

- 24 -

```

~NAL();
int Listen(char *strHostName, int iPort, ...);
int Accept(...);
int Connect(char *strHostName, int iPort, ...);
5 int AcceptClients(char *strHostName, int iPort, ...);
int GetImage(char *strHostName, int iPort, char *strURL, ...);
int GetURL(char *strHostName, int iPort, char *strURL, ...);
int SendRequest(...);
int ReceiveReply(...);
10 ...
};

```

- Listen(...) Creates a listening port.
- Accept(...) Accepts any client requesting a connect.
- 15 Connect(...) Connects to the specified host and port number. Usually called by the  
GetImage() or GetURL()
- GetImage(...) Connects to the ContentProvider and requests the image specified by  
the URL. This is responsible for building the appropriate request  
header etc
- GetURL(...) Connects to the ContentProvider and requests the page specified by the  
URL. This is responsible for building the appropriate request header  
etc.
- SendRequest(...) Sends a formatted message to the compute server. The format of the  
message is shown in the following section.
- ReceiveReply(...) Receives a formatted message that is a reply to the message sent  
earlier.

20

Service Plugin

The service sections describe the various servers available for the MM. Each service server is an instance of this object.

25

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```

class ServPlugin{
private:
    char *strId;
    int iPort;
5    char *strHostName;
    ...
public:
    ServPlugin(NAL *pNAL, char *strId, char *strHostName, int iPort, ...);
    ~ServPlugin();
10    int Request(char *strSrcPath, char *strDestPath, ...);
    ...
};

```

Request(...) This initiates the request through the NAL. NAL sends the formatted message to the appropriate Compute Server.

15

#### Object Switch

The object switch interfaces the MFM and the service plugins. The object switch mostly implements the rules specified in the action section of the m-script, as instructed by the MFM.

20

```

class ObjSw{
private:
    MFM *pMFM;
25    GAC *pGAC;
    ServPlugin *aSP; //array of service plugins
    ActionList *alAction; //linked list of actions
    -
public:

```

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```

ObjSw(MFM *pMFM, GAC *pGAC, _);
~ObjSw();
int AddServicePlugin(ServPlugin *pSP, _);
int AddAction(char *strId, char *strCond, char *strProcess, _);
5   int ProcessImage(_);
    -
};

```

AddServicePlugin( ) This is invoked by the MFM during configuration phase. This adds the service plugin to its internal list.

10 AddAction( ) This is also invoked by the MFM during the configuration phase. This adds the actions specified in the m-Script

ProcessImage( ) Invoked by the MFM, this executes the actions in the specified order.

#### Compute Server

15 The compute server executes as a separate processor or on a different machine itself. It can be implemented as an object as well.

```

class CompServ{
20 private:
    int iPort;
    char *strHostName;
    ...
public:
25   CompServ();
    ~CompServ();
    int ReceiveRequest(char *strSrcPath, char *strDestPath, ...);
    int ProcessRequest(...);
    int Reply(...);

```

...  
};

- ReceiveRequest(...) This receives the formatted message.
- 5 ProcessRequest(...) This processes the request. The user can extend the compute server by adding capabilities to this method.
- Reply(...) Sends the reply.

The compute server can also use the NAL to send and receive messages.

10

Fig. 6 is an object interaction diagram showing the order of creation of the objects/components of the manipulator 100 and the order in which the m-script is processed or read. Of note is the fact that the object switch 216 is called after service plugins 218. This order ensures that the services are all declared. AddAction takes the pointer to those service plugins, and AddServicePlugin identifies the compute server executing the plugin, its host name, and its port. ObjSw ensures the GAC 220 may be updated by the object switch with the results of the service, once executed.

15

Fig. 7 illustrates another embodiment of the inventive media manipulator 100. The media manipulator described in the previous sections was used as an intermediate processor between the client 106, 116 and the content provider server 104. In this alternative embodiment, an additional, stripped down tunneler version of the manipulator 100' can be used to interact between the client 106, 116 and the media manipulator 100 as described previously. These two instances of the manipulator 100, 100' can now perform in unison to further enhance the user experience.

20

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The tunneler media manipulator 100' and the media manipulator 100 exchange a compressed format suitable for the transmission over a low-bandwidth connection, while the tunneler 100' and the browser(client) exchange information in the client's native format. Apart from these, the client 106, 116 can be inside a firewall f and still use the services of a main media manipulator 100, which may be outside the firewall f. The tunneler 100' can also be used to set various options such as compression quality, specific to the client's need. These options are forwarded to the main media manipulator 100 along with the client's request. The main media manipulator 100 can categorically act on both the tunneler's and client's request.

Apart from compressing images, the tunneler 100' and main media manipulator 100 combination can be used to compress the HTML page itself. The HTML page is a media, and if the service is available to compress it, the m-script can be modified appropriately to send the page to the text-compress-plugin before sending towards the client. The tunneler can intercept this and decompress the page.

The tunneler 100' has following components of the media manipulator: 1) media flow manager 210, 2) media parser 212, 3) object switch 216, 4) network access layer 214, and 5) service plugin 218. It does not the global access cache 220. The service plugin in the tunneler 100' is the compliment of what is used in the media manipulator to decompress the images.

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5           While this invention has been particularly shown  
and described with references to preferred embodiments  
thereof, it will be understood by those skilled in the  
art that various changes in form and detail may be made  
therein without departing from the spirit and scope of  
the invention as defined by the appended claims.

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## CLAIMS

What is claimed is:

- 5       1.    A middle-ware computing system comprising:  
          a network access system that supports  
          communications with media resources and  
          client computers; and  
          a media manipulation system that  
10       operates on media objects received from the  
          media resources via the network access system  
          prior to forwarding the media objects to the  
          client computers.
- 15       2.    The computing system described in Claim 1, wherein  
          the media manipulation system comprises:  
          a parser that identifies different media  
          types within the media objects; and  
          service devices that operate on the  
20       media types.
3.    The computing system described in Claim 2, wherein  
          the parser searches for images in the media  
          objects and service devices include an image  
25       compressor for performing data compression on the  
          images.
4.    The computing system described in any of Claims 2-  
          3, wherein the parser searches for executable  
30       files in the media objects and service devices  
          include a virus scanner that searches for computer  
          viruses in the files.

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5. The computing system described in any of Claims 2-4, wherein the parser searches for images in the media objects and service devices include a pornography detector for assessing a probability that the images are pornographic.
- 5
6. The computing system described in any of Claims 2-5, wherein the parser searches for data files in the media objects and service devices include an format converter for changing a format of the data files.
- 10
7. The computing system described in any of Claims 2-6, wherein the media manipulation system further comprises an object switch that passes the media types to the service devices to determine operations performed on the different media types.
- 15
8. The computing system described in any of Claims 2-7, wherein the media manipulation system further comprises a media flow manager that reassembles the media objects for forwarding to the clients after the manipulation of the media types.
- 20
9. The computing system described in Claim 8, further comprising a cache that stores media objects, the media flow manager receiving requests for media objects and checking for the presence of the media objects in the cache to preclude obtaining the objects from the media resources.
- 25
- 30

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10. A middle-ware computing system comprising:  
a network access system that supports  
communications with media resources to obtain  
media objects from client computers;  
5 a parser that identifies different media  
types within the media objects;  
service devices that manipulate the  
media types;  
an object switch that passes the media  
10 types to the service devices to determine  
operations performed on the different media  
types; and  
a media flow manager that reassembles  
the media objects for forwarding to the  
15 clients after the manipulation of the media  
types.
11. The computing system described in Claim 10,  
further comprising a cache that stores media  
20 objects, the media flow manager receiving requests  
for media objects and checking for the presence of  
the media objects in the cache to preclude  
obtaining the objects from the media resources.
- 25 12. A method for facilitating transmission of media  
objects between media resources and client  
computers, the method comprising:  
receiving requests for media objects  
30 from the client computers to the media  
resources;  
obtaining the media objects;  
manipulating the media objects;  
forwarding the manipulated media objects  
to the client computers.

35

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13. The method described in Claim 12, wherein  
manipulating the media objects comprises:  
identifying different media types within  
the media objects; and  
5 performing separate operations on the  
different media types.
14. The method described in Claim 13, wherein the step  
of identifying different media types comprises  
10 searching for images in the media objects and the  
step of performing operations comprises data  
compressing the images.
15. The method described in any of Claims 13-14,  
15 wherein the step of identifying different media  
types comprises searching for executable files in  
the media objects and the step of performing  
operations comprises scanning the files for  
computer viruses.
- 20 16. The method described in any of Claims 13-15,  
wherein the step of identifying different media  
types comprises searching for images in the media  
objects and the step of performing operations  
25 comprises assessing a probability that the images  
are pornographic.
17. The method described in any of Claims 13-16,  
wherein the step of identifying different media  
30 types comprises searching for data files in the  
media objects and the step of performing  
operations changing a format of the data files.

18. The method described in any of Claims 13-17, further comprising reassembling the media objects for forwarding to the clients after the manipulation of the media types.
19. The method described in any of Claims 13-18, further comprising routing the media types to form successive operations on the media types.
20. The method described in any of Claims 13-19, further comprising caching media objects that have been received from the media resources and later obtaining the media objects from the cache.
21. The method described in Claim 20, wherein the step of obtaining the media objects comprises requesting the media objects from the media resources while checking for the objects in a cache; and obtaining the media objects from the cache if present.

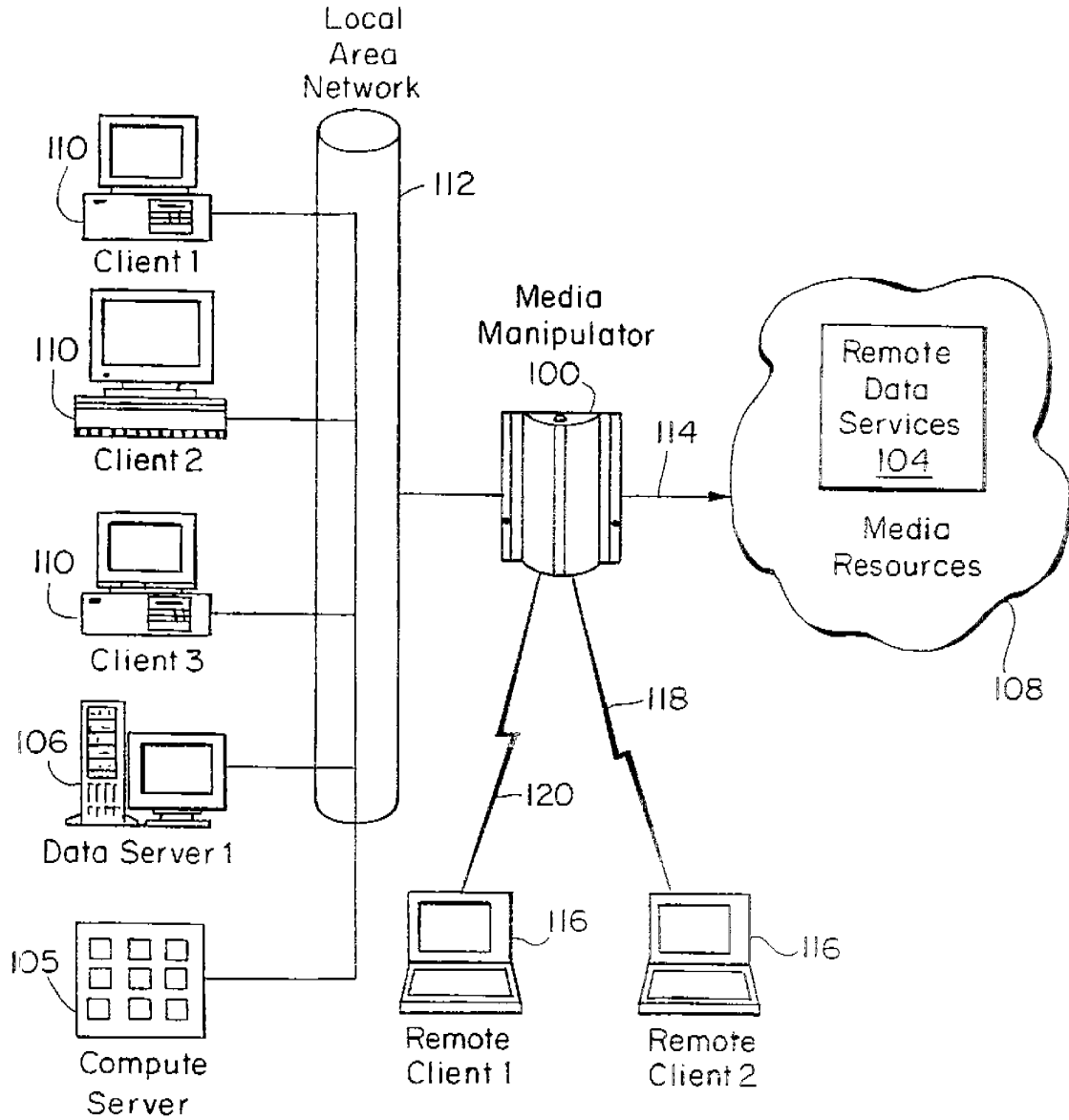


FIG. 1



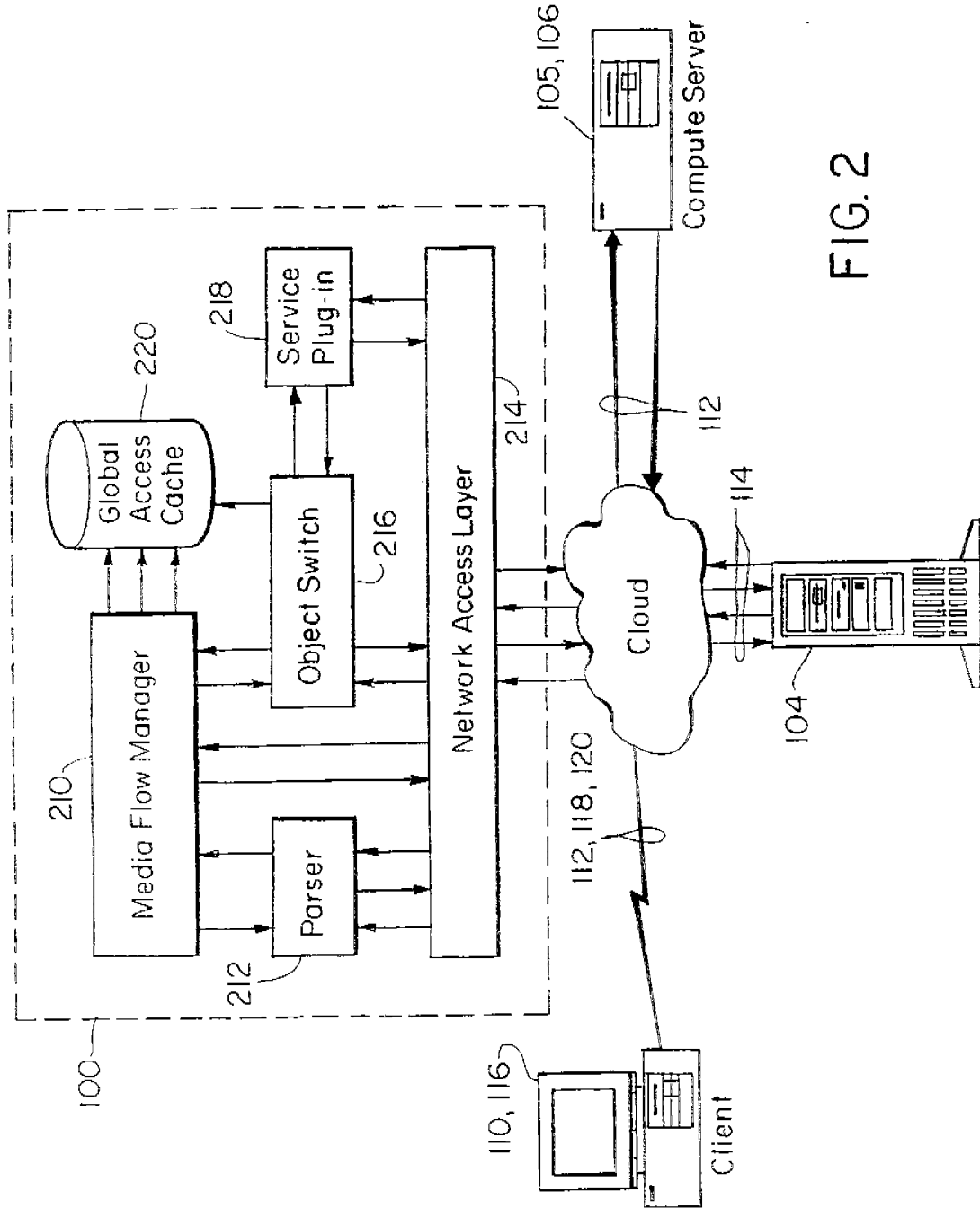


FIG. 2

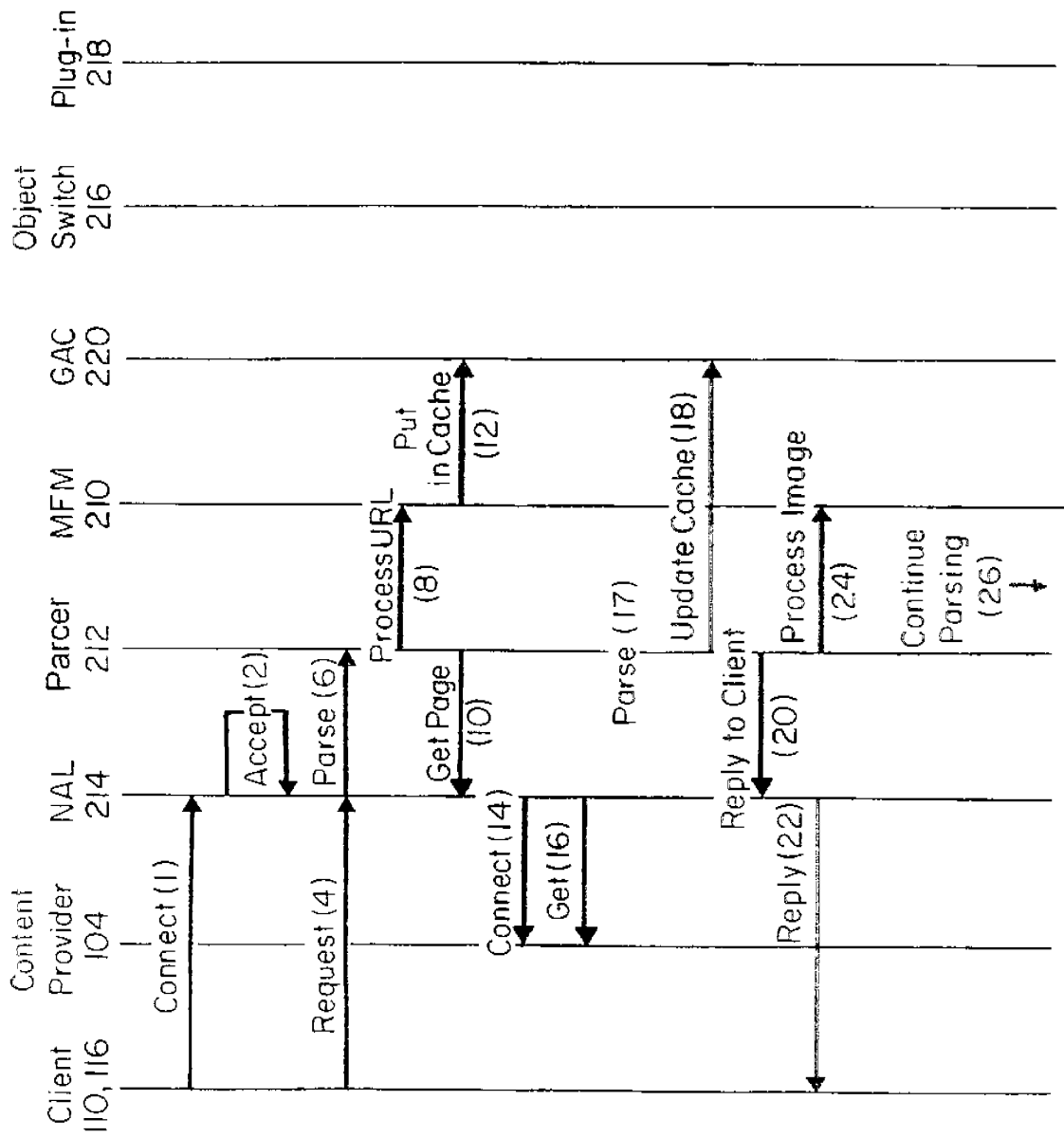


FIG. 3A

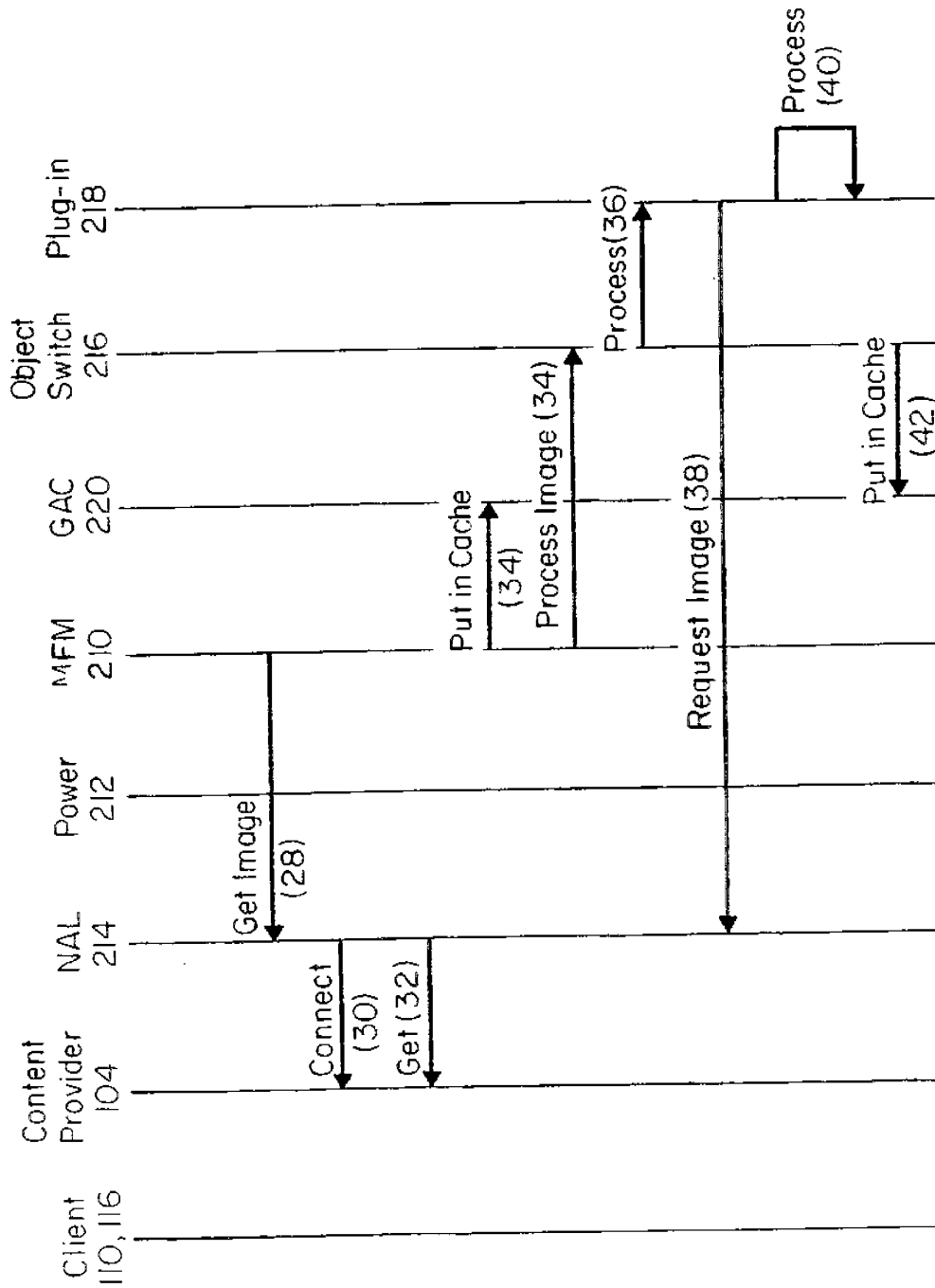


FIG. 3B

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| Header  |        |      |            | Content  |              |          |           |               |           |            |
|---------|--------|------|------------|----------|--------------|----------|-----------|---------------|-----------|------------|
| Version | Length | Type | Message Id | Src Type | Src Path Len | Src Path | Dest Type | Dest Path Len | Dest Path | Dest Param |

