibit 6); *id.*  
3 (“The phrase ‘input means for receiving audio/visual source information’ does not connote a  
4 particular structure.” (emphasis added)); *id.* (“The fact that ‘input’ is essentially generic and  
5 lacking in definite structure is shown in technical dictionaries.” (emphasis added)). Mr.  
6 Halpern’s main objection is not that “input” lacks structure, but that “input” is not sufficiently  
7 precise. Mr. Halpern’s precision requirement, however, must be tempered by the understanding  
8 of one of skill in the art. *See Allen Eng’g*, 299 F.3d at 1348 (concluding that “crank means,”  
9 “fork means,” and “cable means,” *inter alia*, all recited sufficient structure to rebut the  
10 presumption that § 112, ¶ 6 applied because they “recite precise structure well understood by  
11 those of skill in the art”). Dr. Hemami has opined that the term is sufficiently precise to one of  
12 skill in the art. *See Hemami Report* at 29-30 (Exhibit 5).

13  
14  
15 To the extent the Court disagrees with Burst and finds that Paragraph 6 applies to “input  
16 means,” Burst will offer the following identifications of corresponding structure, based on the  
17 patent specifications’ description of a variety of specific inputs that can be used:  
18

19 **‘995 Patent (“input means for receiving audio/video source information”):** a  
20 video line or camera input line, a TV RF tuner, an auxiliary digital input port, a  
21 fiber optic input/output port, an audio/video transmitter/receiver, or a microwave  
22 satellite transceiver.

23 **‘995 Patent (“input means for receiving audio/video source information as a  
24 time compressed representation”):** an auxiliary digital input port, a fiber optic  
25 port, or a microwave satellite transceiver.

26 **‘932 and ‘705 Patents (“input means for receiving audio/video source  
27 information”):** a video line or camera input line, a TV RF tuner, an auxiliary  
28 digital input port, a fiber optic input/output port, an audio/video  
transmitter/receiver, or a microwave transceiver.



As explained above, Burst does not believe that “input means” is subject to Paragraph 6. Accordingly, it will provide further explanation of its alternative construction under Paragraph 6, should that be necessary, in its reply brief.

**7. “output means”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p><b>“output means”</b>                      ‘995: 1, 2, 17;                      ‘932: 4.</p> <p><b>“output means...for receiving... [and] for transmission away from said audio/video transceiver apparatus”</b>                      ‘995: 1, 2, 17.                      ‘932: 4</p>	<p><b>“output means”</b> - Not subject to §112 ¶6: “an output port or terminal capable of transmitting information”</p> <p>Although Burst does not believe “output means” is subject to § 112 ¶6, Burst provides the following description of the corresponding structure if the terms were interpreted as subject to § 112 ¶6.</p> <p><b>‘995 Patent</b>  <b>“output means”</b> – Corresponding structure: fiber optic input/output port, auxiliary digital port, or microwave satellite transceiver, plus equivalents.</p> <p><b>‘932 Patent</b>  <b>“output means”</b> – Corresponding structure: fiber optic input/output port, auxiliary digital port, or microwave transceiver, plus equivalents.</p>	<p>‘995 PATENT:  <b>“output means...for receiving...for transmission away from said audio/video transceiver apparatus”</b> - Limited to structures disclosed under §112 ¶6: fiber optic port 18 that delivers audio/video signals to a fiber optic telephone line.</p> <p>‘932 PATENT:  <b>“output means...for receiving... [and] for transmission away from said audio/video transceiver apparatus”</b> - Limited to structures disclosed under §112 ¶6: point-to-point microwave transceiver, or satellite transceiver.</p>

Like “input means,” the term “output means” is subject to a presumption that Paragraph 6 applies, but the presumption is rebutted because an “output” denotes sufficient structure to one of skill in the art to perform the claimed function. *See Cole*, 102 F.3d at 531. Once again, the word “means” in “output means” is perfunctory, and does “nothing to diminish the precise structural character of this element.” *Id.* Burst proposes that “output means” be construed as “an output port or terminal capable of transmitting information.”

When construing claims, the focus should always remain on the understanding of a person of ordinary skill in the art. *Phillips*, 415 F.3d at 1313. The same is true when

1 determining whether a patentee intended to invoke Paragraph 6 by including “means” in the  
2 claim language of his patent. *Allen Eng’g*, 299 F.3d at 1348. Here, one of ordinary skill in the  
3 art would understand an “output” to be “a physical port or terminal on the claimed transceiver  
4 that receives information to be transmitted away from the device.” Hemami Report at 46  
5 (Exhibit 5).  
6

7 The claims of the Burst patents support interpreting an “output” as structure. The claims  
8 specify that the “output means” is connected to the “random access storage means,” thus  
9 providing its location and further indicating that the term is intended to be structural. *See, e.g.*,  
10 ‘995 Patent, claim 1; *Cole*, 102 F.3d at 531. The claim language “for receiving the time  
11 compressed audio/video source information ... for transmission away” would “indicate to one of  
12 ordinary skill that the output signal is digital,” which further describes the class of output  
13 structures. Hemami Report at 46 (Exhibit 5). Also, as was true for “inputs,” many laypersons  
14 would understand an “output” to be structure. In the aforementioned example of a home  
15 entertainment system, the “inputs” on one component of the system will most likely come from  
16 an “output” from another component of the system.  
17

18 Technical dictionaries in the field also demonstrate that “output” is a term of structure.  
19 *See* IEEE STANDARD DICTIONARY OF ELECTRICAL AND ELECTRONIC TERMS 655 (4th ed. 1988)  
20 (“the device or collective set of devices used for taking data out of a device”) (Exhibit 16);  
21 MODERN DICTIONARY OF ELECTRONICS 698 (6th ed. 1984) (“the terminals or other places where  
22 the circuit or device may deliver the current, voltage, power, or driving force”) (Exhibit 17). The  
23 claims would suffer no loss of clarity if the word “means” were removed. *See, e.g.*, ‘995 Patent,  
24 Claim 1 (“output [], coupled to said random access storage means, for receiving the time  
25 compressed audio/video source information”).  
26  
27  
28

1 Once again, Apple’s expert, Mr. Halpern, does not disagree that an “output” is structure.  
 2 See Halpern Report at 38 (“A ‘unit’ is even more generic than ‘output’ – the definition confirms  
 3 that an [output] device is a ‘unit’ that performs the function of outputting data” (citing the  
 4 MCGRAW-HILL DICTIONARY OF SCIENTIFIC AND TECHNICAL TERMS (4th ed. 1989))) (Exhibit 6).  
 5 The dispute, therefore, reduces to whether “output” sufficiently denotes structure to one skilled  
 6 in the art. The description provided by the claims requires a digital output, which limits the  
 7 claims to the discrete selection of outputs available at the time for transmitting digital signals.  
 8 See Hemami Report at 46-47 (Exhibit 5). This refutes Mr. Halpern’s statements that more detail  
 9 is necessary for one of ordinary skill in the art to understand the possible outputs.  
 10  
 11

12 To the extent the Court disagrees with Burst and finds that Paragraph 6 applies, Burst  
 13 would propose the following identifications of the specific structures corresponding to the  
 14 “output means” in the various patents for the various claim functions:

15 **‘995 Patent:** a fiber optic input/output port, an auxiliary digital port, or a  
 16 microwave satellite transceiver.

17 **‘932 Patent:** a fiber optic input/output port, an auxiliary digital port, or a  
 18 microwave transceiver.

19 As explained above, Burst does not believe that “output means” is subject to Paragraph 6.  
 20 Accordingly, it will provide further explanation of its alternative construction under Paragraph 6,  
 21 should that be necessary, in its reply brief.  
 22

23 **V. REMAINING DISPUTED TERMS**

24 **A. Media Terms**

25 **1. “audio/visual source information” & “audio/video source information”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<i>“audio/visual source information” or “audio/video source information”</i>	<b>“audio/video source information”</b> and <b>“audio/visual source information”</b> - “an audio and/or video work that can be received from one or more sources and	<b>“audio/video”</b> - agreed construction  <b>“audio/video source information”</b> - the entirety of the data intended to be

CLAIM TERMS	BURST'S CONSTRUCTION	APPLE'S CONSTRUCTION
<p>'995: 1, 2, 3, 8, 9, 15, 16, 17, 19, 20, 21, 22; 23, 24, 25, 26, 27, 28, 44, 47, 51, 52, 80;            '839: 1, 2, 3, 7, 8, 9, 15, 16, 17, 19, 20, 21 22, 23, 26, 27, 28, 44, 45, 46, 47, 48, 49, 50, 51, 52, 58, 59, 73, 76, 77;            '705: 1, 2, 3, 12, 13, 21;            '932: 4.</p>	<p>that has a temporal dimension"</p>	<p>transmitted, not segments of that data.</p>

The parties agree that "audio/video" and "audio/visual" mean "audio and/or video." *See* List of Agreed Terms (Exhibit 19). With respect to the full phrase that includes "source information," Burst's construction flows directly from the claim language and the specification of the patents-in-suit. The terms "audio/video source information" and "audio/visual source information" are used throughout the claims of the Burst patent claims. Although the wording in the terms varies slightly, that variation does not result in any meaningful distinction between the terms' constructions.<sup>9</sup> The claimed devices all focus on the handling and manipulation of the "audio/video source information," including "receiving," "compressing," "storing," and "transmitting." Claim 1 of the '995 Patent is representative of the use of "audio/video source information" in the claims of the Burst patents:

An audio/video transceiver apparatus comprising:

input means for receiving **audio/visual source information**;

compression means, coupled to said input means, for compressing said **audio/video source information** into a time compressed representation thereof having an associated time period that is shorter than a time period associated with a real time representation of said **audio/video source information**;

random access storage means, coupled to said compression means, for storing the time compressed representation of said **audio/video source information**; and

<sup>9</sup> All but a few of the claims use the term "audio/video source information." In the interest of brevity, therefore, "audio/video source information" will be used to refer to both terms.

1 output means, coupled to said random access storage means, for receiving the  
2 time compressed **audio/video source information** stored in said random access  
3 storage means for transmission away from said audio/video transceiver apparatus.

4 The specifications of the Burst patents provide additional insight into the meaning of  
5 “audio/video source information.” For example, the specifications explain that the term may  
6 refer to audio material, video material, or some combination of both audio and video. *See* ‘995  
7 Patent, 1:6-18, 1:40-62, 2:1-7, 2:18-22, 5:28-32, 7:1-8:2 (audio and video); ‘995 Patent, 9:48-49  
8 (video only); ‘995 Patent, 10:37-41 (audio only); *see also* Hemami Report at 27 (Exhibit 5). The  
9 specification often uses the shorthand term “program” to refer to audio/video source information,  
10 encompassing “movies and other types of video materials, whether broadcast from a TV station  
11 or another source.” ‘995 Patent, 1:14-18. The specification further explains that any discussion  
12 of “programs” contained in the Burst patents also applies to “signals containing only audio  
13 material.” *Id.* at 10:37-41. The audio/video source information can come from any of several  
14 different sources, which justifies the inclusion of the language “received from one or more  
15 sources” in Burst’s proposed construction. *See* ‘995 Patent, 7:1-8:2 (describing various inputs  
16 for audio/video source information); *see also* *Amendment “A”*, ‘995 *PH* at 18, 20 (March 12,  
17 1990) (transceiver can receive audio/video source information from a variety of sources) (Exhibit  
18 9).

19  
20  
21  
22 Burst has included the term “work” in its proposed construction to identify the wide  
23 variety of audio/video source information described in the specifications. A “work” is  
24 “something produced by the exercise of creative talent or expenditure of creative effort.” *See*  
25 WEBSTER’S NEW COLLEGIATE DICTIONARY 1340 (1981) (Exhibit 18); Hemami Report at 28  
26 (Exhibit 5). The term “work” accurately captures the specifications’ description of television  
27 programs, movies, and audio signals described as audio/video source information. *Id.*  
28

1 Furthermore, each kind of work mentioned in the Burst Patents has a “temporal  
2 dimension.” The claims themselves make this clear by requiring a “time compressed  
3 representation ... that is shorter than a time period associated with a real time representation of  
4 said audio/video source information.” *See, e.g.*, ‘995 Patent, claim 1. Works that do not have an  
5 inherent temporal dimension, such as photographs or texts, could not be compressed into the  
6 time compressed representation required by the claims because they have no “time period  
7 associated with a real time representation.”  
8

9  
10 Importantly, both parties’ experts have recognized that the claimed audio/video source  
11 information has a length or duration. For example, Dr. Hemami opines that “[i]t would be  
12 apparent to one of ordinary skill that [the claimed source information] naturally has some  
13 ‘length’ or duration.” Hemami Report at 27 (Exhibit 5). Apple’s expert agreed at his deposition  
14 that the claimed audio/video source information has a “duration” and/or “length.” Halpern Dep.  
15 at 106:6-107:5 (Exhibit 8). Duration and length, of course, refer to a temporal dimension. The  
16 prosecution history evidence also lends support for Burst’s construction requiring a temporal  
17 dimension. *See Amendment and Response, ‘705 PH*, at 15-16 (June 1, 1998) (referring to the  
18 claimed audio/video source information as having “an inherent temporal element” or “a temporal  
19 dimension”) (Exhibit 13).  
20

21  
22 Apple’s proposed construction is flawed for multiple reasons. First, Apple seeks to graft  
23 an unnecessary limitation – “the entirety of the data” – on the term “audio/video source  
24 information” that is not present in the claims or suggested in the specification. Its inclusion  
25 would only create confusion in what is otherwise a straightforward claim term. Second, Apple’s  
26 construction introduces a subjective intent component to the claim – “the entirety of the data  
27 intended to be transmitted” – that requires the resolution of what audio/video source information  
28

