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(Also referred to as FORM PTO-1465)

REQUEST FOR EX PARTE REEXAMINATION TRANSMITTAL FORM

64660 U.S. PTO



11/21/05

Address to:
**Mail Stop Ex Parte Reexam
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

Attorney Docket No.:

Date: Nov. 16, 2005

1. This is a request for *ex parte* reexamination pursuant to 37 CFR 1.510 of patent number 4,698,672 issued Oct. 6, 1987. The request is made by:

patent owner. third party requester.

64660 U.S. PTO
90007808

2. The name and address of the person requesting reexamination is:

Public Patent Foundation, Inc.

1375 Broadway, Suite 600

New York, NY 10018

11/21/05

3. a. A check in the amount of \$ _____ is enclosed to cover the reexamination fee, 37 CFR 1.20(c)(1);

b. The Director is hereby authorized to charge the fee as set forth in 37 CFR 1.20(c)(1) to Deposit Account No. _____ (submit duplicative copy for fee processing); or

c. Payment by credit card. Form PTO-2038 is attached.

4. Any refund should be made by check or credit to Deposit Account No. _____. 37 CFR 1.26(c). If payment is made by credit card, refund must be to credit card account.

5. A copy of the patent to be reexamined having a double column format on one side of a separate paper is enclosed. 37 CFR 1.510(b)(4)

6. CD-ROM or CD-R in duplicate, Computer Program (Appendix) or large table
 Landscape Table on CD

7. Nucleotide and/or Amino Acid Sequence Submission
If applicable, items a. - c. are required.

a. Computer Readable Form (CRF)

b. Specification Sequence Listing on:

i. CD-ROM (2 copies) or CD-R (2 copies); or

ii. paper

c. Statements verifying identity of above copies

8. A copy of any disclaimer, certificate of correction or reexamination certificate issued in the patent is included.

9. Reexamination of claim(s) 1-46 is requested.

10. A copy of every patent or printed publication relied upon is submitted herewith including a listing thereof on Form PTO/SB/08, PTO-1449, or equivalent.

11. An English language translation of all necessary and pertinent non-English language patents and/or printed publications is included.

11/16/2005 SERIAL DATA 00000000 90007808

[Page 1 of 2]

This collection of information is required by 37 CFR 1.510. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Ex Parte Reexam, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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12. The attached detailed request includes at least the following items:
- a. A statement identifying each substantial new question of patentability based on prior patents and printed publications. 37 CFR 1.510(b)(1)
 - b. An identification of every claim for which reexamination is requested, and a detailed explanation of the pertinency and manner of applying the cited art to every claim for which reexamination is requested. 37 CFR 1.510(b)(2)

13. A proposed amendment is included (only where the patent owner is the requester). 37 CFR 1.510(e)

14. a. It is certified that a copy of this request (if filed by other than the patent owner) has been served in its entirety on the patent owner as provided in 37 CFR 1.33(c).

The name and address of the party served and the date of service are:

DAVID E. LOVEJOY, FLIESLER, DUBB, MEYER & LOVEJOY
FOUR EMBARCADERO CENTER, SUITE 400
SAN FRANCISCO, CA 94111

Date of Service: _____; or

- b. A duplicate copy is enclosed since service on patent owner was not possible.

15. Correspondence Address: Direct all communication about the reexamination to:

The address associated with Customer Number:

OR

Firm or Individual Name PUBLIC PATENT FOUNDATION, INC.

Address 1375 BROADWAY, SUITE 600

City NEW YORK State NY Zip 10018

Country U.S.A.