| Field         | Field Length | Description   |
|---------------|--------------|---|
| Version       | 4            | Message Version Number. E.g. 0100, implies 1.0                          |
| Length        | 4            | Length of the content   |
| Type          | 4            | Type of the Message: 1-for request, 2-for reply, 3-for error            |
| Message Id    | 4            | Numeric ID of the message assigned by the NAL                           |
| Src Type      | 4            | Numeric type of the source image: 1-GIF, 2-JPEG, 3-MM Compress Format 1 |
| Src Path Len  | 4            | Length of the Src Path  |
| Src Path      | -            | Path where the image is stored. Can be a network path as well.          |
| Dest Type     | 4            | Numeric type of the final image: 1-GIF, 2-JPEG, 3-MM Compress Format 1  |
| Dest Path Len | 4            | Length of the Dest Path   |
| Dest Path     | -            | Path where the final image has to be stored                             |
| Dest Param    | 4            | Can be used to set an optional parameter                                |

FIG. 4A

| Header  |        |      |            | Content    |           |               |           |
|---------|--------|------|------------|------------|-----------|---------------|-----------|
| Version | Length | Type | Message Id | Reply Code | Dest Type | Dest Path Len | Dest Path |

| Field         | Field Length | Description  |
|---------------|--------------|--|
| Version       | 4            | Message Version Number. E.g. 0100, implies 1.0                               |
| Length        | 4            | Length of the content  |
| Type          | 4            | Type of the Message: 1-for request, 2-for reply, 3-for error                 |
| Message Id    | 4            | Numeric ID of the message assigned by the NAL                                |
| Reply Code    | 4            | The success or failure of the service: 1- success, 0- error                  |
| Dest Type     | 4            | Numeric type of the final image: 1 - GIF, 2 - JPEG, 3 - MM Compress Format 1 |
| Dest Path Len | 4            | Length of the Dest Path  |
| Dest Path     | -            | Path where the final image has to be stored                                  |

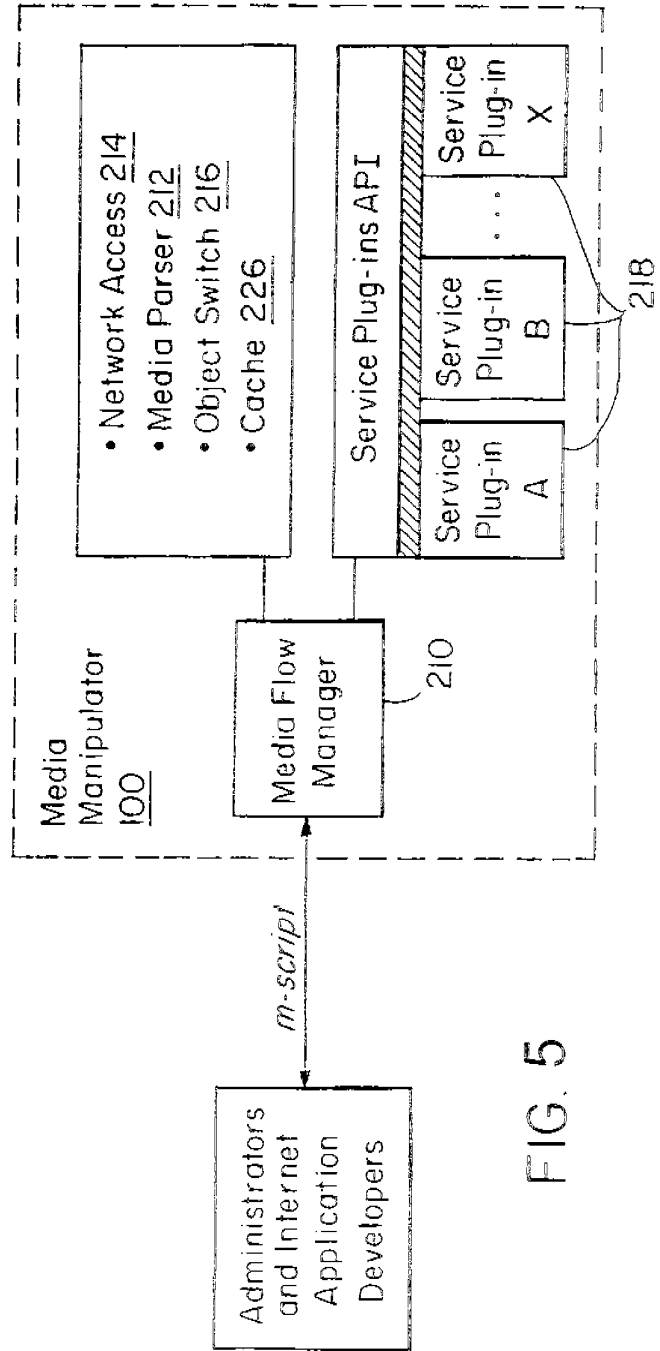
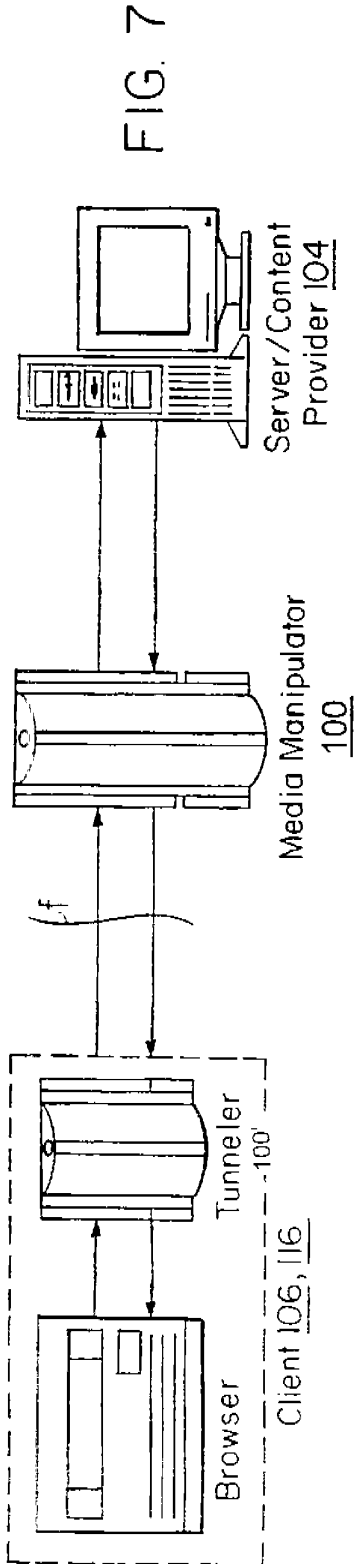
FIG. 4B

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| Header  |        |      |            | Content    |            |                  |              |
|---------|--------|------|------------|------------|------------|------------------|--------------|
| Version | Length | Type | Message Id | Reply Code | Error Code | Error Reason Len | Error Reason |

| Field            | Field Length | Description  |
|------------------|--------------|--|
| Version          | 4            | Message Version Number. E.g. 0100, implies 1.0               |
| Length           | 4            | Length of the content  |
| Type             | 4            | Type of the Message: 1-for request, 2 for reply, 3 for error |
| Message Id       | 4            | Numeric ID of the message assigned by the NAL                |
| Reply Code       | 4            | The success or failure of the service: 0-error               |
| Error Code       | 4            | Numeric Error Code assigned by the compute server            |
| Error Reason Len | 4            | Length of the reason, the next field                         |
| Error Reason     | -            | String describing the error                                  |

FIG. 4C



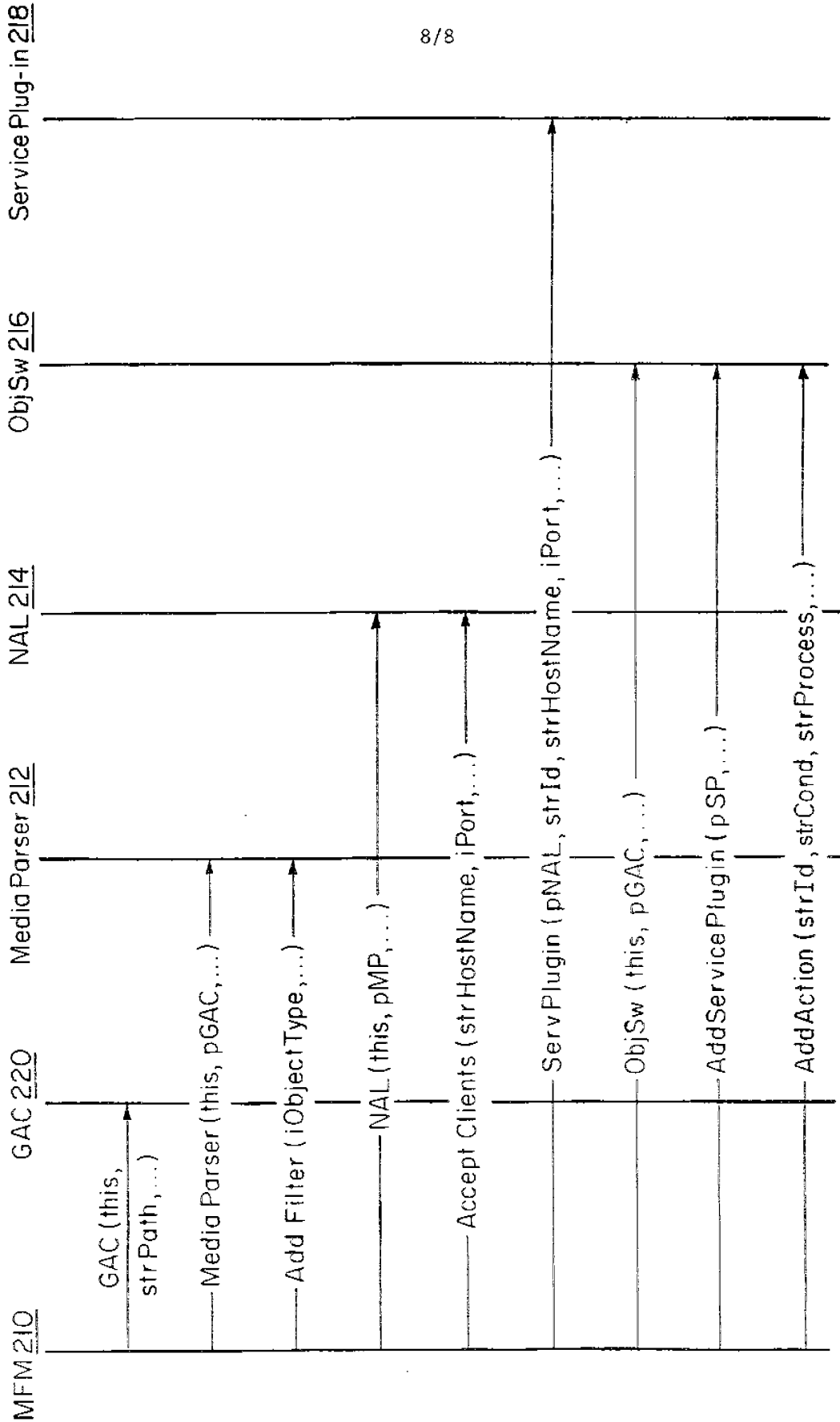


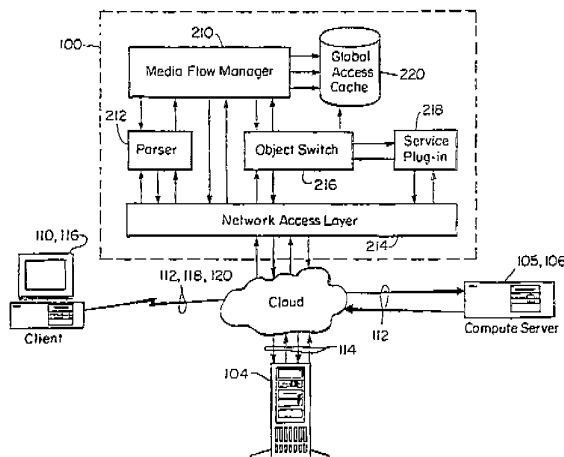
FIG. 6



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

|  |  |   |
|--|--|---|
| <p>(51) International Patent Classification <sup>6</sup> :<br/><b>H04L 29/06</b></p>   | <p><b>A3</b></p>   | <p>(11) International Publication Number: <b>WO 97/49252</b><br/>(43) International Publication Date: 24 December 1997 (24.12.97)</p> |
| <p>(21) International Application Number: PCT/US97/10758<br/>(22) International Filing Date: 20 June 1997 (20.06.97)<br/>(30) Priority Data:<br/>60/020,094 21 June 1996 (21.06.96) US<br/>(71) Applicant (for all designated States except US): INTEGRATED COMPUTING ENGINES, INC. [US/US]; 460 Totten Pond Road, Waltham, MA 02154 (US).<br/>(72) Inventors; and<br/>(75) Inventors/Applicants (for US only): SHAH, Ashesh, C. [US/US]; 567 Tremont Avenue, No. 31, Boston, MA 02118 (US). PEDERSEN, Palle [DK/US]; 82 Commonwealth Avenue, No. 10, Boston, MA 02116 (US). RADOVIC, Niksa [HR/US]; 19 Mountain Avenue, Somerville, MA 02143 (US). MANICKAVASAGAM, Senthilkumar [IN/US]; 11 Highland Glen Drive, No. 17, Randolph, MA 02368 (US).<br/>(74) Agents: SMITH, James, M. et al.; Hamilton, Brook, Smith &amp; Reynolds, P.C., Two Militia Drive, Lexington, MA 02173 (US).</p> | <p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).<br/><br/><b>Published</b><br/><i>With international search report.</i><br/>(88) Date of publication of the international search report: 30 April 1998 (30.04.98)</p> |   |

(54) Title: NETWORK BASED PROGRAMMABLE MEDIA MANIPULATOR



(57) Abstract

The media manipulator is a middle layer between the clients (110, 116) and the remote data servers (104) is the common client-server organization. It transforms the network into a more flexible three-tiered configuration. Requests generated by the clients (110) for media objects from media resources are routed to the media manipulator (100). It processes the requests and determines if the media objects may be found locally, either cached (220) in the media manipulator (100) itself or in the local data servers (106). When the media objects are obtained, the media manipulator (100) can be used to perform operations on those objects such as format translations, to apply protective mechanisms for the clients (110), to speed communications between the remote servers (104) and the clients (110), or perform compute operations for the clients (110). In one example, a parser (112) of the manipulator (100) searches for images in the media objects so that service devices (218) can be called to perform data compression or pornography detection on the images. The parser can also search for executable or data files in the media objects and to perform virus scanning or format conversion, respectively.



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| EE | Estonia                  |    |  |    |  |    |                          |

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 97/10758

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 5 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**  
Minimum documentation searched (classification system followed by classification symbols)  
IPC 5 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category <sup>o</sup> | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.                   |
|-----------------------|---|---|
| X<br><br>A            | EP 0 669 587 A (AT & T CORP) 30 August 1995<br><br>see column 4, line 20 - column 5, line 14;<br>figure 1<br>see column 7, line 13-34; figure 2<br>see column 9, line 17-29<br>see column 16, line 39-51<br>--- | 1,12<br><br>2,3,7,8,<br>10,13,<br>14,18 |
| A                     | THAU R: "Design considerations for the Apache Server API"<br>COMPUTER NETWORKS AND ISDN SYSTEMS,<br>vol. 28, no. 11, May 1996,<br>pages 1113-1122, XP002046988<br>see paragraph 4<br><br>---                    | 2,10,13                                 |

Further documents are listed in the continuation of box C.       Patent family members are listed in annex.

<sup>o</sup> Special categories of cited documents :

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|   |  |
|---|--|
| Date of the actual completion of the international search<br><br>20 November 1997 | Date of mailing of the international search report<br><br>18.12.97 |
|---|--|

|  |                                     |
|--|-------------------------------------|
| Name and mailing address of the ISA<br>European Patent Office, P.B. 5818 Patentlaan 2<br>NL - 2280 HV Rijswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016 | Authorized officer<br><br>Dupuis, H |
|--|-------------------------------------|

INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 97/10758

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.                |
|------------|--|--------------------------------------|
| A          | <p>TREVOR J ET AL: "Exorcising daemons: a modular and lightweight approach to deploying applications on the Web" COMPUTER NETWORKS AND ISDN SYSTEMS, vol. 28, no. 11, May 1996, pages 1053-1062, XP002046968<br/>see paragraph 3 - paragraph 3.1<br/>---</p> | <p>2,3,7,8,<br/>10,13,<br/>14,18</p> |
| A          | <p>WO 96 17306 A (ORACLE CORP) 6 June 1996<br/><br/>see page 8, line 16-21<br/>see page 11, line 29 - page 13, line 22;<br/>figure 1<br/>see page 15, line 6-16<br/>see page 17, line 27 - page 18, line 15<br/>see page 34, line 2-28<br/>---</p>           | <p>1,6,<br/>9-12,17,<br/>20,21</p>   |
| A          | <p>HOWLETT D: "Protection on the Web" COMPUTERS AND SECURITY, vol. 15, no. 4, 1996, page 319 XP002046969<br/>see the whole document<br/>-----</p>  | <p>4,15</p>                          |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/US 97/10758

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
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| EP 0669587 A                           | 30-08-95         | CA 2140850 A            | 25-08-95         |
| WO 9617306 A                           | 06-06-96         | NONE                    |                  |



**ORIGINAL**

**AUSTRALIA**

Patents Act 1990

**COMPLETE SPECIFICATION**

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**INVENTION TITLE:** NETWORK-BASED CLASSIFIED  
INFORMATION SYSTEMS

The following is a full description of the invention including the best method of performing it known to me:



**TITLE: NETWORK BASED CLASSIFIED INFORMATION SYSTEMS**

**FIELD OF INVENTION**

This invention relates to network based classified information systems, to methods of  
 5 automatically building searchable databases of classified information derived from web pages  
 posted on a network, and, to web pages for use in such systems and methods.

The information systems and databases of most relevance to this invention are those which  
 include classified product and service catalogues similar to the Yellow Pages telephone books,  
 10 contact indexes similar to the White Pages telephone books, and/or subject indexes similar to  
 Library catalogues. Such information systems and databases typically include sets of  
 associated classification, contact and/or geographic items of information. For convenience,  
 classification, contact and/or geographic information will be hereinafter called CCG-data.

15 The networks with which this invention is concerned are the worldwide public  
 computer/communications network commonly known as the Internet and private networks –  
 sometimes called intranets – which allow common access to markup documents on computers  
 connected to the network. Markup documents are text files prepared using various markup  
 languages such as HyperText Markup Language (HTML) and Extensible Markup Language  
 20 (XML) which are implementations (or dialects) of the Standard Generalised Markup Language  
 (SGML). The system of accessible files on the Internet is called the World Wide Web (WWW)  
 and the markup documents themselves are commonly called 'web pages'. A web page is said  
 to be 'posted' on a network when it is stored on computer-readable media of a host network  
 computer as a file which is generally accessible to network users. A web page is transported  
 25 from the host computer to a requesting computer through intermediate network computers as  
 a computer-readable signal embodied in a carrier wave. Though this invention is not limited to  
 Internet based information systems, these terms are used for convenience.

