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11 Attorneys for Defendant  
12 THE DIRECTV GROUP, INC.

13 UNITED STATES DISTRICT COURT  
14  
15 NORTHERN DISTRICT OF CALIFORNIA  
16  
17 SAN JOSE DIVISION

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20 IN RE ACACIA MEDIA  
21 TECHNOLOGIES CORPORATION  
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Case No. C-05-01114 JW (HRL)

MDL No. 1665

**DECLARATION OF ANDREW LIPPMAN**

Hearing Date: September 8, 2005

Hearing Time: 9:00 a.m.

Courtroom: Honorable James Ware

1 I, Andrew B. Lippman, declare as follows:

2 1. I, Andrew B. Lippman, am a citizen of the United States and reside in Salem,  
3 Massachusetts.

4 2. I have been retained by counsel for DIRECTV GROUP, INC., to provide expert  
5 testimony in this case concerning certain terms recited in United States Patent 6,144,702 ("702  
6 patent"). This Declaration is in rebuttal to the Declaration of S. Merrill Weiss In Support Of  
7 Acacia's Opposition To Motion For Summary Judgment ("Weiss' Declaration"), Declaration of  
8 Peter Alexander In Support of Acacia's Opposition To Motion For Summary Judgment  
9 ("Alexander's Declaration"), and supplemental statements made in a letter from Alan A. Block,  
10 Re In re Acacia Media Technologies, Dated August 10, 2005 to David J. Silbert ("Supplemental  
11 Statements," attached as Exhibit A hereto). I understand that Weiss and Alexander's Declarations  
12 have not changed, but for the addition of statements as outlined in the Supplemental Statements.

13 3. This declaration reflects my opinions and expected testimony with respect to the  
14 issues that I have been asked to address. I reserve the right to supplement this Declaration, if  
15 appropriate, based upon information learned subsequently.

16 **I. QUALIFICATIONS**

17 4. My education and employment history was summarized in the Declaration Of  
18 Andrew Lippman In Support Of Defendant DIRECTV GROUP, INC.'s Motion For  
19 Reconsideration Of The Court's Construction Of The Term "Transceiver," which I incorporate  
20 here by reference. I provide additional background information below that is relevant to the  
21 issues that I have been asked to address in this declaration.

22 5. I have over twenty-five years experience designing, building and working with  
23 video systems, focusing primarily on computer processing of pictures and moving image  
24 sequences, video coding and compression, and interactive systems. I have direct experience with  
25 a variety of video storage and communications devices.

26 6. In the early 1970's, I built a "shared bus" between the several minicomputers used  
27 at the Architecture Machine. In some ways, this presaged multiple computer networked systems.  
28 After that, I built a memory system that drove one of the first computer controlled video display

1 systems. This is the type of display that is used in all computer displays today, but it was novel  
2 then. (Prior to that, one literally drew graphics on a screen calligraphically, by directly tracing  
3 out lines; today, as with the display I worked on, the screen was painted television style, as a  
4 repeated series of modulated scan lines.)

5 7. I am familiar with optical videodisks. In 1975, my laboratory, then the  
6 Architecture Machine group, obtained the first prototype optical videodisk player, serial number  
7 11, that was made available to the non-secret community. (I now own this player and can  
8 produce it on demand.) Along with that player came the privilege of mastering optical videodisks,  
9 a technology then in its infancy. One of the first discs I mastered took seriously the notion that  
10 one-half an hour of video comprised 54,000 individual frames, each accessible on the videodisk.  
11 The Architecture Machine created a disc that contained 54,000 individual slides, the largest image  
12 archive of the time, and I personally created (mastered) the videodisk that comprised this  
13 "Slidathon." I still have the original 16mm movie film from which that disc was made.

14 8. I interfaced the videodisk player to computer graphics equipment to allow  
15 graphical overlay on the videodisk television images, and to provide computer control of the disc  
16 player itself. Using this, I created a disc with 54,000 images of a small town, Aspen, Colorado.  
17 These images consisted in part of a photo taken every ten feet along every street in the town and  
18 around every corner of every intersection. Using a computer database of the frames on this disk  
19 and a graphical, touch sensitive screen placed on the display, one could engage themselves in a  
20 simulated "drive" through the town seeing precisely what one would see if one was there, and  
21 allowing the user to take any route. This was funded by the Defense Advanced Research Projects  
22 Agency for the purpose of making a "map" that was so compelling and instructive it could  
23 substitute for the first (familiarization) visit to a new place. Later discs included interactive  
24 movies funded by the Office of Naval Research for the purpose of learning techniques of  
25 maintenance and repair. In 1981, the Architecture Machine ran a special Summer Session to  
26 teach the techniques of creating such interactive image archives. I mastered the disc that was  
27 given to the participants in that instruction.

1           9.       These systems, the Slidathon, the Movie-Map and the Movie-Manual, were well  
2 known at the time. They are still referenced today when interactive motion picture systems are  
3 far more commonplace and simpler to construct. They have all been published. I am familiar  
4 with video editing systems used for this kind of work, and with the notion of addressing  
5 individual frames of an image sequence.