Telephone (212) 796-0570 Email INFO@PUBPAT.ORG

16. The patent is currently the subject of the following concurrent proceeding(s):
- a. Copending reissue Application No. _____
 - b. Copending reexamination Control No. _____
 - c. Copending Interference No. _____
 - d. Copending litigation styled: SEE ATTACHED APPENDIX C

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

[Signature]
Authorized Signature

Nov. 16, 2005
Date

DANIEL B. RAVICHER
Typed/Printed Name

47,015 For Patent Owner Requester
Registration No. For Third Party Requester

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT NO.: 4,698,672
ISSUED: October 6, 1987
FOR: CODING SYSTEM FOR REDUCING REDUNDANCY

ATTACHMENT TO FORM PTO-1465,
REQUEST FOR *EX PARTE* REEXAMINATION

SIR:

The Public Patent Foundation (“PUBPAT”), a not-for-profit public service organization that works to protect the public from the harms caused by wrongly issued patents and unsound patent policy, respectfully requests ex parte reexamination under 35 U.S.C. §§ 302 – 307 and 37 C.F.R. § 1.510 of every claim of United States Patent No. 4,698,672 issued October 6, 1987 to Chen et al. (“’672 patent”) and assigned to Compression Labs, Inc. (“CLI”) because they are all invalid under 35 U.S.C. §§ 102 and 103 and their existence is causing significant public harm.¹

THE ’672 PATENT IS CAUSING SIGNIFICANT PUBLIC HARM

The ’672 patent claims methods and apparatus for processing digital signals to remove redundant information. More specifically, the ’672 patent claims relate to compression of digital images. Despite not making any product or service itself, CLI is using the ’672 patent

¹ Appendix A contains a copy of the ’672 patent.

to harass anyone that implements the Joint Photographic Experts Group (“JPEG”) format, an international standard for the sharing of photo-quality images electronically. This campaign of harassment includes the filing of infringement lawsuits against dozens of companies that offer the public products or services relating to electronic image creation or distribution.² CLI's aggressive assertion of the '672 patent is causing substantial public harm by threatening the JPEG standard on which the public relies. Although this issue is not grounds to grant this request for reexamination, PUBPAT respectfully requests that it be considered when determining whether the validity of the '672 patent merits review by your office.

THE SUBSTANTIAL NEW QUESTION OF PATENTABILITY

The substantial new question of patentability raised by this request is whether claims 1 through 46 of the '672 patent were anticipated or rendered obvious by U.S. Patent No. 4,541,012 to Tescher et al (“Tescher et al”).³ This is a new question of patentability because Tescher et al was not of record during prosecution of the '672 patent. A detailed explanation of the pertinency and manner of applying Tescher et al to each of claims 1 through 46 of the '672 patent is set forth below.

Note that Tescher et al was owned by CLI during prosecution of the '672 patent, meaning that CLI must have been aware of its existence at the time. However, despite this and despite CLI's Rule 56 obligation, CLI never disclosed it to the PTO. Further, there were five other prior art patents related to signal compression owned by CLI at the time of prosecution of the '672 patent (U.S. Patent Nos. 4,410,916, 4,394,774, 4,385,363, 4,288,782, and 4,091,424) that were also not disclosed to the Examiner. Three of those patents even had a common

² Appendix C contains a list of all copending Litigation.

³ Appendix B contains a copy of Tescher et al.

inventor with the '672 patent, Mr. Wen-hsiung Chen, but neither he nor anyone else involved with the prosecution of the '672 patent ever identified them to your office.

Further still, CLI had two other patent applications (ultimately issued as U.S. Patent Nos. 4,704,628 and 4,710,813) related to signal compression pending at the same time as the application that issued into the '672 patent, but did not disclose them to the Examiner either. Although CLI's apparent failure to comply with its Rule 56 obligation is not grounds to grant this request for reexamination, PUBPAT respectfully requests that it be considered when determining whether the validity of the '672 patent merits review by your office.

TESCHER ET AL ANTICIPATES OR RENDERS OBVIOUS THE '672 PATENT

The '672 patent's application date is October 27, 1986. Since Tescher et al's issue date is September 10, 1985, more than a year before the '672 patent's application date, Tescher et al is prior art to the '672 patent under 35 U.S.C. § 102(b). The chart below sets forth an element-by-element comparison of claims 1 - 11 of the '672 patent to Tescher et al. Specific discussion of claims 12 – 46 of the '672 is avoided for the sake of efficiency because they are each either virtually identical to claims 1-11 or merely obvious implementations thereof. In essence, every element of each claim of the '672 patent was expressly taught by or obvious in light of Tescher et al. As such, each claim of the '672 patent is invalid and should be canceled.