**BACKGROUND TO THE INVENTION**

30 It has been estimated that there are about 100 million web pages on the Internet and that the  
 number is doubling every two years. Many of these pages include information concerning  
 commercially offered goods and services and often include contact details. But the difficulty of  
 locating such information is increasing faster than the growth in the number of web pages.

35 To assist network users locate web pages of interest, certain network service providers create  
 indexes (or databases) of the contents of web pages posted (stored on computer readable  
 media so as to be generally accessible) on the network and provide 'search engines' to use  
 the indexes. These indexes are often created automatically by the use of 'web crawlers' which  
 (i) interrogate computer after computer on the network to locate successive web pages and (ii)  
 40 index the words in each web page encountered against the network address (eg Internet  
 Protocol Address or IPA) and filing system path or universal resource locator (URL) at which  
 the web page is accessible. Hereinafter the terms URL and URI (Uniform Resource Identifier)  
 are taken to be identical in meaning and to signify network addresses and filing system paths.  
 Usually, the indexes consist of a list of unique words with each word having an associated list  
 45 of URLs of the web pages wherein the word was found to occur during interrogation. The URL  
 serves as a 'hyperlink' which, if selected by a user/searcher, results in the associated web  
 page being automatically transmitted from the computer where it is posted on the network to  
 the user/searcher's computer where it may be displayed or otherwise processed. The sending  
 and receiving of files in this way is greatly assisted by user interface programs called 'web  
 50 browsers' (or more simply, 'browsers') such as Netscape and Microsoft Internet Explorer.



The search for web pages of interest using search engines leaves much to be desired:

- simple searches (those using a few keywords in simple combinations) often yield far too many web page references (URLs) to permit them to be interrogated one-by-one,
  - 5 • complex searches (those using many keywords and/or complex Boolean expressions) require considerable expertise to undertake,
  - even using optimum search criteria, many irrelevant web pages are referenced because of inconsistent use of terminology by those who author the original web pages,
  - even using optimum search criteria, many relevant pages are missed, again because of
  - 10 inconsistent use of terminology by web page authors, and
  - because items of information included in the body of web pages cannot be 'understood' or associated in useful ways by web crawlers; that is recognised as, say, a surname, a street name, a geographic locality, or type of goods or services and, say, a surname strongly associated with a street name, a geographic locality, or a type of goods or service.
- 15 The result is that information provided by search engines from databases which are automatically compiled using web crawlers is a very poor equivalent of the common Yellow Pages and White Pages directories which serve the telephone industry (though these directories are not, of course, automatically compiled from web pages).

- 20 In an attempt to improve the usefulness of automatically compiled network databases, some search engine providers make use of information contained in URLs, such as the country code and top level domain name codes such as 'com', 'edu', 'net' and 'org' which is sometimes used to signify the subject matter of web pages. It has been proposed to add more content classifying codes to URLs (eg. "chem" to signify chemical subject matter) to allow specialised
- 25 databases - national, commercial, chemical, etc - to be generated. However, this proposal has serious drawbacks:
- URLs are Internet addresses and it is in principle undesirable to confuse the address function of a URL with that of representing a list of web page classifications or contact details.
  - 30 • A URL is an inappropriate container of multiple web page classification codes and contact details because the length of the URL would cause it to become unwieldy as an Internet address.
  - Including in a URL classification codes drawn from a list of thousands of codes would compromise the mnemonic quality of Internet addresses such as "www.yellowpages.com".
  - 35 • There is substantial overlap in the subject matter contained in web pages having the various top level domain name codes.
  - There is no consensus on, or standard for, content classification codes in URLs.

- Another proposal to add content classification data to web pages has arisen from the wish to
- 40 identify pages containing material that may be offensive to some viewers, or should not be accessed by minors. The Platform for Internet Content Selection (PICS) (see <http://www.w3.org/pub/WWW/PICS> and other documents at [www.w3.org](http://www.w3.org)) is a web page ratings standard similar in principle to the ratings systems for motion pictures. This system allows page authors to "internally" self classify their pages through use of the "<meta...>"
- 45 HTML element. Alternatively, "external" PICS ratings of web pages may be obtained from ratings service providers accessed each time a URL is selected. In practice, the ratings service providers have adopted very limited range of web page classifications. For example, Ararat Software's Commercial Rating System (see <http://www.ararat.com.ratings/ararat10.html>) provides just 5 categories of web page content; commercial content, technical/customer
- 50 support, ordering information, downloading information and contact information. In other

examples, CyberPatrol ([http://www.microsys.com/pics/pics\\_msi.htm](http://www.microsys.com/pics/pics_msi.htm)) provides 16 categories, the Recreational Software Advisory Council (<http://www.rsac.org/faq.html>) provides 4 categories, SafeSurf (<http://www.safesurf.com/ssplan.htm>) provides 11 categories and Vancouver Webpages Rating Service (<http://vancouver-webpages.com/VWP1.0/>) provides 11 categories. None of the categories provide classification of web pages by industry, service, product or subject with sufficient specificity to be useful when searching for web pages. Rather, the categories are intended to prevent web browsers from displaying web pages unsuitable for particular types of web browser users. Such rating systems are not intended to be used for the automated creation of Yellow or White pages like databases from web pages and are unsuitable for that purpose because they can not represent contact details. Further, the ratings data may only be encoded in the <meta...> element in the <head> of an HTML document drastically limiting the type and usefulness of the data that can be encoded.

Another proposal for classifying the content of web pages, the "Meta Content Framework" (MCF - see <http://mcf.research.apple.com/mcf.html>), requires the content of web pages to be classified and the classification data to be held in a separate non-HTML data file with a MIME type of text/mcf. Storing data in non-HTML encoded documents which describes the content of HTML encoded documents is a technical and economic barrier to the adoption by search engine providers of the proposal. The MCF proposal is thus entirely unsuited to the automated creation of Yellow or White pages like databases from HTML encoded web pages (MIME type text/html) because data stored according to the MCF proposal is not stored in HTML encoded web pages.

The "Electronic Business Card", vCard, (see "vCard The Electronic Business Card" Version 2.1, versit Consortium Specification, Sept 18, 1996 or <ftp://ds.internic.net/internet-drafts/draft-ietf-asid-mime-vcard-01.txt>) uses non-HTML data file (MIME Content Types of "text/plain" or the non-standard "text/X-vCard") containing contact information equivalent to an extended White Pages entry which can be exchanged on a network using Simple Mail Transfer Protocol (SMTP) or using HTTP. It can be associated with a web page by use of a URL in the web page which refers to the vCard information (eg <a href="http://www.thing.com/vCard.vcf">My vCard</a>). Version 2.1 vCard standard data file format (published 18 September 1996) provides for the inclusion of many items of contact information. The vCard specification recommends that, where possible, there should be consistent mapping of vCard property names to HTML "<input>" element attribute names (eg vCard property name "TITLE" maps to HTML "<input name= 'title'>"). The intention is to facilitate the transfer of vCard data into web page input forms by pasting from a clipboard or by dragging from other computer applications. The VCard proposal is unsuited to the automated creation of Yellow or White pages like databases from HTML encoded web pages because data stored according to the VCard proposal is not stored in HTML encoded web pages.

The inclusion of classified information in separate documents (such as Meta Content files or vCards) has the disadvantage that there is necessarily much duplication of data and coordination of modifications between the separate documents and the web pages. This must be done to allow a person who has accessed a web page using an HTML compliant browser to determine whether it is worth calling up the associated file or vice versa. Also, to allow portions of web pages to be classified, web page contextual information would have to be duplicated in the separate document. vCards in particular do not provide this functionality. Another disadvantage is that non-HTML documents such as vCards contain no details as to how the data they contain is to be displayed. In the display of HTML documents the position, font, size, colour of the text and other elements of the document are of great importance. The

restriction of address data in a vCard to untagged ordinally organised fields is inflexible. For example, multiple instances of extended parts of the address are not possible. Also components of names, addresses and telephone numbers and so forth are insufficiently identified.

5

The Online Computer Library Center Inc (OCLC, Dublin, Ohio, USA) proposal, known as the "Dublin Core", proposes to classifying scholarly web pages by subject (topic of the work, or keywords that describe the content of the work), title, author, publisher, other agent, date, object type (genre of the object such as home page, novel, poem etc), form, identifier, source,  
 10 language, relationship and coverage (spatial and temporal) (see <http://www.oclc.org:5046/~weibel/html-meta.html> and other documents at [www.oclc.org](http://www.oclc.org)). This proposal does not include industry, service, product or subject classifications. It also does not include contact details. Names such as that of the author are not specified in sufficient detail to avoid ambiguities such as which is the author's first and last names. The proposal specifies  
 15 that the details are encoded using the <meta...> element in the <head> of web pages. The proposal is unsuited to the automated creation of Yellow or White pages like databases from web pages because the proposal does not provide for classification of web pages and does not provide adequate contact details. Further, the use of keywords for describing the content of the work adds very little to the effectiveness of indexing of web pages since the web pages  
 20 are usually indexed on every word of their content and most often the key words would simply be a duplication of words already contained in the document.

It has also been proposed to use the Dewey Decimal System (see [http://orc.rsch.oclc.org:6109/eval\\_dc.html](http://orc.rsch.oclc.org:6109/eval_dc.html) and <http://orc.rsch.oclc.org:6109/bintro.html>) to rank  
 25 electronic documents against a Dewey Decimal subject classification. The proposal suggests automatically assigning Dewey Decimal subject classification codes to documents during automated indexing and cataloguing but does not specify the exact nature of the assignment although it is implied that the codes are stored separately from the documents. The proposal admits that such automated classification is less satisfactory than human classification. The  
 30 proposal is unsuited to the automated creation of Yellow or White pages like databases from web pages because the accuracy of classification is inadequate, does not provide for inclusion of industry, service or product classifications and does not provide for inclusion of contact details. Deriving a subject classification code from an analysis of every word and phrase in a web page is computationally expensive.

35

The HTML 3.0 standard (see page 23 of the [www.w3.org](http://www.w3.org) document "draft-ietf-html-specv3-00.txt") provides "class" as an attribute of almost all HTML "<body>" elements. The "class" attribute is intended to be used with style sheets. Style sheets provide a means by which the display of HTML documents may be altered to suit the needs of different classes of browser  
 40 users. For example, <div class="appendix"> could be used to define a division that acts as an appendix, <h2 class="section"> could be used to define a level 2 header that acts as a section header, although, of course, any string of characters could be defined for those purposes. The "class" attribute, although never having been suggested for holding goods and services classifications, is not suited for such a use as it is, in any case, undesirable to confuse the style  
 45 sheet function of the "class" attribute.

The HTML 3.0 and earlier standards provided the HTML elements "<person>" and "<address>" but do not specify the form of the content or method of validating the content of those elements. A person's name may be written as first name followed by last name or last name  
 50 followed by first name. Similarly, different conventions exist for writing addresses. Similar

ambiguities arise in the ill defined format of the HTML elements "<person>" and "<address>". As such they are of little use in the automatic compilation of searchable databases.

5 The XML language (see: <http://textuality.com/sgml-erb/WD-xml.html>) was developed to extend HTML so that software vendors can add new elements and new element attributes to HTML which are not specifically defined in any HTML standard. The intention is to ensure that all new elements and attributes could be parsed by all XML parsers even if the new elements held no significance for any particular XML parser. However, like HTML, XML does not provide a standard for the representation of industry, service, product or subject classification, contact or  
10 geographic location details within an web page.

Of course, many useful databases of the Yellow Pages or White Pages type are made available by service providers on networks, but they are not compiled automatically by using web crawlers to scan HTML web pages posted on a network. For example,  
15 <http://www.yellowpages.com.au> and <http://www.mcp.com> provide classified advertisements of the Yellow Pages type with links to the web pages of paying advertisers or subscribers. There are also directories of email addresses which approximate the White Pages directories, listing the names of individuals and organisations and contact details, (eg <http://www.bigbook.com> and <http://query1.whowhere.com>). However, these email directories require listers to manually  
20 add their directory entries and enquirers to be aware of and to find the directory enquiry web page. They cannot be automatically generated by scanning web pages using web crawlers since there is no adequate mechanism to relate email addresses to the names of people and organisations and their other contact details which may also exist in the same web page.

#### 25 OBJECTIVES OF THE INVENTION

The general object of the invention is to provide improved methods for automatically building searchable databases of classification, contact, and/or geographical information by using web crawlers to interrogate web pages posted on a network. [For convenience, this information is collectively referred to as CCG-data].

30

Other non-essential objectives are to provide methods for including and/or displaying CCG-data within web pages accessed by browsers, for automatically extracting CCG-data from web pages posted on a network and for using the same, and/or to provide methods for searching automatically compiled databases using such data.

35

Another subsidiary objective of the invention is to provide a new form of web page which is better suited to the automatic compilation (using web crawlers) of databases constructed by the automatic scanning of many such pages posted on a network.

#### 40 OUTLINE OF THE INVENTION

The invention is based upon the realisation that highly useful databases can be automatically built by successively interrogating web pages posted on a network if one or more HTML encoded CCG phrases are included in the web pages. A CCG phrase is one containing CCG-data in a form which is directly accessible and identifiable. CCG phrases may also include one  
45 or more items which provide the web page author with control over how the CCG-data is applied to the database.

Data duplication can be reduced if some of the CCG-data in the coded CCG phrases can be displayed by browsers as well as being used to update databases. Errors due to inexact  
50 duplicated data are also eliminated. Accordingly, it is envisaged that CCG phrases may include

one or more items which provide the web page author with control over how the CCG-data is displayed by a browser.

HTML (including version 2 and version 3) and XML are evolving applications (sub-sets or  
5 dialects) of ISO Standard 8879 1986 known as Standard Generalised Markup Language  
(SGML). HTML, in large part, is a language used to describe how text (unstructured data) and  
graphics is to be formatted for display. The HTML language consists of a finite number of  
"elements" (for example: "<BR>" where "BR" is the element name, also called the tag name)  
which may contain "attributes" (for example: "<DL COMPACT>" where "COMPACT" is an  
10 attribute named "COMPACT") and may contain values associated with attributes (for example:  
"<FONT SIZE=+1>" where +1 is the attribute value of the attribute named "SIZE"). XML is a  
language used to describe structured data. The XML language is similarly composed of  
elements, attributes and values with a similar syntax to HTML but unlike HTML the element  
names which may be used are not restricted and the meaning of the XML data may be  
15 interpreted in any convenient manner. While the XML language is mute about how data  
described by XML is to be formatted for display, the data may be used by computer programs  
for any purpose including description of how XML coded data is displayed. However, due to its  
historic importance in connection with web pages, the term "HTML" is herein used to refer to all  
markup languages which are subsets or complete sets of the SGML language. In particular,  
20 the term "HTML encoded CCG phrase" and the synonymous term "CCG phrase" are herein  
used to refer to CCG-data encoded in a subset or complete set of the SGML language.  
Herein, a "web page" is a document adapted to be or actually accessible through a network  
and encoded in a subset or complete set of the SGML language.

25 For convenience, CCG items in HTML encoded CCG phrases, whether they are syntactically  
represented as elements or as attributes, will be referred to hereinafter as CCG attributes.

A CCG phrase includes at least one of the following identifiable types of CCG-data attributes:

- industry, product, service, and/or subject classifications,
- 30 • contact categories, contact person(s) and/or organisation(s) names, titles or  
associations, contact details including physical and postal addresses, telephone and  
fax numbers, email and Internet or network addresses or locations, public keys, and
- geographic location details.

35 A CCG phrase may also include any of the following identifiable types of CCG control  
attributes:

- database control attributes to indicate which parts of the data are to be used to  
update databases, and
- 40 • display control attributes to indicate how browsers are to display the data.

By virtue of occurring in the same CCG phrase, a plurality of CCG-data attributes are  
associated with each other.

45 By virtue of their occurrence in the same CCG phrase, CCG-data attributes are identified as  
a set of associated attributes. However the degree of association between attributes can be  
controlled by the inclusion in the phrase of database control attributes.

The start and end of CCG phrases should be identifiable to clearly distinguish these phrases  
from other data. To identify the beginning and end of a CCG phrase, at least one HTML  
50 element should have a CCG specific HTML element name or CCG specific attribute name or

CCG specific value. Each CCG attribute may consist, with or without other incidental characters, of a CCG attribute name and/or a CCG value or values. Preferably, each CCG phrase is contained in the "<body>" of the web page.

- 5 Two examples of a CCG specific HTML element are: "<CCG ...>" or "<CCG ... />" or "<CCG>...</CCG>". (Where a CCG phrase is coded in XML, the elements "<XML>" and "</XML>" may also be needed at the start and end of the CCG phrase.) A less satisfactory example is: "<!--CCG ...-->" where the characters "CCG" after HTML comment element name "!--" are used to signify that the comment contains CCG-data. An example of the use of a CCG
- 10 specific attribute name is: "<START CCG>..." "<END CCG>". An example of the use of a CCG specific value is: "<START TYPE='CCG'>..." "<END TYPE='CCG'>". Obviously, other character strings could be substituted for the element name, element attribute name or element attribute value "CCG" string of the examples.
- 15 The codes "<CCG ...>" and "<CCG ... />" are compatible with most HTML specifications, but being non-standard HTML, most web browsers do not display any text or attributes (eg PQ="AQD") within the angle brackets "<" and ">". These codes are preferred where display of the CCG data is not required and compatibility with older browsers is required (eg CCG phrases containing only classification values).

20

From one aspect, therefore, the invention comprises a web page for posting on a network, the web page being characterised by the inclusion of at least one CCG phrase in the "<body>" of the page, the CCG phrase being such that the CCG attributes contained therein are accessible and identifiable by (i) HTML compliant editors and/or (ii) HTML compliant web

25 crawlers for the automatic construction of databases of classified information, and/or (iii) HTML compliant browsers for display on the computer screens of network users.

- From another aspect, the invention comprises a method of constructing web pages of the above described type. The web pages may be constructed on digital computers using simple
- 30 text editors such as Microsoft Windows Notepad, or preferably, purpose built human controlled editors or automated composing programs which embody knowledge of HTML and CCG syntax and grammar. Which ever process is used, CCG attributes are selected and inserted, modified, deleted and/or organised to form a valid CCG phrases in HTML encoded documents and the documents are posted on computer readable storage devices of computers connected
- 35 to a computer network so that the documents are generally available to computers on the network.

- From another aspect, the invention comprises a method of populating a database with CCG-data extracted from web pages. Web pages posted on a network are successively retrieved by
- 40 a digital computer program (eg: a web crawler) and CCG phrases contained therein are identified and at least some of the CCG attributes found within the CCG phrases are extracted. The CCG attribute names are used to determine the type of data in the associated values. Generally the CCG attributes of interest are those relating to classification, contact and geographic data and database update controls while the attributes of little or no of interest in
- 45 relation to database updating are those relating to display controls. Of course, the CCG-data extracted need only be that relevant to the particular database being updated. For example, one database may have been designed to index only web page classifications and URLs while another database may have been designed to index only contact details. Databases also differ in their internal representation of data and means of associating data. For example, some use

"flat file" tables, others use pointers to data to create network associations while others use hashing and buckets.

The conventional nomenclature differs considerably between different types of database.  
 5 Depending on the particular database nomenclature, data of the same type is said to be stored in table columns, fields, attributes and properties. The terms column and field are somewhat related to the physical representation of the data in files while attribute and property is more related to the logical representation of data. To avoid confusion, with the terms "HTML attribute", "CCG attribute" or just "attribute", hereinafter a database property means both a type  
 10 of data stored in the database and a place in the database where data of the same type is stored. Database properties are referred to by a name ("property name") or similar reference and contain values. For example, a database property with the name "City name" and which contains values which are all the names of cities may be defined as a "City name" type database property.

15  
 Whichever style of database is used, it is preferred that the database update program relate the CCG attributes to corresponding database properties used by the database update process so that the database property values are updated with CCG values in a manner which preserves the distinctness, content and meaning of the CCG values and, preferably, preserves  
 20 the CCG value associations expressed in the CCG phrase as sets of associated database property values of different types.

In some cases, it is desired to know the address of the web page from which the CCG values were extracted. For example, the purpose of building a database might be to allow searching  
 25 of the database by web page classification to provide a list URLs of web pages or URLs of portions of web pages which contain matching CCG classifications. The URLs could then be inserted in an HTML document and transmitted to a web browser as a list of references to web pages matching a search expression. In that example, associating the URL of a web page or the URL of a portion of a web page with the CCG values extracted from the same web page or  
 30 web page portion is important and the URL or means of reconstructing it must be available and supplied to the database update process. In one style of database, the values of the same type are held separate rows in a column (property) of a database table, and pointers held in another column (property) are associated with the values by sharing the same table row. The table row constitutes a set of associated property values. Each pointer points to a bucket  
 35 (block of data) containing a list of URLs or pointers to URLs held in a separate bucket or table. In another style of database, values of different types are held in different tables together with a set number, pointer or similar code which is used to indicate which values are associated as members of the same set. In one variation, the values of set members are prefixed with a code indicating the type of value and all values are held in the same column of a table. If the  
 40 purpose of the database is to hold contact data, recording the web page URL in the database might not be required although if the URL is not present in the database, updating changes in the CCG contact details contained within a web page is more difficult. Of course, one database may be used to record all types of CCG values contained in web pages and associate with each other any and all values extracted from the same web page or even from  
 45 other web pages.

From another aspect, the invention comprises a method of searching the databases constructed as outlined above. These databases may be used for a variety of searching purposes. For example, to find web page URLs by using the association of web page URLs  
 50 with industry, service, product or subject classification or a person's or organisation's name or

address or geographic location values or any combination thereof. In another example, the databases may be used to find the contact details for people or organisations by name or location of industry, service, product or web page subject type and so forth by using the association between items of the contact details in the database without having to retrieve web pages associated with the contact details.

More particularly, the searching method involves finding URL references, or finding sets of associated database property values, from databases containing CCG-data. The method including steps of parsing a query phrase received from a computer network to extract query relational expressions and, from each expression, deriving a query field name, query relational operator and query value, determining the type of the query field by reference to its name, relating the query field to a corresponding database property according to type and locating CCG-data database property values in the database property which return a true value when tested against the query value using the query relational operator. Finally, the URL references or the sets of property values associated with the so located CCG-data database property values are extracted.