1 a user *intended* to transmit before infringement can be determined. Apple suggests through its  
 2 expert that the order of claim limitations and the specifications’ reference to “programs” (which,  
 3 as explained above, Burst has defined as “works”) somehow supports its subjective intent  
 4 requirement. *See* Halpern Report at 5-7 (Exhibit 6). Despite these suggestions, however, it is  
 5 completely unclear why Apple’s reasoning leads in any way to a requirement of assessing what  
 6 the user intended.  
 7

8 Rather than introduce Apple’s subjective intent requirement into the claims, Burst  
 9 respectfully requests the Court to construe “audio/video source information” in the manner  
 10 supported by the intrinsic evidence: “an audio and/or video work that can be received from one  
 11 or more sources and that has a temporal dimension.”  
 12

13 **2. “multiplicity” & “multiplicity of video frames in the form of one or more full**  
 14 **motion video programs”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>16 <i>“multiplicity”</i>                      17 ‘995: 19;                      18 ‘839: 19, 73, 76, 77;                      ‘932: 4;                      ‘705: 1, 12, 21.</p>	<p>16 <b>“multiplicity”</b> – No construction                      necessary. Alternatively, “a large                      number”</p>	<p>16 <b>“multiplicity”</b> - two or more; usually a                      fairly large number.</p>
<p>19 <i>“multiplicity of video frames</i>                      20 <i>in the form of one or more</i>                      21 <i>full motion video programs”</i>                      ‘839: 73, 76, 77;                      ‘932: 4.</p> <p>22 <i>“multiplicity of video frames</i>                      23 <i>collectively [representing /</i>                      24 <i>constituting] at least one full</i>                      25 <i>motion video program”</i>                      ‘705: 1, 12, 21.</p> <p>26 <i>“video frames”</i>                      ‘839: 73, 76, 77.</p> <p>27 <i>“[at least one] full motion</i>                      28 <i>video program”</i></p>	<p>19 <b>“multiplicity of video frames in the</b>                      20 <b>form of one or more full motion video</b>                      21 <b>programs”</b> – No construction                      necessary. Alternatively, “movies and                      other video materials represented by                      multiple images in a temporal sequence                      and providing the sense of motion when                      viewed sequentially”</p>	<p>19 <b>“multiplicity”</b> - see above</p> <p>20 <b>“video frames”</b> - individual images                      intended to be displayed in sequence.</p> <p>21 <b>“[at least one] full motion video</b>                      22 <b>program”</b> - an entire audio/video                      23 program made of video frames that are                      24 displayed in sequence to make a moving                      25 picture.</p>

CLAIM TERMS	BURST'S CONSTRUCTION	APPLE'S CONSTRUCTION
'839: 73, 76, 77.		

None of these terms require construction as they would all be easily understood by a person skilled in the art and would similarly be understood by most laypeople. *See Phillips*, 415 F.3d at 1314 (“In some cases, the ordinary meaning of claim language as understood by a person of skill in the art may be readily apparent even to lay judges, and claim construction in such cases involves little more than the application of the widely accepted meaning of commonly understood words.”). Because Apple has insisted that the terms be construed, however, Burst provides alternative constructions if the Court decides to construe them.

The ordinary meaning of the term “multiplicity,” reflected in common dictionaries, is “a large number.” AM. HERITAGE DICTIONARY 822 (2d College ed. 1982) (Exhibit 14); *see also* WEBSTER’S NEW COLLEGIATE DICTIONARY 750 (1981) (same) (Exhibit 18). The claims of the Burst patents use “multiplicity” in two separate contexts, but the meaning of the term in both contexts is consistent with its ordinary meaning. The first context is exemplified by ‘995 claim 19, where the term is used in connection with a “video library storing a multiplicity of items of audio/video source information.” The second context is demonstrated by claim 1 of the ‘705 Patent, which describes “a multiplicity of video frames collectively representing at least one full motion video program.”

In each context, the term “multiplicity” refers to a large number of items, whether they are video frames or items in a video library or video frames. Apple’s construction seeks to expand the definition of “multiplicity” to include “two or more.” A collection of two videos hardly qualifies as a video library. Similarly, two frames of video could not constitute a “full motion video program.” *See Hemami Report* at 61 (explaining that full motion video generally,



1 but not necessarily, includes 30 video frames per second) (Exhibit 5); *see also* '995 Patent, 4:53-  
2 54. As used in the Burst patents, the term “multiplicity” refers to “a large number” and should  
3 be construed consistent with this context.

4  
5 Apple has broken up the phrase “multiplicity of video frames in the form of one or more  
6 full motion video programs” into individual components for construction. Burst, however,  
7 asserts that the full phrase is a better candidate for construction, to the extent that it is construed  
8 at all, because it presents a better depiction of the claim requirements. Burst proposes that the  
9 term be construed as “movies and other video materials represented by multiple images in a  
10 temporal sequence and providing the sense of motion when viewed sequentially.” Unlike the  
11 discussion of the broader “audio/video source information” term above, the claim language here  
12 expressly limits itself to video programs. Accordingly, instead of “works,” Burst proposes  
13 “movies and other video materials.”  
14

15  
16 Video materials, such as movies and television broadcasts, include individual “video  
17 frames,” or images, that, when viewed in sequence, create the appearance of motion. Hemami  
18 Report at 12-13 (Exhibit 5). A simple illustration of the frame concept is provided by flip books  
19 ([http://en.wikipedia.org/wiki/Flip\\_book](http://en.wikipedia.org/wiki/Flip_book)), where each page of the book represents a “frame.” To  
20 effectively create the appearance of motion, each frame must appear in its appropriate temporal  
21 location. Frames viewed out of their proper temporal sequence will disrupt or even prevent the  
22 appearance of motion. They must be viewed sequentially to produce the sense of motion.  
23

24  
25 When read in its entirety, the full claim phrase makes clear that Apple’s proposed  
26 construction cannot be correct. The “multiplicity” discussed above refers to the number of video  
27 frames. These video frames, when taken together, create “one or more full motion video  
28 programs.” As Dr. Hemami explained in her report on claim construction, a full motion video

1 program is one that appears smooth and not jerky—in other words, it shows full motion.  
2 Hemami Report at 63 (Exhibit 5). Dr. Hemami also explained that full motion video typically  
3 consists of 30 frames per second. *Id.* at 61; ‘995 Patent, 4:53-54. The two frames permitted by  
4 Apple’s proposed construction could not create a “full motion video program.” Consequently,  
5 Apple’s proposed construction of “multiplicity,” when inserted into the claim language that  
6 surrounds it, simply does not make sense. Hemami Report at 63 (Exhibit 5).

8 As it did with “audio/video source information,” Apple has again inserted a subjective  
9 “intent” requirement into its construction. If adopted, Apple’s construction will require a jury to  
10 assess what was “intended” to be done with images before they are able to determine whether  
11 those images are video frames—an unnecessary exercise under the claim language that will  
12 likely result in confusion. Apple’s construction also seeks to introduce the same flawed  
13 “entirety” concept that it included in its construction of “audio/video source information.” If  
14 Apple derives this “entirety” requirement from the “full” in “full motion video program,” it  
15 misunderstands the use of that term. “Full” refers to “motion,” meaning that the video program  
16 is smooth and not jerky. Hemami Report at 63 (Exhibit 5). Furthermore, the “entirety”  
17 requirement suggested in Apple’s proposed constructions for both “audio/video source  
18 information” and “full motion video program” is inconsistent with its own proposed construction  
19 of “multiplicity,” which Apple suggests can include as few as two video frames. At 30 frames  
20 per second, two video frames hardly constitute an “entire audio/video program.”

24 Apple’s proposed constructions of “multiplicity” and the component terms of  
25 “multiplicity of video frames in the form of one or more full motion video programs” introduce  
26 confusion, are inconsistent with the claim language and specification of the Burst patents, and  
27  
28

1 even appear to contradict themselves. Accordingly, Burst respectfully requests that its proposed  
2 constructions be adopted.

### 3 **B. Compression Terms**

4 There are several disputed compression-related terms. Those terms fall into four groups:  
5 (i) “compressing”; (ii) “time compressed representation”; (iii) “compression means”; and (iv)  
6 “decompression means.” The parties agree that “compression means” and “decompression  
7 means” are means-plus-function terms subject to Paragraph 6. The terms “compressing” and  
8 “time compressed representation” form part of the “compression means” function, but also  
9 appear separately in method claims. Because the function of a means-plus-function term must be  
10 construed first, “compressing” and “time compressed representation” are discussed initially,  
11 followed by an identification of the structure corresponding to the means-plus-function terms.  
12  
13

#### 14 **1. Data Compression Versus Time Compression**

15 At the outset, it is important to understand that the parties have a basic, fundamental  
16 dispute regarding the type of compression covered by the Burst patent claims. Burst’s  
17 constructions follow from the fundamental fact that the compression recited in the patent claims  
18 is data compression, which is the type of compression described in detail in the patent  
19 specification. *See, e.g.*, ‘995 Patent, 2:46-51, 4:63-5:35. Apple wrongly contends that the  
20 claimed compression is what it refers to as “time compression,” which its expert contends is a  
21 term used “particularly in the context of time division multiplexing.”<sup>10</sup> Halpern Report at 8  
22 (Exhibit 6). Apple’s expert concedes that neither time compression nor time division  
23  
24  
25

---

26  
27 <sup>10</sup> Burst’s expert states that the claim term, “time compressed” did not have a single accepted  
28 meaning, and neither did the term “time compression.” Hemami Report at 42 (Exhibit 5). Dr. Hemami gives  
several examples of articles mentioning “time compression” and they use the term in widely varying ways. *Id.* at  
42-43. Dr. Hemami also states that none of these examples are “applicable to the Burst patents.” *Id.* at 43.

1 multiplexing is discussed in the Burst patent specification. *See* Halpern Dep. at 51:17-52:24;  
2 99:5-102:18, 165:13-166:17 (Exhibit 8).

3         The parties agree that data compression is the most commonly used type of compression.  
4 Halpern Dep. at 55:6-56:2; Halpern Report at 2 (Exhibit 6). In data compression, the number of  
5 bits required to represent audio and/or video information is reduced by, for example, encoding  
6 patterns and redundancies in the data with fewer bits. The compressed representation then can  
7 be stored in less space in memory and can be transmitted over a communication channel in less  
8 time than the uncompressed signal.  
9

10         According to Apple’s expert, time compression means “increasing the frequency of the  
11 underlying signal.” Halpern Report at 8 (Exhibit 6). Halpern says “the ordinary way” that this  
12 occurs is that signals “are stored in real time and then read out much faster than real time so that  
13 each can be transmitted in a fraction of the time it would take to play in real time.” *Id.* at 9.  
14 Apple’s expert believes that the concepts of data compression and time compression are  
15 “orthogonal” because “[d]ata compression reduces the number of ‘bits’ used to represent a  
16 particular signal [, whereas] time compression does not change the ‘bits’ themselves, only their  
17 time signature (*i.e.*, their frequency).” *Id.* at 8-9.  
18

19         The Court can resolve this fundamental dispute between the parties based on its review of  
20 the patent specification – the primary resource when construing claims. *Phillips*, 415 F.3d at  
21 1315. Consistent with Burst’s position, the patent specification describes only data compression  
22 and says nothing about the time compression and time-division multiplexing that lie at the heart  
23 of Apple’s construction theory. Given this intrinsic evidence support for data compression, and  
24 the lack of intrinsic support for time compression and time-division multiplexing, the choice  
25 between the parties’ respective positions resolves into a choice between construing the claims to  
26  
27  
28

1 cover the preferred embodiment as Burst proposes, or to exclude the preferred embodiment as  
 2 Apple advances. A proposed construction that excludes a preferred embodiment raises a red  
 3 flag, and normally will be rejected. “Such an interpretation is rarely, if ever, correct and would  
 4 require highly persuasive evidentiary support.” *Vitronics*, 90 F.3d at 1583. Apple cannot meet  
 5 its burden of providing “highly persuasive evidentiary support” for its compression term  
 6 positions.  
 7

8 **2. “compressing” terms**

9 An understanding of the word “compressing” is critical to a proper understanding of the  
 10 other disputed compression-related terms. There are two very similar “compressing” phrases:  
 11

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>13 <i>“compressing said</i>                      14 <i>audio/video source</i>                      15 <i>information”</i>                      ‘995: 1;                      ‘932: 4;                      ‘705: 1.</p>	<p>“compressing said audio/video source information” and related terms -                      “reducing the number of bits necessary to represent the audio/video source information”</p>	<p>Related: <b>“time compressed representation”</b> - a representation of the audio/video source information that is compressed in time without using data compression.</p>
<p>18 <i>“compressing the received</i>                      19 <i>audio/video source</i>                      20 <i>information”</i>                      ‘839: 1;                      ‘705: 12.</p>		
<p>21 <i>“compressing said received</i>                      22 <i>audio/video source</i>                      23 <i>information”</i>                      ‘839: 73, 76.</p>		

24 The latter terms, “compressing [the/said] received audio/video source information”  
 25 appear in independent claims 1, 73 and 76 of the ‘839 Patent, as well as independent claim 12 of  
 26 the ‘705 Patent, all of which are method claims. The first term, “compressing said audio/video  
 27 source information” appears in the function of the “compression means” limitations. The close  
 28

1 similarity between these terms dictates that they be construed consistently as “reducing the  
2 number of bits necessary to represent the audio/video information.”

3 The specification expressly states that two separate “objects” of the invention include  
4 data compression:

5  
6 A still further object of the invention is to provide an improved audio/video  
7 recorder which maximizes a given storage capacity, **through the use of a data**  
8 **compression technique.**

9 A still further object of the invention is to provide an audio/video recorder  
10 **utilizing a data compression technique** for efficient storage, transmission, and  
11 reception of a digitized audio/video program . . . .