<u>'672 PATENT</u>	<u>TESCHER ET AL</u>
1. A method for processing digital signals,	Tescher et al was directed to the processing of digital signals. Abstract; Description of the Preferred Embodiments, 5:27 – 8:57.

<u>'672 PATENT</u>	<u>TESCHER ET AL</u>
<p>where the digital signals have first values, second values and other values,</p>	<p>Tescher et al's "first values" were zero. 8:25.</p> <p>Tescher et al's "second values" were predictive mean values that were greater than or equal to a run length threshold. 7:43-56 ("the predictive mean value").</p> <p>Tescher et al's "other values" included a block address of a next block to be updated and a frame sync code. Fig. 8; 8:26-28 ("If the zero run extends to the end of the block, a special end of block code is generated").</p>
<p>to reduce the amount of data utilized to represent the digital signals and to form statistically coded signals such that the more frequently occurring values of digital signals are represented by shorter code lengths and the less frequently occurring values of digital signals are represented by longer code lengths, comprising,</p>	<p>Tescher et al taught a compression of data that includes Huffman coding technique, "in which the number of bits per specific character depends upon the probability of occurrence of that character." 7:4-6. 1:62-65. Inherent in Huffman coding was the characteristic that fewer bits are used to encode more frequently occurring values.</p>
<p>forming first runlength code values representing the number of consecutive first values of said digital signals followed by said second value,</p>	<p>Tescher et al taught forming a runlength code value whenever there are consecutive zeros ("first values") followed by a predictive mean value greater than or equal to a run length threshold ("second value"). Fig. 7 & Fig. 8; 8:23-25 ("a run length code corresponding to the number of successive quantized coefficients having value zero is generated").</p>
<p>forming second runlength code values representing the number of consecutive first values of said digital signals followed by one of said other values.</p>	<p>Tescher et al taught forming a different runlength code value whenever there are consecutive zeros ("first values") followed by a block address of a next block to be updated or a frame sync code ("other values"). Fig. 8; 8:26-28 ("If the zero run extends to the end of the block, a special end of block code is generated").</p>

<u>'672 PATENT</u>	<u>TESCHER ET AL</u>
2. The method of claim 1 further including the step of amplitude encoding said other values.	<p>At the time the application that eventually issued into the '672 patent was filed, amplitude encoding was well known in the art. '672 patent, 1:62-65. One of ordinary skill in the art would have been motivated to apply knowledge of amplitude encoding to the teaching of Tescher et al because they were both related to the art of compressing data.</p> <p>Further, the '672 patent defines "amplitude encoding" to include representing the actual amplitude of a value. 5:42-45 ("the runlength code is typically followed by an amplitude code which explicitly encodes the actual amplitude of the other value.") Tescher et al's values were encoded as their actual amplitude value. Thus, under the definition given "amplitude encoding" by the '672 patent itself, Tescher et al taught "amplitude encoding said other values."</p>
3. The method of claim 1 further including the step of encoding said first and second runlength code values with a sign value.	Tescher et al taught encoding values with a sign value. 7:45-48 ("In the preferred embodiment, each quantized cosine coefficient comprises a 12 bit digital character having 1 sign bit and 11 bits of magnitude").
4. The method of claim 1 wherein said first values have amplitude zero,	Tescher et al's "first values" were zero. 8:25.
said second values have absolute amplitude one,	Tescher et al's "second values" included predictive mean values equal to a run length threshold of one. 8:35-36 ("In the preferred embodiment, the numerical value of the run length threshold is one").
and said other values have absolute amplitudes greater than one	Tescher et al's "other values" included a block address of a next block to be updated or a frame sync code, nether of which were limited to being less than or equal to one. Fig. 8; 8:26-28 ("If the zero run extends to the end of the block, a special end of block code is generated").
whereby said first and second runlength codes values are formed representing the number of consecutive zeros.	At the time the application that eventually issued into the '672 patent was filed, it was inherent in runlength coding that runlength code values represent the number of consecutive zeros.