Database queries are usually expressed in a query language in the form of a phrase or sentence. In query by example style enquiry systems, the user types values into input fields on a form and a program extracts the input values and uses the values to automatically compose a query phrase or sentence. There are many existing examples of query languages used in connection with databases. Generally, they consist of relational expressions (eg Field=Value), logical expressions and grouping of relational and logical expressions by means such as parentheses. They may also contain sorting and output formatting expressions. Often abbreviated notation is used in the expressions such as leaving out field names or relational operators which are then inferred from the value in the expression or implied by default. In an enquiry the nature and format of the output may also be implied, such as a list of URLs of web pages or a list of contact details. Whatever is the mechanism of any particular database, the query expression needs to be parsed and fields in the query expression, explicit, default, implied or inferred, need be related to database properties of similar type. In some styles of database enquiry the query expression is evaluated against each row of a table or record of a file to find rows or records (ie a set of associated property values) which match the query expression. In other styles, sub-sets of the values of the properties are selected according to the interpretation of relational expressions in the query expression and the sub-sets are combined according to logical and grouping expressions in the query to find the sets of associated property values which match the query expression. Often, to make logical operations which combine the selected sub-sets more efficient, it is not the values which are selected but pointers to the values (eg Table name and table row) or unique keys (eg URLs or pointers to URLs) associated with the values. For example, the AND logical operator is often used to combine two lists so that only values or pointers or keys common to both lists are found in the combined list. Usually, the query produces a result list which is then provided to other processes. For example, a list of URLs of web pages is processed to produce an attractively formatted HTML encoded document containing the URLs and is sent to a web browser to allow an enquirer to retrieve interesting web pages. In another example, the contact details associated in the database with each value or pointer in the result list are retrieved from the database and presented as a report in the form of an HTML encoded document and is sent to a web browser for viewing.

From another aspect, the invention comprises a method of displaying CCG-data contained in CCG phrases within web pages which are displayed by a web browser executing on a digital



computer. While a web page is loading or has loaded in a web browser, the web browser parses the web page and displays the text (or data) of the web page on a display device connected to the computer. When the web browser parser encounters CCG phrases, the web browser may display the CCG-data (element and/or attribute names (or translations of element and/or attribute names) and/or values) in a number of browser specific ways. For example, the web browser may by default not display any CCG-data, display all CCG-data, not display any CCG-data until a CCG display control attribute explicitly states that subsequent data should be displayed or display all CCG-data until a CCG display control attribute explicitly states that subsequent data should not be displayed. The web browser may also use CGA display controls specifying the size, font, position and so forth to alter the display of the CCG-data.

#### DESCRIPTION OF EXAMPLES

Having indicated the nature of the present invention, examples or embodiments thereof will now be described by way of illustration only.

15

##### Example 1: HTML Syntax Suitable for Representing a CCG Phrase

The following is an example of HTML element syntax suitable for representing CCG phrases in which a control (e.g. "SHOW") may be "good until countermanded" and thus apply to more than one field:

```

20 <CCG HREF="url"
    {{NAME="label" | ID="identifier_code"} &| {LANG="language_code" &
    CLASS="Class_name"}
    {
25     {SET_SEPARATOR} &|
    {INDEX | NOINDEX} &|
    {SHOW | HIDE} &|
    {XPOS="horizontal_position_number"} &|
    {YPOS="vertical_position_number"} &|
    {NEWLINE} &|
30     {ALIGN=centre | left | right | justify} &|
    {SIZE=[+/-]1 | 2 | 3 | 4 | 5 | 6 | 7} &|
    {COLOR="#rrggbb" | "colour_name"} &|
    {FACE="type_face_name"} &|
    {BLINK &| BOLD &| UNDERLINE &| ITALIC &| STRIKE} &|
35     {SUBSCRIPT | SUPERScript} &|
    {CLEAR{=left | right | all}}
    {NORMAL} &|
    {{{CONTACT &| COPYRIGHT &| DEVELOPER} &|
    {PERSONAL &| BUSINESS &| ASSOCIATION} &|
40     {attribute_name="attribute_value(s)}
    }
    ...
    >

```

where: the ellipsis "..." implies optional repetition of the braced ("{" ") items; the braces are used to group items and are not CCG syntactic elements; "&" (and) implies items must occur together; "|" (or) implies only one item must occur; and "&|" (and/or) implies any including none of the items may appear together.

Using the syntax of this example, each CCG phrase is represented as an HTML element, the element name being "CCG" and the CCG-data (eg attribute\_name="attribute\_value") and CCG

controls (eg SIZE=+1) are represented as attributes of the HTML element. Some of the attributes (eg SIZE) having explicit values (eg +1) and some attributes have implied values depending on the presence or absence in a CCG phrase (eg when the attribute BUSINESS is present it has the implied value of True and the implied value of False when absent).

5

Representation in XML syntax requires, at most, only a simple translation. All the items, such as "NORMAL" and "attribute\_name" may remain unchanged as attributes of the element named "CCG" (eg <CCG size=+1/>). However, when a CCG phrase is encoded in XML, it is preferred that the items are represented as XML elements. For example attribute "SIZE=+1" can be represented as element "<size>+1</size>" or "<size value=+1/>" and "NORMAL" can be represented as "<normal/>".

10

In this example, the attributes, ID, LANG and CLASS take their meanings from HTML 3.0. The "url" in HREF="url" or may be a link with or without destination anchor labels. For example the URL <http://www.w3.org/docs.html> does not contain a destination anchor label (or identifier) while <http://www.w3.org/docs.html#searching> does contain the destination anchor label "#searching" which is intended refer to an anchor in docs.html such as <A NAME="searching">...</A>. There is some confusion in various HTML standards documentation about the distinction between the expression NAME="label" and the expression ID="identifier\_code". For most practical purposes the two expressions have the same function or meaning: to uniquely identify within a document a position in or portion of that document.

20

Database control attributes:

"Set\_separator" indicates the end of association between preceding and following data other than through the weaker mutual association with the same CCG phrase or web page; the data are divided into sets. "Index | Noindex" indicates that the following data are / are not to be indexed by a web crawler. These attributes have an implied attribute value of 'True' if present in and 'False' when absent from a CCG phrase.

25

30 Display control attributes:

"Show | Hide" indicates that a browser should show / not show the following data. Xpos and Ypos indicate the position (for example in pixel or physical units) on the browser screen where the data is to be displayed. "Newline" may be used in addition or as an alternative method of placing text on a browser screen. "Align" indicates the positioning of data on a browser screen relative to the cursor position set by "Xpos", "Ypos" or "Newline". "Size", "Colour" and "Face" indicates the size, colour and type face or font of the following data when displayed on a browser screen. "Blink", "Bold", "Underline", "Italic", "Strike", "Superscript" and "Subscript" indicates that the following data should be displayed blinking, bold, underlined, italicised, struck through, superscripted or subscripted. "Clear" indicates that the browser screen in the region where data will be displayed should be cleared to background before displaying the following data. "Normal" indicates the data is to be displayed without the "Blink", ..., "Clear" characteristics. The display controls which consist of an attribute name without an explicit value have an implied value of 'True' when present and 'False' when absent.

35

40

45 CCG-data attributes:

"Contact &| Copyright &| Developer" indicates that the following CCG-data refers to details for a person or organisation and/or to the copyright owner and/or to the HTML or web page developer. "Personal &| Business &| Association" indicates that the following data refers to details for a person and/or business and/or association. The previous CCG-data attributes have an implied attribute value of 'True' if present in a CCG phrase or set and 'False' when

50

absent from a CCG phrase or set. The attribute\_name could be standard CCG attribute names or synonyms of standard CCG attribute names or abbreviations of CCG attribute names which refer to the following types of CCG attribute values where square brackets "[" and "]" surround suggested attribute names:

- 5 • industry or service or product or subject classifications and sub-classifications:
  - classification name [CN],
  - classification codes [CC].
- display only text [TEXT].
- contact:
  - 10 • person:
    - courtesy title [PNC],
    - first given name [PNG],
    - other given names [PNO],
    - family name [PNF],
    - 15 • name suffix [PNS],
    - qualifications [PQ],
    - associations [PA],
    - contact person title [PT],
    - contact person role [PR].
  - 20 • organisation:
    - name [ON],
    - unit [OU],
    - identifier [OID].
  - physical or post or delivery address:
    - 25 • type [AT] (= "PHYSICAL" &| "POST-OFFICE" &| "POSTAL" &| "DELIVERY")
    - post office box number [AP#]
    - post office name [APN]
    - room or suite or office or unit or flat or apartment name &| number [AB#],
    - floor name &| number [ABF],
    - 30 • building name [ABN],
    - lane or street or road or highway number [AS#],
    - lane or street or road or highway name [ASN],
    - suburb or town or city name [ACN],
    - region or state or territory or province name [ARN],
    - 35 • post code [APC],
    - country or nation name [ANN],
  - telephone:
    - type [TT] (= "PREFERRED" &| "VOICE" &| "MOBILE" &| "CAR" &| "MESSAGE" &| "PAGER" &| "FACSIMILE" &| "MODEM" &| "ISDN" &| "VIDEO")
    - 40 • nation or country code number [TC#],
    - trunk access number [TT#],
    - area code number [TA#],
    - local number [TL#],
  - email:
    - 45 • type [ET] (= "INTERNET" | {other}),
    - mailer [EM],
    - address [EA],
  - Internet address:
    - url [IURL].
  - 50 • date & time:

- date & time from [DTF],
- date & time to [DTT],
- weekday from [DTWF],
- weekday to [DTWT],
- 5 • weekday time from [DTWFT],
- weekday time to [DTWTT],
- time zone [DTZ].
- brand name [BN].
- public key:
  - 10 • key type [KT].
  - key [K].
- geographical:
  - location units [GLU],
  - location [GL],
  - 15 • serviced region units [GLRU].
  - serviced region [GLR].

Suggested attribute name [CN] is the name of an attribute associated with the attribute value containing "classification name" type data. For example, the [CN] attribute value could be the  
 20 name of a proprietary or national or international or other industry classification standard such as the Australian and New Zealand Standard Industry Classification or "ANZSIC" for short or the U.S. Bureau of the Census Industrial Classifications (USBCIC). The associated classification codes [CC] attribute value could contain the codes and/or descriptions of the codes of the named standard with or without modifications, deletions or extensions. For  
 25 example: CN="ANZSIC" CC="61;Road transport" or CN="USBCIC" CC="581;Hardware store". Service classifications such as the International Standard Classification of Occupations could be used. For example: CN="ISCO" CC="4430;Auctioneer" Product classifications such as the Harmonised Commodity Description And Coding System could be used. For example:  
 30 CN="HSC" CC="8411;Turbojets, turbo-propellers & other gas turbines; parts thereof" For subject classifications, Dewey Decimal, and/or Universal Decimal and/or Library of Congress and/or Bliss and/or Colon Classification could be used. For example: CN="DDC" CC="577.699;Sea shore ecology" The inclusion of subject classifications provides a very simple, straightforward method of classifying the subject matter of an HTML document which could be attractive to commercially oriented copyright owners.

35 The text ([TEXT]), person ([PNC] - [PR]), organisation ([ON] - [OID]), physical or post or delivery address ([AT] - [ANN]), telephone ([TT] - [TL#]), email address ([ET] - [EA]) and Internet address ([URL]) are intended to be associated with each other in the obvious manner. Date & time(s) ([DTF] - [DTZ]) are intended to indicate the times at which the address and/or  
 40 telephone and/or email will be serviced by the associated person(s) and/or organisation(s). The brand name ([BN]) attribute is intended to hold commercial brand names. Public key ([KT] - [K]) is intended to hold public encryption keys for secure communication with the contact person or organisation.

45 The geographical location [GL] could be a latitude and longitude (eg E148D31'12.5",S36D40',09.6" or E148.5201,S36.6693 or -148.5201,-36.6693), or a Universal Grid Reference (eg 55FV364402) or other global, national, regional or local location reference with units as specified [GLU], which is typed in or obtained by pointing to a digitally encoded map or other methods. In more populated regions of some countries such as the U.S., street  
 50 addresses and post codes are associated with a moderately accurate geographic location and

can be used to interpolate geographic location data where geographic location data is not explicitly stated in the CCG-data. Using a universally recognised code such as latitude and longitude has advantages when used with international mediums like the Internet. Geographical location is intended to be associated with a post, delivery address or physical  
 5 address such as place of business or residence. A CCG compliant browser could use this reference to display a map centred on that geographic location. The purpose of the geographical location data is to allow browser users to specify search engine search criteria which will result in the search engine selecting only those Internet accessible documents which provide details about providers which are within a specified region. The serviced region [GLR]  
 10 is intended to indicate the preferred area of operation of providers expressed in terms of serviced region units [GLRU]. A radial distance (eg in kilometres) or alternate means of expressing an area of interest around a geographic point, such as polygons, are envisaged.

It is envisaged that the CCG attribute\_value could be composed of more than one value  
 15 (actually sub-value) wherein specific characters or character strings separate individual values.

While specific instances of element names and types have been given in this example, of more importance is the type of data and type controls over the display and indexing of the data. As an alternative to the preferred immediately following example where the CCG-data is  
 20 lumped together under the HTML element named "CCG", certain elements of the data, for example the classification data, could be lumped under separate HTML elements with distinctly different names thereby separating CCG classification data from CCG contact data. However, this is not preferred because the strength of association between the two types of data is weakened.

25

#### Example 2: Classification of Portion of a Web Page.

Where it is desired to classify a portion of a web page, such as a paragraph about a product, simple CCG-data may be used in conjunction with the syntax of Example 1. For example:

```

  30 <A NAME="Radios">AM-FM radio receivers: </A>
      <CCG HREF="#Radios">
          CN="ANZSIC"
          CC="E23.34.78:Electrical equipment - radio receivers AM"
          CC="E23.34.79:Electrical equipment - radio receivers FM"
      </CCG>
  
```

35 We won't be beaten on the price of these high quality receivers ....

In this example, the CCG phrase appears after the related anchor (<A NAME=...</A>). However, while such proximity visually provides an obvious association between the anchor and related CCG phrase, it is intended that CCG phrase containing the attribute HREF related to a specific anchor could appear anywhere within the body of a web page and remain related  
 40 to the named anchor. The CCG phrase containing the attribute HREF could appear in a separate document and thereby relate the CCG-data to the entire document or to a named anchor although, as previously noted, coordinating separate documents can be problematic. In the absence of the HREF and NAME attributes, it is also intended that the CCG-data apply to the whole web page.

45

#### Example 3 Classification of Portion of a Web Page using XML Syntax

Using XML syntax and similar attribute names to those of Example 2 the HTML fragment of Example 2 may be rewritten as:

```

  50 <A NAME="Radios">AM-FM radio receivers: </A>
      <XML>
  
```

```

5      <CCG>
        <HREF>"#Radios"</HREF>
        <CN>"ANZSIC"</CN>
        <CC>"E23.34.78;Electrical equipment - radio receivers AM"</CC>
        <CC>"E23.34.79;Electrical equipment - radio receivers FM"</CC>
        </CCG>
      </XML>

```

We won't be beaten on the price of these high quality receivers ....

10 This example demonstrates that the translation of CCG-data from HTML to XML (and the reverse) involves simple syntactical and grammatical translations. Of course, the resulting HTML and XML, while "well formed" might not be recognised or, if recognised, might not be understood by some parsers.

#### Example 4: Constructing a Web Page Containing CCG-data

15 As an example, a web page developer, Alice Jamieson, is preparing an advertisement for a local electrician John Williams, trading as Kelso Electrical, who wants to advertise on the web for business within 30 kilometres from his office located at 18 Raglan Street, Kelso, New South Wales. Alice uses a graphical user interface web page authoring tool capable of creating and modifying web pages containing HTML (and XML) CCG phrases by accepting inputs from a

20 user. The tool executes on a digital computer having input devices such as a keyboard, mouse, light pen and touch pad, display devices such as a CRT, LED arrays, liquid crystal arrays and computer-readable media such as magnetic and optical disks, memory arrays, magnetic tape and the like.

25 The authoring tool also embodies knowledge of the content and structure of CCG phrases such as the attribute names, valid ranges and sets of associated attribute values, the normal order of the attributes in the CCG phrase and interdependencies between attribute values. The tool provides a window where web pages may be viewed in layout (browser) mode and another window where the HTML code may be viewed in editing mode. The tool also provides

30 means of inserting, deleting, modifying and organising HTML elements, changing font size, face and colour and so forth. The tool provides means for the user to build CCG phrases by using input devices to select an edit control representing various types of CCG attributes from a list which the tool then inserts in the body of a web page together with, when not already present, HTML code indicative of the start and end of a CCG phrase. The user then types in

35 the value in the attribute. Similarly, the tool provides means of converting web page text to CCG attributes. Using input devices, the user selects the text to be converted to a CCG attribute then selects an edit control from a list; the tool then inserts the HTML code necessary to encode the text as a CCG attribute. However, these semi-manual methods of creating and modifying CCG phrases are inefficient and error prone. The tool also provides a button, which

40 can be activated by using input devices, for access to CCG phrase editing functions. The CCG editing functions consist of a means of extracting the CCG values from existing CCG phrases in the web page being edited, forms for entering and modifying the extracted CCG values, a layout view browser window for altering how the CCG-data displays (position, font size, face, colour, bold, normal, hiding or showing and so forth), a data view browser window to alter

45 which CCG-data values are to be indexed or not indexed in search engine databases, and a means of deleting existing CCG phrases from web pages and inserting new or changed CCG phrases in web pages. Editing cursors marking the current location at which text and/or data may be inserted, deleted or modified are provided in each window and form.

In the current example, the web page initially contains no CCG phrase. Clicking the CCG editing function button of the authoring tool causes a form to appear. The form contains prompts related to CCG attribute names and associated data input fields related to the CCG attribute values associated with the CCG attribute names, that is CCG-data. The fields are blank because, in the web page layout view, the edit cursor is not over a CCG phrase (and can not be since the web page initially contains no CCG phrase). The service classifications relevant to the web age, John Williams physical business contact address, phone and fax numbers, email address and geographic location and his post office business contact addresses are entered into the forms using a keyboard and mouse. The developer, Alice Jamieson, also includes her basic contact details where provided for on the form. The forms use drop down lists to select address blocks (eg physical and post office) for editing. Logic associated with the forms validates the CCG attribute values and interdependencies. Input devices are then used to control the CCG-data layout view browser to modify the appearance of the CCG-data such as font size and colour and positioning. In the layout browser, input devices communicating with the edit cursor are used to highlight individual items and blocks of items to be changed. The post office address is highlighted as a block and moved into position in line with the physical address. The CCG-data view window is then used to check which data items are to be indexed by search engines. In this example all CCG-data (ie all CCG attribute values except display control values and database control values) are to be indexed. Input devices are used to control the edit cursor to highlight the entire data and a mouse is used to click (activate) a button to mark all the data for indexing. Then another button is clicked which builds an HML encoded CCG phrase of CCG attributes derived from the CCG-data values, display control values and database control values and inserts the CCG phrase in the web page at the location pointed to in the web page layout browser window.