6           10.      I also developed a patented system (with colleagues) that addressed the problem of  
7 distribution of a movie in a way that would allow it to be viewed on a normal television receiver  
8 yet not recorded on a videocassette machine. This goal is referred to in '702 patent at 5:45-47,  
9 although Yurt never mentions how one would do it. I was familiar in those days with the types  
10 and mechanisms of copy protection in use at the time (1980's). I presented my work at the IEEE  
11 conference on broadcasting.

12           11.      I joined the ISO/IEC JTC1/SC29/WG11, (MPEG) group in 1988, at its second  
13 meeting, after presenting a moving video coder that produced reasonable pictures at the data rate  
14 normally used for compact disc (CD) audio. This work was described at the Picture Coding  
15 Symposium in 1988. I worked on early video encoders and participated in MPEG through the  
16 development of the MPEG-2 standard. Under my direction, my students developed a competitive  
17 coder for consideration by the MPEG committee in its MPEG-1 deliberations. I am an author of  
18 a definitive paper on the MPEG-2 requirements that was released and published as part of a  
19 coordinated set of articles describing MPEG, in Image Communications, in 1995.

20           12.      I was the founding Associate Director of the MIT Media Laboratory and I have  
21 worked with Nicholas Negroponte, the founder of the lab, since 1969. Negroponte is noted as an  
22 authority by Weiss for the concept of metadata, phrased as the notion "bits about the bits." I am  
23 currently a senior research scientist at MIT, working in the Media Laboratory.

24           13.      I have served as an expert on several patent litigations only in the domain of video  
25 communications systems and the human interface, areas in which I am considered an expert. I  
26 am therefore conversant in the technical areas touched upon in this patent, as an academic, an  
27 inventor, and designer of the systems involved in the intersection of computing and television.  
28

1           14.     DVI, a digital video encoding method that Alexander mentions as part of the  
2 technology of the time, was developed at RCA's Sarnoff Laboratory (not by General Electric.) I  
3 was a consultant to IBM during its development and when it was later purchased by Intel, and I  
4 examined the technology at the Sarnoff Laboratories on behalf of IBM. The system (and patent)  
5 on which it is based is predicated on video encoding algorithms that I know well. They were  
6 originated by Professor Murat Kunt of the École Polytechnique Fédérale de Lausanne, where I  
7 earned my Ph.D. under the guidance of the same Professor Kunt. General Electric did not own  
8 RCA at the time. Since I knew the developers of DVI as well as the progenitor of the underlying  
9 algorithm, I can speak with some authority on the term as well as the general state of the art of  
10 video encoding at that time. I used DVI as an example problem for my MIT class in Digital  
11 Video.

## 12     **II.     QUESTIONS PRESENTED AND STATEMENT OF OPINIONS**

13           15.     I was asked to provide expert testimony on the following issues: (1) what, if any,  
14 meaning "identification encoder" would have had to a person of ordinary skill in the art in 1991  
15 based on its use in the '702 patent; (2) what, if any, meaning "sequence encoder" would have had  
16 to a person of ordinary skill in the art in 1991 based on its use in the '702 patent; and (3) whether  
17 the analysis and reasoning expressed in Weiss and Alexander's Declarations comport with how  
18 one of ordinary skill in the relevant art in 1991 would understand the meaning of the terms  
19 "identification encoder" and "sequence encoder" as used in the '702 patent.

20           16.     For the purposes of forming my opinions and conclusions, I have reviewed the  
21 '702 patent, the Markman Order dated July 12, 2004, Weiss' Declaration, Alexander's  
22 Declaration, Supplemental Statements, Declaration of Ian Leslie In Support Of Defendants'  
23 Motion To Strike, and other relevant documents.

24           17.     It is my opinion that, in the context of the '702 patent, the term "identification  
25 encoder" is ambiguous, and a person of ordinary skill in the art cannot reasonably understand the  
26 scope of this term.

1           18.     It is my opinion that, in the context of the '702 patent, the term "sequence encoder"  
2 is ambiguous, and a person of ordinary skill in the art cannot reasonably understand the scope of  
3 this term.

### 4     **III.     DETAILED BASES FOR OPINIONS**

5           19.     As an initial matter, I was asked to define the level of skill of a hypothetical person  
6 of ordinary skill in the art to which the claimed subject matter of the '702 patent pertains on or  
7 about January of 1991. The relevant art is multimedia processing, compression, and distribution  
8 systems. In my opinion, the patent's subject matter purports to address the architectural and  
9 processing elements of such system. Thus, in my opinion, a hypothetical person of ordinary skill  
10 in January 1991 would have a degree of Bachelor of Science in Electrical Engineering, Computer  
11 Science or Computer Engineering with some concentration in signal and image processing,  
12 interactive systems, and/or communications systems.