12 ‘995 Patent, 2:42-51 (emphases added).

13 After twice describing data compression as an object of the invention, the patent  
14 specification further states that the compression techniques used in the preferred embodiment  
15 reduce the number of bits by performing data compression:

16 Compression of the digital data defining a video frame and the reverse process  
17 (decompression) are accomplished by compressor/decompressor **26**. Various  
18 algorithms may be employed in the compression process **which enable the**  
19 **representation of a series of numbers by a reduced number of digits.**

20 ‘995 Patent, 4:63-68 (emphasis added). The specification goes on to describe those “various  
21 algorithms” as data compression algorithms that reduce the number of bits. ‘995 Patent, 4:67-  
22 5:20. The specification then states:

23 [I]f no **data compression technique** is used, it would take approximately 51.03  
24 gigabytes to store a 2 hour movie, but using the above compression techniques, it  
25 is estimated that memory 13 will require only 250 megabytes.

26 ‘995 Patent, 5:20-24 (emphasis added).

27 It could not be clearer that the Burst patents disclose data compression to reduce the  
28 number of bits necessary to encode the audio/video information. Importantly, the detailed  
discussions regarding data compression in columns 4-5 of the patent specifications appear under

1 the “Preferred Embodiment” portion of the patent specifications. Accordingly, the preferred  
2 embodiment clearly employs data compression to allow the resulting compressed representation  
3 of the audio/video source information to be transmitted in less time and stored in less space than  
4 would be the case if the source information were uncompressed. *See, e.g.*, ‘995 Patent, 2:42-45;  
5 5:20-24; 7:58-60; 7:67-7:2.  
6

7         Given the specification’s clarity on the meaning of “compressing,” it is not surprising that  
8 Apple fails to offer a construction for these terms. Instead, Apple seeks a construction of “time  
9 compressed representation” – which the claims identify as the result of the compressing act.  
10 However, Apple’s construction of “time compressed representation” requires that compressing  
11 occur “without using data compression.” Thus, Apple effectively seeks a negative construction  
12 of “compressing” – one that excludes data compression, the only type of compression disclosed  
13 in the preferred embodiment.  
14

15         Apple’s attempt to define the act of “compressing” in the negative reflects a conscious  
16 decision to ignore the patent specification, in violation of the *en banc Phillips* decision. Apple’s  
17 own expert acknowledges in his report and deposition testimony that the only type of  
18 compression disclosed in the specification is data compression. *See Halpern Expert Report* at 13  
19 (“The specification’s only express discussion of compression is a discussion of ‘data  
20 compression.’”). Halpern Dep. at 51:11-52:2 (Exhibit 8). Despite admitting that the Burst  
21 patents disclose only data compression, Apple insists on a definition for “time compressed  
22 representation” that would require the “compressing” to occur without data compression. Such  
23 a contorted approach to claim construction – one that seeks to exclude the preferred embodiment  
24 – has been rejected by the Federal Circuit in key claim construction cases such as *Vitronics*, cited  
25 above.  
26  
27  
28

3. “time compressed representation”

There are eight phrases in the claims that contain the term “time compressed representation,” and they can be divided into four groups: (1) the time compressed representation “having an associated” time period; (2) the time compressed representation “being received over an associated” time period; (3) the time compressed representation “is capable of being transmitted” in a time period; and (4) the digital time compressed representation.<sup>11</sup> The chart below is organized to reflect these four different phraseologies. Despite the complexity of the chart, Burst’s proposed construction for the time compressed representation phrases can be summarized fairly simply, with the variations in brackets, as follows:

a [digital] version of audio/video source information having a reduced number of bits [that allows data transfer / that is received / being received] over an external communications link in a time period that is [substantially] shorter than the time required for normal playback.

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<b>“having” format</b>		
<p><i>“time compressed representation . . . having an associated time period that is shorter than a time period associated with a real time representation”</i>                      ‘995: 1, 8, 9;                      ‘932: 4.</p> <p><i>“time compressed representation . . . having an associated burst time period that is shorter than a time period associated with a real time representation”</i>                      ‘839: 1, 8, 9, 73, 76.</p>	<p><b>“time compressed representation . . . having an associated time period that is shorter than a time period associated with a real time representation”</b></p> <p><u>and</u></p> <p><b>“time compressed representation . . . having an associated burst time period that is shorter than a time period associated with a real time representation”</b> - “a version of audio/video source information having a reduced number of bits that allows data transfer over an external communications link in a time period that is shorter than the time required for</p>	<p><b>“time compressed representation”</b> - a representation of the audio/video source information that is compressed in time without using data compression.</p> <p><b>“having an associated time period”</b>                      AND</p> <p><b>“having an associated burst time period (that is shorter than a time period associated with a real time representation)”</b> - the time compressed representation has a burst transmission time of definite duration that is known at the time of compression to be shorter than the time required to play the source information in real time.</p>

<sup>11</sup> Two other variations occur in the claim language. First, the time period in some instances must be “substantially shorter” than the real time period. See, e.g., ‘705 Patent, claims 1, 12, 21. Second, the term “burst” is not included in all of the “associated” time period terms. ‘995 Patent, claim 1; ‘932 Patent, claim 4.



CLAIM TERMS	BURST'S CONSTRUCTION	APPLE'S CONSTRUCTION
	normal playback”	
<p><i>“digital time compressed representation . . . having an associated burst transmission time period that is substantially shorter than a time period associated with real time viewing”</i>  ‘705: 12.</p>	<p><b>“digital time compressed representation . . . having an associated burst transmission time period that is substantially shorter than a time period associated with real time viewing”</b> – “a digital version of audio/video source information having a reduced number of bits that allows data transfer over an external communications link in a time period that is substantially shorter than the time required for normal playback”</p>	<p><b>“digital”</b> - agreed construction</p> <p><b>“time compressed representation”</b> - see above.</p> <p><b>“having an associated burst time period”</b> - see above</p>
<b><u>“being received” format</u></b>		
<p><i>“time compressed representation . . . being received over an associated burst time period that is shorter than a real time period associated with real time playback”</i>  ‘839: 17.</p>	<p><b>“time compressed representation . . . being received over an associated burst time period that is shorter than a real time period associated with real time playback”</b> - “a version of audio/video source information having a reduced number of bits that is received over an external communications link in a time period that is shorter than the time required for normal playback”</p>	<p><b>“being received over an associated burst time period that is shorter than a real time period associated with real time playback”</b> – the time compressed representation is received in a burst time of definite duration that is shorter than the time required to play the source information in real time.</p>
<p><i>“time compressed digital representation . . . being received in an associated burst time period that is shorter than a time period associated with a real time representation”</i>  ‘839: 77.</p>	<p><b>“time compressed digital representation . . . being received in an associated burst time period that is shorter than a time period associated with a real time representation”</b> - “a digital version of audio/video source information having a reduced number of bits that is received over an external communications link in a time period that is shorter than the time required for normal playback”</p>	<p><b>“being received in an associated burst time period that is shorter than a time period with a real time representation”</b> - the time compressed representation is received in a burst time of definite duration that is shorter than the time required to play the source information in real time.</p>
<p><i>“time compressed representation . . . being received over an associated burst time period that is shorter than a real time period associated with said audio/video source information”</i>  ‘995: 17;</p>	<p><b>“time compressed digital representation . . . being received in an associated burst time period that is shorter than a time period associated with said audio/video source information”</b> - “a version of audio/video source information having a reduced number of bits that is received over an external communications link in a time period that is shorter than the time required for normal playback”</p>	<p><b>Not separately defined.</b></p>
<p><i>“being received . . . in a burst transmission time period that is substantially shorter than a time period</i></p>	<p><b>“being received . . . in a burst transmission time period that is substantially shorter than a time period associated with real-time</b></p>	<p><b>“being received ... in a burst transmission time period ...”</b> - see above</p>

CLAIM TERMS	BURST'S CONSTRUCTION	APPLE'S CONSTRUCTION
<i>associated with real-time viewing</i> '705: 21.	<b>viewing</b> – “being received . . . over an external communications link in a time period that is substantially shorter than the time required for normal playback.”	
<b><u>“is capable of” format</u></b>		
<i>“digital time compressed representation . . . is capable of being transmitted in a burst transmission time period that is substantially shorter than a time period associated with real time viewing”</i> '705: 1.	<b>“digital time compressed representation . . . capable of being transmitted in a burst transmission time period that is substantially shorter than a time period associated with real time viewing”</b> – “a digital version of audio/video source information having a reduced number of bits that allows data transfer over an external communications link in a time period that is substantially shorter than the time required for normal playback”	<b>“digital”</b> - agreed construction  <b>“time compressed representation”</b> - see above  <b>“is capable of being transmitted in a burst transmission time period that is substantially shorter than a time period associated with real time viewing”</b> – the time compressed representation is such that it is known at the time of compression that it is capable of being transmitted in a burst time period of definite duration that is substantially shorter than the time required to play the representation in real time.
<b><u>short digital format</u></b>		
<i>“digital time compressed representation”</i> '995: 8, 9, 23, 24, 25, 26, 27, 28; '839: 8, 9, 23, 24, 25, 26, 27, 28; '705: 1, 2, 3, 12, 21.	<b>“digital time compressed representation”</b> – “a digital version of audio/video source information having a reduced number of bits.”	<b>“digital”</b> - agreed construction  <b>“time compressed representation”</b> - see above

The term “time compressed representation” does not have an accepted scientific or engineering meaning. *See* Hemami Report at 42-43 (Exhibit 5). Instead, the patents reflect that this term was used to describe the intended effect – a representation of audio/video source information that has been compressed to permit it to be transmitted in less time. Because there is no accepted meaning, the construction of the time compressed representation phrase can only be gleaned from the Burst patent specifications themselves. *Id.*

1 a. The intrinsic evidence supports Burst's proposed construction

2 The term "time compressed representation" appears in every independent claim of the  
3 Burst patents. Although the claim format varies, reference is made to '839 claim 1 for purposes  
4 of discussion (the "time compressed representation" language is bolded):  
5

6 1. A method for handling audio/video source information, the method comprising:

7 receiving audio/video source information;

8 compressing the received audio/video source information into **a time compressed**  
9 **representation thereof having an associated burst time period that is shorter**  
10 **than a time period associated with a real time representation of the received**  
**audio/video source information;**

11 storing said time compressed representation of the received audio/video source  
12 information; and

13 transmitting, in said burst time period, the stored time compressed representation  
14 of the received audio/video source information to a selected destination

15 The "time compressed representation" phrase in '839 claim 1 includes several key  
16 concepts. First, the phrase has a compression element, because the "compressed representation"  
17 results from an act of compressing. Second, the phrase has a temporal aspect. This temporal  
18 aspect arises from the two time periods that are referenced and compared in the phrase – the  
19 burst time period associated with the compressed representation and the real time period  
20 associated with the playback of the uncompressed representation. The word "time" in "time  
21 compressed representation" also suggests the temporal aspect. Third, the phrase necessarily  
22 implies a transmission and/or reception element. In the case of '839 claim 1, one of the time  
23 periods (the "burst time period") is defined as the transmission period. *See* '839 Patent, claim 1,  
24 clause 4 ("transmitting, in said burst time period"). *See also* '839 Patent, claims 17 and 77; '995  
25 Patent, claim 17; and '705, claim 21. Other claims explicitly require that the "time compressed  
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1 representation” is “received” in a burst time period. Claim 1 of the ‘705 requires a “burst  
2 transmission period” in which the time compressed representation is transmitted. Thus, the  
3 literal claim language implicates transmission and/or reception of the “time compressed  
4 representation.”

5  
6 Taken together, these concepts make clear that the proper construction for the “time  
7 compressed representation” phrase of ‘839 claim 1 is “a version of audio/video source  
8 information having a reduced number of bits that allows data transfer over an external  
9 communications link in a time period that is shorter than the time required for normal playback.”  
10 As reflected in the chart above, the construction of the other “time compressed representation”  
11 terms is similar, but must be tailored for the specific language used, as Burst has done.  
12

13 The only compression algorithms disclosed in the Burst patents are those that perform  
14 data compression. See ‘995 Patent, 4:68-5:45; Hemami Report at 33-34 (Exhibit 5). As noted  
15 above in the “compressing” section, the patent specifications clearly disclose that “compressing”  
16 reduces the number of bits, thus minimizing the amount of storage required to store a  
17 compressed representation. See ‘995 Patent, 2:46-51, 4:63-68, 5:9-14. In addition, and more  
18 pertinent to the “time compressed representation” phrase, the specifications provide that  
19 compressing may enable the representation to be sent between devices in less time than it would  
20 take to play back the audio/video information in real time. ‘839 Patent, 8:18-26; 12:4-8. As  
21 stated in the Burst patents, “a video program may be communicated **at an accelerated rate ... in**  
22 **less time than it would take to view the program.**” ‘995 Patent, 9:61-68. The specification  
23 thus aligns with the conclusion that a “time compressed representation” has “a reduced number  
24 of bits” relative to the claimed audio/video source information. Furthermore, as the specification  
25 notes explicitly and as Burst proposes in its construction, the data compression “allows” the  
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1 compressed representation to be sent in a time period shorter than real-time playback as reflected  
2 by the above cited passage.

3           Transmitting the compressed representation in less time than it would take to play back  
4 the audio/video program is one of the temporal aspects mentioned above. All of the “time  
5 compressed representation” phrases include a comparison of two time periods. The name for  
6 these two time periods varies across the claims, but the claims all generally require that a first  
7 time period be shorter (or in the case of the ‘705 Patent, substantially shorter) than a second  
8 period of time required to playback the audio/video source information.