The HTML code editing mode window was called up which revealed the following HTML encoded CCG phrase in the web page:

```

30      <XML>
        <CCG>
          <INDEX/>
          <HIDE/>
          <CN>ANZSIC</CN>
          <CC>D36.11.45;Electrical contractors - residential</CC>
          <CC>D36.11.46;Electrical contractors - industrial</CC>
35      <SHOW/>
          <CONTACT/> <COPYRIGHT/>
          <BUSINESS/>
          <XPOS>50</XPOS>
          <YPOS>320</YPOS>
40      <ALIGN>centre</ALIGN>
          <SIZE>3</SIZE>
          <COLOR>black</COLOR>
          <FACE>Times New Roman</FACE>
          <BOLD/>
45      <CLEAR>all</CLEAR>
          <TEXT>Contact :</TEXT>
          <PNC>Mr</PNC>
          <PNG>John</PNG>
          <PNF>Williams</PNF>
50      <PQ>AIE</PQ>

```

<PA>ARUC</PA>  
 <NEWLINE/>  
 <PT>Managing Director</PT>  
 <NEWLINE/>  
 5 <ON>Kelso Electrical Pty. Ltd.</ON>  
 <NEWLINE/>  
 <NORMAL/> <ITALIC/>  
 <SIZE>-2</SIZE>  
 10 <TEXT>NSW License 45678C</TEXT>  
 <NEWLINE/>  
 <NORMAL/> <BOLD/>  
 <SIZE>+2</SIZE>  
 <AT>PHYSICAL</AT>  
 <AS#>18<AS#>  
 15 <ASN>Raglan Street<ASN>  
 <NEWLINE/>  
 <ACN>Kelso</CAN>  
 <NEWLINE/>  
 <ARN>NSW<ARN>  
 20 <NEWLINE/>  
 <HIDE/>  
 <ANN>Australia</ANN>  
 <NEWLINE/>  
 <SHOW/>  
 25 <TEXT>Phone:</TEXT>  
 <TT>PREFERRED ; VOICE ; MESSAGE</TT>  
 <HIDE/>  
 <TC#>61</TC#>  
 <SHOW/>  
 30 <TT#>0</TT#>  
 <TA#>63</TA#>  
 <TL#>456-7828</TL#>  
 <TEXT> Fax:</TEXT>  
 <TT>FACSIMILE</TT>  
 35 <HIDE/>  
 <TC#>61</TC#>  
 <SHOW/>  
 <TT#>0</TT#>  
 <TA#>63</TA#>  
 40 <TL#>456-7829</TL#>  
 <NEWLINE/>  
 <ET>INTERNET</ET>  
 <EA>johnw@firefly.com.au<EA>  
 <TEXT> </TEXT>  
 45 <GLU>LatLong</GLU>  
 <GL>="33.3978S;148.5679E</GL>  
 <GLRU>Km</GLRU>  
 <GLR>30 </GLR>  
 <SET\_SEPARATOR/>  
 50 <XPOS>250</XPOS>



```

5      <YPOS>320</YPOS>
      <NEWLINE/>
      <NEWLINE/>
      <TEXT>Or write to us at :</TEXT>
      <NEWLINE/>
      <ON>Kelso Electrical Pty. Ltd.</ON>
      <NEWLINE/>
      <AT>POST-OFFICE</AT>
      <AP#>P.O. Box 187</AP#>
10     <NEWLINE/>
      <APN>Sunny Comer</APN>
      <TEXT> </TEXT>
      <APC>2795</APC>
      <NEWLINE/>
15     <HIDE/>
      <ANN>Australia</ANN>
      <SET_SEPARATOR/>
      <HIDE/>
      <DEVELOPER/>
20     <BUSINESS/>
      <PNG>Alice</PNG>
      <PNF>Jamieson</PNF>
      <ET>INTERNET</ET>
      <EA>aljam@firefly.com.au</EA>
25     <IURL>http://www.firefly.com.au/~aljam/</IURL>
      </CCG>
      </XML>

```

In the web page layout browser window the CCG-data displayed as follows:

```

30     Contact :                               Or write to us at:
      Mr John Williams, AIE, ARUC,
      Managing Director
      Kelso Electrical Pty. Ltd,                Kelso Electrical Pty Ltd
      NSW License 45678C                        P.O. Box 187
35     18 Raglan Street                          Sunny Comer 2795
      Kelso
      NSW
      Phone: 063-456-7828 Fax: 063-456-7829
40     Email: johnw@firefly.com.au Map

```

Having encoded the web page in this way, Alice then posts it on the storage device of a digital computer connected to the Internet from where it can be retrieved through the Internet using the URL "http://www.firefly.com.au/~johnw/index.html"

#### 45 Example 4: Constructing a Database from Web Pages Containing CCG-data

During a routine sweep of Internet connected web page servers, a web crawler (or robot) operating on a server named "cgg.search.com" executing on an Internet connected digital computer discovers the URL "http://www.firefly.com.au/~johnw/index.html" in a document it had previously retrieved through the Internet. The web crawler decides that the URL matches its selection criteria because the URL contains the suffix ".html". The web crawler then

- successfully retrieves the document by extracting from the URL the address of the computer hosting the document, addressing and sending a message (including the address of the web crawler) requesting the web page through the network to the web page host computer using TCP/IP protocol, the host computer then reads the document, addresses and sends the
- 5 document to the web crawler using TCP/IP protocol, the web crawler then waiting until it has received all parts of the web page from the host computer before proceeding. It inspects the contents of the document and finds that it matches the additional selection criteria that it is an HTML encoded document. The web crawler program, depending on its state and logic, then
- 10 parses the document, strips out and saves some or all of the URLs in the document for future examination. The web crawler program then passes the document, together with the URL of the document through a network communications channel to an indexing program executing on a different computer. The indexing computer has database updating software which manipulates a database stored on computer-readable media.
- 15 The indexing program parses the document, from first to last character, indexing some of the meta data in the <head> of the document and the words in the text of the document with respect to the document URL. In the database of this example, unique words extracted from the documents already indexed are held in separate rows of a column of a database table and in another column of the same table on each row is an associated pointer to the first bucket or
- 20 block of URLs of documents containing the word associated with the pointer. As new words are found, the new word is added as a new row in the word column of the table, a new bucket is created, the URL of the document containing the new word is inserted into the bucket and a pointer to the new bucket is written in the new row pointer column. When the same word is found in another document, the row in the table of the word is found, the pointer is retrieved
- 25 from the table, the bucket pointed to by the pointer is retrieved and the URL of the other document is inserted in the bucket. Where a bucket becomes full of URLs, a new bucket is created and a pointer to the new bucket for holding additional URLs is placed in the full bucket. Deletion of words and URLs of **changed** or no longer existing documents is also provided for.
- 30 In addition to indexing words extracted from the text of the document, the indexing program also indexes the CCG-data in the document as well as indexing words found in the CCG-data. When the parser finds HTML element "<XML>" in the document it switches into XML parsing mode and switches out of that mode when "</XML>" is found. When the element "<CCG>" is found, the parser switches into the CCG parsing mode and switches out of that mode when
- 35 "</CCG>" is found.

- The example database has a CCG-data attribute name to database property name correspondence table to show the relationship between the CCG-data attribute names and the database tables and columns (properties) where the CCG-data attribute values are to be
- 40 stored in the database as database property values. The database property values and associated URLs are stored in much the same way as for words extracted from text as outlined above. However, CCG contact data, for example, which consists of several distinct CCG-data attributes which are related (eg street name, city), is stored in a database table having a column (property) related to each distinct CCG contact attribute name and each
- 45 separate CCG contact data set (eg person's name, address, telephone number) as separated by "<CCG>", "<SET\_SEPARATOR>" and "</CCG>" is held in a separate row in the table. The values stored in each row are considered to be a set of associated property values of different types.

The indexing program, during parsing the document of Example 2 above, encounters the "<CCG>" element and enters the CCG parsing mode. The parser knows to ignore display control attributes and to consider database control elements in the CCG phrase. The example indexing program opts to index all other CCG-data contained in the attribute values until  
 5 explicitly instructed not to index the attribute values by encountering the "<NOINDEX/>" database control element and then to recommence indexing when the "<INDEX/>" database control element is encountered.

Taking each CCG-data attribute name and associated attribute value(s) in succession, the  
 10 example indexing program uses the correspondence table to translate the CCG-data attribute name to the database table and column (property) names where the CCG-data attribute value(s) are to be stored as database property value(s). The indexing program may opt to translate the CCG-data attribute values to database property values by, for example,  
 15 "True" to a single bit representation and the like. The indexing program then adds or updates the database property value(s), using the database table and column (property) names (or similar references) obtained by translation, in much the same manner as outlined above for the update of the database using words extracted from the document text, including associating the data to the document URL where desired. Where the CCG-data contains a "HREF"  
 20 attribute (or similar), the URL associated with the other CCG-data is a URL taken from the "HREF" attribute value or composed of the document URL and the "HREF" attribute value if the attribute value is a partial or relative URL. Some CCG attributes, such as "<BUSINESS/>" have only an implied value of true if the attribute is present and false if the attribute is absent, the "<SET\_SEPARATOR/>", "<CCG>" and "</CCG>" resetting such values to false. However,  
 25 where attribute value(s) associated with different attribute names are still related, such as a person's name and a street name, the related values of different types are stored on the same row of the same database table but in a different column (database property) to preserve the relationship. "<SET\_SEPARATOR/>" limits the degree of relatedness between, for example, a person's name occurring before the separator and a street name occurring after the separator.  
 30 Using the example document and using the same database column (property) names as used for the CCG-data attribute names a portion of the table constructed database table would look like:

|     | PNC | PNG  | PNF      | PQ  | PA   | PT                |     | URL       |
|-----|-----|------|----------|-----|------|-------------------|-----|-----------|
| ... | ... | ...  | ...      | ... | ...  | ...               | ... | ...       |
| ... | Mr  | John | Williams | AIE | ARUC | Managing Director | ... | (pointer) |
| ... | ... | ...  | ...      | ... | ...  | ...               | ... | ...       |

35 Difficulties not highlighted by this example are the need to handle properties having multiple values of the same type, "sparse rows" where only a few values are not null (blank) and tables with extremely large numbers of rows. For example, the CCG-data of this example could have contained multiple values of personal qualifications ("PQ"). To represent this type of data using  
 40 a 2 dimensional table database system, the database would be "normalised" so that the multiple values were stored in a separate table and keys or pointers were used to relate the relate the items in the two tables. Numerous alternate database systems, for example those based on key hashing and data buckets, or tagging data values with prefixes or suffixes related to the type of data value may be used. Preferably, however, whatever database system is used, it should preserve the associations of CCG-data items present in the CCG  
 45 phrases.

Because the geographic location data was missing from the postal address of the CCG-data in the example document, but a post code was present, the indexing program inferred the geographic location from the post code.

5

Example 6: Finding Web Page References Using a CCG Database

As an example, Kevin Robson lives in Sydney but owns and has rented out a house in Bathurst. He wants to use the web to find some electricians based in the general Bathurst region (not only in Bathurst City) to contact for estimating the cost of modifying the wiring in the house. He uses his web browser to open the web page "http://www.ausline.com.au/web\_search.html" containing AusLine's search engine web page search criteria input form encoded using the HTML "<form>" element.

The search criteria input form contains several input fields including those labelled "Service classification", "Key words", "City/Suburb/Town", "Country", "Lat/Long" and "Radius". The form also displays a button labelled "Map" to allow latitude and longitude to be selected by pointing to map images. The word "electrician" is typed into the "Service classification" field, "house wiring" into the "Keywords" field, "Bathurst" into the "City/Suburb/Town" field and "10" into the field "Radius". The country "Australia" was already showing in the country field because the web page server had received cookie data from the browser indicating that that was the country used when the browser last used the web page. The "submit search" button on the web page was clicked. The browser transmitted a message using TCP/IP protocol to the AusLine server containing the input field values encoded in the header of the message.

After a short delay, the search result HTML encoded web page was returned. Clicking on the "Service classification" input field drop down list box to check the classifications used in the search revealed three items:

- Electrical contractors - residential
- Electrical contractors - industrial
- Electrical engineers

The search engine attached to the server obtained those classifications by using word stemming and searching the text of the service classifications held in its database. The Lat/Long field contained the value "33.3856S;148.5743E" which the search engine obtained by looking up the latitude and longitude of the town "Bathurst" in the country "Australia" in its database. Clicking on the "Map" button retrieved a web page having the image of a map centred on the town of Bathurst and showing the area 20 Km around it. The search engine obtained the map by making a request to another Internet connected server and supplying the latitude, longitude and radius. Clicking on the browser "Back" button returned to the search results page.

40

The search results contained 8 titles, brief descriptions and URLs including a reference containing the URL "http://www.firefly.com.au/~johnw/index.html". Retrieving each in turn revealed that all were well focused according to the search criteria being related to electricians, electrical contractors and engineers in the Bathurst area. The search engine obtained these references to web pages by:

- searching its database of service classification titles with words stemming from "electrician" which resulted in three service classification codes,
- searching its database using the three service classification codes to obtain an intermediate list of URLs of web pages containing those CCG codes

- searching it's database for the two keywords to obtain an intermediate list of URLs of web pages containing those words in the web page text,
- Searching it's database to find the latitude and longitude of Bathurst, Australia,
- 5     • searching it's database to obtain an intermediate list of web pages which contain latitude and longitude data lying within 10 Km of the latitude and longitude of Bathurst, Australia,
- producing as a result list, a list of URLs which are common to all the intermediate lists,
- obtaining from it's database the title and brief description of the web pages,
- 10    • formatting the titles, descriptions and URLs into an HTML encoded report,
- transmitting the report to the enquiring web browser.

#### Example 7: Finding Contact Details Using a CCG Database

As an example, Jim Jones of Jones and Sons wants to send a recall notice about a faulty batch of UV stabilised electrical power cable to all Electrical contractors and Electrical  
15 wholesalers in Australia who have email addresses. He uses his web browser to open the web page "http://www.ausline.com.au/contact\_search.html" containing AusLine's search engine contact search criteria input form encoded using the HTML "<form>" element.

The search criteria input form contains several input fields including those labelled "Service  
20 classification", "Country" and "Output format". The word "electric" is typed into the "Service classification" field, the word "Australia" is typed into the "Country" field and the "Tabular - Name & Email" option in the "Output format" drop down list box is selected. The "Submit search" button on the web page is clicked. The browser transmits a message using TCP/IP protocol to the AusLine server containing the input field values encoded in the header of the  
25 message.

After a short delay, the search result HTML encoded web page is returned. Clicking on the "Service classification" input field drop down list box to check the classifications used in the search revealed too many classifications for the result to be sufficiently focused. The following  
30 four classifications were selected from the list:

- Electric cable - ducting systems
- Electrical contractors - residential
- Electrical contractors - industrial
- Electrical wholesalers

35 and the "Submit search" button is pressed again to refine the search.

The search results contained 3,473 names and associated email addresses and URLs to full contact details. Jim saved the search result page on his computer so that he could use his email program to send the recall notice to each email address in the list. The email address  
40 "johnw@firefly.com.au" was included in the list.

The search engine obtained these references to web pages by:

- searching it's database using the four service classification titles which resulted in four  
45 service classification codes,
- searching it's database using the four service classification codes to obtain an intermediate list of database primary keys of database table rows containing those service classification codes in the database Service classification attribute,
- searching it's database using the country name "Australia" to obtain an intermediate  
50 list of database primary keys of database table rows containing that word in the database Country attribute,

- producing as a result list, a list of database primary keys which are common to both the intermediate lists,
  - obtaining from it's database using the result list the values of the name and email attributes,
- 5
- using the HTML <table> element to format the name values, email values and full detail URLs into an HTML encoded report,
  - transmitting the report to the enquiring web browser.

10 This example relates to finding sets of associated database contact values without requiring references to web pages. However, finding other sets of associated database values such as sets of associated industry classification values and geographic location values might also be useful for some purposes.

15 Thus it is appreciated that the afore stated goals, advantages and objectives are achieved by the teachings herein. In particular it is seen that, unlike the prior art, efficiently searchable Yellow pages and White pages databases and the like may be automatically constructed from HTML encoded web pages. Additionally the database entries may be automatically linked to specific web pages and portions of web pages allowing convenient methods of indexing of product and service catalogues and the like. It is also appreciated that simpler methods of  
20 constructing databases suited to a variety of other uses such as industry and subject directories are also provided.

From the foregoing teachings and with the knowledge of those skilled in the art, it is apparent that other modifications and adaptations of the invention will become apparent. For example,  
25 the method steps disclosed and claimed herein may be practiced in a variety of different orders. CCG-data may take on a variety of different forms within the meaning of the claims. Thus, it is our intention to include within the scope of the claims not only the invention literally embraced by the language of the claims but to include all such modifications and adaptations which may come to those skilled in the art.

What I claim is:

1. An HTML encoded web page embodied on a computer-readable medium, said web page comprising at least one HTML encoded CCG phrase, each CCG phrase comprising:
  - 5 a) HTML code indicative of the start of a CCG phrase,
  - b) at least one CCG-data attribute, and
  - c) HTML code indicative of the end of a CCG phrase.
  
- 10 2. An HTML encoded web page embodied on a computer-readable medium, said web page comprising at least one HTML encoded CCG phrase, each CCG phrase comprising:
  - a) HTML code indicative of the start of a CCG phrase,
  - b) at least two CCG-data attributes,
  - 15 c) at least one database control attribute separating said CCG-data attributes into at least two sets of CCG attributes, and
  - d) HTML code indicative of the end of a CCG phrase.
  
- 20 3. An HTML encoded web page embodied on a computer-readable medium, said web page comprising at least one HTML encoded CCG phrase, each CCG phrase comprising:
  - a) HTML code indicative of the start of a CCG phrase,
  - b) at least one CCG-data attributes,
  - c) at least one attribute of: database control attributes, display control attributes; and
  - 25 d) HTML code indicative of the end of a CCG phrase.
  
4. A computer implemented method of building a web page comprising at least one HTML encoded CCG phrase, the method comprising the steps of:
  - a) displaying a web page on a computer display device,
  - 30 b) displaying an edit cursor indicating a character position on said display device and a corresponding character position in said web page, said edit cursor being positionable within the display of said web page by use of computer input devices,
  - c) separately displaying on said computer display device a set of edit controls representing CCG-data attribute types,
  - 35 d) positioning said edit cursor within said display of said web page using said input devices,
  - e) selecting an edit control from said set of edit controls using said input devices,
  - f) relating said selected edit control to a corresponding CCG-data attribute name,
  - 40 g) constructing a CCG-data attribute character string comprising a character string representing said attribute name and another character string representing an empty CCG-data value,
  - h) if the said edit cursor is positioned outside a CCG phrase.
    - i) inserting into said web page, at the character position indicated by said edit cursor, a start character string comprising HTML code indicative of the start of a CCG phrase,
    - 45 ii) inserting into said web page, immediately after the end of said start character string, an end character string comprising HTML code indicative of the end of a CCG phrase, and
    - iii) positioning said edit cursor between said start and end character strings,

- i) inserting said CCG-data attribute character string into said web page at the character position indicated by said edit cursor,
  - j) positioning said edit cursor at the character position in said web page of the CCG-data value of said inserted CCG-data attribute character string,
  - 5 k) inputting characters using a keyboard,
  - l) inserting said input characters into said web page at the character position indicated by said edit cursor, thereby converting said empty CCG-data value to a non-empty CCG-data value, and
  - 10 m) writing said web page on computer-readable media.
5. A computer implemented method of building a web page comprising at least one HTML encoded CCG phrase, the method comprising the steps of:
- a) displaying a web page on a computer display device,
  - 15 b) displaying a start edit cursor and an end edit cursor on said display device, each said edit cursors indicating a character position on said display device and a corresponding character position in said web page, said edit cursors being positionable within the display of said web page by use of computer input devices,
  - c) separately displaying on said computer display device a set of edit controls representing CCG-data attribute types,
  - 20 d) selecting a string of web page characters on said display device using said input devices to position said start edit cursor to indicate the start said string of web page characters and said end edit cursor to indicate the end of said string of web page characters,
  - e) selecting an edit control from said set of edit controls using said input devices,
  - 25 f) relating said selected CCG-data control to a corresponding CCG-data attribute name,
  - g) constructing a CCG-data attribute character string comprising a character string representing said attribute name and another character string representing a CCG-data value containing said string of web page characters,
  - 30 h) deleting said string of web page characters from said web page,
  - i) if the said start edit cursor is positioned outside a CCG phrase,
    - i) inserting into said web page, at the character position indicated by said start edit cursor, a start character string comprising HTML code indicative of the start of a CCG phrase,
    - 35 ii) inserting into said web page, immediately after the end of said start character string, an end character string comprising HTML code indicative of the end of a CCG phrase, and
    - iii) positioning said start edit cursor between said start and end character strings,
  - 40 j) inserting said CCG-data attribute character string into said web page at the character position indicated by said start edit cursor, thereby converting said string of web page characters to a CCG-data attribute value contained within a CCG-data attribute contained within CCG-phrase, and
  - 45 k) writing said web page on computer-readable media.
6. A computer implemented method of building a web page comprising at least one HTML encoded CCG phrase, the method comprising the steps of:
- a) displaying a CCG-data input form on a computer display device,
  - 50 b) inputting CCG-data values into fields of said data input form using computer input devices,



- 5 c) inserting into the body of a web page a start character string comprising HTML code indicative of the start of a CCG phrase,  
 d) inserting into said web page body immediately after the end of said start character string an end character string comprising HTML code indicative of the end of a CCG phrase,  
 e) extracting successive field values from said data entry form together with related field value type information,  
 f) relating the type of each extracted field value to a corresponding CCG-data attribute name,  
 10 g) constructing a CCG-data attribute character string comprising a character string representing said attribute name and another character string representing said field value,  
 h) inserting said CCG-data attribute character string into said web page between said start and end character strings.  
 15 i) writing said web page on computer-readable media.
7. A computer implemented method of building a database which comprises sets of associated property values wherein each set includes at least two property values of different types, the property values being any of classification values, contact values, 20 geographic location values, hereinafter collectively referred to as CCG-data, the method comprising the steps of:
- a) retrieving successive web pages from a computer network, each web page being identified by a URL,  
 b) searching each web page for a CCG phrase that includes a plurality of different 25 types of CCG-data attributes,  
 c) extracting a plurality of said attributes from said phrase,  
 d) from each extracted attribute, deriving an attribute name and a related attribute value,  
 e) determining the type of said extracted attribute and said attribute value by 30 reference to said attribute name,  
 f) relating said type of attribute value so determined to a corresponding type of database property value,  
 g) relating the URL of said web page to an other type of database property value,  
 h) writing said derived attribute value to the database property value of said 35 determined corresponding type in a set of associated property values, and  
 i) writing the URL of said web page to a database property value of said other type in said set of associated property values.
8. A computer implemented method of building a database which comprises sets of 40 associated property values wherein each set includes at least two property values of different types, the property values being any of classification values, contact values, geographic location values, hereinafter collectively referred to as CCG-data, the method comprising the steps of:
- a) retrieving successive web pages from a computer network, each web page being 45 identified by a URL,  
 b) searching each web page for a CCG phrase that includes at least one type of CCG-data attribute,  
 c) extracting at least one said attribute from said phrase,  
 d) from each extracted attribute, deriving an attribute name and a related attribute 50 value,

- e) determining the type of said extracted attribute and said attribute value by reference to said attribute name,
- f) relating said type of attribute value so determined to a corresponding type of database property value,
- 5 g) relating the URL of said web page to an other type of database property value,
- h) writing said derived attribute value to the database property value of said determined corresponding type in a set of associated property values, and
- i) writing the URL of said web page to a database property value of said other type in said set of associated property values.
- 10
9. A computer implemented method of building a database which comprises sets of associated property values wherein each set includes at least two property values of different types, the property values being any of classification values, contact values, geographic location values, hereinafter collectively referred to as CCG-data, the method comprising the steps of:
- 15
- a) retrieving successive web pages from a computer network,
- b) searching each web page for a CCG phrase that includes a plurality of different types of CCG-data attributes.
- c) extracting a plurality of said attributes from said phrase,
- 20 d) from each extracted attribute, deriving an attribute name and a related attribute value,
- e) determining the type of said extracted attribute and said attribute value by reference to said attribute name,
- f) relating said type of attribute value so determined to a corresponding type of database property value, and
- 25 g) writing said derived attribute value to the database property value of said determined corresponding type in a set of associated property values.
10. A computer implemented method of finding references to web pages posted on computer network the method using a database comprising sets of associated property values, the property values being any of classification values, contact values, geographic location values, hereinafter collectively referred to as CCG-data, and URL references, the method comprising the steps of:
- 30
- a) receiving a query phrase including query relational expressions from a computer network,
- 35 b) parsing said query phrase and extracting each of said query relational expressions included therein,
- c) from each extracted query relational expression, deriving a query field name,
- d) determining the type of said query relational expression by reference to its derived query field name,
- 40 e) relating said type of query relational expression so determined to one of the following query relational expression types: CCG-data type, other type,
- f) provided said query relational expression is a CCG-data type, deriving a query relational operator and query value related to its query field name from said query relational expression,
- 45 g) determining the type of said query value by reference to said query field name,
- h) relating said type of query value so determined to a corresponding type of database property value,

- 5
- i) locating database property values of said determined corresponding type which return a true value when tested against said query value using said query relational operator,
  - j) extracting from said database a list of the URL references associated with the so located database property values,
- 10
11. A computer implemented method of finding sets of associated database property values the method using a database comprising sets of associated property values wherein each set includes at least two property values of different types, the property values being any of classification values, contact values, geographic values, hereinafter collectively referred to as CCG-data, the method comprising the steps of:
- a) receiving a query phrase including query relational expressions from a computer network,
  - b) parsing said query phrase and extracting each of said query relational expressions included therein,
  - c) from each extracted query relational expression, deriving a query field name,
  - d) determining the type of said query relational expression by reference to its derived query field name,
  - e) relating said type of query relational expression so determined to one of the following query relational expression types: CCG-data type, other type,
  - f) provided said query relational expression is a CCG-data type, deriving a query relational operator and query value related to its query field name from said query relational expression,
  - g) determining the type of said query value by reference to said query field name,
  - h) relating said type of query value so determined to a corresponding type of database property value,
  - i) locating database property values of said determined corresponding type which return a true value when tested against said query value using said query relational operator,
  - j) extracting from said database sets of associated database property values associated with the so located database property values.
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12. A method of displaying a web page comprising at least one HTML encoded CCG phrase, the method comprising the steps of:
- a) retrieving a web page from a computer network,
  - b) parsing said retrieved web page to locate an HTML code indicative of the start of a CCG phrase,
  - c) parsing said located CCG phrase and extracting successive CCG attributes contained therein until an HTML code indicative of the end of said CCG phrase is found,
  - d) from each extracted attribute, deriving an attribute name,
  - e) determining the type of said extracted attribute by reference to its derived attribute name,
  - f) relating said type of attribute so determined to one of the following attribute types: database control, display control, CCG-data,
  - g) provided said extracted attribute is not a database control type, deriving an attribute value related to its attribute name from said extracted attribute,
  - h) determining the type of said attribute value by reference to said attribute name,
  - i) relating said type of attribute value so determined to a corresponding type of parameter of a display-device-control-program,

- 5
- j) writing said attribute value to said parameter, and
  - k) where said type of attribute is a CCG-data type, causing said display-device-control-program to effect display of said attribute value on a display device, formatted and positioned according said display-device-control-program parameters whereby successive values of CCG-data of the CCG phrase are displayed.