#### 13           **A.     IDENTIFICATION ENCODER**

14           20.     It is my opinion that there was no customary or ordinary meaning for an apparatus  
15 called an "identification encoder" to a person of ordinary skill in the art in 1991. The term  
16 "identification encoder" does not connote a definite structure to one skilled in the art. It is not a  
17 term I have used or am familiar with. The term "identification encoder" is also not an entry in  
18 any technical dictionaries of which I am aware. I have considered the individual component  
19 terms "identification" and "encoder" separately in several technical dictionaries and find no  
20 suggestion to combine these two terms to form a compound phrase that defines a definite  
21 structure to one skilled in the art.<sup>1</sup>

22           21.     As part of the Court's previous Markman proceedings, Acacia submitted four  
23 patents which used the term "identification encoder" (U.S. Patent Nos. 4,087,753; 4,425,754;  
24 4,994,916; and 5,204,900). I have reviewed these patents and in none of them is the term

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25     <sup>1</sup> The technical dictionaries I consulted are: IEEE Standard Dictionary of Electrical and  
26     Electronics Terms (4<sup>th</sup> ed. 1988) (IEEE 4<sup>th</sup> edition), attached as Exhibit B hereto; IEEE Standard  
27     Dictionary of Electrical and Electronics Terms (5<sup>th</sup> ed. 1993) (IEEE 5<sup>th</sup> edition), attached as  
28     Exhibit C hereto; Computer Dictionary and Handbook (1980), attached as Exhibit D hereto;  
   Dictionary of Information Technology (2<sup>nd</sup> ed. 1986), attached as Exhibit E hereto; and  
   Dictionary of Computing (3<sup>rd</sup> ed. 1990), attached as Exhibit F hereto.

1 identification encoder used in a way that is relevant to the "identification encoder" referred to in  
2 the '702 patent. For example, the '753 patent describes an "identification encoder" that encodes a  
3 vehicle identification number of an automobile into a pattern to modulate a responder signal. The  
4 '754 patent describes an "identification encoder" that encodes a signal which is uniquely  
5 correlated to a specific spinning machine in a textile mill. The '916 patent describes an  
6 "identification encoder" that distinguishes one source camera from other cameras in a  
7 surveillance system. The '900 patent describes an "identification encoder" that creates codes to  
8 identify the intended recipients of a scrambled video. Each "identification encoder" in these  
9 patents performs a different function, and, as will be discussed below, these functions are  
10 different from the functions ascribed to the "identification encoder" of the '702 patent.

11 22. Further, the "identification encoders" described in three of the patents (the '753  
12 patent, '916 patent and '900 patent) elaborate the meaning of the phrase as used by the patentee  
13 with respect to its position in the system, its purpose, and its operation. These patents do not  
14 make the assumption that the reader would understand the term "identification encoder." They  
15 treat it as a term they themselves each "coined" [see Weiss, paragraph 34] and, within the context  
16 of their respective environment, they explain what their "identification encoder" is and how it  
17 works with refreshing clarity.

18 23. As correctly noted by Weiss in his declaration at paragraph 39 (paraphrased here),  
19 an "encoder (and its related decoder) has a set of characteristics that define it. Those  
20 characteristics include an input [...], a function [...], and an output [...]." Encoder, therefore, is a  
21 generic term for a device that performs a transformation on input data by following some  
22 specified rule with the general intent that the rule can be inverted and either the actual (or some  
23 approximation of the) original data can be recovered by the decoder.

24 24. In each of these patents, the expected transformation occurs and its rule is  
25 described. Finally, the *identity* that is encoded is defined, viz., as the vehicle identification  
26 number of a vehicle, the identity of a television camera or the identity of a television receiver that  
27 is to receive a scrambled telecast.

1           25. I cannot comment as thoroughly on the yarn equipment patent, since that is far  
2 afield of my expertise. However, it appears from the specification that a similarly precise and  
3 specific description of the identification encoder is presented by the author.

4           26. Not surprisingly, after considering these patents, the Court in its Markman Order  
5 at page 35 said, the "patents cited by Acacia that disclose an identification encoder in [four]  
6 completely different ways, none of which are applicable here nor cited by the patents-in-suit,  
7 further exemplifies that one of skill in the art would not understand the meaning of the term  
8 'identification encoder.'" I agree with the Court's conclusion that there is no ordinary meaning to  
9 this term, and that the use of this term in the '753, '754, '916 and '900 patents further supports that  
10 conclusion.

11           27. I reviewed the '702 patent to determine whether the patent provided a definition of  
12 the term "identification encoder." I first considered the claims of the '702 patent. The term  
13 "identification encoder" appears in independent claims 1, 17, 27, and dependent claims 5, 6, 19,  
14 and 31.

15           28. The independent claims each recite different functions to an "identification  
16 encoder" or no function at all. For example, in independent claim 1 the "identification encoder  
17 gives items in said compressed data library a unique identification code." Claim 6 depends from  
18 claim 1, and recites that the "identification encoder" also allows entry of a popularity code.  
19 Independent claim 27 requires only the function that the "identification encoder" allows entry of a  
20 popularity code. Independent claim 17 recites no function for the "identification encoder."  
21 Dependent claims 5, 19 and 31 only require that the "identification encoder" be "in data  
22 communication with" another device in the transmission system. The claims therefore fail what  
23 we might call the Weiss test: that an encoder is defined by its input, the transformation it  
24 performs (in Weiss' words, the function), and its output.

25           29. The fact that different functions are ascribed to a particular device in a patent may  
26 not be troubling if that device has an ordinary meaning or if its structure is otherwise defined by  
27 the patentee. Here, however, an "identification encoder" has no ordinary meaning, and as will be  
28 discussed below, its structure is not defined in the patent specification. Moreover, the functions



1 recited in the claims are quite different. Thus, the functions themselves as expressed in the claims  
2 do not imply any particular structure or class of structures for the "identification encoder."