<u>'672 PATENT</u>	<u>TESCHER ET AL</u>
<p>5. The method of claim 1 wherein said first values have the highest frequency of occurrence in said digital signals, wherein said second values have the next highest frequency of occurrence in said digital signals, and wherein said other values have the lowest frequency of occurrence in said digital signals.</p>	<p>Tescher et al's method was applicable to digital signals wherein zeros ("first values") had the highest frequency of occurrence, predictive mean values greater than or equal to a run length threshold ("second values") had the next highest frequency of occurrence, and a block address of a next block to be updated or a frame sync code ("other values") had the lowest frequency of occurrence.</p> <p>Further, Tescher et al taught the general concept of Huffman coding that those values with the highest frequency of occurrence are represented with shorter lengths than those values with lower frequency of occurrence. Appendix A. Thus, it would have been obvious to one of ordinary skill in the art to implement Tescher et al's compression technique such that those values with the highest frequency of occurrence are represented with shorter lengths than those values with lower frequency of occurrence. The express teaching of Huffman coding by Tescher et al provided the necessary motivation to do so.</p>
<p>6. A method for processing input signals to reduce the amount of data utilized to represent the input signals, the steps comprising,</p>	<p>Tescher et al was directed to the compression of digital signals. Abstract; Description of the Preferred Embodiments, 5:27 – 8:57.</p>
<p>processing the input signals to form processed signals where the processed signals are digital numbers having first values, second values, and other values,</p>	<p>Tescher et al's "first values" were zero. 8:25.</p> <p>Tescher et al's "second values" were predictive mean values that were greater than or equal to a run length threshold. 7:43-56 ("the predictive mean value").</p> <p>Tescher et al's "other values" included a block address of a next block to be updated and a frame sync code. Fig. 8; 8:26-28 ("If the zero run extends to the end of the block, a special end of block code is generated").</p>

<u>'672 PATENT</u>	<u>TESCHER ET AL</u>
coding each digital number to form statistically coded signals such that the more frequently occurring values in the digital numbers are represented by shorter code lengths and the less frequently occurring values of coded signals are represented by longer code lengths, said coding including,	Teschler et al taught a compression of data that included Huffman coding technique, "in which the number of bits per specific character depends upon the probability of occurrence of that character." 7:4-6. 1:62-65. Inherent in Huffman coding was the characteristic that fewer bits are used to encode more frequently occurring values.
forming first runlength code values representing the number of consecutive first values followed by said second value in a digital number,	Teschler et al taught forming a runlength code value whenever there were consecutive zeros ("first values") followed by a predictive mean value greater than or equal to a run length threshold ("second value"). Fig. 7 & Fig. 8; 8:23-25 ("a run length code corresponding to the number of successive quantized coefficients having value zero is generated").
forming second runlength code values representing the number of consecutive first values followed by one of said other values in the digital number.	Teschler et al taught forming a different runlength code value whenever there were consecutive zeros ("first values") followed by a block address of a next block to be updated or a frame sync code ("other values"). Fig. 8; 8:26-28 ("If the zero run extends to the end of the block, a special end of block code is generated").
7. The method of claim 6 wherein said coding step includes the step of amplitude encoding said other values.	<p>At the time the application that eventually issued into the '672 patent was filed, amplitude encoding was well known in the art. '672 patent, 1:62-65. One of ordinary skill in the art would have been motivated to apply knowledge of amplitude encoding to the teaching of Tescher et al because they were both related to the art of compressing data.</p> <p>Further, the '672 patent defines "amplitude encoding" to include representing the actual amplitude of a value. 5:42-45 ("the runlength code is typically followed by an amplitude code which explicitly encodes the actual amplitude of the other value.") Tescher et al's values were encoded as their actual amplitude value. Thus, under the definition given "amplitude encoding" by the '672 patent itself, Tescher et al taught "amplitude encoding said other values."</p>