**ABSTRACT**

A system for automatically creating databases containing industry, service, product and subject classification data, contact data, geographic location data (CCG-data) and links to web pages from HTML, XML or SGML encoded web pages posted on computer networks such as the Internet or Intranets. The web pages containing HTML, XML or SGML encoded CCG-data, database update controls and web browser display controls are created and modified by using simple text editors, HTML, XML or SGML editors or purpose built editors. The CCG databases may be searched for references (URLs) to web pages by use of enquiries which reference one or more of the items of the CCG-data. Alternatively, enquiries referencing the CCG-data in the databases may supply contact data without web page references. Data duplication and coordination is reduced by including in the web page CCG-data display controls which are used by web browsers to format for display the same data that is used to automatically update the databases.

## Electronic Acknowledgement Receipt

|   |                                 |
|---|---------------------------------|
| <b>EFS ID:</b>                              | 4626740                         |
| <b>Application Number:</b>                  | 12173747                        |
| <b>International Application Number:</b>    |                                 |
| <b>Confirmation Number:</b>                 | 7377                            |
| <b>Title of Invention:</b>                  | Automated Media Delivery System |
| <b>First Named Inventor/Applicant Name:</b> | Sean Barger                     |
| <b>Customer Number:</b>                     | 22862                           |
| <b>Filer:</b>                               | Michael Glenn/Christine Ort     |
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### File Listing:

| Document Number | Document Description | File Name       | File Size(Bytes)/<br>Message Digest                               | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-----------------|---|------------------|------------------|
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| 7  | Foreign Reference | 40-EP0883068.pdf | 50087                                    | no  | 22 |
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| 8  | Foreign Reference | 41-EP0886409.pdf | 46649                                    | no  | 28 |
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| 9                   | Foreign Reference | 42-EP0895171.pdf                  | 2457081<br>061dc0960c9eb4c587a2f20856c71aac4d588d8  | no | 39  |
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| 10                  | Foreign Reference | 43-EPO926607.pdf                  | 3783168<br>82f99a0149416291f9775b3e6a903a8202ac47b0 | no | 74  |
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| 11                  | Foreign Reference | 44-EPO949571.pdf                  | 2246210<br>e090ac4df027a18cb51a141b53a1f824a9b3788b | no | 40  |
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| 17                  | NPL Documents     | B-Zaiane-MiningMultimediaData.pdf | 1370264<br>564270bf9ee4122477794da53486be356ccdad6d | no | 19  |
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| 18                                  | NPL Documents | C-Bulterman-ModelsMediaAndMotion.PDF  | 690629<br>0345d97b463fa006f0df42727d7f39d9fad73d   | no | 12 |
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| 19                                  | NPL Documents | D-Mohler-MigratingCourseMaterials.PDF | 77628<br>7f940080689bd2c8d05a89945320fcabae8e32e6  | no | 2  |
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| 20                                  | NPL Documents | E-Dobson-AnimatingYourWebPages.PDF    | 293322<br>759a70d5547c34da189436bcd3acf15a66c914a7 | no | 5  |
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| 21                                  | NPL Documents | F-Berstein-TheBigPicture.PDF          | 526864<br>055c120228c026c7ce046cec7039c80a2b8b6968 | no | 11 |
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| 22                                  | NPL Documents | G-McNeil-ResearchInterests.PDF        | 100387<br>a9668ca00802930bbdd9f94836d40b2e61c13419 | no | 3  |
| <b>Warnings:</b>                    |               |                                       |  |    |    |
| <b>Information:</b>                 |               |                                       |  |    |    |
| 23                                  | NPL Documents | H-GeoSciences-TableOfContents.PDF     | 45795<br>c41562a3bd6be90a4d9142499ca7dbeb799677e2  | no | 2  |
| <b>Warnings:</b>                    |               |                                       |  |    |    |
| <b>Information:</b>                 |               |                                       |  |    |    |
| <b>Total Files Size (in bytes):</b> |               |                                       | 21778324   |    |    |

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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

## ELECTRONIC TRANSMITTAL COVER SHEET

Application Serial No. 12/173,747

Attorney Docket No. EQUI0016

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From: GLENN PATENT GROUP

Customer No.: 22,862

Tel: (650) 474-8400

Fax: (650) 474-8401

on January 16, 2009

Date



Signature

Christine Ort

Typed or printed name of person signing Certificate

Note: Each paper must have its own certificate of transmission, or this certificate must identify each submitted paper.

Attached to this cover sheet please find the following documents:

- Information Disclosure Statement (2 pages);
- 1449 (3 pages); and
- Cited References

This collection of information is required by 37 CFR 1.8. 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 1.14. This collection is estimated to take 1.8 minutes 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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Table with 4 columns: APPLICATION NUMBER (12/173,747), FILING OR 371(C) DATE (07/15/2008), FIRST NAMED APPLICANT (Sean Barger), ATTY. DOCKET NO./TITLE (EQUI0016)

CONFIRMATION NO. 7377

PUBLICATION NOTICE

22862
GLENN PATENT GROUP
3475 EDISON WAY, SUITE L
MENLO PARK, CA 94025



Title:Automated Media Delivery System
Publication No.US-2009-0070485-A1
Publication Date:03/12/2009

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

|  |                                   |
|--|-----------------------------------|
| <b>Form 1449 (Modified)</b>                          | <b>Serial No.: 12/173,747</b>     |
|  | <b>Atty. Docket No.: EQUI0016</b> |
| <b>Information Disclosure Statement By Applicant</b> | <b>Applicant: Sean Barger</b>     |
|  | <b>Art Unit: 2443</b>             |
|  | <b>Confirmation No.: 7377</b>     |
| (Use Several Sheets if Necessary)                    | <b>Filing Date: July 15, 2008</b> |

**U.S. Patent Documents**

| <b>Examiner Initials</b> | <b>No.</b> | <b>Patent No.</b> | <b>Issue Date</b> | <b>Patentee</b> | <b>Filing Date</b> |
|--------------------------|------------|-------------------|-------------------|-----------------|--------------------|
|                          | 1          | 5,442,771         | 8/1/1995          | Filepp, et al.  |                    |
|                          | 2          | 6,484,149         | 11/1/2002         | Jemmes, et al.  |                    |
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**Published U.S. Patent Application**

| <b>Examiner Initials</b> | <b>No.</b> | <b>Publication No.</b> | <b>Publication Date</b> | <b>Applicant</b> |
|--------------------------|------------|------------------------|-------------------------|------------------|
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**Foreign Patent or Published Foreign Patent Application**

| <b>Examiner Initials</b> | <b>No.</b> | <b>Document No.</b> | <b>Publication Date</b> | <b>Applicant</b> |
|--------------------------|------------|---------------------|-------------------------|------------------|
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**Non-Patent Literature Documents**

| <b>Examiner Initials</b> | <b>No.</b> | <b>Author, Title, Date, Place (e.g. Journal) of Publication</b> |
|--------------------------|------------|---|
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|                          |            |   |

Examiner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Electronic Acknowledgement Receipt

|   |                                 |
|---|---------------------------------|
| <b>EFS ID:</b>                              | 5156769                         |
| <b>Application Number:</b>                  | 12173747                        |
| <b>International Application Number:</b>    |                                 |
| <b>Confirmation Number:</b>                 | 7377                            |
| <b>Title of Invention:</b>                  | Automated Media Delivery System |
| <b>First Named Inventor/Applicant Name:</b> | Sean Barger                     |
| <b>Customer Number:</b>                     | 22862                           |
| <b>Filer:</b>                               | Michael Glenn/Christine Ort     |
| <b>Filer Authorized By:</b>                 | Michael Glenn                   |
| <b>Attorney Docket Number:</b>              | EQUI0016                        |
| <b>Receipt Date:</b>                        | 15-APR-2009                     |
| <b>Filing Date:</b>                         | 15-JUL-2008                     |
| <b>Time Stamp:</b>                          | 12:31:55                        |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)     |

### Payment information:

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### File Listing:

| Document Number | Document Description | File Name       | File Size(Bytes)/<br>Message Digest                                   | Multi Part /.zip | Pages (if appl.) |
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| 1               |                      | IDSEQUI0016.pdf | 142644<br><small>df6c58b60fb704b71e8e83203cfa462ee69<br/>a754</small> | yes              | 4                |

| <b>Multipart Description/PDF files in .zip description</b> |  |              |            |
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| Miscellaneous Incoming Letter                              |  | 1            | 1          |
| Transmittal Letter   |  | 2            | 3          |
| Information Disclosure Statement (IDS) Filed (SB/08)       |  | 4            | 4          |

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**Information:**

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**New Applications Under 35 U.S.C. 111**

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**National Stage of an International Application under 35 U.S.C. 371**

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**New International Application Filed with the USPTO as a Receiving Office**

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## ELECTRONIC TRANSMITTAL COVER SHEET

Application Serial No. 12/173,747

Attorney Docket No. EQUI0016

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Customer No.: 22,862

Tel: (650) 474-8400

Fax: (650) 474-8401

on April 15, 2009

Date



Signature

Christine Ort

Typed or printed name of person signing Certificate

Note: Each paper must have its own certificate of transmission, or this certificate must identify each submitted paper.

Attached to this cover sheet please find the following documents:

- Information Disclosure Statement (2 pages);
- 1449 (1 page)

This collection of information is required by 37 CFR 1.8. 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 1.14. This collection is estimated to take 1.8 minutes 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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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First Named Inventor : Sean BARGER  
Serial No. : 12/173,747  
Filed : July 15, 2008  
Art Unit : 2443  
Confirmation Number : 7377  
Examiner : Unassigned  
Title : Automated Media Delivery System  
Attorney Docket No. : EQUI0016

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April 15, 2009

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Examiner:

This Information Disclosure Statement is submitted:

- under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
- under 37 CFR 1.97(c) together with either a:
  - Certification under 37 CFR 1.97(e), or
  - a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- under 37 CFR 1.97(d) together with a:
  - Certification under 37 CFR 1.97(e), and
  - a \$180.00 fee under 37 CFR 1.17(p).  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

(X) The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 07-1445 (Order No. EQUI0016).

(X) Applicant(s) submit herewith PTO Form 1449 (Modified) -- Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.25.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449 (Modified), as presently understood by the individual(s) designated in 37 CFR 156(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO Form 1449 (Modified) and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

Respectfully Submitted,



Michael A. Glenn  
Reg. No. 30,176

Customer No. 22862



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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 12/173,747, 07/15/2008, Sean Barger, EQUI0016, 7377
Row 2: 22862, 7590, 04/16/2010, (Empty), (Empty)
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

eptomatters@glenn-law.com



### **DETAILED ACTION**

This communication is in response to application file on 07/15/2008 in which claims 1- 23 are presented for examination.

#### **Information Disclosure Statement**

The information disclosure statements (IDS) submitted were filed on 04/15/2009 and 01/16/2009. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

#### ***Claim Rejections - 35 USC § 102***

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 1. Claims 1-3, 5-7, 9-13, 15-18, 19-20, and 22-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Krishnaswamy et al. US Patent 6,909,708 (hereinafter referred to as Krishnaswamy)**
- 2. Regarding claim 1, Krishnaswamy teaches a method for simultaneous transcoding of multi-media data, comprising:**
  - receiving multi-media data in a first format; (**Krishnaswamy teaches receiving video to be converted**) (**Krishnaswamy, col. 135, lines 22-35**)

transmitting said multi-media data to an output device; and  
(**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device (**Krishnaswamy** teaches converting said data to a format different from the first format, and sending the converted data to another device<sup>3</sup>) (**Krishnaswamy, col. 135, lines 22-35**)

3. Regarding claims 2, **Krishnaswamy** further teaches the method of claim 1, wherein:

said multi-media data comprises at least one of: video data, audio data or digital pictures. (**Krishnaswamy** teaches receiving video to be converted)  
(**Krishnaswamy, col. 135, lines 22-35**)

4. Regarding claims 3, **Krishnaswamy** further teaches the method of claim 1, wherein:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format. (**Krishnaswamy** teaches receiving analog video to be converted.

The video can be transcoded into various digital formats including MPEG or H.263) (**Krishnaswamy, col. 135, lines 22-35**)

5. Regarding claims 5, **Krishnaswamy** further teaches the method of claim 1, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a display device. (**Krishnaswamy** transmitting video to clients which display the video on a local display device) (**Krishnaswamy, col. 135, lines 55-65**)

6. Regarding claims 6, **Krishnaswamy** further teaches the method of claim 1, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

7. Regarding claims 7, **Krishnaswamy** further teaches the method of claim 1, comprising:

transmitting said transcoded multi-media data in said alternate format to an external device. (**Krishnaswamy** teaches receiving analog video to be converted. The video can be converted into various digital formats

including MPEG or H.263 which is then transmitted to servers for distribution or storage) **(Krishnaswamy, col. 135, lines 22-35)**

8. Regarding claims 9 **Krishnaswamy** further teaches the method of claim 1, wherein:

said multi-media data in said first format is received from a service provider. **(Krishnaswamy** teaches receiving the video content from any content source or from MCI (the provider).)**(Krishnaswamy, col. 134, lines 55-67)**

9. Regarding claims 10 **Krishnaswamy** further teaches the method of claim 1, wherein:

said multi-media data in said first format is received from a local content source. **(Krishnaswamy** teaches receiving the video content from any content source or from MCI (the provider).)**(Krishnaswamy, col. 134, lines 55-67)**

10. Regarding claim 11, **Krishnaswamy** teaches a system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving multi-media data in a first format and for transmitting said multi-media data to an output device; and **(Krishnaswamy** teaches receiving video to be converted into a second



format. This video data is received and converted by a server) **(See Fig. 19D) (Krishnaswamy, col. 135, lines 5-15, and lines 22-35)**

a transcoder, coupled to said controller, for transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device. **(Krishnaswamy** teaches converting the multimedia data into another format and transmitting said data to various client devices by a server.) **(See Fig. 19D) (Krishnaswamy, col. 135, lines 5-15, and lines 22-35)**

11. Regarding claims 12 **Krishnaswamy** further teaches the system of claim 11, wherein:

said multi-media data comprises at least one of: video data, audio data or digital pictures. **(Krishnaswamy** teaches receiving video to be converted ) **(Krishnaswamy, col. 135, lines 22-35)**

12. Regarding claims 13 **Krishnaswamy** further teaches the system of claim 11, wherein:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format **(Krishnaswamy** teaches receiving analog video to be converted. The

video can be converted into various digital formats including MPEG or H.263) (**Krishnaswamy, col. 135, lines 22-35**)

13. Regarding claims 15 **Krishnaswamy** further teaches the system of claim 11, wherein:

said output device comprises a display device. (**Krishnaswamy** transmitting video to clients which displays the video on a local display device) (**Krishnaswamy, col. 135, lines 55-65**)

14. Regarding claims 16 **Krishnaswamy** further teaches the system of claim 11, wherein:

said output device comprises a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

15. Regarding claims 17 **Krishnaswamy** further teaches the system of claim 11, wherein:

one or more interfaces for transmitting said transcoded multi-media data in said alternate format to an external device. (**Krishnaswamy** teaches receiving analog video to be transcoded. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted

to servers for distribution or storage) (**Krishnaswamy, col. 135, lines 22-35**)

16. Regarding claim 19 **Krishnaswamy** teaches a computer-readable medium comprising:

receiving multi-media data in a first format; (**Krishnaswamy** teaches receiving video to be converted) (**Krishnaswamy, col. 135, lines 22-35**) (**Krishnaswamy** also teaches implementing the invention using software executed on hardware) (**Krishnaswamy, cols. 74 -78**)

transmitting said multi-media data to an output device; and (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device. (**Krishnaswamy** teaches converting said data to a format different from the first format, and sending the converted data to another device<sup>3</sup>) (**Krishnaswamy, col. 135, lines 22-35**)

17. Regarding claims 20 **Krishnaswamy** further teaches the computer-readable medium of claim 19, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to at least one of: a display device or a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**) (**Krishnaswamy** also teaches transmitting video to clients which displays the video on a local display device) (**Krishnaswamy, col. 135, lines 55-65**)

18. Regarding claims 22 **Krishnaswamy** further teaches the computer-readable medium of claim 19, further comprising:

transmitting said transcoded multi-media data in said alternate format to an external device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

19. Regarding claims 23 **Krishnaswamy** further teaches the computer-readable medium of claim 19, wherein:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format (**Krishnaswamy** teaches receiving analog video to be converted. The

video can be converted into various digital formats including MPEG or H.263) (**Krishnaswamy, col. 135, lines 22-35**)

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**20. Claims 4, 8, 14, 18, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnaswamy et al. US Patent 6,909,708 (hereinafter referred to as Krishnaswamy)**

**21. Regarding claim 4, Krishnaswamy does not explicitly teach:**

said transcoding comprises at least one of: changing a resolution of said multi-media data, changing a frame rate of said multimedia data or changing a compression format of said multi-media data.

However, **Krishnaswamy** does teach:

receiving analog video to be converted. This video can be transcoded into various digital formats including the MPEG digital video format or H.263. (**Krishnaswamy, col. 135, lines 22-35**)

It would be obvious to one of ordinary skill in the art at the time of the invention to realize that converting between an analog format to a digital format changes various aspects of a video signal such as the compression as in the use of converting analog video signals into the MPEG video digital video format.

**22.** Regarding claim 8, **Krishnaswamy** does not explicitly teach:

wherein said external device comprises a portable media player.

However, **Krishnaswamy** does teach

sending converted video data to client computers (**Krishnaswamy, col. 135, lines 22-35; col. 73, lines 55-67**)

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

**23.** Regarding claim 14 **Krishnaswamy** does not explicitly:

said transcoder changes at least one of: a resolution of said multi-media data, a frame rate of said multi-media data or a compression format of said multi-media data.

However, **Krishnaswamy** does teach:

receiving analog video to be converted. This video can be transcoded into various digital formats including the MPEG digital video format or H.263.

**(Krishnaswamy, col. 135, lines 22-35)**

It would be obvious to one of ordinary skill in the art at the time of the invention was made to realize that converting between an analog format to a digital format changes various aspects of a video signal such as the compression as in the use of converting analog video signals into the MPEG video digital video format.

**24.** Regarding claim 18 **Krishnaswamy** does not explicitly teach:

said external device comprises a portable media player.

However, **Krishnaswamy** does teach

sending converted video data to client computers **(Krishnaswamy, col. 135, lines 22-35; col. 73, lines 55-67)**

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

**25.** Regarding claim 21 **Krishnaswamy** does not explicitly teach :

said transcoding comprises at least one of: changing a resolution of said multi-media data, changing a frame rate of said multi-media data or changing a compression format of said multi-media data.

However, **Krishnaswamy** does teach:

receiving analog video to be converted. This video can be transcoded into various digital formats including the MPEG digital video format or H.263.  
**(Krishnaswamy, col. 135, lines 22-35)**

It would be obvious to one of ordinary skill in the art at the time of the invention was made to realize that converting between an analog format to a digital format changes various aspects of a video signal such as the compression as in the use of converting analog video signals into the MPEG video digital video format.