9           The concept of a time compressed representation that could be sent faster than real time  
10 was a focus in the prosecution of the ‘727 patent application, which issued as the ‘705 Patent. In  
11 Burst’s last Response to the PTO in the ‘705 Patent prosecution, Burst cancelled all of its then-  
12 pending claims and made the following remarks in arguing for the patentability of the newly  
13 added claims (which ultimately issued):

14           The present invention teaches a system and method for transmitting  
15 audio/video source information, namely full motion video programs, between  
16 devices. The audio/video information is time compressed to thereby allow  
17 transmission in a burst transmission time period which is substantially shorter  
18 than the time associated with real-time viewing of the video program by a  
19 receiver of the program. For example, a video program having an associated  
20 viewing time (*i.e.*, running length) of one hour could be time compressed and  
21 transmitted to a receiver in a burst transmission time period which is substantially  
22 less than one hour.

23 *Amendment and Response, ‘705 PH*, at 11 (June 1, 1998) (Exhibit 13). Burst then contrasted this  
24 capability with the prior art delivery systems, which delivered video “on a substantially real time  
25 basis.” *Id.* at 12. Thus, one very important temporal aspect is that the time compressed  
26 representation can be transmitted in a time period that is shorter than the playback period.

1 A second temporal aspect reflected in the “time compressed representation” phrase arises  
2 because of the nature of the audio/video source information. When discussing the *Izeki et al.*  
3 patent in the ‘727 application, Burst contrasted that patent by noting that it was limited to “still-  
4 picture information,” which was “in sharp contrast to the claimed invention, wherein full motion  
5 video programs, having an **inherent temporal element**, are time compressed and transmitted.”  
6 *Id.* at 15 (emphasis added). Continuing, Burst stated:

8 “Since *Izeki* deals with still picture information, compression of the  
9 information would still not represent time compression thereof (**as defined in the**  
10 **specification of the Application**), since time compression necessarily requires  
11 that the information to be compressed have a **temporal dimension**.”

12 *Id.* at 15-16 (emphasis added).

13 These prosecution history passages make clear that Burst’s construction is correct. First,  
14 the parenthetical in the above quote expressly links “time compression” to what is “defined in  
15 the specification of the Application.” The parties agree that the specification only discusses data  
16 compression. Therefore, Burst clearly states to the PTO in this final ‘705 Response that data  
17 compression produces the time compressed representation. Second, the above excerpt  
18 establishes Burst’s direct association of “time compressed” with the requirement that the source  
19 information have a “temporal dimension.” Images that do not have an associated temporal  
20 dimension, such as still images, cannot be “time compressed” because they are time independent.  
21 *See id.* The proposed Burst definition captures this temporal aspect through its construction of  
22 the phrase “audio/video source information,” which Burst defines as having “a temporal  
23 dimension.”  
24

25  
26 Finally, the ‘705 prosecution establishes that the transmission must occur over an  
27 external communication link. In the same ‘727 application response referenced above, Burst  
28 distinguished the *Izeki et al.* patent because it transferred edited files only to an internal storage

1 device (a master tape) for copying an uncompressed version of the edited file. *Id.* at 15. Thus, to  
2 appropriately address the transmission and/or reception requirement of the claims, the  
3 construction should indicate that the time compressed representation is transferred or transmitted  
4 externally. Burst's proposed definition of "time compressed representation" captures this  
5 requirement by including the language "transfer over an external communications link."  
6

7 For all of the foregoing reasons, Burst respectfully requests that the Court adopt its  
8 proposal for the "time compressed representation" terms.

9  
10 b. Apple's constructions are inconsistent with the specification and the claims

11 Apple's proposed constructions for "time compressed representation" and "having an  
12 associated burst time period" seek to import at least two unsupported limitations into the claims.  
13 First, Apple incorrectly construes "time compressed representation" as excluding data  
14 compression. Second, it improperly requires (for at least some of the claims) that the time  
15 compressed representation have a "definite duration that is known at the time of compression."  
16

17 i. *Apple's negative limitation excluding data compression is wrong*

18 Apple's construction that the time compressed representation be compressed "without  
19 using data compression" is untenable. This issue was discussed in conjunction with the term  
20 "compressing" in the immediately preceding section. As previously explained, the Burst patent  
21 specifications do not support Apple's position because the patents only disclose data  
22 compression. Thus, any attempt to construe the term "time compressed representation" to  
23 exclude data compression necessarily excludes the preferred embodiment, "which is rarely, if  
24 ever, correct." *Vitronics*, 90 F.3d at 1583. For that reason alone, Apple's construction for "time  
25 compressed representation" should be rejected.  
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1 Apple's construction for time compressed representation also ignores the sequence of the  
2 Burst patent claims. Many of the claims require that the audio/video source information be  
3 compressed "into" a time compressed representation, after which the time compressed  
4 representation is stored in memory. *See, e.g.*, '839 Patent, claim 1 ("storing said time  
5 compressed representation"). The claim language explicitly requires that the time compressed  
6 representation must be stored. The last limitation of '839 claim 1 further requires "transmitting  
7 ... the stored time compressed representation." Thus, in '839 claim 1, the sequence is (i)  
8 compress; (ii) store the compressed representation; and (iii) transmit the stored compressed  
9 representation.<sup>12</sup> This sequence is mandated by the claim language itself, which requires storing  
10 the "time compressed representation" and transmitting the "stored time compressed  
11 representation."  
12 representation."

14 But in Apple's world of "time compression" and time-division multiplexing, the signals  
15 "are stored in real time and then read out much faster than real time." Halpern Report at 9  
16 (Exhibit 6). In this "time compression" system advanced by Apple, compression (to the extent  
17 there is any compression at all) occurs as part of the transmission by clocking out the signals at a  
18 faster rate. Such a system, however, exhibits a sequence that is out-of-order relative to the Burst  
19 claims because compression necessarily occurs *after* storage and at the transmission/output stage.  
20 Mr. Halpern's expert report unwittingly gives an example of the inconsistencies between the  
21 claim language sequence (compression and then storage) and Apple's time compression  
22 sequence (storage and then compression):  
23  
24

25 "In time compression multiplexing, the signal from each input channel is stored  
26 for a short period of time. The signals from all channels are then read from the  
27

28 <sup>12</sup> In discussing the claim sequence, Burst does not mean to imply that each step must be completed before the next step begins. In fact, Burst fundamentally disagrees with Apple's contention that the claims include such a requirement.



1 store, **compressed in time**, and transmitted sequentially, one after the other, over  
2 the communication path.”

3 Halpern Report at 9 (Exhibit 6). Contrary to the claims, this passage describes a process that  
4 includes storing and then “compressing in time” at the transmission stage. This underscores a  
5 fundamental flaw in Apple’s construction for time compressed representation.

6 Apple’s construction is nonsensical in the context of the claim language for another  
7 reason: the claims require both source information and a time compressed representation of that  
8 source information. Under claim construction principles, these representations are presumed to  
9 be different because of the use of different terms. *Bancorp Svcs, L.L.C. v. Hartford Life Ins. Co.*,  
10 359 F.3d 1367, 1373 (Fed. Cir. 2004). However, Apple’s expert conceded that the bits  
11 representing the source information would be identical to the bits representing the time  
12 compressed representation. *See* Halpern Depo Tr. at 73:4-74:10, 126:12-20, 134:22-136:25,  
13 153:24-154:5, 167:5-10, 281:14-19 (Exhibit 8); *see also* Halpern Report at 12 (Exhibit 6). In this  
14 context, the claimed delineation of the time compressed representation as something different  
15 than the audio/video source information becomes non-existent. Apple’s construction fails for  
16 this additional reason.  
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20 In short, Apple’s proposed negative limitation, seeking to exclude use of data  
21 compression, is inconsistent with the specification and claims and should be rejected.

22 *ii. The claims do not have a definite duration requirement*

23 A second major flaw in Apple’s construction is its position that the phrase “having an  
24 associated time period” somehow requires that the time period have a definite duration and that  
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1 this duration must be known at the time of compression.<sup>13</sup> Nothing in the intrinsic evidence  
2 supports Apple's construction, and it should be rejected on multiple grounds.

3 First, Apple's expert conceded in his deposition that he did not cite any evidence from the  
4 Burst patent specifications to support Apple's construction. Halpern Dep. at 196:15-19 (Exhibit  
5 8). This glaring admission is a further example of how Apple has ignored the Burst  
6 specifications in violation of *Phillips*. Of course, Apple's expert is correct, there is absolutely  
7 nothing in the patent specification that requires a "definite duration" or association of the burst  
8 time period at the time of compression.  
9

10 Second, Apple's definite duration construction is premised on the faulty theory that the  
11 patents require a certain type of transmission medium. As support for its definite duration  
12 argument, Apple contends that the patents are limited to situations where the bandwidth of the  
13 transmission medium is fixed. Halpern Report at 17-18 (Exhibit 6). But nothing in the claims,  
14 the patent specification or the prosecution history require that the bandwidth be fixed. To the  
15 contrary, in each instance in which bandwidth is mentioned, the patent always uses language of  
16 approximation. For example, when discussing fiber optic channels, the '839 Patent refers to  
17 fiber optic bandwidth as "*about* 200 Megabytes/second." '839 Patent, 8:15-18. When  
18 discussing microwave bandwidth, the patent references a lower threshold of "*at least as fast as*  
19 the transmission and reception of programs over optical fibers." '839 Patent, 12:6-8. In each  
20 instance, the patent specification provides approximations when it discusses duration of  
21 transmission or transmission speed, or else provides a lower boundary for the bandwidth.  
22 Requiring a "definite duration" is inconsistent with the duration and speed approximations  
23 provided throughout the patent specification. *See* Hemami Report at 36-37 (Exhibit 5).  
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28 <sup>13</sup> This is not an issue with respect to the "being received" form of the phrase that appears in claim

1 The deposition of Apple’s expert, Mr. Halpern, underscores the fatal flaws in his report  
2 and Apple’s construction regarding “definite duration.” Mr. Halpern admitted under oath that  
3 the words “fixed data rate” and “fixed rate” do not appear in the Burst patents. Halpern Dep. at  
4 82:8-82:15 (Exhibit 8). Nor could he identify any evidence in the Burst patent specifications that  
5 excludes the use of variable rate or packet switched systems to transmit audio/video information.  
6 *Id.* at 82:16-90:10. Such systems (*e.g.*, the Internet) have variations in bandwidth that result in  
7 imprecise transmission times. Halpern even admitted that such variable-rate or packet-switched  
8 systems were well known in the 1980’s. *Id.* at 29:4-6, 32:24-33:17, 81:9-25. He further  
9 conceded that such systems (including systems made of fiber optic cables – which are disclosed  
10 in the Burst patents) could be used to transmit audio/video information in packet-switched  
11 systems in that time frame. *Id.* at 80:9-25. These concessions establish that the Burst patent  
12 specifications do not exclude variable rate or packet-switched systems and that one of ordinary  
13 skill would know to use such systems for audio and video transmissions in 1988. *See also*  
14 Hemami Report at 7-8 (Exhibit 5). As such, the concessions of Apple’s expert demonstrate that  
15 the Burst claims do not require fixed-rate or circuit-switched systems that create a “definite  
16 [transmission] duration.”  
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21 of the ‘705 Patent.

4. “compression means”

The parties agree that the “compression means” terms, at least as used in the independent asserted claims, are subject to construction under Paragraph 6. Those terms and the parties’ proposed constructions are shown below:

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>“<i>compression means</i>”                      ‘995: 1, 8, 9, 21;</p>	<p>“<b>compression means</b>” (‘995) - Subject to §112 ¶6: “For video, a compressor/decompressor executing one or both of the following data compression algorithms: (i) reducing the number of bits by coding each frame independently, <i>i.e.</i>, treating each frame as an individual image, and/or (ii) reducing the number of bits by comparing two or more frames and coding certain differences between those frames, plus equivalents; and/ or for audio, a compressor/decompressor executing the following data compression algorithm: reducing the number of bits by comparing two or more samples and coding certain differences between those samples, plus equivalents.”</p>	<p>“<b>compression means...for compressing said audio/video source information...</b>”                      AND                      “<b>compression means...for recompressing...</b>” - Limited to structures disclosed under §112 ¶6:                      None</p>
<p>“<i>compression means...for compressing said audio/video source information...</i>”                      ‘932: 4;</p>	<p>“<b>compression means</b>” (‘932) - Subject to §112 ¶6: “For video, a compressor/decompressor executing one or both of the following data compression algorithms: (i) reducing the number of bits by coding each frame independently, <i>i.e.</i>, treating each frame as an individual image, and/or (ii) reducing the number of bits by comparing two or more frames and coding certain differences between those frames, plus equivalents.”</p>	
<p>“<i>compression means...for compressing said audio/video source information into a digital time compressed representation...capable of being transmitted in a burst time transmission period that is substantially shorter than a time period associated with real time viewing</i>”                      ‘705: 1.</p>	<p>“<b>compression means</b>” (‘705) - Subject to §112 ¶6: “For video, a compressor/decompressor executing the following data compression algorithms: (i) reducing the number of bits by coding each frame independently, <i>i.e.</i>, treating each frame as an individual image and (ii) reducing the number of bits by comparing two or more frames and coding certain differences between those frames, plus equivalents.”</p>	

1 Pursuant to the Federal Circuit’s instruction, the first step in construing “compression  
2 means” is to construe the function. The disputed terms in the function are “compressing” and  
3 “time compressed representation.” Burst’s proposed construction of those terms has been  
4 provided above.  
5

6 The properly construed function of “compression means” in claim 1 of the ‘995 Patent is  
7 to produce “a version of audio/video source information having a reduced number of bits that  
8 allows data transfer over an external communications link in a time period that is shorter than the  
9 time required for normal playback.” The parties have agreed that “audio/video” means “audio  
10 and/or video.” See Table of Agreed Terms (Exhibit 19).  
11

12 The function of the “compression means” in claim 4 of the ‘932 Patent is different. The  
13 reason is that the audio/video source information recited in the compression means function was  
14 expressly limited in claim 4 to require “a multiplicity of video frames in the form of one or more  
15 full motion video programs.” Claim 1 of the ‘705 Patent is similarly limited to full motion  
16 video, but with the further requirement that the time compressed representation “is capable of  
17 being transmitted in a burst transmission time period that is substantially shorter” than the real-  
18 time period. Thus, claim 4 of the ‘932 Patent and claim 1 of the ‘705 Patent require full motion  
19 video.  
20

21 The Burst patents specifically state that a compressor/decompressor (26) is the structure  
22 that performs the compression and decompression using suitable compression algorithms to  
23 reduce the number of bits necessary to represent the audio/video source information. ‘995  
24 Patent, 4:63-68. Compressor/decompressor may be either an integrated circuit or a  
25 microprocessor. See Hemami Depo. at 138:7-140:9 (Exhibit 7); see also *Intel v. VIA Tech.*, 319  
26 F.3d 1357, 1366-67 (Fed. Cir. 2003); *Atmel Corp. v. Information Storage Devices, Inc.*, 198 F.3d  
27  
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1 1374, 1382 (Fed. Cir. 1999); *WMS Gaming Inc. vs. International Game Tech.*, 184 F.3d 1339,  
2 1349 (Fed. Cir. 1999). The only form of compression disclosed in the Burst patents is data  
3 compression.