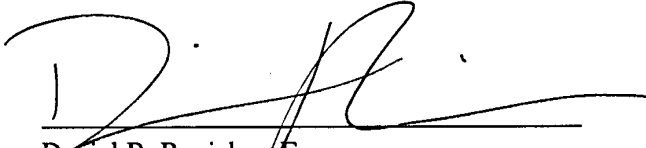
<u>'672 PATENT</u>	<u>TESCHER ET AL</u>
8. The method of claim 6 wherein said coding step includes the step of encoding said first and second runlength code values with a sign value.	Tescher et al taught encoding values with a sign value. 7:45-48 ("In the preferred embodiment, each quantized cosine coefficient comprises a 12 bit digital character having 1 sign bit and 11 bits of magnitude").
9. The method of claim 6 wherein said processing step forms said first values with amplitude zero,	Tescher et al's "first values" were zero. 8:25.
forms said second values with absolute amplitude one, and forms said other values with absolute amplitudes greater than one.	Tescher et al's "second values" included predictive mean values equal to a run length threshold of one. 8:35-36 ("In the preferred embodiment, the numerical value of the run length threshold is one").
and forms said other values with absolute amplitudes greater than one.	Tescher et al's "other values" included a block address of a next block to be updated or a frame sync code, nether of which were limited to being less than or equal to one. Fig. 8; 8:26-28 ("If the zero run extends to the end of the block, a special end of block code is generated").
10. The method of claim 6 wherein a table is provided storing a plurality of runlength code values representing a plurality of different numbers of consecutive first values followed by said second value, and storing a plurality of second runlength code values representing a plurality of different numbers of consecutive first values followed by one of said other values, said first runlength code values and said second runlength code values statistically organized in said table such that the statistically more frequently occurring runlength code values are represented by shorter code lengths and the less frequently occurring values are represented by longer code lengths, and wherein said step of forming first runlength code values is performed by table lookup from said table, said step of forming second runlength code values is performed by table lookup from said table.	Tescher et al taught the use of a table to store Huffman Code values representing different values (called "Entries") that were organized such that the more frequently occurring values were represented by shorter code lengths. Appendix A. Tescher et al also taught forming code values by looking up code values from the table. 7:35-37 ("encoded using dedicated Huffman code table number 7 shown in appendix A"). It would have been obvious to one of ordinary skill in the art to use a similar compression code table for the runlength values taught by Tescher. One of ordinary skill in the art would have been motivated to use such a table for runlength coding for the same reasons that Tescher et al used tables for Huffman coding.

<u>'672 PATENT</u>	<u>TESCHER ET AL</u>
11. The method of claim 6 wherein said coding step further includes the step of providing an end code to designate the end of a digital number.	Teschler et al taught the use of an end code. 8:26-28 ("If the zero run extends to the end of the block, a special end of block code is generated").

CONCLUSION

For the reasons set forth above, each claim of the '672 patent is invalid in light of Tescher et al. PUBPAT respectfully requests that they be reexamined ex parte and ultimately canceled in their entirety.

November 16, 2005
Date


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APPENDIX A

U.S. PATENT NO. 4,698,672

APPENDIX C

COPENDING LITIGATION

U.S. Patent No. 4,698,672 is currently the subject of the following copending litigation:

1. *Compression Labs, Inc. v. Adobe Systems Inc., et al.*, C.A. No. 2:04-158;
2. *Compression Labs, Inc. v. Dell, Inc., et al.*, C.A. No. 2:04-159;
3. *Compression Labs, Inc. v. Acer America Corp., et al.*, C.A. No. 2:04-294;
4. *Compression Labs, Inc. v. Creo, Inc. et al.*, C.A. No. 2:04-410;
5. *Agfa Corp., et al. v. Compression Labs, Inc., et al.*, C.A. No. 1:04-818;
6. *Yahoo! Inc. v. Compression Labs, Inc. et al.*, C.A. No. 1:04-918;
7. *Audiovox Corp., et al. v. Compression Labs, Inc., et al.*, C.A. No. 1:04-1293;
8. *Sun Microsystems, Inc. v. Compression Labs, Inc.*, C.A. No. 3:04-3124;
9. *Google, Inc. v. Compression Labs, Inc., et al.*, C.A. No. 4:04-3934;
10. *Compression Labs, Inc. v. Microsoft Corp.*, C.A. No. 2:05-156;
11. *Microsoft Corporation v. Compression Labs, Inc.*, C.A. No. 3:05-1567; and
12. *In re Compression Labs, Inc., Patent Litigation*, C.A. No. M:05-1654.