3 30. I turned to the specification to see if I could define this term from the context  
4 provided. The written description and the drawings of the patent specification, however, only  
5 raise more ambiguity. The specification discloses that the "identification encoder" is capable of  
6 performing many more functions than those recited in the claims. These functions are  
7 summarized in a table on page 15 of Weiss' Declaration.

8 31. As identified in Weiss' table, the specification indicates that the "identification  
9 encoder" has the capability to retrieve information from items from the source material library;  
10 assign a unique identification code to analog and/or digital items; encode copy protection  
11 information; log details about an item including program notes, a popularity code, item notes and  
12 production credits; assign a unique address code (file address); facilitate indexing songs by frame  
13 number; map item addresses to item names to provide an alternative method for accessing items;  
14 access a master item database to track and describe items in one or more compressed data  
15 libraries; and update names and other facts in the item database.

16 32. While the specification contemplates numerous functions that the "identification  
17 encoder" performs, it provides no guidance to the structure of the "identification encoder." Stated  
18 another way, the specification fails to tell *how* it encodes any of this information or what  
19 apparatus is engaged in doing it. Also, because the functions assigned to the "identification  
20 encoder" in the specification are so diverse, the functions collectively do not imply any particular  
21 structure or class of structures for the "identification encoder." Given that "identification  
22 encoder" has no common meaning, the wide range of functions ascribed to it begs for a detailed  
23 disclosure of an exemplary structure to give guidance as to what the "identification encoder" may  
24 be.

25 33. The '702 patent specification lacks meaningful description in other ways. The '702  
26 patent asserts, but does not describe how, the identification encoder operates on both analog and  
27 digital signal information. See, 6:56, 6:63 and 7:6. The specification also asserts, but does not  
28 describe how, the "identification encoder" operates at various points in the processing in the

1 transmission system. For example, the identification encoder may perform storage encoding  
2 before conversion, after conversion, and even after the item is stored in the compressed data  
3 library. See, 6:39-42. These are not trivial or obvious variations of the identification encoder's  
4 capability, but a material change of its scope which again begs for a detailed disclosure to inform  
5 one of ordinary skill in the art the scope of the patentee's intended invention.

6 34. In sum, the term "identification encoder" has no ordinary meaning, the '702 patent  
7 does not describe any structure for the "identification encoder." It is a "catch-all" black box. I  
8 conclude therefore that the term "identification encoder" as used in the '702 patent is ambiguous  
9 and a person of ordinary skill in the art cannot reasonably understand the scope of this term.

10 35. I now address the proposed constructions of the identification encoder as presented  
11 by Acacia and its experts S. Merrill Weiss and Peter Alexander. In my opinion, Acacia and its  
12 experts do not offer constructions of an "identification encoder" that are correct in the context of  
13 the '702 patent. Acacia proposes a definition that an "identification encoder" means simply "a  
14 structure that assigns a unique identification code." This definition ignores the multitude of other  
15 functions that are ascribed to the "identification encoder" in the specification, and in claims 1 and  
16 27. Nor does this definition shed any light on the structure or mechanism by which it will  
17 accomplish that goal. This definition fails for the reasons presented above – it also does not meet  
18 the Weiss test.

19 36. Acacia's selection of a single function (assigns a unique identification code) as the  
20 defining limitation for an "identification encoder" is arbitrary and contradicts the disclosure of the  
21 '702 patent. Because the term "identification encoder" has no ordinary understanding, and the  
22 specification discloses no structure, an "identification encoder" has meaning only to the extent  
23 that functions are ascribed to it. But the specification does not link a single limited function to the  
24 "identification encoder." The specification instead ascribes a multitude of functions to the  
25 "identification encoder." There is no reason why the "identification encoder" should be limited to  
26 a single function. Although both Weiss and Alexander recognize that the "identification encoder"  
27 performs a multitude of functions, Acacia, in its assertion, ignores this fact and links a single  
28 function of assigning a unique identification code to the "identification encoder."

1           37. Alexander's Declaration at paragraph 49 provides that because Figure 2a depicts  
2 the identification encoder 112 as an "identification encoding process," one skilled in the art would  
3 "naturally associate the term 'process' with a computer program." I disagree.

4           38. The patent expressly teaches that storage encoding which is a part of the  
5 identification encoding process involves "logging details," an operation that is performed by a  
6 human being. For example, in 8:30-33, "the song [...] was indexed by the system operator..."  
7 Similarly, the address code which again is part of the identification encoding process is assigned  
8 by the system operator in 10:37-38. The identification encoding "process," therefore, is not  
9 solely a computer program at all, at least not in Yurt's view; it is an intermediate series of steps  
10 (some of which are) performed by a person.