4  
5 Specifically, the patents describe several different classes of data compression algorithms  
6 for both video and audio that can be implemented in the compressor/decompressor to perform  
7 the claimed function of compressing, including: (i) intraframe video compression ('995 Patent,  
8 4:68-5:8); (ii) interframe video compression ('995 Patent, 5:9-18); and (iii) inter-sample audio  
9 compression ('995 Patent, 5:28-33). *See* Hemami Report at 34-36 (Exhibit 5). The patents  
10 suggest, and both experts agree, that these classes of video and audio compression were known  
11 compression techniques existing in 1988. '995 Patent, 4:63-5:24; Halpern Dep. at 56:22-58:15  
12 (Exhibit 8); Hemami Report at 17-21 (Exhibit 5); Hemami Dep. at 143:14-146:19 (Exhibit 7).  
13 Because the Burst patents describe the compressor/decompressor structure, as well as specific  
14 classes of compression algorithms to be executed by the compressor/decompressor, the Burst  
15 patents describe adequate structure for the "compression means" limitations. *See Linear Tech.*,  
16 379 F.3d at 1321-22 (a "class of structures [that are] identifiable by a person of ordinary skill in  
17 the art" is appropriate under Paragraph 6); *Serrano*, 111 F.3d at 1583 (general reference to a  
18 microprocessor programmed to perform a specific function adequate to treat microprocessor as  
19 corresponding structure). The next issue is which of the compression algorithms are appropriate  
20 for the different functional recitations.  
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24 The intraframe video compression algorithm discussed in the Burst patents treats the  
25 video frames independently by performing compression on an individual frame-by-frame basis.  
26 Intraframe compression, also known as spatial compression, reduces the number of bits by  
27 efficiently representing redundant information within a particular frame. As Burst's expert  
28

1 explains in an example in her Report, if adjacent pixels on a screen have the same value, a  
2 reduced number of bits can be used to represent the redundancy. Hemami Report at 35 (Exhibit  
3 5). The Burst patents identify the CCITT Group IV data compression algorithm as an example  
4 of an intraframe compression algorithm. A copy of the CCITT Group IV Standard is attached as  
5 Exhibit 25.<sup>14</sup>  
6

7 The other class of video compression algorithms described in the Burst patents is  
8 interframe compression, which also is known as temporal compression. *See* '995 Patent, 5:9-18.  
9 This compression technique treats video frames dependently. As suggested in the Burst patents,  
10 two or more frames in a time sequence are compared for encoding certain differences between  
11 the frames. Coding only the changes between frames, rather than each frame individually,  
12 results in a reduced number of bits as compared to coding each frame independently. Hemami  
13 Report at 35 (Exhibit 5).  
14

15 The Burst patents further instruct the reader that the two classes of video compression  
16 algorithms described in those patents may be used independently or may be used in conjunction  
17 to achieve a higher degree of compression than would be the case if only one of the compression  
18 algorithms were implemented. '995 Patent, 5:9-24. With respect to audio, the Burst patents  
19 suggest that any "conventional algorithm" may be used. '995 Patent, 5:33-35. The '995 Patent  
20 specifically mentions as an example a Fibonacci delta compression algorithm, which generally  
21 constitutes an inter-sample compression algorithm in which the number of bits is reduced by  
22 comparing two or more samples and coding certain differences between those samples. Hemami  
23 Report at 35 (Exhibit 5). An example of a Fibonacci delta compression algorithm appears in an  
24  
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28 <sup>14</sup> The '995 Patent further gives an example of the AMD 7971A Compression Expansion Processor  
as an example of a single chip CCITT solution. '995 Patent, 4:67-5:8. The specification sheet on the AMD  
Compression Processor also is attached as Exhibit 26.

1 article from 1985, describing a Fibonacci Delta sound compression technique in Appendix C,  
2 attached as Exhibit 20.

3  
4 Given this description in the Burst patents, the structure that performs the claimed  
5 function is the compressor/decompressor executing one or more of the disclosed compression  
6 algorithms. The Patent specification clearly indicates that the compressor/decompressor  
7 performs the compression function, and clearly identifies the types of compression algorithms to  
8 be used. '995 Patent, 4:63-5:35. Claim 60 of the '995 Patent further confirms that the  
9 compressor/decompressor performs the function of compressing. That claim recites:

10  
11 **compressor/decompressor means for compressing** digital audio/video source  
12 information received at said input means or said corresponding digital audio/video  
13 source information received from said analog to digital converter means **into a**  
14 **time compressed representation** of said digital or corresponding digital  
15 audio/video source information, said time compressed representation having an  
16 associated time period that is shorter than a time period associated with a real time  
17 representation of said digital or corresponding digital audio/video source  
information, said compressor/decompressor means being further operative for  
decompressing said time compressed representation into a decompressed real time  
representation of said digital or corresponding digital audio/video source  
information;

18 '995 Patent, claim 60. Thus, in this '995 apparatus claim, the compressor/decompressor is  
19 recited as the structure for performing the same claimed function of "compressing ... into a time  
20 compressed representation ...."

21  
22 If the claimed function encompasses audio and/or video, such as in '995 claim 1, any of  
23 the algorithms mentioned above may be used, as appropriate. If, however, the claim is drawn  
24 more narrowly to video, as is the case with '932 Patent claim 4 and '705 Patent claim 1, it is  
25 appropriate to identify the structure of the compression means as the compressor/decompressor  
26 executing at least one of the video compression algorithms mentioned above. Claim 1 of the  
27 '705 Patent further requires that the time compressed representation is capable of being sent in a  
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1 substantially shorter period than the real-time playback. For that claim, because the claimed  
2 function requires a substantially shorter time period, it is appropriate to require a greater degree  
3 of compression and thus require that the compressor/decompressor execute both the intraframe  
4 video compression algorithm and the interframe video compression algorithm, consistent with  
5 the suggestion in the patent specification. *See, e.g.*, '995 Patent, 5:15-24.  
6

7 Burst's construction of "compression means" is supported by the admissions of Apple's  
8 expert. Mr. Halpern repeatedly testified that the Burst patents describe "data compression" (*i.e.*,  
9 reducing the number of bits), but do not describe Apple's "time compression." Halpern Dep. at  
10 51:11-52:24; 99:5-102:18, 165:13-166:17 (Exhibit 8). He further conceded that data  
11 compression is one of the stated objectives in the Burst patents and that "most" uses of  
12 compression in 1988 and now are in the form of data compression. *Id.* at 52:25-55:19; Halpern  
13 Report at 2 (Exhibit 6). Mr. Halpern also testified that many data compression techniques for  
14 audio/video existed in 1988 and were implemented in 1988. Halpern Dep. at 55:23-57:6;  
15 Halpern Report at 2 (Exhibit 6). For example, consistent with Burst's construction, he agreed  
16 that both intraframe and interframe video compression, as well as various audio compression  
17 techniques, were well known by 1988. Halpern Dep. at 56:22-58:12.  
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20 But Mr. Halpern did not stop there; instead, he went on to concede that the precise  
21 algorithms set forth in Burst's construction of compression means are disclosed in the Burst  
22 patents. As to video, Mr. Halpern admitted that the Burst patents disclose a form of intraframe  
23 video compression, which reduces the number of bits by coding each video frame independently.  
24 *Id.* at 60:16-62:9. Similarly, he agreed that the Burst patents disclose interframe video  
25 compression, which includes comparing two or more frames and coding certain differences. *Id.*  
26 at 62:16-64:22. Finally, Mr. Halpern admitted that the Burst patents disclose audio data  
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1 compression, including the Fibonacci delta algorithm that compares two or more samples and  
2 codes the differences. *Id.* at 66:16-68:12. He also conceded that these various data compression  
3 algorithms could be implemented in hardware (*e.g.*, the AMD 7971 chip) or software in 1988.  
4 *Id.* at 235:6-238:2; Halpern Report at 28 (Exhibit 6).  
5

6 Despite Halpern's admissions, Apple contends that no structure is disclosed in the Burst  
7 patent specifications for performing the compression functions. The basis for Apple's position  
8 flows from a faulty premise. The premise is that the claimed function is limited only to time  
9 compression and cannot use data compression techniques, even though Apple admits that the  
10 patent specification only discloses data compression. Having concluded that the claimed  
11 function covers something the specification never disclosed, Apple then concludes its argument  
12 by asserting that no structure is disclosed in the specification for that function. Apple's  
13 conclusion fails because its premise is fatally flawed.  
14

15 Moreover, to prevail on its argument that no structure is disclosed for performing the  
16 compression functions, Apple must provide proof by clear and convincing evidence. This high  
17 burden of proof applies because Apple's position is tantamount to the argument that the patent  
18 claims are invalid and is contrary to the patents' presumption of validity. As the Federal Circuit  
19 has explained:  
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21  
22 For a court to hold that a claim containing a means-plus-function limitation lacks  
23 a disclosure of structure in the patent specification that performs the claimed  
24 function, necessarily means that the court finds the claim in question indefinite,  
25 and thus invalid. Because the claims of a patent are afforded a statutory  
26 presumption of validity, overcoming the presumption of validity requires that any  
27 facts supporting a holding of invalidity must be proved by clear and convincing  
28 evidence. Thus, a challenge to a claim containing a means-plus-function  
limitation as lacking structural support requires a finding, by clear and convincing  
evidence, that the specification lacks disclosure of structure sufficient to be  
understood by one skilled in the art as being adequate to perform the recited  
function.

1 *Budde v. Harley-Davidson, Inc.*, 250 F.3d 1369, 1376-77 (Fed. Cir. 2001) (internal citations  
2 omitted). Apple cannot carry this heavy evidentiary burden.

3 **5. “decompression means” and “selectively decompressing”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>4 5 6 7 8 9 10 11 12 13 14</p> <p>“<i>decompression means</i>” ‘995: 20, 21, 22, 23, 25, 26, 28</p> <p>“<i>decompression means...for selectively decompressing [the/said] time compressed representation ...</i>” ‘995: 20, 21, 22.</p>	<p>“<b>decompression means</b>” - Subject to §112 ¶6: “a compressor/decompressor executing a decompression algorithm consistent with the compression algorithm used, plus equivalents”</p>	<p>“<b>decompression means...for selectively decompressing said time compressed representation ...</b>” - Limited to structures disclosed under §112 ¶6: None.</p>
<p>“<i>selectively decompressing</i>” ‘995: 20, 21, 22, 23, 25, 26, 28; ‘839: 20, 21, 22, 23, 26, 28.</p>	<p>“<b>selectively decompressing</b>” - No construction required. Alternatively, “decompressing some or all of the stored time compressed representation selected by a user”</p>	<p>“<b>selectively decompressing</b>” - decompressing the portion of the stored time compressed representation selected by a user.</p>

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The parties agree that “decompression means” is subject to Paragraph 6. The function recited for decompression means is “selectively decompressing said time compressed representation of said audio/video source information stored in said random access storage means.” *See, e.g.*, ‘995 Patent, claims 20, 21. In accordance with the principles of construction set forth above, Burst begins its analysis of the “decompression means” by starting with the function.

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The functional language that follows “decompression means” has a meaning that is apparent on its face and therefore does not require construction. Alternatively, if the Court decides that construction of “selectively decompressing” is necessary, Burst proposes “decompressing some or all of the stored time compressed representation selected by a user.”