***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHARLES MURPHY whose telephone number is (571)270-5444. The examiner can normally be reached on 8AM - 5PM Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHARLES MURPHY/  
Examiner, Art Unit 2441  
4/14/2010

/Wing F. Chan/  
Supervisory Patent Examiner, Art Unit 2441

|                                   |                                       |   |             |
|-----------------------------------|---------------------------------------|---|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>12/173,747 | Applicant(s)/Patent Under<br>Reexamination<br>BARGER ET AL. |             |
|                                   | Examiner<br>CHARLES MURPHY            | Art Unit<br>2441  | Page 1 of 1 |

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| B | US-  |                 |                     |                |
| C | US-  |                 |                     |                |
| D | US-  |                 |                     |                |
| E | US-  |                 |                     |                |
| F | US-  |                 |                     |                |
| G | US-  |                 |                     |                |
| H | US-  |                 |                     |                |
| I | US-  |                 |                     |                |
| J | US-  |                 |                     |                |
| K | US-  |                 |                     |                |
| L | US-  |                 |                     |                |
| M | US-  |                 |                     |                |


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| R |  |                 |         |      |                |
| S |  |                 |         |      |                |
| T |  |                 |         |      |                |

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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.


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| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>BARGER ET AL. |
|  | <b>Examiner</b><br><br>CHARLES MURPHY          | <b>Art Unit</b><br><br>2441   |

| SEARCHED |   |          |                |
|----------|---|----------|----------------|
| Class    | Subclass                                    | Date     | Examiner       |
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| 455      | 560 463 426.1 422.1 412.1                   | 4/6/2010 | Charles Murphy |

| SEARCH NOTES |          |                |
|--------------|----------|----------------|
| Search Notes | Date     | Examiner       |
| East         | 4/6/2010 | Charles Murphy |

| INTERFERENCE SEARCH |          |      |          |
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| Class               | Subclass | Date | Examiner |
|                     |          |      |          |

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| /CHARLES MURPHY/<br>Examiner.Art Unit 2441 |  |
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| <b>Index of Claims</b><br><br> | <b>Application/Control No.</b><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br>BARGER ET AL. |
|   | <b>Examiner</b><br>CHARLES MURPHY          | <b>Art Unit</b><br>2441   |

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| = | <b>Allowed</b>  |

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| - | <b>Cancelled</b>  |
| ÷ | <b>Restricted</b> |

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| N | <b>Non-Elected</b>  |
| I | <b>Interference</b> |

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| A | <b>Appeal</b>   |
| O | <b>Objected</b> |

Claims renumbered in the same order as presented by applicant
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| CLAIM |          | DATE       |  |  |  |  |  |  |  |  |  |
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| Final | Original | 04/06/2010 |  |  |  |  |  |  |  |  |  |
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|       | 23       | ✓          |  |  |  |  |  |  |  |  |  |



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Bib Data Sheet

CONFIRMATION NO. 7377

|   |   |                               |                               |   |                                |
|---|---|-------------------------------|-------------------------------|---|--------------------------------|
| <b>SERIAL NUMBER</b><br>12/173,747  | <b>FILING OR 371(c) DATE</b><br>07/15/2008<br><b>RULE</b>   | <b>CLASS</b><br>709           | <b>GROUP ART UNIT</b><br>2441 | <b>ATTORNEY DOCKET NO.</b><br>EQUI0016  |                                |
| <b>APPLICANTS</b><br>Sean Barger, Mill Valley, CA;<br>Steve Johnson, Mill Valley, CA;<br>Matt Butler, Beaverton, OR;<br>Jerry Destremps, Sausalito, CA;<br>David Pochron, Cambridge, WI;<br>Trent Brown, San Anselmo, CA; |   |                               |                               |   |                                |
| ** CONTINUING DATA *****<br>This application is a DIV of 11/269,916 11/07/2005 ABN which is a CIP of 09/929,904 08/14/2001 PAT 6,964,009 which is a CON of 09/425,326 10/21/1999 PAT 6,792,575                            |   |                               |                               |   |                                |
| ** FOREIGN APPLICATIONS *****   |   |                               |                               |   |                                |
| IF REQUIRED, FOREIGN FILING LICENSE GRANTED** SMALL ENTITY **<br>** 07/23/2008  |   |                               |                               |   |                                |
| Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no  |   | <b>STATE OR COUNTRY</b><br>CA | <b>SHEETS DRAWING</b><br>23   | <b>TOTAL CLAIMS</b><br>23   | <b>INDEPENDENT CLAIMS</b><br>3 |
| 35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance  |   |                               |                               |   |                                |
| Verified and Acknowledged <u>Charles Murphy</u> / <u>                    </u><br>Examiner's Signature Initials  |   |                               |                               |   |                                |
| <b>ADDRESS</b><br>22862   |   |                               |                               |   |                                |
| <b>TITLE</b><br>Automated Media Delivery System   |   |                               |                               |   |                                |
| <b>FILING FEE RECEIVED</b><br>575   | FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following: |                               |                               | <input type="checkbox"/> All Fees<br><input type="checkbox"/> 1.16 Fees ( Filing )<br><input type="checkbox"/> 1.17 Fees ( Processing Ext. of time )<br><input type="checkbox"/> 1.18 Fees ( Issue )<br><input type="checkbox"/> Other _____<br><input type="checkbox"/> Credit |                                |

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| <b>Form 1449 (Modified)</b>                          | <b>Serial No.: 12/173,747</b>     |
|  | <b>Atty. Docket No.: EQUI0016</b> |
| <b>Information Disclosure Statement By Applicant</b> | <b>Applicant: Sean Barger</b>     |
|  | <del>Art Unit: 2445</del> 2441    |
|  | <b>Confirmation No.: 7377</b>     |
| (Use Several Sheets if Necessary)                    | <b>Filing Date: July 15, 2008</b> |

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**Published U.S. Patent Application**

| Examiner Initials | No. | Publication No. | Publication Date | Applicant |
|-------------------|-----|-----------------|------------------|-----------|
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**Foreign Patent or Published Foreign Patent Application**

| Examiner Initials | No. | Document No. | Publication Date | Applicant |
|-------------------|-----|--------------|------------------|-----------|
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Examiner's Signature:           /Charles Murphy/           Date:           04/06/2010          

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

|   |  |                                   |
|---|--|-----------------------------------|
| <b>Information Disclosure<br/>Statement By Applicant</b><br><br>(Use Several Sheets if Necessary) | <b>Atty. Docket No.</b><br>EQUI0016      | <b>Serial No.:</b><br>12/173,747. |
|   | <b>Applicant:</b><br>Sean Barger, et al. | <b>Group: 2443</b>                |
|   | <b>Filing Date:</b><br>July 15, 2008     | <b>Confirmation No: 7377</b>      |

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**Published U.S. Patent Application**

| Examiner Initial | No. | Document No. | Publication Date | Assignee | Class | Sub-class | Translation |    |
|------------------|-----|--------------|------------------|----------|-------|-----------|-------------|----|
|                  |     |              |                  |          |       |           | Yes         | No |
|                  |     |              |                  |          |       |           |             |    |
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## Foreign Patent or Published Foreign Patent Application

| Examiner Initial | No. | Document No.  | Publication Date | Assignee                                | Class | Sub-class | Translation |    |
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| /C.M./           | 35  | EP 0747842    | 12/11/1996       | International Business Machines Corp.   |       |           |             |    |
| /C.M./           | 36  | EP 0782085    | 7/2/1997         | International Business Machines Corp.   |       |           |             |    |
| /C.M./           | 37  | EP 0818907    | 1/14/1998        | AT&T Corp                               |       |           |             |    |
| /C.M./           | 38  | EP 0843276    | 5/20/1998        | Canon Information Systems Inc           |       |           |             |    |
| /C.M./           | 39  | EP 0876034    | 11/4/1998        | International Business Machines Corp.   |       |           |             |    |
| /C.M./           | 40  | EP 0883068    | 12/9/1998        | Home Informaiton Services, Inc.         |       |           |             |    |
| /C.M./           | 41  | EP 0886409    | 12/23/1998       | Digital Vision Laboratories Corporation |       |           |             |    |
| /C.M./           | 42  | EP 0895171    | 2/3/1999         | Neoforma, Inc.                          |       |           |             |    |
| /C.M./           | 43  | EP 0926607    | 6/30/1999        | Ricoh KK                                |       |           |             |    |
| /C.M./           | 44  | EP 0949571    | 10/13/1999       | Xerox Corp                              |       |           |             |    |
| /C.M./           | 45  | WO 98/40842   | 9/17/1998        | Computer Information and Sciences, Inc. |       |           |             |    |
| /C.M./           | 46  | WO 98/43177   | 10/1/1998        | Intel Corp                              |       |           |             |    |
| /C.M./           | 47  | WO 97/49252   | 12/24/1997       | Senthikumar, et al.                     |       |           |             |    |
| /C.M./           | 48  | AU-A-53031/98 | 8/27/1996        | Dudley, John Mills                      |       |           |             |    |

## Other Documents

| Examiner Initial | No. | Author, Title, Date, Place (e.g. Journal) of Publication  |
|------------------|-----|---|
| /C.M./           | A   | Sakaguchi, et al.; " A browsing tool for multi-lingual documents for users without multi-lingual fonts"; 1996; ACM International Conference On Digital Libraries, pp. 63-71   |
| /C.M./           | B   | Zaiane, et al.; "Mining multimedia data"; Nov. 1998; ACM Conference of the Center for Advanced Studies on Collaborative research, pp. 1-18  |
| /C.M./           | C   | BULTERMAN, DICK.C.A.; <u>Models, Media and Motion: Using the Web to Support Multimedia Documents</u> ; Proceedings of 1997 Intl Conf on Multimedia Modeling; p. 17-20; November 1997; SINGAPORE   |
| /C.M./           | D   | MOHLER, J.L.; <u>Migrating Course Materials to the World Wide Web: A Case Study of the Department of Technial Graphics at Purdue University</u> ; Computer Networks and ISDN Systems; Vol. 30, Issues 20-21, p,1981-1990; November 12, 1988 |



|        |   |   |
|--------|---|---|
| /C.M./ | E | DOBSON, R.; <u>Animating Your Web Pages with Direct Animation</u> ; Web Techniques; vol.3, no. 6, p. 49-52; June 1998   |
| /C.M./ | F | BERINSTEIN, Paula; "The Big Picture; Text and Graphics on UMI's ProQuest Direct: The Best (Yet) of Both Words"; March 1997; retrieved on 3/23/04 from website: <a href="http://www.infoday.com/online/MarOL97/picture3.html">http://www.infoday.com/online/MarOL97/picture3.html</a>              |
| /C.M./ | G | McNeil, Sara; Research Interests; retrieved on March 18, 2004 from website: <a href="http://www.coe.uh.edu/~smcneil/research.htm">http://www.coe.uh.edu/~smcneil/research.htm</a>   |
| /C.M./ | H | Tables of Contents service for Computers & Geosciences; Copyright 1997; Computers and GeoSciences, Volume 23, Issue 5, retrieved on 3/18/04 from website: <a href="http://library.iem.ac.ru/comp&amp;geo/00983004/sz977014.html">http://library.iem.ac.ru/comp&amp;geo/00983004/sz977014.html</a> |

Examiner's Signature           /Charles Murphy/           Date           04/06/2010          

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query              | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|---------------------------|---|------------------|---------|---------------------|
| L1    | 1    | ("6909708").PN.           | US-PGPUB;<br>USPAT; USOCR   | OR               | OFF     | 2010/04/06<br>14:25 |
| L3    | 1    | 1 client                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/04/06<br>15:44 |
| L4    | 1    | 1 computer                | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/04/06<br>15:48 |
| L5    | 0    | 1 computer same preferred | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/04/06<br>15:51 |
| L6    | 0    | 1 computer same preferred | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/04/06<br>15:51 |
| L7    | 0    | 1 computer same preferred | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/04/06<br>15:51 |
| L8    | 0    | 1 computer same preferred | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/04/06<br>15:52 |

|     |    |  |   |     |    |                     |
|-----|----|--|---|-----|----|---------------------|
| L9  | 0  | 1 computer same embodiment   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:52 |
| L10 | 0  | 1 computer with preferred  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:52 |
| L11 | 0  | 1 computer and preferred   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:52 |
| S1  | 66 | US-5088052-\$.DID.<br>OR US-5355472-\$.<br>DID. OR US-<br>5530852-\$.DID. OR<br>US-5701451-\$.DID.<br>OR US-5708845-\$.<br>DID. OR US-<br>5710918-\$.DID. OR<br>US-5737619-\$.DID.<br>OR US-5745908-\$.<br>DID. OR US-<br>5758110-\$.DID. OR<br>US-5761655-\$.DID.<br>OR US-5793964-\$.<br>DID. OR US-<br>5819261-\$.DID. OR<br>US-5822436-\$.DID.<br>OR US-5845084-\$.<br>DID. OR US-<br>5845299-\$.DID. OR<br>US-5860068-\$.DID.<br>OR US-5860073-\$.<br>DID. OR US-<br>5861881-\$.DID. OR<br>US-5862325-\$.DID.<br>OR US-5864337-\$.<br>DID. OR US-<br>5870552-\$.DID. OR<br>US-5880740-\$.DID.<br>OR US-5890170-\$.<br>DID. OR US-<br>5895476-\$.DID. OR<br>US-5895477-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/02/02<br>14:10 |

|    |     |  |   |     |    |                     |
|----|-----|--|---|-----|----|---------------------|
|    |     | OR US-5903892-\$.<br>DID. OR US-<br>5937160-\$.DID. OR<br>US-5943680-\$.DID.<br>OR US-5956737-\$.<br>DID. OR US-<br>6009436-\$.DID. OR<br>US-6456305-\$.DID.<br>OR US-6563517-\$.<br>DID. OR US-<br>6591280-\$.DID. OR<br>US-6623529-\$.DID. |   |     |    |                     |
| S2 | 4   | US-5442771-\$.DID.<br>OR US-6484149-\$.<br>DID.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/02/02<br>14:11 |
| S3 | 70  | S1 or S2   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/02/02<br>14:42 |
| S4 | 0   | S3 (transcod\$3<br>same concurrent or<br>simultaneous\$3<br>same (alternate or<br>different) near5<br>format)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/02/02<br>14:43 |
| S5 | 0   | S3 (transcod\$3<br>same (alternate or<br>different) near5<br>format)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/02/02<br>14:43 |
| S6 | 2   | S3 (transcod\$3)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/02/02<br>14:44 |
| S7 | 155 | ((transcod\$3) same<br>(format) same<br>(analog or wav))<br>@ay<"2002"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/01<br>15:27 |

|    |    |  |   |     |    |                     |
|----|----|--|---|-----|----|---------------------|
| S8 | 53 | ((transcod\$3) same<br>(format) same<br>(analog or wav))<br>@ay<"1999" | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/01<br>15:27 |
|----|----|--|---|-----|----|---------------------|

**4/ 6/ 2010 4:42:35 PM**

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wsp**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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First Named Inventor: Sean Barger  
Serial No.: 12/173,747  
Filed: July 15, 2008  
Art Unit: 2441  
Confirmation Number: 7377  
Examiner: Charles C. Murphy  
Title: Automated Media Delivery System  
Attorney Docket No.: EQUI00016

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July 15, 2010

**Mail Stop: Amendments**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO OFFICE ACTION**

Applicant submits this Response to the Office Action dated April 16, 2010 in connection with the above-identified patent application.

A **Listing of Claims** begins on Page 2 of this paper, and  
**Remarks** begin on Page 7 of this paper.

Applicant does not believe that the filing of this amendment will incur additional fees. However, the Commissioner is authorized to charge any fees that may be due and to credit any overpayments to Deposit Account 07-1445 (Order No. EQUI0016). Applicant considers this document to be filed in a timely manner.

### LISTING OF CLAIMS

1. (Currently Amended) A method for providing simultaneous transcoding of multi-media data, comprising:

receiving multi-media data in a first format;

transmitting said multi-media data to an output device; and

transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format wherein said transcoding comprises each of: changing a resolution of said multi-media data, changing a frame rate of said multi-media data, and changing a compression format of said multi-media data, while said multi-media data is transmitted to said output device.

2. (Original) The method of claim 1, wherein said multi-media data comprises at least one of: video data, audio data or digital pictures.

3. (Original) The method of claim 1, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

4. (Cancelled).

5. (Original) The method of claim 1, wherein said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a display device.

6. (Original) The method of claim 1, wherein said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a storage device.

7. (Original) The method of claim 1, further comprising:

transmitting said transcoded multi-media data in said alternate format to an external device.

8. (Original) The method of claim 7, wherein said external device comprises a portable media player.

9. (Original) The method of claim 1, wherein said multi-media data in said first format is received from a service provider.

10. (Original) The method of claim 1, wherein said multi-media data in said first format is received from a local content source.



11. (Currently Amended) A system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving multi-media data in a first format and for transmitting said multi-media data to an output device; and

a transcoder, coupled to said controller, for transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device, wherein said transcoder is configured for changing each of: a resolution of said multi-media data, a frame rate of said multi-media data, and a compression format of said multi-media data.

12. (Original) The system of claim 11, wherein said multi-media data comprises at least one of: video data, audio data or digital pictures.

13. (Original) The system of claim 11, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

14. (Cancelled).

15. (Original) The system of claim 11, wherein said output device comprises a display device.

16. (Original) The system of claim 11, wherein said output device comprises a storage device.

17. (Original) The system of claim 11, further comprising:

one or more interfaces for transmitting said transcoded multi-media data in said alternate format to an external device.

18. (Original) The system of claim 17, wherein said external device comprises a portable media player.

19. (Currently Amended) A computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the steps of a method for providing simultaneous transcoding of multi-media data, comprising:

receiving multi-media data in a first format;

transmitting said multi-media data to an output device; and

transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device, wherein said transcoder is configured for changing each of: a resolution of said multi-media data, a frame rate of said multi-media data, and a compression format of said multi-media data.

20. (Original) The computer readable medium of claim 19, wherein said transmitting said multi-media data to an output device comprises transmitting said multi-media data to at least one of: a display device or a storage device.

21. (Cancelled).

22. (Original) The computer readable medium of claim 19, further comprising:  
transmitting said transcoded multi-media data in said alternate format to an external device.

23. (Original) The computer readable medium of claim 19, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

**REMARKS**

Applicants respectfully request further examination and reconsideration in view of the above amendments and arguments set forth fully below. Claims 1-23 were previously pending in the present application. Within the Office Action, Claims 1-23 have been rejected.

**Claim Rejections under 35 U.S.C. § 102(e)**

Within the Office Action, Claims 1-3, 5-7, 9-13, 15-18, 19-20, and 22-23 were rejected under 35 U.S.C. § 102(e) as being anticipated by United States Patent No. 6,909,708 to Krishnaswamy et al. (hereinafter referred to as "Krishnaswamy").

"A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference." *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631 (Fed. Cir. 1987).

The Applicants respectfully traverse this rejection because each and every element set forth in Claims 1-3, 5-7, 9-13, 15-18, 19-20, and 22-23 are not found in Krishnaswamy, either expressly nor inherently described. Specifically, Krishnaswamy does not describe "[a] system for providing simultaneous transcoding of multi-media data, comprising ... a transcoder... configured for changing each of: a resolution of said multi-media data, a frame rate of said multi-media data, and a compression format of said multi-media data."

Krishnaswamy involves a system communicating in a video conference. In one narrowly-tailored embodiment of Krishnaswamy, a system of content transcoding is disclosed. However, this embodiment teaches converting input content "into the various other formats and stored ...on different servers, one for each content type to serve the various clients each supporting a different format."

On the other hand, the Applicants claim a system for converting input content on-the-fly (i.e. transcoding simultaneously said multi-media data into at least one alternate format) and delivering it. Furthermore, the only transcode disclosed in Krishnaswamy is a transcode between file formats. Indeed, Krishnaswamy does not involve on-the-fly transcoding between resolution values and frame rates, nor does the Examiner suggest that he does.

On the contrary, Claims 1-3, 5-13, 15-20, and 22-23 include the above-mentioned limitation. For at least this reason, Claims 1-3, 5-13, 15-20, and 22-23 are not anticipated by Krishnaswamy.

**Claim Rejections under 35 U.S.C. § 103**

Also within the Office Action, Claims 4, 8, 14, 18, and 21 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Krishnaswamy.

To establish a *prima facie* case of obviousness of a claimed invention, all the claimed features must be taught or suggested by the prior art. *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974). The Applicants respectfully traverse this rejection, because Krishnaswamy does not disclose all of the limitations of Claims 4, 8, 14, 18, and 21.

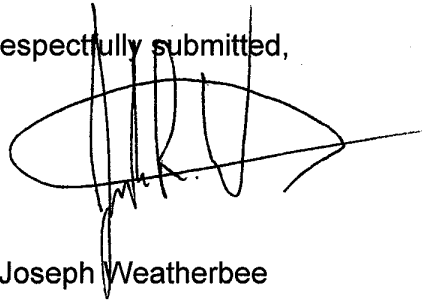
Specifically Krishnaswamy does not teach or suggest “[a] system for providing simultaneous transcoding of multi-media data, comprising ... a transcoder... configured for changing each of: a resolution of said multi-media data, a frame rate of said multi-media data, and a compression format of said multi-media data,” as explained above.

On the contrary, Claims 8 and 18 recite this limitation by reference to Claims 1 and 11. For at least this reason, Claims 8 and 18 are not rendered obvious in light of Krishnaswamy.

**CONCLUSION**

Applicant respectfully posits that the pending claims have been distinguished from the art of record, and that all objections to and rejections of the claims have been overcome. Accordingly, Applicant respectfully requests allowance. Should the Examiner deem it helpful he is encouraged to contact Applicant's attorney at (650) 474-8400.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'J. Weatherbee', written over the text 'Respectfully submitted,'.

Joseph Weatherbee

Reg. No. 64,810

Customer No. 22862

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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First Named Inventor: Sean Barger  
Serial No.: 12/173,747  
Filed: July 15, 2008  
Art Unit: 2441  
Confirmation Number: 7377  
Examiner: Charles C. Murphy  
Title: Automated Media Delivery System  
Attorney Docket No.: EQUI00016

---

July 15, 2010

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Examiner:

This Information Disclosure Statement is submitted under 37 CFR 1.97(b).

The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 07-1445 (Order No. EQUI0016).