11           39. Even were it to be taken to mean a computer program, that is not sufficient to  
12 indicate to one skilled in the art the scope or boundaries of an "identification encoder." Stating  
13 that it is a computer program does not express how it would impress a unique identification code  
14 on analog information (as stated at 7:6) or how it would transform or encode digital data as stated  
15 in at 5:62, or even if its intended function is to encode this information with anything at all.  
16 Understanding that a computer program is involved in performing the function adds no clarity or  
17 specificity to the "structure" Acacia includes in its proposed definition. It is no more helpful than  
18 saying, for example, that we use a sewing machine to embroider a hat, or a transportation process  
19 to move goods. A computer program is merely a series of steps that are performed by the  
20 computer. It is the steps themselves that define, not the fact of it being a program. One generally  
21 requires an explanation of those steps.

22           40. In my view, designating a computer program as the structure for an "identification  
23 encoder" does not provide any limit on the scope of the term.

24           41. In addition, in paragraph 55 of his declaration, Alexander suggests that the  
25 structure is a database and describes a database approach that is disclosed in the '702 patent as an  
26 "alternative method of accessing items." See, 10:52-56. Citing to numerous passages from the  
27 specification, Alexander discusses how this method uses mapping item addresses to item names  
28 in a database. Although the specification discloses such a method, Alexander mischaracterizes

1 the specification by stating that such a method is an implementation of an identification encoder  
2 that creates a unique identification code. None of the passages Alexander cites in paragraph 55  
3 mention the term unique identification code. A unique identification code is not an item address  
4 or an item name, and there is no indication that a unique identification code would be included in  
5 the database referenced by Alexander in order to perform this "alternative method" of accessing  
6 items. Instead, it appears that this alternative method of accessing items functions independently  
7 of accessing items using a unique identification code. This is quite different from software that  
8 adds an identification code to an item. It implies a different flow from that shown in patent figure  
9 2a.

10 42. Alexander also substantially re-writes the patent and selectively draws upon  
11 phrases at diverse points in the specification to create a particular system. While the system he so  
12 designs may well deliver multimedia information, I cannot conclude that it is the one intended by  
13 the patentee.

14 43. To start, he uses the word encoder to denote a data entry process. The output of  
15 his identification encoder (or entry process) is a database, not encoded data in the sense of the  
16 words normally understood by someone skilled in the field and defined by Weiss. More  
17 importantly, Alexander omits inconsistencies in the specification where they don't suit his design.  
18 For example, the specification provides that after compression, a file may contain compressed  
19 audio and/or video data, time markers and program notes. See, 10:7-11. But the specification  
20 also provides that the notes appear to be a component of the item database. See, 10:45-46. Thus,  
21 it is not clear where the components of the item database are stored - with the file, or in an  
22 external item database. Alexander makes no attempt to reconcile this inconsistency.

23 44. Weiss, on the other hand, provides a comprehensive tabulation of where the term  
24 "encoder" is used in the specification and then dwells on the definition of the term. Specifically,  
25 he notes in paragraph 37 that an encoder "expresses a single character or a message in terms of a  
26 code." In paragraph 38, he explains that an "encoder" applies a code by following the rules of the  
27 code that establish the relationship between the underlying (input) and the coded (output) data.

1 As noted earlier, I accept Weiss' description of an encoder as a device having an input, an output,  
2 and an algorithm (function in his words).

3 45. Weiss then provides an example -- the automation system used at KYW television  
4 -- that is consistent with his definition. Indeed, the automation system generates a code, as  
5 described in paragraphs 45-50, and then creates a data base and applies the code to the tape.  
6 Indeed, that code is applied in two ways: electronically to the tape, and via a bar code to the tape  
7 carrier. See, paragraph 58. He thus shows structure for the coding process that implements the  
8 function and two variations of specific output.

9 46. However, when he (at paragraphs 62 and 63) provides a definition of  
10 "identification encoder," in contrast to his example, he simply repeats the unspecific word used in  
11 the patent, "assign," as a substitute for defining with specificity the output and structure. By  
12 itself, the word "assign" does not enlighten how one would apply any code at all to a "digital  
13 input formatter for digital source data," and to "an analog-to-digital converter for analog source  
14 data." See paragraph 63. Indeed, in analyzing the attributes of the identification encoder in the  
15 specification, Weiss' tabulation does not show what the input is, does not show where the output  
16 goes, and most important, does not show the algorithm or process by which the encoder applies  
17 its rule to the input.

18 47. Thus, we are presented with two very different interpretations of what the  
19 identification encoder does: In Alexander, it is a data entry process performed at least in part by a  
20 human operator, whereas in Weiss the input is the source material library, and the output is coded  
21 information directed (not at the item database) but at the (113) converter.

22 48. None of this is any clearer than the '702 patent specification. I am no closer to  
23 understanding whether the "identification encoder" performs Alexander's process of database  
24 creation, or whether it performs Weiss' transformation of the information from the source material  
25 library (or whether it performs something else). To add to the confusion, Weiss uses the word  
26 "content" in his definition, which hides the particular information that is being encoded. These  
27 two diverse (or quite different) representations of the identification encoder highlight the  
28 fundamental ambiguity in the '702 patent specification.

1           49. In brief, therefore, it is not clear what the identification encoder encodes, whether  
2 the additional information that is part of the item database is within the rubric of the identification  
3 encoder, and where the output of that encoder is directed. It appears that two experts have  
4 provided two different views of the operation of the claimed device that hold nothing in common  
5 more than an overlaid definition of the words.