1 Both parties agree that “selectively” requires that the user select the time compressed  
2 representation. They differ on what is selected. Burst contends that the user can select the entire  
3 time compressed representation for decompression, or may select portions of the time  
4 compressed representation for decompression. Apple insists that the user can only select a  
5 portion of the time compressed representation for decompression.  
6

7 Starting with the claim language, nothing in the literal wording of the claim supports  
8 Apple’s view that “selectively decompressing” is limited to only portions of the “time  
9 compressed representation.” A reading of ‘995 claims 20 and 21 shows that a selection of the  
10 entire time compressed representation falls within the scope of the literal claim language.  
11 Specifically, a reading of the entirety of claims 20 and 21 establishes that the selectively  
12 decompressed representation is edited and then stored back in the random access storage means.  
13 Under Burst’s construction, either a portion or all of the representation could be decompressed,  
14 edited and stored. Apple’s interpretation would require that only pieces of the representation  
15 could be decompressed, edited and stored, but the claim is not restricted in that fashion.  
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18 The patent specification supports the notion that a user can select either a portion of the  
19 representation or the entire representation for decompression. The ‘995 Patent, for example,  
20 states that the program may be edited one frame at a time. ‘995 Patent, 6:30-33. As noted later  
21 in that same paragraph, a user interface can be used to select a desired frame number from a  
22 menu. In response, the transceiver displays a strip of frames including the selected frame and  
23 several frames before and after the selected frame. *Id.* at 6:40-44. Alternatively, the time  
24 compressed program may be selected by a user for purposes of viewing or copying it to other  
25 storage. *Id.* at 9:1-30. In the playback mode, the program is decompressed before displaying it  
26 on a monitor or playing it through the speakers. When copying, the time compressed program is  
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1 decompressed for storing in the desired storage. *Id.* at 9:22-30. The '995 Patent indicates that  
2 during these copying procedures, the user may perform editing operations on the representation.  
3 *Id.* at 9:31-53. Thus, the patent specification also supports the notion that either the entire  
4 representation or a portion of the representation may be selected for decompression, consistent  
5 with the plain language of the claims.  
6

7 Turning now to the structure for the "decompression means," the patent describes very  
8 clearly that the structure is the same codec (compressor/decompressor) used for compression. *Id.*  
9 at 4:63-65. Given that decompression is described in the patent specifications as the reverse  
10 process of compression, *see id.* at 4:63-65, 5:57-59, it follows that the data compression  
11 algorithms used to decompress the time compressed representation must be consistent with the  
12 algorithms that were used to compress it.  
13

14 Once again, Apple takes the position that no structure is disclosed to perform the claimed  
15 function. Apple arrives at this conclusion through a convoluted analysis. Apple starts with the  
16 position that the patent must cover time division multiplexing, which Judge Motz rejected, *see*  
17 *Burst.com v. Microsoft Corp.*, No. JFM-02-2952 (D. Md. March 12, 2004) (letter construing  
18 claim terms), at 1-2 (Exhibit 23), and which is not supported by the patent specification. Apple  
19 then concludes that the various data compression algorithms described in detail in the  
20 specification cannot be used to compress the audio/video information and decompress the time  
21 compressed representation because such data compression techniques cannot be used in the time  
22 division multiplexing arena. Then when it is time to identify the structure associated with the  
23 compression means and the decompression means, Apple contends there is no structure disclosed  
24 in the patent because the only compression algorithms mentioned in the patent relate to data  
25 compression. The illogical and circular nature of Apple's arguments is apparent. Moreover,  
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1 Apple's position is inconsistent with the *Phillips* mandate that the specification is the best source  
2 for determining the meaning of the claims. 415 F.3d at 1315-16.

### 3 **C. Storage Terms**

#### 4 **1. "recording means"**

CLAIM TERMS	BURST'S CONSTRUCTION	APPLE'S CONSTRUCTION
<p>7 "<i>recording means</i>" 8 '995: 44, 47</p> <p>9 "<i>recording means, including a removable recording medium ... for storing ...</i>" 10 '995: 44, 47.</p>	<p>"recording means" - Subject to §112 ¶6: "an audio/video recording unit such as a magnetic tape drive, WORM drive, or erasable optical disk drive, plus equivalents"</p>	<p>"recording means, including a removable recording medium ... for storing ..." - Limited to structures disclosed under §112 ¶6: recording unit that uses removable magnetic tape, removable WORM optical disk, or removable erasable optical disk, and shunt switch.</p>

11 The parties agree that the term "recording means," which appears in asserted claims 44  
12 and 47 in the '995 Patent, is subject to Paragraph 6. Those claims describe "storing the time  
13 compressed representation of said audio/video source information stored in said random access  
14 storage means onto said removable recording medium." Burst identifies the corresponding  
15 structure that performs this function as follows: "an audio/video recording unit such as a  
16 magnetic tape drive, WORM drive, or erasable optical disk drive, plus equivalents." The claims  
17 and the specification clearly connect this corresponding structure to the claimed function.

18 The claims themselves identify the "recording means" as "including a removable  
19 recording medium." '995 Patent, claims 44 and 47. The specification identifies the structure  
20 that can accept and use removable recording media for copying of audio/video source  
21 information as an "audio/video recording unit," or "AVRU" depicted in Figure 11. An AVRU  
22 can use various recording media that can be inserted for recording and then removed, such as  
23 magnetic tape, WORM disks, and erasable optical disks. See '995 Patent, 3:31, 3:38-45, 3:58-  
24 4:16, 9:4-30. Thus the structure corresponding to "recording means" is "an audio/video  
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1 recording unit such as a magnetic tape drive, WORM drive, or erasable optical disk drive, plus  
2 equivalents.”

3 Apple acknowledges that the corresponding structure is a recording unit that uses one of  
4 the same three removable recording media. But Apple erroneously introduces the term “shunt  
5 switch” as a component of its proposed corresponding structure. The shunt switch is not part of  
6 the corresponding structure for “recording means” because it performs no recording itself and  
7 has no connection to any removable recording media. *See* Hemami Report at 60 (Exhibit 5).  
8 The shunt switch 48, which appears in Figure 2 and is connected to the time base generator 48, is  
9 simply a binary switch that can be used to avoid adding time base information (which is  
10 associated with analog signals and thus is not relevant to time compressed representations) to  
11 compressed or decompressed digital information that is being recorded onto removable media.  
12 *See* ‘995 Patent, 5:63-6:2.

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15 “Structural features that do not actually perform the recited function do not constitute  
16 corresponding structure and thus do not serve as claim limitations.” *Asyst Techs., Inc. v. Empak,*  
17 *Inc.*, 268 F.3d 1364, 1370 (Fed. Cir. 2001). Even structures that may be needed to enable the  
18 invention to work are not part of the corresponding structure unless those structures actually  
19 perform the recited function. *Id.* at 1371. Because the shunt switch does not actually perform  
20 the recited function of “storing the time compressed representation of said audio/video source  
21 information stored in said random access storage means onto said removable recording  
22 medium,” it does not constitute any part of the structure corresponding to “recording means.”  
23  
24 Apple’s identification of corresponding structure is erroneous and should be rejected.  
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**D. Input & Output Terms**

**1. “transmitting,” “transmission away,” and “transmitting...to a selected destination”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p><i>“transmitting . . . away”</i>                      ‘705: 1.</p>	<p><b>“transmitting . . . away”</b> – “sending to an external device capable of playback”</p>	<p><b>“transmitting / transmission”</b> – “sending to a remote location; excludes transferring through an interface to a storage device.”</p> <p><b>“transmitting . . . away”</b> - no construction necessary</p>
<p><i>“transmitting”</i>                      ‘839: 1, 17, 73, 76, 77.</p>	<p><b>“transmitting”</b> – No construction required. Alternatively, “sending”</p>	<p><b>“transmitting”</b> – “sending to a remote location; excludes transferring through an interface to a storage device.”</p>
<p><i>“transmitting . . . to a selected destination”</i>                      ‘839: 1, 17, 73, 76, 77.</p>	<p><b>“transmitting . . . to a selected destination”</b> – “sending to an external device that is capable of playback and is selected by a user”</p>	<p><b>“transmitting”</b> – “sending to a remote location; excludes transferring through an interface to a storage device.”</p> <p><b>“transmitting . . . to a selected destination”</b> - no construction necessary</p>

The Burst patents include several variations of the term “transmitting.” Burst’s constructions of these terms track the various contexts in which they are used in the claims, the description of the invention in the specification, the positions that Burst took in the prosecution history, and the ordinary understanding of one skilled in the art. Apple’s constructions are simultaneously too narrow and too broad: they import limitations that are not present in the specification, while embracing concepts outside its scope.

Apple appears to agree that “transmitting” involves sending information outside the transmitting device. This is how the term is used throughout the claims. Claim 1 of the ‘705 Patent, for example, requires:

transmitting said digital time compressed representation of said audio/video source information away from said audio/video transceiver apparatus in said burst transmission time period.

(emphasis added). Claim 1 of the ‘839 Patent requires:



1 transmitting, in said burst time period, the stored time compressed representation  
2 of the received audio/video source information to a selected destination.

3 (emphasis added). In requiring that “transmission” be “away from said audio/video transceiver”  
4 and “to a selected destination,” the claims suppose that transmission involves sending  
5 information somewhere else. The issue separating Apple’s and Burst’s construction is where.  
6 Burst contends that it is a playback device, while Apple asserts that it is a “remote location.”  
7

8 The specification expressly describes transmission as occurring between transceiver  
9 devices that are capable of playing back the audio and video that they receive:

10 The VCR-ET can receive/transmit a video program at an accelerated rate via fiber  
11 optic port 18 from/to a variety of sources. For example—a video program may be  
12 communicated at an accelerated rate from the first VCR-ET to a second VCR-ET  
in less time than it would take to view the program.

13 ‘995 Patent, 7:58-64 (emphasis added). The requirement that the destination of a transmission be  
14 a device and not merely a location is also consistent with one of the stated objectives of the Burst  
15 invention, which is the “efficient storage, transmission, and reception of a digitized audio/video  
16 program.” ‘995 Patent, 2:46-51.  
17

18 The prosecution histories of the Burst patents also repeatedly assume that transmitted  
19 audio and video are sent to a receiver that is capable of playing it back. For example, in an  
20 overview of the invention, Burst explained:

21 The audio/video information is time compressed to thereby allow transmission in  
22 a burst transmission time period which is substantially shorter than the time  
23 associated with real-time viewing of the video program by a receiver of the  
24 program.

25 *Amendment and Response*, ‘705 PH, at 11 (June 1, 1998) (emphasis added) (Exhibit 13). Burst  
26 distinguished real time transmission, explaining that “time compressed representations could be  
27 sent in a burst time period that is shorter than the time period needed for real time viewing by a  
28 receiver.” *Preliminary Amendment*, ‘705 PH, at 9 (August 7, 1997) (Exhibit 12). The ability to

1 transmit audio/video files faster than the time required by the recipient to view the program also  
 2 resulted in “the ability to ‘pause’ or ‘rewind’ the video program” – something that only makes  
 3 sense in discussing a recipient device that is capable of playback. *Amendment and Response*,  
 4 ‘705 PH, at 12 (June 1, 1998) (Exhibit 13); see also *Amendment “A”*, ‘995 PH, at 18 (March 12,  
 5 1990) (describing transmission “to any of various types of destination devices”) (Exhibit 9);  
 6 *Amendment and Response*, ‘705 PH, at 15 (June 1, 1998) (transmitting to “one or more  
 7 receivers”) (Exhibit. 13).

9 The embodiment depicted in Figure 2 of the Burst patents is also instructive. In all the  
 10 Burst patent claims that employ the term “transmission,” the information transmitted is

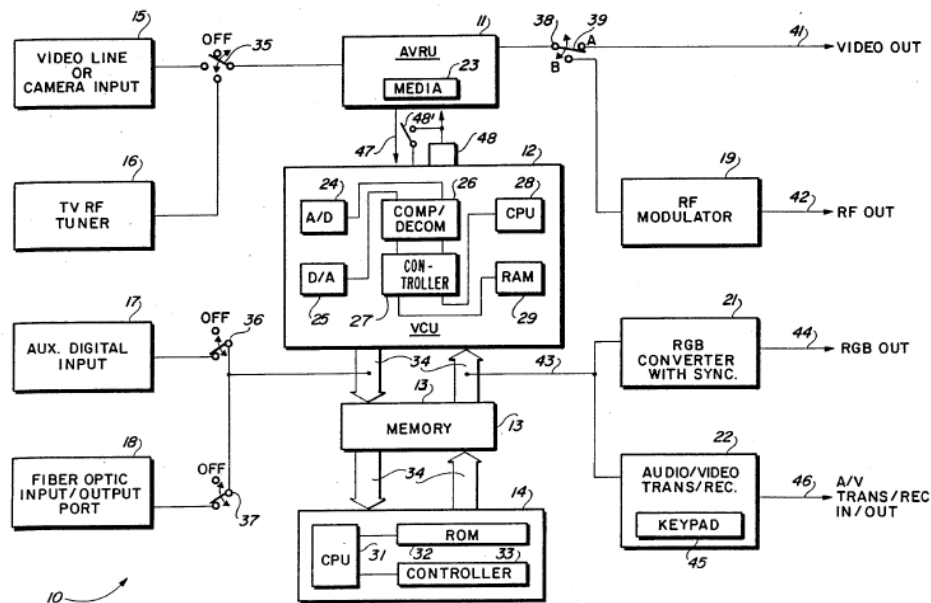


FIG. 2

23 compressed audio or video. Figure 2 depicts several outputs described in the specification as  
 24 transmitting compressed audio or video. For example, two of those outputs are the Fiber Optic  
 25 Port 18 and the Audio/Video Transmitter/Receiver 22. And the destination for transmissions of  
 26 compressed audio and video from these outputs when described in the patents is always another  
 27 transceiver that can play back the information it receives. See ‘995 Patent, 7:45-66; 9:55-10:21.  
 28

1 The term “remote location” that Apple proposes as the destination for transmissions was  
2 introduced in the ‘839 Patent and is used consistently with Burst’s construction to indicate the  
3 location of a second device capable of receiving information transmitted from a first. *See* ‘839  
4 Patent, Abstract. However, the description of a second transceiver as “remote” is introduced  
5 specifically in the context of optional embodiments where, for example, the transmission is over  
6 a telephone line, *see* ‘995 Patent, 10:14-21. Apple’s construction thus seeks to improperly  
7 narrow the claims by importing these limitations of optional embodiments, while at the same  
8 time misdirecting the claims from a core object of the invention, which is transmission to  
9 playback devices.  
10

11  
12 Apple’s construction also introduces an ambiguity by purporting to require some distance  
13 as opposed to only separation between the point of transmission and the point of reception  
14 without making clear how much. The report of Apple’s expert, as well as his deposition  
15 testimony, is notably vague on this point. *See* Halpern Report at 19 (requiring “sending  
16 information over a distance (*i.e.*, to a remote location)”) (Exhibit 6); *see also* Halpern Depo. at  
17 206:13-16 (“Q: Would you agree with me the use of the word remote here is vague in the sense  
18 that it’s not tied to a specific distance? A: Correct.”) (Exhibit 8).  
19

20 Nor do the Burst patents or prosecution histories provide a clear example of “remote.”  
21 Instead, they provide varying examples of the distance between transmitters and receivers. In  
22 one example, the Burst patents describe a “remote VCR-ET at the other end of the telephone  
23 line.” ‘995 Patent, 10:14-20. In another, the file history describes transmitting to another  
24 transceiver “coupled within the same network,” which could include the same room.  
25 *Amendment “A”*, ‘995 PH, at 19 (March 12, 1990) (Exhibit 9); *see also* Hemami Report at 49  
26 (explaining that multiple VCR-ETs may be located in a single household) (Exhibit 5).  
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28

1 Burst’s proposed constructions for the “transmitting” terms are derived directly from the  
 2 intrinsic record. They draw clear and clean distinctions between destinations for transmission  
 3 that are external to the transceiver, rather than internal. Apple’s constructions are not supported  
 4 by intrinsic evidence. They also depend on vague distinctions between local and remote  
 5 imported from optional embodiments of the invention. The Court should adopt Burst’s  
 6 constructions and reject Apple’s.  
 7

8 **2. “transmission means”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>10 <i>“transmission means”</i>                      11 ‘705: 1, 3.</p> <p>12 <i>“transmission means...for</i>                      13 <i>transmitting...away from said</i>                      14 <i>audio/video transceiver</i>                      15 <i>apparatus in said burst</i>                      16 <i>transmission time period”</i>                      17 ‘705: 1, 3.</p>	<p>10 <b>“transmission means”</b> - Subject to §112                      11 ¶6: “an auxiliary digital port, fiber optic                      12 transceiver, or microwave transceiver, plus                      13 equivalents”</p>	<p>10 ‘705 PATENT:                      11 <b>“transmission means...for</b>                      12 <b>transmitting...away from said</b>                      13 <b>audio/video transceiver</b>                      14 <b>apparatus in said burst</b>                      15 <b>transmission time period”</b> -                      Limited to structures disclosed                      under §112 ¶6: fiber optic port                      18 18, point-to-point microwave                      transceiver, or satellite                      transceiver.</p>
<p>16 <i>“transmission</i>                      17 <i>means...configured to receive the</i>                      18 <i>edited digital time compressed</i>                      19 <i>representation...”</i>                      20 ‘705: 3.</p>		<p>16 <b>“transmission</b>                      17 <b>means...configured to receive</b>                      18 <b>the edited digital time</b>                      19 <b>compressed representation...”</b>                      - Limited to structures disclosed                      under §112 ¶6: fiber optic port                      20 18, point-to-point microwave                      transceiver, or satellite                      transceiver.</p>

21 The parties agree that the term “transmission means” is subject to Paragraph 6. The  
 22 parties also agree that one of the corresponding structures is a fiber optic port. Apple has  
 23 identified both a point-to-point microwave transceiver and a satellite transceiver as  
 24 corresponding structure. Burst uses the term “microwave transceiver” to refer to both of these  
 25 terms. The parties dispute, however, whether the auxiliary digital port should be included. Burst  
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 27  
 28

1 maintains that it should because it performs the claimed function of “transmitting...away from  
 2 said audio/video transceiver apparatus in said burst transmission time period.”

3 The auxiliary digital port is shown in Figure 2 of the Burst patents as item 17. In the  
 4 embodiment shown in Figure 2, the auxiliary digital port shares a connection with fiber optic  
 5 input/output port 18. Although it is termed an “input” port, the Burst patents explain that the  
 6 port can “receive any acceptable digital signal such as computer-generated video signal or as  
 7 may be supplied by another VCR-ET.” ‘995 Patent, 7:32-35. This signal “may be an RGB  
 8 video signal such as that delivered to computer monitors, or it may be a digitized audio signal.”  
 9 *Id.* at 7:35-37. That the auxiliary digital input port can receive a digital audio signal from a  
 10 second VCR-ET means that the second VCR-ET can transmit digitized audio as well.  
 11  
 12

13 None of the structures identified by Apple’s expert in connection with the “transmission  
 14 means” would output a digital audio signal in electronic form. Dr. Hemami, however, has  
 15 explained that, given the above description of the auxiliary digital input port, one of skill in the  
 16 art would readily recognize that port as a “generic computer communication interface for  
 17 bidirectional communication, such as an RS-449 or an ethernet connection.” Hemami Report at  
 18 51 (Exhibit 5). These devices, when used as the auxiliary digital input port, could transmit the  
 19 digital audio signal as described in the Burst patents. Therefore, the Court should adopt Burst’s  
 20 identification of corresponding structure, including the auxiliary digital port.  
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23 **E. Editing & Monitoring Terms**

24 **1. “editing means”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>26 “<i>editing means</i>”                      27 ‘995: 2, 20, 21, 23, 26, 80.                      28 ‘705: 2.</p>	<p>“<b>editing means</b>” - Subject to §112 ¶6:                      “a processor executing stored editing                      software and a controller, plus                      equivalents”</p>	<p>“<b>editing means...for editing the time                      compressed representation...and for                      restoring the time compressed                      representation</b>” - Limited to structures                      disclosed under §112 ¶6: (1) Digital                      control unit 14 which includes (a) CPU</p>

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>1           “<i>editing means...for editing</i> 2           <i>the time compressed</i> 3           <i>representation...and for</i> 4           <i>restoring the time</i> 5           <i>compressed representation</i>” 6           ‘995: 2.</p> <p>7           “<i>editing means... for editing</i> 8           <i>the digital time compressed</i> 9           <i>representation...and for</i> 10           <i>storing...</i>” 11           ‘705: 2.</p> <p>12           “<i>editing means...for editing</i> 13           <i>said selectively</i> 14           <i>decompressed time</i> 15           <i>compressed</i> 16           <i>representation... and for</i> 17           <i>storing...</i>” 18           ‘995: 20, 21.</p>		<p>(Intel 80286 or 80386 or Motorola 68020 or 68030), (b) ROM (TI TMS47256) and (c) integrated circuit controller; and (2) user interface control panel, light pen or mouse.</p> <p>“<b>editing means...for editing said selectively decompressed time compressed representation... and for storing...</b>” - Limited to structures disclosed under §112 ¶6: (1) Digital control unit 14 which includes (a) CPU (Intel 80286 or 80386 or Motorola 68020 or 68030), (b) ROM (TI TMS47256) and (c) integrated circuit controller; (2) user interface control panel, light pen or mouse; and (3) VME bus, Intel’s Multibus, or Optobuss.</p>

14           The parties agree that the term “editing means,” which appears in several asserted claims  
15  
16 in the ‘995 Patent and claim 2 of the ‘705 Patent, is subject to Paragraph 6. The editing means  
17 performs the functions of editing the time compressed representation in its various forms,  
18 including the digital time compressed representation (‘705 Patent, claim 2) and the selectively  
19 decompressed time compressed representation (‘995 Patent, claims 20 and 21). In some claims,  
20 the editing means performs the additional function of storing or re-storing the edited time  
21 compressed representation. See ‘995 Patent, claims 2, 20, 23, and 80; ‘705 Patent, claim 2.

22  
23           The structure disclosed in the patent specification for “editing means” is “a processor  
24 executing stored editing software and a controller, plus equivalents.” The specification identifies  
25 a CPU (central processing unit) 31 that runs editing software stored in memory (in the preferred  
26 embodiment, ROM 32) and a controller 33 that assists the CPU in controlling the editing  
27 function by handling the communications between the CPU and memory 13, where time  
28

1 compressed representations are stored after editing. ‘995 Patent, Fig. 2, 6:23-26, 6:53-62. This  
2 combination of structures (the CPU and controller) is both necessary and sufficient to perform  
3 the functions of editing and then storing or re-storing the edited time compressed representation  
4 into memory.  
5

6 Apple’s proposed designation of corresponding structure suffers from numerous flaws.  
7 First, it specifies particular models of processors as the corresponding structure, when the patent  
8 specification mentions those models strictly as examples. Thus, the patent describes CPU 31 as  
9 “a microprocessor of the type described in connection with the CPU 28.” ‘995 Patent, 6:53-54.  
10 In the referenced description of CPU 28, the specification states: “There are numerous  
11 commercially available microprocessors that are appropriate for this application. The Intel  
12 80286, Intel 80386, Motorola 68020, and Motorola 68030 are examples.” *Id.* at 5:50-53. The  
13 specification clearly defines CPU 31 as a “commercially available general microprocessor[ ].”  
14 That identification of structure is sufficient to satisfy the requirements of Paragraph 6. *See*  
15 *Budde*, 250 F.2d at 1380-82 (specification’s disclosure of “commercially available vacuum  
16 sensor” constituted sufficient corresponding structure where one of ordinary skill in the art  
17 would understand it as structure capable of performing the recited function). The Burst patent  
18 specification’s further inclusion of examples of such microprocessors, in the form of specific  
19 models offered by Intel and Motorola, does not cancel or detract from the sufficient disclosure of  
20 structure. One of ordinary skill in the art, when reading the specification, would readily and  
21 immediately understand that the CPU 31 structure corresponding to editing means is a general  
22 purpose microprocessor, given the patent’s statement regarding commercial availability and its  
23 laundry list of such processors as opposed to one of the particular models mentioned by way of  
24 example. *See* Hemami Report at 53 (Exhibit 5).  
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1 Second, Apple errs by including the ROM in its identification of structure. As explained  
2 in the specification, ROM 32 merely stores the editing program or instructions. ‘995 Patent,  
3 6:57-58. It is the “CPU 31 and controller 33 [that] together control the editing process as they  
4 execute the programs stored in ROM 32.” *Id.* at 6:60-62. ROM is not part of the structure that  
5 actually performs the function of editing or storing the edited representations. Indeed, Apple’s  
6 own expert, Mr. Halpern, admitted in his deposition that the ROM does not perform editing. *See*  
7 Halpern Depo. at 285:8-286:4 (Exhibit 8). ROM is not even required for the invention to work,  
8 because the editing program could be stored in other types of memory as well. Nevertheless,  
9 even if ROM were required to enable the invention to work, corresponding structure is limited to  
10 that which actually performs the recited function and does not include all things necessary to  
11 enable the claimed invention to work. *Asyst Techs.*, 268 F.3d at 1370-71. It is error to include  
12 ROM as part of the structure that performs the function of editing.<sup>15</sup>

13  
14  
15 The third flaw in Apple’s identification of corresponding structure is its inclusion of the  
16 language “user interface control panel, light pen or mouse.” As is true of ROM, the specification  
17 includes these items in a description of an embodiment of the invention, but these items do not  
18 perform the functions of editing and storing or re-storing that are recited in the claims. They are  
19 merely interfaces or tools that may be used in the editing process. *See* Hemami Report at 53  
20 (Exhibit 5). Even if they were necessary to enable the invention to work, they are not properly  
21 included as part of the corresponding structure because they do not perform the recited functions.  
22  
23 *See id.*

24  
25  
26 <sup>15</sup> Apple makes a further error in its identification of corresponding structure with respect to ROM.  
27 Apple again tries to unduly restrict the corresponding structure by requiring it to include a specific model of ROM  
28 (TI TMS47256), when the patent simply mentions that model as an example: “A currently available example of a  
suitable ROM for this application is the Texas Instruments part TMS47256.” ‘995 Patent, 6:58-60. Thus, even if



1 In contrast to Apple’s flawed identification, Burst’s identification of structure as “a  
 2 processor executing stored editing software and a controller, plus equivalents,” is simple and  
 3 concise. It includes the structures that actually perform the stated functions of editing, storing,  
 4 and re-storing, and no more. Burst’s identification of corresponding structure does not impose  
 5 illegitimate restrictions on those structures by improperly importing examples of specific models  
 6 or part numbers from the specification into the claims. The Court should adopt Burst’s proposal  
 7 and reject Apple’s.<sup>16</sup>

8  
 9 **2. “editing”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>11 <b>“editing”</b>                      12 ‘995: 2, 3, 20, 21, 23, 24,                      13 26, 27, 80;                      14 ‘839: 2, 3, 20, 21, 23, 26,                      27.                      ‘705: 2, 13.</p>	<p>‘editing’ - No construction required.                      Alternatively, “modifying”</p>	<p>‘editing’ - modifying the representation                      of the audio/video source information                      (does not include the function of creating a                      playlist)</p>

15 The term “editing” appears in a number of claims in three of the four patents in suit. All  
 16 of these claims involve editing the time compressed representation of audio/video source  
 17 information in some form. Some of the claims involve editing the basic time compressed  
 18 representation. See ‘995 Patent, claims 2, 3, and 80; ‘839 Patent, claims 2 and 3; ‘705 Patent,  
 19 claims 2 and 13. The remaining claims cover editing a time compressed representation that has  
 20 been decompressed or selectively decompressed. See ‘995 Patent, claims 20, 21, 23, 24, 26, and  
 21 27; ‘839 Patent, claims 20, 21, 23, 26, and 27.