6           50. Weiss and Alexander both describe systems that use unique identifiers, and  
7 exhibits to Alexander's declaration provides examples of those unique identifiers. Neither Weiss  
8 nor Alexander have identified a specific structure that is called an "identification encoder." The  
9 existence of unique identifiers do not inform one skilled in the art what device created or  
10 generated those identifiers, and no such systems were referred to as identification encoders.  
11 Therefore, Weiss and Alexander's Declarations and attached exhibits do not cure the absence of  
12 disclosure of an identification encoder's structure in the '702 patent specification.

13           51. Finally, there is another problem with Acacia's definition; the term "unique  
14 identification code" is itself ambiguous because it is functionally indistinguishable from a "unique  
15 address code." For example, the specification describes both the unique identification code  
16 ("UIDC") and unique address code ("UAC") to make items addressable and locatable. Claim 1  
17 recites that the "identification encoder" gives items in the compressed data library a unique  
18 identification code. The '702 patent at 10:9-11 provides,

19                   The file is addressable through the unique identification code  
20                   assigned to the data by the identification encoder.

21           52. However, the '702 patent at 10:25-9 also provides that,

22                   Stored items are preferably accessed in compressed data library  
23                   through a unique address code. The unique address code is a file  
24                   address for uniquely identifying the compressed data items stored in  
25                   the compressed data library section of a library system.

26           53. Also, both unique identification code and unique address code are described in the  
27 specification to make items accessible. For example, at 11:1-4,

28                   As described in more detail later, a user may preferably access an  
                    item via its unique identification code, via its title, or the user may  
                    use other known facts for accessing an item.

1 But the specification also provides at 11:4-7 that,

2 The user may access items in the compressed data library 118  
3 directly using the unique address code or he may obtain access via  
4 the remote order processing and item database 300.

5 54. Finally, both unique identification code and unique address code are assigned to  
6 an item by the identification encoder 112 during storage encoding. See, 6:35-37, and 10:37-40,  
7 respectively.

8 55. Yet, the '702 patent specification makes clear that the unique identification code is  
9 not a unique address code. For example, at 6:43-45,

10 In a preferred embodiment of the present invention, the method of  
11 encoding the information involves assigning a unique identification  
12 code and a file address to the item,...

13 And, at 10:26-27, "The unique address code is a file address ..."

14 56. Because the two codes are distinct yet defined in the patent as having the same  
15 functions, a person skilled in the art will not be able to distinguish between unique identification  
16 code and unique address code. Because the specification does not give any example of a unique  
17 identification code, or how a unique identification code may be generated, encoded with or  
18 assigned to the item, and because unique identification code itself is defined in functional form  
19 the same as a unique address code, one skilled in the art can only guess as to whether an identifier  
20 his system uses is a unique identification code or unique address code.

21 57. In his declaration, Alexander represents in paragraphs 54 and 55 that the '702  
22 patent provides sufficient description to allow a person skilled in the art to implement "an  
23 identification encoder capable of creating unique identification codes." I disagree.

24 58. In paragraph 54 of his declaration, Alexander cites to 6:37-44 of the '702 patent.  
25 However, that passage describes that "the unique address code is used for requesting and  
26 accessing information and items throughout the transmission and receiving system." As already  
27 discussed, a unique address code is not a unique identification code. Therefore, this passage does  
28 not assist one skilled in the art to understand how an identification encoder is capable of creating  
a unique identification code.

1           **B.     SEQUENCE ENCODER**

2           59.     It is my opinion that there was no customary or ordinary meaning for an apparatus  
3 called a "sequence encoder" to a person of ordinary skill in the art in 1991. The term "sequence  
4 encoder" does not connote a definite structure to one skilled in the art. It is not a term I have used  
5 or am familiar with. The term "sequence encoder" is not an entry in any technical dictionaries of  
6 which I am aware. I have considered the individual component terms "sequence" and "encoder"  
7 separately in several technical dictionaries and find no suggestion to combine these two terms to  
8 form a compound phrase that defines a definite structure to one skilled in the art.<sup>2</sup> Therefore, I  
9 agree with the Court's conclusion that the term "sequence encoder" has no ordinary meaning.

10          60.     It has been brought to my attention that in the prior Markman hearing, Acacia  
11 submitted four patents which used the term sequence encoder (U.S. Patent Nos. 3,439,341;  
12 4,890,283; 5,097,410; and 5,127,021), and I have reviewed these patents. Although each patent  
13 uses the term "sequence encoder," these patents show that there is no ordinary meaning to this  
14 term. The term "sequence encoder" as used in each of these patents refers to different devices  
15 that perform different functions. For instance, in U.S. Patent No. 3,439,341, the term is used with  
16 respect to a device that detects a particular sequence of letters and then generates a coded output  
17 that represents the sequence of letters. In U.S. Patent No. 5,097, 410, the term is used with  
18 respect to a device that generates multiple control signals in a sequence. Both U.S. Patent Nos.  
19 4,890,283 and 5,127,021 use the term "direct-sequence encoder". In U.S. Patent No. 4,890,283, a  
20 "direct sequence encoder" combines a bit of information with a pseudo-random sequence, and in  
21 U.S. Patent No. 5,127,021, a "direct-sequence encoder" combines multiple bits of information  
22 with multiple pseudo-random sequences and then combines the multiple results into a single  
23 signal. These are not discussing a sequence encoder, they are discussing a direct-sequence  
24 encoder, a term of art used to describe a specific algorithm for generating spread spectrum radio