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 25  
 26 ROM could be considered part of the corresponding structure for “editing means,” it should not and cannot be  
 limited to a particular Texas Instruments part number.

27 <sup>16</sup> According to the parties’ joint claim chart, Apple’s identification of structure for “editing means”  
 28 as used in claims 20 and 21 of the ‘995 Patent also includes “VME bus, Intel’s Multibus, or Optobuss.” Apple’s  
 expert, however, does not include these items within his identification of corresponding structure in his expert  
 report. See Halpern report at 43-45 (Exhibit 6). It is therefore unclear what position Apple is taking on these items,  
 and Burst will address the issue in its reply brief if necessary.

1 Burst's position is that no construction of the term "editing" is required, as it is a term  
2 commonly understood by laypersons. The Court need not construe a term whose meaning within  
3 a patent claim is the same as the term's ordinary meaning. *See Biotec Biologische*  
4 *Naturverpackungen GmbH & Co. KG v. Biocorp, Inc.*, 249 F.3d 1341, 1349 (Fed. Cir. 2001)  
5 (district court did not err in declining to construe the term "melting" because its meaning in the  
6 patent claim did not "depart from its ordinary meaning" and thus did not need construction).  
7

8 If the Court determines that it should construe the term "editing," then Burst's alternative  
9 position is that the proper construction should be "modifying." The specification describes a  
10 wide variety of ways in which one can use the invention to modify audio/video source  
11 information, and it uses a variety of verbs to describe these types of editing. One can use the  
12 invention to edit and "rearrange the scenes in a movie, alter the movie soundtrack, etc." '995  
13 Patent, 6:27-29. This includes altering the order of segments in a program and removing  
14 "undesired segments." *Id.* at 9:49-52. "In addition, a program may be edited, one frame at a  
15 time, by changing [parameters such as] contrast, brightness, sharpness, colors, etc. (Alteration of  
16 the contrast, brightness, sharpness and colors can be automated as well.)" *Id.* at 6:30-33. The  
17 specification further describes rotating or scaling images and editing individual pixels. *Id.* at  
18 6:33-36. A user can delete, insert, or enhance individual frames. *Id.* at 6:44-48. The user also  
19 can superimpose video captions or audio commentaries. *Id.* at 9:46-49.  
20  
21

22 "Similar editing features can be incorporated for the audio portion of each program." *Id.*  
23 at 6:37-38. Additional audio editing features include "rearranging the order of portions of the  
24 audio program, increasing or decreasing the volume of portions (or different frequency  
25 components) of the audio program, or enhancing the audio program through filtering techniques  
26 (e.g., to remove static and noise)." '839 Patent, 12:47-52.  
27  
28

1 Thus, the specification describes editing of video and audio as rearranging, altering,  
2 removing, changing, rotating, scaling, deleting, inserting, enhancing, superimposing, increasing  
3 or decreasing volume or frequency components, and filtering. Given this wide range of types  
4 and methods of editing, only a term such as “modifying” accurately captures the scope of the  
5 term “editing” as it is used in the claims.  
6

7 Apple’s construction of “editing” also uses the term “modifying” and to that extent is  
8 unobjectionable. However, Apple then adds additional material that is superfluous and  
9 completely unsupported by the claims and specification. First, the language that Apple inserts  
10 immediately after “modifying” – “the representation of the audio/video source information” – is  
11 superfluous and redundant. Every one of the asserted claims that uses the term “editing” already  
12 expressly states that some sort of time compressed representation of audio/video source  
13 information is being edited. For example, claim 2 of the ‘995 Patent provides “for editing the  
14 time compressed representation of said audio/video source information stored in said random  
15 access storage means,” and claim 20 of the ‘995 Patent provides “for editing said selectively  
16 decompressed time compressed representation of said audio/video source information ....” If  
17 one substitutes the language proposed by Apple for the term “editing” in these exemplary claims,  
18 the result is confusing redundancy.  
19  
20

21 Even more fundamentally flawed is the remainder of Apple’s construction, which  
22 proposes to add a very specific exclusion from the meaning of “editing;” namely, that it “(does  
23 not include the function of creating a playlist).” There is no mention in the claims or the  
24 specification of the term “playlist.” Although Apple does not define the term, it is apparent that  
25 Apple’s goal is to exclude the playlist features of the accused instrumentalities in this case:  
26 iTunes software, the iPod, and the iTunes Music Store. The playlist features of the accused  
27  
28

1 instrumentalities allow users to modify sequences or segments of audio/video source information  
2 by adding, inserting, deleting, and rearranging. It is not proper to construe claims by reference to  
3 the accused devices. *NeoMagic Corp. v. Trident Microsystems, Inc.*, 287 F.3d 1062, 1074 (Fed.  
4 Cir. 2002); *SRI Int'l v. Matsushita Elec. Corp. of Am.*, 775 F.2d 1107, 1118 (Fed. Cir. 1985) (en  
5 banc). Nothing in the intrinsic evidence supports a carve-out for playlist creation.  
6

7       Moreover, even if it were proper for the Court to consider the playlist features of the  
8 accused products in construing the term “editing,” the specification includes abundant evidence  
9 that describes just the kind of adding, inserting, deleting, and rearranging that playlists involve.  
10 As noted above, one can use the invention to edit and “rearrange the scenes in a movie, alter the  
11 movie soundtrack, etc.” ‘995 Patent, 6:27-29. This includes altering the order of segments in a  
12 program and removing “undesired segments.” *Id.* at 9:49-52. A user can delete, insert, or  
13 enhance individual frames. *Id.* at 6:44-48. On the audio side, editing features includes the  
14 quintessential playlist function of “rearranging the order of portions of the audio program.” ‘839  
15 Patent, 12:47-52.  
16  
17

18       In short, Apple’s attempt to exclude the creation of playlists from the construction of  
19 “editing” flies in the face of the patent claims and specification and violates the legal prohibition  
20 against construing claims to exclude a feature of an accused product.<sup>17</sup> Apple’s proposed  
21 construction must be rejected.  
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26       <sup>17</sup> The only other evidence cited by Apple in support of its blatant attempt to exclude the playlist  
27 functionality that exists in the accused instrumentalities is Judge Motz’s construction of the term “editing” in the  
28 *Burst v. Microsoft* case. However, Judge Motz’s non-binding construction suffers from the same flaws that  
permeate Apple’s proposed construction. Judge Motz’s construction improperly imports the term “playlist” – which  
appears nowhere in the patents – and ignores the abundant evidentiary support in the patents for precisely the kind of  
editing features that describe playlists.

1           **3. “selectively view ... during editing”**

2

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<i>“selectively view ... during editing”</i> ‘995: 24, 27.	<b>“selectively view . . . during editing”</b> - No construction necessary. Alternatively, “view selection(s) of . . . during editing	<b>“selectively view ... during editing”</b> – viewing the portion of the representation selected by a user during editing.

3  
4

5           The term “selectively view ... during editing” appears in claims 24 and 27 of the ‘995  
6 Patent. Both claims involve use of a monitor to selectively view the decompressed  
7 representation of audio/video source information. Burst’s position is that this term is self-  
8 explanatory and needs no construction. A layperson would have no trouble understanding that  
9 this term means that a user can view selections of the decompressed audio/video source  
10 information during the editing process.  
11

12           In the event that the Court finds construction of this term to be necessary, Burst proposes  
13 the construction of “view selection(s) of . . . during editing.” The specification’s description of  
14 the editing process states that a user can “select a desired frame number from a menu on the  
15 display[.] The VCR-ET then displays a strip of frames (including several frames before and after  
16 the selected frame).” ‘995 Patent, 6:41-44. As this language makes clear, the user makes a  
17 selection of a frame or portion of the audio/video source information, and the VCR-ET then  
18 displays the selected portion as well as additional portions preceding and following the selection  
19 for viewing by the user. Burst’s construction simply, accurately, and concisely describes this  
20 process.  
21

22           In contrast, Apple’s proposed construction introduces a major inaccuracy to the meaning  
23 of the term. Apple’s construction is “viewing the portion of the representation selected by a user  
24 during editing.” The inaccuracy in this construction is that it limits the viewing to the portion  
25 selected by a user when, in fact, the specification makes it absolutely clear that the invention  
26 displays not only the portion selected but also portions before and after the selection. ‘995  
27  
28

1 Patent, 6:41-44. Given the clear contradiction between Apple’s proposed construction and the  
 2 specification, the Court should adopt Burst’s construction.

3 **4. “visually displaying ... for selective viewing by a user during editing”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<p>5 <i>“visually displaying ... for</i>                      6 <i>selective viewing by a user</i>                      7 <i>during editing”</i>                      8 ‘839: 27.</p>	<p>“visually displaying ... for selective                      viewing by a user during editing” - No                      construction required. Alternatively,                      “displaying at least the representation                      selected by a user”</p>	<p>“visually displaying ... for selective                      viewing by a user during editing” -                      showing the portion of the representation                      selected by a user on a screen or other                      visual display during editing.</p>

10 One asserted method claim includes the “step of visually displaying the selectively  
 11 decompressed digital time compressed representation of said digital audio/video source  
 12 information for selective viewing by a user during editing.” ‘839 Patent, claim 27. This claim is  
 13 the method counterpart to the limitation in the apparatus claims for “selectively view ... during  
 14 editing.” Accordingly, a similar analysis applies. Burst’s position is that this term is self-  
 15 explanatory and needs no construction. An ordinary juror or layperson would readily understand  
 16 what it means to visually display for viewing selections during editing.

17 If the Court concludes that the term needs construction, Burst’s alternative construction is  
 18 “displaying at least the representation selected by a user.” This construction is firmly grounded  
 19 in the specification. As set forth above, once a user selects a frame or portion to edit, “[t]he  
 20 VCR-ET then displays a strip of frames (including several frames before and after the selected  
 21 frame).” ‘995 Patent, 6:41-44. Thus, the invention displays the representation selected by a user  
 22 and a bit more.

23 Apple’s proposed construction is inconsistent with the patent specification. Apple’s  
 24 construction is “showing the portion of the representation selected by a user on a screen or other  
 25 visual display during editing.” This construction, just like Apple’s construction of the term

1 “selectively view ... during editing,” improperly limits the display to the portion of audio/video  
 2 source information selected by a user when the specification clearly states that the invention  
 3 displays not only that portion but also portions before and after it. ‘995 Patent, 6:41-44. In  
 4 short, Apple’s construction is inaccurate. The Court should reject it and adopt Burst’s position.  
 5

6 **5. “monitoring ... during editing”**

CLAIM TERMS	BURST’S CONSTRUCTION	APPLE’S CONSTRUCTION
<i>“monitoring ... during editing”</i> ‘839: 3.	<b>“monitoring ... during editing”</b> - No construction required. Alternatively, “observing and/or listening during editing”	<b>“monitoring ... during editing”</b> - watching (for video) and/or listening (for audio)... during editing.

10 One asserted method claim, claim 3 of the ‘839 Patent, includes the step of “monitoring  
 11 the stored, time compressed representation of said audio/video source information during  
 12 editing.” Burst’s position is that the language “monitoring ... during editing” needs no  
 13 construction, because its meaning is readily apparent to a layperson or juror.  
 14

15 If the Court finds that construction of this language is necessary, Burst offers the  
 16 alternative construction of “observing and/or listening during editing.” That construction is  
 17 apparent from claim 3 itself, which applies to audio and/or video under the parties’ agreed  
 18 definition of audio/video source information. In the course of editing video, a user might  
 19 observe the video frames and characteristics in order to rearrange scenes; remove, delete, or  
 20 insert segments or frames; edit individual pixels; or modify contrast, brightness, sharpness, or  
 21 colors. See ‘995 Patent, 6:27-36, 6:44-48, 9:49-52.  
 22

23 A user editing audio could monitor the audio in two ways. Of course, the user could  
 24 listen to it “by means of an audio monitor.” ‘995 Patent, 9:34-35. In addition, the user could  
 25 observe graphical or other visual representations of the audio on a monitor or display. As noted  
 26 above in the section on construction of the term “editing,” a user editing audio may be  
 27 “rearranging the order of portions of the audio program, increasing or decreasing the volume of  
 28

1 portions (or different frequency components) of the audio program, or enhancing the audio  
 2 program through filtering techniques (*e.g.*, to remove static and noise).” ‘839 Patent, 12:47-52.  
 3 The user might observe visually the portions and characteristics of the audio program (*e.g.*, an  
 4 audio waveform or a frequency band equalizer) while modifying or editing the sound.  
 5

6 Burst’s construction of “monitoring ... during editing” is also consistent with standard  
 7 dictionary definitions of the verb “monitor.” The word is defined as “to watch, observe, or  
 8 check,” as well as “to check or regulate the volume or quality of (sound) in recording.”  
 9 WEBSTER’S NEW COLLEGIATE DICTIONARY 737 (1981) (Exhibit 18).  
 10

11 Apple’s proposed construction – “watching (for video) and/or listening (for audio) ...  
 12 during editing” – does not account for a user’s ability to visually monitor while editing audio.  
 13 Apple’s restriction of the visual component of monitoring to video finds no support in the patent  
 14 claims, the specification, the dictionary definitions, or common sense. The restriction is  
 15 therefore improper. If the Court decides to construe the term “monitoring ... during editing” at  
 16 all, the Court should adopt Burst’s alternative construction and reject Apple’s proposal.  
 17

## 18 VI. CONCLUSION

19 For the reasons identified above, Burst respectfully requests that the Court adopt Burst’s  
 20 proposed constructions where construction is deemed necessary.  
 21

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Respectfully submitted,

23 \_\_\_\_\_  
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