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25           <sup>2</sup> The technical dictionaries I consulted are: IEEE Standard Dictionary of Electrical and  
26 Electronics Terms (4<sup>th</sup> ed. 1988) (IEEE 4<sup>th</sup> edition), attached as Exhibit B hereto; IEEE Standard  
27 Dictionary of Electrical and Electronics Terms (5<sup>th</sup> ed. 1993) (IEEE 5<sup>th</sup> edition), attached as  
28 Exhibit C hereto; Computer Dictionary and Handbook (1980), attached as Exhibit D hereto;  
Dictionary of Information Technology (2<sup>nd</sup> ed. 1986), attached as Exhibit E hereto; and  
Dictionary of Computing (3<sup>rd</sup> ed. 1990), attached as Exhibit F hereto.



1 frequency signals. None of these patents describe a sequence encoder being a "time encoder" or  
2 applying time markers as asserted by Acacia.

3 61. One of the exhibits attached to the Alexander Declaration was written by me. In  
4 that article, I do not use or define the term "sequence encoder." I present a coding (compression)  
5 scheme for "sequence of images," what today we might call video clips. A feature of that  
6 particular encoding is that it allows reconstruction of the image sequence at different scales and  
7 with different time bases, or frame rates.

8 62. I examined the claims of the '702 patent. The term "sequence encoder" is recited  
9 in independent claims 1 and 17, and dependent claims 7, 18, 32 and 33. Claim 1 requires only  
10 that a "sequence encoder" be somewhere in the transmission system. Claim 7, depending from  
11 claim 1, recites "said sequence encoder transforms digital data blocks into a group of addressable  
12 data blocks." I understand that an independent claim and its dependent claim have a difference in  
13 scope, with the dependent claim narrowing the scope of the independent claim. Therefore, all  
14 that I can conclude from dependent claim 7 is that the sequence encoder of claim 1, must perform  
15 one or more functions other than the function of transforming digital data blocks into a group of  
16 addressable data blocks. Because the specification does not use or define the term sequence  
17 encoder, these additional functions are unknown.

18 63. Alexander states in paragraph 18 of his declaration that:

19 The first express reference to sequence encoder appears in the  
20 claims themselves (at 19:30 (claim 1)) and merely indicates that a  
21 sequence encoder is distinct from an identification encoder.  
22 However, at 20:2, we are told that a "sequence encoder transforms  
23 digital data blocks into a group of addressable data blocks." This  
24 clearly describes to one of ordinary skill in the art the function of  
25 the sequence encoder.

26 64. I disagree with this statement. Column 20:2 is dependent claim 7 which depends  
27 from claim 1. As discussed above, all that can be concluded from reading claims 1 and 7 is that  
28 the claimed sequence encoder in claim 1 does something other than the function recited in the  
dependent claim.

1           65.     Claims 17 and 18 only require that the sequence encoder be "in data  
2 communication with" another device of the transmission system, and do not assist one skilled in  
3 the art to understand the scope, the function or the structure of a "sequence encoder."

4           66.     Claim 32, depending from claim 27, provides that the transmission system  
5 includes a sequence encoder. Claim 33, depending from claim 32, requires "said sequence  
6 encoder transforms digital data blocks into a group of addressable data blocks." Similar to my  
7 examination of claims 1 and 7, claim 33 does not define the scope of the term "sequence encoder"  
8 recited in claim 32.

9           67.     The term "sequence encoder" does not appear in the specification of the '702  
10 patent. Because the term "sequence encoder" has no ordinary meaning, and the term is not  
11 defined in the specification, a person of ordinary skill in the art cannot understand what is meant  
12 by a sequence encoder.

13           68.     I now address whether there is any other well-defined element in the specification  
14 that could shed light on the meaning of a sequence encoder as suggested by Weiss and Alexander.  
15 As discussed below, I find it does not.

16           69.     The patent mentions the term sequence at 7:50-54,

17                   The transmission system 100 of the present invention also  
18                   preferably includes ordering means for placing the formatted  
19                   information into a sequence of addressable data blocks. As shown  
                    in FIG. 2a, the ordering means in the preferred embodiment  
                    includes a time encoder 114.

20           70.     Weiss and Alexander rely on this paragraph (at least in part) to equate the terms  
21 sequence encoder and time encoder. Alexander makes this argument by elimination: since there  
22 is no other candidate encoder to which the term can apply, it must apply to the time encoder  
23 referenced in column 7. They engage in a strained reading of the specification to conclude that  
24 the sequence encoder is the time encoder. In doing so, neither Weiss nor Alexander directly  
25 explain why two different terms should have the same meaning. The patentee explicitly used the  
26 term sequence encoder in the claims instead of time encoder in the claim. That the patentees  
27 selected two different terms compels the reasonable conclusion that two different meanings were  
28 intended.

1           71. Time is generally used to synchronize or coordinate events, and sequence is used  
2 to order them. Their only similarity is that both are usually monotonically increasing series, but  
3 sequencing and timing are not generally used for the same thing nor are they applied to the same  
4 elements in a normal system. A simple colloquial example illustrates this point. A person  
5 waiting for a table at a restaurant would like to know how long until his table is ready. He is told  
6 that he is third in a sequence, i.e., one after the second person, but one before the fourth person.  
7 Knowing his place in a sequence does not advise him of how much time will pass before he will  
8 have his table. Similarly, knowing how much time will pass before he sits will not advise him of  
9 how many patrons are before him. Clearly, time and sequence are different concepts - a sequence  
10 need not be temporal in nature. A person skilled in the art understands this distinction and would  
11 not have considered these terms synonymous.

12           72. The situation is the same with respect to multimedia data. Time can be used to  
13 synchronize the replay of audio and video that has undergone separate processing and/or delivery  
14 via separate channels. Time code facilitates dual system editing where the sound and the picture  
15 are edited on different machines, perhaps by different people. The time code can then re-marry  
16 the audio with the correct video for ultimate playback.

17           73. Conversely, when one stores or delivers information, it is often divided into blocks  
18 or packets, which are commonly all the same size. Different packets or disc blocks may not  
19 contain the same duration of video, audio or accompanying data. For example, if there was no  
20 closed captioning and no augmenting information, then the data would take no space in the  
21 packet, leaving room for more sound or image. In this case, each packet or block can then  
22 contain a different amount of temporal information. Ordering them with a sequence number  
23 allows a disc controller or communications controller to insure both that the packets or blocks are  
24 presented to the next stage of processing in the correct order *and that all are present and*  
25 *accounted for.*

26           74. In essence, time synchronizes replay, and sequence provides order.

27           75. Another example involves the ordering of data within a single frame of video or  
28 within a single picture as one generally does in a video encoder, or compression system. Data in

1 a single frame or picture is ordered in a sequence of blocks, which then form another sequence of  
2 macro-blocks. Each of these blocks and macro-blocks has its own address within a single frame.  
3 These block sequences are not only independent of time, but they cannot, by definition, be  
4 ordered by time by virtue of the fact that they are within a single video frame. Indeed, Alexander  
5 concedes that units of time are, at best, limited to the frame level, and yet data within a single  
6 frame involves sequences.

7 76. Likewise, an optical video disk could be encoded with either sequence numbers  
8 (frame numbers) or time codes depending on its format.

9 77. This is germane because the patent is not limited to audio and video streams.  
10 Indeed, the patent discloses the processing of "still pictures, files, books . . . [and] documents of  
11 various sorts." See, 6:7-15. It is inapposite to view still pictures, files, and pages of books as  
12 involving units of time, and yet they all involve data that must be in a specific sequence.

13 78. Time and sequence are therefore different. That explains why one would quite  
14 naturally use different words for each concept. I therefore conclude that a person of ordinary skill  
15 in the art would not equate the sequence encoder mentioned in the claims with a time encoder as  
16 mentioned in the specification.

17 I declare under penalty of perjury that the foregoing statements are true and correct to the  
18 best of my knowledge, and I executed this declaration on 25 August, 2005 at  
19 Cambridge, Massachusetts.

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Case No. C-05-01114 JW (HRL)

MDL No. 1665

IN RE ACACIA MEDIA  
TECHNOLOGIES CORPORATION

**PROOF OF SERVICE**

Hearing Date: September 8, 2005

Hearing Time: 9:00 a.m.

Courtroom: Honorable James Ware

AND ALL RELATED AND/OR  
CONSOLIDATED CASE ACTIONS

1 I, Trisha Dolman, declare:

2 I am employed in Los Angeles County, California. I am over the age of eighteen years  
3 and not a party to the within-entitled action. My business address is 555 South Flower Street, 50<sup>th</sup>  
4 Floor, Los Angeles, California 90017. On August 25, 2005, I served a copy of the within  
5 document(s):

6 **DECLARATION OF ANDREW LIPPMAN**

7  
8 ☐ by transmitting via facsimile the document(s) listed above to the fax number(s) set  
forth below on this date before 5:00 p.m. on the **attached Service List**

9  
10 ☒ by placing the document(s) listed above in a sealed envelope with postage thereon  
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forth on the **attached Service List**

11  
12 ☐ by placing the document(s) listed above in a sealed \_\_\_\_\_ envelope and  
affixing a pre-paid air bill, and causing the envelope to be delivered to a  
13 agent for delivery.

14 ☐ by personally delivering the document(s) listed above to the person(s) at the  
address(es) set forth below.

15  
16 I am readily familiar with the firm's practice of collection and processing correspondence  
17 for mailing. Under that practice it would be deposited with the U.S. Postal Service on that same  
18 day with postage thereon fully prepaid in the ordinary course of business. I am aware that on  
19 motion of the party served, service is presumed invalid if postal cancellation date or postage  
20 meter date is more than one day after date of deposit for mailing in affidavit.

21 I declare under penalty of perjury under the laws of the State of California that the above  
22 is true and correct.

23 Executed on August 25, 2005, at Los Angeles, California.

24   
25 Trisha Dolman

26  
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