Applicant(s) submit herewith PTO Form 1449 (Modified) -- Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.



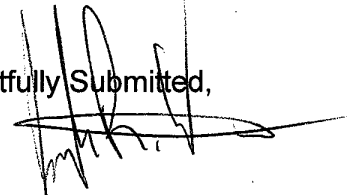
Each of the Claims in the originally-filed Application is copied from United States patent publication no. 2008/0155230 to Robbins et al. (hereinafter referred to as "Robbins").

37 C.F.R. § 1.607 and MPEP § 2001.06(d) require an Applicant to identify the patent and the numbers of the patent claims of the copied patent application. The Applicants identify how the Claims are mapped to Robbins as follows:

- Claim 1 corresponds to Claim 1 of Robbins;
- Claim 2 corresponds to Claim 2 of Robbins;
- Claim 3 corresponds to Claim 3 of Robbins;
- Claim 4 corresponds to Claim 4 of Robbins;
- Claim 5 corresponds to Claim 5 of Robbins;
- Claim 6 corresponds to Claim 6 of Robbins;
- Claim 7 corresponds to Claim 7 of Robbins;
- Claim 8 corresponds to Claim 8 of Robbins;
- Claim 9 corresponds to Claim 9 of Robbins;
- Claim 10 corresponds to Claim 10 of Robbins;
- Claim 11 corresponds to Claim 11 of Robbins;
- Claim 12 corresponds to Claim 12 of Robbins;
- Claim 13 corresponds to Claim 13 of Robbins;
- Claim 14 corresponds to Claim 14 of Robbins;
- Claim 15 corresponds to Claim 15 of Robbins;
- Claim 16 corresponds to Claim 16 of Robbins;
- Claim 17 corresponds to Claim 17 of Robbins;
- Claim 18 corresponds to Claim 18 of Robbins;
- Claim 19 corresponds to Claim 19 of Robbins;
- Claim 20 corresponds to Claim 20 of Robbins;
- Claim 21 corresponds to Claim 21 of Robbins;
- Claim 22 corresponds to Claim 22 of Robbins; and
- Claim 23 corresponds to Claim 23 of Robbins.

It is requested that the information disclosed herein be made of record in this application.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'Joseph Weatherbee', written over a horizontal line.

Joseph Weatherbee  
Reg. No. 64,810

Customer No. 22862

|  |                                   |
|--|-----------------------------------|
| <b>Form 1449 (Modified)</b>                          | <b>Serial No.: 12/173,747</b>     |
|  | <b>Atty. Docket No.: EQUI0016</b> |
| <b>Information Disclosure Statement By Applicant</b> | <b>Applicant: Sean Barger</b>     |
|  | <b>Art Unit: 2443</b>             |
|  | <b>Confirmation No.: 7377</b>     |
| <b>(Use Several Sheets if Necessary)</b>             | <b>Filing Date: July 15, 2008</b> |

**U.S. Patent Documents**

| Examiner Initials | No. | Patent No. | Issue Date | Patentee | Filing Date |
|-------------------|-----|------------|------------|----------|-------------|
|                   |     |            |            |          |             |
|                   |     |            |            |          |             |
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|                   |     |            |            |          |             |
|                   |     |            |            |          |             |

**Published U.S. Patent Application**

| Examiner Initials | No. | Publication No. | Publication Date | Applicant      |
|-------------------|-----|-----------------|------------------|----------------|
|                   | 1   | 2008/0155230    | 6/26/2008        | Robbins et al. |
|                   |     |                 |                  |                |
|                   |     |                 |                  |                |

**Foreign Patent or Published Foreign Patent Application**

| Examiner Initials | No. | Document No. | Publication Date | Applicant |
|-------------------|-----|--------------|------------------|-----------|
|                   |     |              |                  |           |
|                   |     |              |                  |           |
|                   |     |              |                  |           |
|                   |     |              |                  |           |

**Non-Patent Literature Documents**

| Examiner Initials | No. | Author, Title, Date, Place (e.g. Journal) of Publication |
|-------------------|-----|--|
|                   |     |  |
|                   |     |  |
|                   |     |  |
|                   |     |  |

Examiner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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First Named Inventor : Sean BARGER  
Serial No. : 12/173,747  
Filed : July 15, 2008  
Art Unit : 2443  
Confirmation Number : 7377  
Examiner : Charles C. Murphy  
Title : Automated Media Delivery System  
Attorney Docket No. : EQUI0016

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July 15, 2010

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT

Examiner:

This Information Disclosure Statement is submitted:

- under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
- under 37 CFR 1.97(c) together with either a:
  - Certification under 37 CFR 1.97(e), or
  - a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- under 37 CFR 1.97(d) together with a:
  - Certification under 37 CFR 1.97(e), and
  - a \$180.00 fee under 37 CFR 1.17(p).  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

(X) The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 07-1445 (Order No. EQUI0016).

(X) Applicant(s) submit herewith PTO Form 1449 (Modified) -- Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.25.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449 (Modified), as presently understood by the individual(s) designated in 37 CFR 156(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO Form 1449 (Modified) and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

Respectfully Submitted,

Joseph Weatherbee  
Reg. No. 64,810

Customer No. 22862

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

---

First Named Inventor : Sean BARGER  
Serial No. : 12/173,747  
Filed : July 15, 2008  
Art Unit : 2443  
Confirmation Number : 7377  
Examiner : Charles C. Murphy  
Title : Automated Media Delivery System  
Attorney Docket No. : EQUI0016

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July 15, 2010

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CERTIFICATION FOR  
INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.97(e)**

Dear Examiner:

A certification is being made for the Information Disclosure Statement accompanying this certification.

**CERTIFICATION**

I, the person signing below, certify

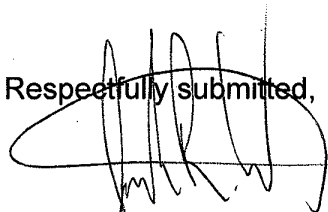
( ) that each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement. (37 CFR 1.97(e)(1))

(X) that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the statement. 37 CFR 1.97(e)(2).

The person making this certification is the attorney who signs below on the basis of the information:

- (X) supplied by the inventor(s)
- ( ) supplied by an individual designated in §1.56(c)
- ( ) in the attorney's file

Respectfully submitted,



Joseph Weatherbee  
Reg. No. 64,810

Customer Number 22862

|  |                                   |
|--|-----------------------------------|
| <b>Form 1449 (Modified)</b>                          | <b>Serial No.: 12/173,747</b>     |
|  | <b>Atty. Docket No.: EQUI0016</b> |
| <b>Information Disclosure Statement By Applicant</b> | <b>Applicant: Sean Barger</b>     |
|  | <b>Art Unit: 2443</b>             |
|  | <b>Confirmation No.: 7377</b>     |
| (Use Several Sheets if Necessary)                    | <b>Filing Date: July 15, 2008</b> |

**U.S. Patent Documents**

| Examiner Initials | No. | Patent No. | Issue Date | Patentee          | Filing Date |
|-------------------|-----|------------|------------|-------------------|-------------|
|                   | 1   | 6,938,073  | 08/2005    | Mendhekar et al.  |             |
|                   | 2   | 7,284,201  | 10/2007    | Cohen-Solal, Eric |             |
|                   | 3   | 7,477,688  | 01/2009    | Zhang et al.      |             |
|                   | 4   | 7,673,063  | 03/2010    | Xie et al.        |             |
|                   |     |            |            |                   |             |
|                   |     |            |            |                   |             |

**Published U.S. Patent Application**

| Examiner Initials | No. | Publication No. | Publication Date | Applicant      |
|-------------------|-----|-----------------|------------------|----------------|
|                   | 5   | 2006-0015580    | 01/2006          | Gabriel et al. |
|                   |     |                 |                  |                |
|                   |     |                 |                  |                |

**Foreign Patent or Published Foreign Patent Application**

| Examiner Initials | No. | Document No. | Publication Date | Applicant |
|-------------------|-----|--------------|------------------|-----------|
|                   |     |              |                  |           |
|                   |     |              |                  |           |
|                   |     |              |                  |           |

**Non-Patent Literature Documents**

| Examiner Initials | No. | Author, Title, Date, Place (e.g. Journal) of Publication |
|-------------------|-----|--|
|                   |     |  |
|                   |     |  |
|                   |     |  |

Examiner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



## Electronic Acknowledgement Receipt

|   |                                 |
|---|---------------------------------|
| <b>EFS ID:</b>                              | 8027180                         |
| <b>Application Number:</b>                  | 12173747                        |
| <b>International Application Number:</b>    |                                 |
| <b>Confirmation Number:</b>                 | 7377                            |
| <b>Title of Invention:</b>                  | Automated Media Delivery System |
| <b>First Named Inventor/Applicant Name:</b> | Sean Barger                     |
| <b>Customer Number:</b>                     | 22862                           |
| <b>Filer:</b>                               | Michael Glenn/Jessica Pallach   |
| <b>Filer Authorized By:</b>                 | Michael Glenn                   |
| <b>Attorney Docket Number:</b>              | EQUI0016                        |
| <b>Receipt Date:</b>                        | 15-JUL-2010                     |
| <b>Filing Date:</b>                         | 15-JUL-2008                     |
| <b>Time Stamp:</b>                          | 17:59:43                        |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)     |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

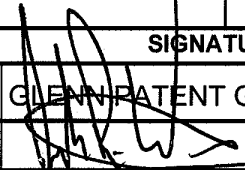
### File Listing:

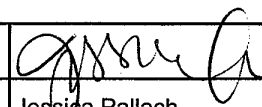
| Document Number | Document Description | File Name                                  | File Size(Bytes)/<br>Message Digest                              | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|--|--|------------------|------------------|
| 1               |                      | ResponseIDS-EQUI0016--<br>efiled071510.pdf | 612102<br><small>c73fbb55890945014bd8c6f14456beaa0d69155</small> | yes              | 20               |

| <b>Multipart Description/PDF files in .zip description</b>  |              |            |
|---|--------------|------------|
| <b>Document Description</b>   | <b>Start</b> | <b>End</b> |
| Miscellaneous Incoming Letter   | 1            | 1          |
| Amendment/Req. Reconsideration-After Non-Final Reject   | 2            | 2          |
| Claims  | 3            | 7          |
| Applicant Arguments/Remarks Made in an Amendment  | 8            | 11         |
| Information Disclosure Statement (IDS) Filed (SB/08)  | 12           | 15         |
| Information Disclosure Statement (IDS) Filed (SB/08)  | 16           | 20         |
| <b>Warnings:</b>  |              |            |
| <b>Information:</b>   |              |            |
| <b>Total Files Size (in bytes):</b>   | 612102       |            |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</b></p> |              |            |

|   |                        |                |
|---|------------------------|----------------|
| <b>TRANSMITTAL<br/>FORM</b>                                     | Application Number     | 12/173,747     |
|   | Filing Date            | July 15, 2008  |
|   | First Named Inventor   | Sean Barger    |
|   | Art Unit               | 2441           |
|   | Examiner Name          | Charles Murphy |
|   | Attorney Docket Number | EQUI0016       |
| <i>(to be used for all correspondence after initial filing)</i> |                        |                |
| Total number of pages including cover sheet.                    |                        |                |

| <b>ENCLOSURES</b> (Check all that apply)                                  |   |   |
|---|---|---|
| <input type="checkbox"/> Fee Transmittal Form                             | <input type="checkbox"/> Drawing(s)                                       | <input type="checkbox"/> After Allowance Communication to TC                            |
| <input type="checkbox"/> Fee Attached                                     | <input type="checkbox"/> Licensing-related Papers                         | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input checked="" type="checkbox"/> Amendment/Reply                       | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final                                      | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)                        | <input type="checkbox"/> Power of Attorney, Revocation                    | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request                        | <input type="checkbox"/> Change of Correspondence Address                 | <input type="checkbox"/> Other Enclosure(s) (please identify below):                    |
| <input type="checkbox"/> Express Abandonment Request                      | <input type="checkbox"/> Terminal Disclaimer                              |   |
| <input checked="" type="checkbox"/> Information Disclosure Statement      | <input type="checkbox"/> Request for Refund                               |   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)           | <input type="checkbox"/> CD, Number of CD(s) _____                        |   |
| <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application   | <input type="checkbox"/> Landscape Table on CD                            |   |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="text" value="Remarks"/>                                      |   |

|   |   |                 |
|---|---|-----------------|
| <b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b> |   |                 |
| Firm Name   | GLENN PATENT GROUP, Customer No. 22862  |                 |
| Signature   |  |                 |
| Printed name                                      | Joseph Weatherbee   |                 |
| Date  | July 15, 2010   | Reg. No. 64,810 |

|   |   |                    |
|---|---|--------------------|
| <b>CERTIFICATE OF ELECTRONIC FILING</b>   |   |                    |
| I hereby certify that this correspondence is being electronically transmitted to the USPTO via EFS-Web on the date shown below. |   |                    |
| Signature   |  |                    |
| Typed or printed name   | Jessica Pallach   | Date July 15, 2010 |

This collection of information is required by 37 CFR 1.5. 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 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: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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|   |   |                                  |                                       |
|---|---|----------------------------------|---------------------------------------|
| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875 | Application or Docket Number<br><b>12/173,747</b> | Filing Date<br><b>07/15/2008</b> | <input type="checkbox"/> To be Mailed |
|---|---|----------------------------------|---------------------------------------|

| APPLICATION AS FILED – PART I   |   |                            | OTHER THAN SMALL ENTITY                          |          |              |                         |          |
|---|---|----------------------------|--|----------|--------------|-------------------------|----------|
| FOR   | NUMBER FILED<br>(Column 1)  | NUMBER EXTRA<br>(Column 2) | SMALL ENTITY <input checked="" type="checkbox"/> | OR       | SMALL ENTITY | OTHER THAN SMALL ENTITY |          |
|   |   |                            | RATE (\$)  | FEE (\$) |              | RATE (\$)               | FEE (\$) |
| <input type="checkbox"/> BASIC FEE<br><small>(37 CFR 1.16(a), (b), or (c))</small>        | N/A   | N/A                        | N/A  |          | OR           | N/A                     |          |
| <input type="checkbox"/> SEARCH FEE<br><small>(37 CFR 1.16(k), (l), or (m))</small>       | N/A   | N/A                        | N/A  |          |              | N/A                     |          |
| <input type="checkbox"/> EXAMINATION FEE<br><small>(37 CFR 1.16(o), (p), or (q))</small>  | N/A   | N/A                        | N/A  |          |              | N/A                     |          |
| TOTAL CLAIMS<br><small>(37 CFR 1.16(j))</small>   | minus 20 =  | *                          | X \$ =   |          |              | X \$ =                  |          |
| INDEPENDENT CLAIMS<br><small>(37 CFR 1.16(h))</small>                                     | minus 3 =   | *                          | X \$ =   |          |              | X \$ =                  |          |
| <input type="checkbox"/> APPLICATION SIZE FEE<br><small>(37 CFR 1.16(s))</small>          | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |                            |  |          |              |                         |          |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small> |   |                            |  |          |              |                         |          |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                 |   |                            | TOTAL  |          |              | TOTAL                   |          |

| APPLICATION AS AMENDED – PART II |   |                                  |                                    |               | OTHER THAN SMALL ENTITY |                     |                         |                     |
|----------------------------------|---|----------------------------------|------------------------------------|---------------|-------------------------|---------------------|-------------------------|---------------------|
|                                  | (Column 1)  | (Column 2)                       | (Column 3)                         | SMALL ENTITY  | OR                      | SMALL ENTITY        | OTHER THAN SMALL ENTITY |                     |
| AMENDMENT                        | 07/15/2010  | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$)               | ADDITIONAL FEE (\$) | RATE (\$)               | ADDITIONAL FEE (\$) |
|                                  | Total <small>(37 CFR 1.16(i))</small>   | * 20                             | Minus                              | ** 23         | =                       | 0                   | X \$ =                  |                     |
|                                  | Independent <small>(37 CFR 1.16(h))</small>   | * 3                              | Minus                              | ***3          | =                       | 0                   | X \$ =                  |                     |
|                                  | <input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>                           |                                  |                                    |               |                         |                     |                         |                     |
|                                  | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small> |                                  |                                    |               |                         |                     |                         |                     |
|                                  |   |                                  |                                    |               | TOTAL ADD'L FEE         | 0                   | OR                      | TOTAL ADD'L FEE     |

|           | (Column 1)  | (Column 2)                       | (Column 3)                         | SMALL ENTITY  | OR              | SMALL ENTITY        | OTHER THAN SMALL ENTITY |                     |
|-----------|---|----------------------------------|------------------------------------|---------------|-----------------|---------------------|-------------------------|---------------------|
| AMENDMENT |   | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$)       | ADDITIONAL FEE (\$) | RATE (\$)               | ADDITIONAL FEE (\$) |
|           | Total <small>(37 CFR 1.16(i))</small>   | *                                | Minus                              | **            | =               |                     | X \$ =                  |                     |
|           | Independent <small>(37 CFR 1.16(h))</small>   | *                                | Minus                              | ***           | =               |                     | X \$ =                  |                     |
|           | <input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>                           |                                  |                                    |               |                 |                     |                         |                     |
|           | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small> |                                  |                                    |               |                 |                     |                         |                     |
|           |   |                                  |                                    |               | TOTAL ADD'L FEE |                     | OR                      | TOTAL ADD'L FEE     |

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".  
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:  
/JOSEPHINE DOUGLAS/

This collection of information is required by 37 CFR 1.16. 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 1.14. This collection is estimated to take 12 minutes 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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**  
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Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO., EXAMINER, ART UNIT, PAPER NUMBER, NOTIFICATION DATE, DELIVERY MODE. Includes application details for Sean Barger and examiner Charles C. Murphy.

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

eptomatters@glenn-law.com



***Detailed Action***

1. This Office Action is responsive to the Amendment filed on 7/15/2010. Claims 1-3, 5-13, 15-20, and 22-23 remain pending. Claims 1, 11, and 19 have been amended. Claims 4, 14, and 21 have been canceled.

**Information Disclosure Statement**

The information disclosure statements (IDS) submitted were filed on 07/15/2010. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

**Claim Rejections - 35 USC § 101**

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 18-20 and 22-23 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As per claim 18, the claim limitation recites "computer readable medium". However, the usage of the phrase "computer readable medium" is broad enough to include both "non-transitory" and "transitory" (moving electrons, etc) media. The specification does not clearly limit the utilization of a non-transitory computer readable medium and, thus does not constitute functional descriptive material. Therefore, when the broadest reasonable

interpretation of a claim covers a signal *per se*, the claim must be rejected under 35 U.S.C. § 101 as covering non-statutory subject matter. See *In re Nuijten*, 500 F.3d 1346, 1356-57 (Fed. Cir. 2007) (transitory embodiments are not directed to statutory subject matter).

The USPTO recognizes that applicants may have claims directed to computer readable media that cover signals *per se*, which the USPTO must reject under 35 U.S.C. § 101 as covering both non-statutory subject matter and statutory subject matter. In an effort to assist the patent community in overcoming a rejection or potential rejection under 35 U.S.C. § 101 in this situation, the USPTO suggests the following approach. A claim drawn to such a computer readable medium that covers both ***transitory*** and ***non-transitory*** embodiments may be amended to narrow the claim to cover only statutory embodiments to avoid a rejection under 35 U.S.C. § 101 by adding the limitation "***non-transitory***" to the claim. *Cf. Animals - Patentability*, 1077 *Off. Gaz. Pat. Office* 24 (April 21, 1987) (suggesting that applicants add the limitation "non-human" to a claim covering a multi-cellular organism to avoid a rejection under 35 U.S.C. § 101). Such an amendment would typically not raise the issue of new matter, even when the specification is silent because the broadest reasonable interpretation relies on the ordinary and customary meaning that includes signals *per se*. The limited situations in which such an amendment could raise issues of new matter occur, for example, when the specification does not support a non-transitory embodiment because a signal *per se* is the only viable embodiment such that the amended claim is impermissibly broadened beyond the supporting disclosure. See, e.g., *Gentry Gallery*,



*Inc. v. Berkline Corp.*, 134 F.3d 1473 (Fed. Cir. 1998).

The dependent claims included in the statement of rejection but not specifically addressed in the body of the rejection have inherited the deficiencies of their parent claim and have not resolved the deficiencies. Therefore, they are rejected based on the same rationale as applied to their parent claims above.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. **Claims 1-3, 5-13, 15-20, and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnaswamy et al. US Patent 6,909,708 (hereinafter referred to as Krishnaswamy) in view of Bhagwat et al. US Patent 6,563,517 (hereinafter referred to as Bhagwat)**
  
2. Regarding claim 1, **Krishnaswamy** teaches a method for simultaneous transcoding of multi-media data, comprising:
  - receiving multi-media data in a first format; (**Krishnaswamy** teaches receiving video to be converted) (**Krishnaswamy, col. 135, lines 22-35**)

transmitting said multi-media data to an output device; and  
(**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

wherein said transcoding comprises each of: changing a resolution of said multi-media data, changing a frame rate of said multimedia data, and changing a compression format of said multi-media data. (**Krishnaswamy** teaches converting analog video formats into other compression formats such as MPEG or H.264. Transcoding analog video into these formats encompasses changing the resolution, and frame rate to further compress the multimedia file) (**Krishnaswamy, col. 135, lines 22-35**)

**Krishnaswamy** does not teach:

transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device

In an analogous art, **Bhagwat** does teach:

transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device (**Bhagwat** teaches

converting multi-media into a different format on the fly)(**Bhagwat, col. 6, lines 19-24; col. 7, lines 16-24**)

It would be obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of **Krishnaswamy** and **Bhagwat** to create a system capable of transcoding multimedia files on the fly to different formats.

One would be motivated to do so in order to create a dynamic transcoding system that would in create the benefits of transcoding various multimedia formats an improve efficiency within a network. (**Bhagwat, col. 3, lines 15-30**)

3. Regarding claims 2, **Krishnaswamy-Bhagwat** further teaches the method of claim 1, wherein:

said multi-media data comprises at least one of: video data, audio data or digital pictures. (**Krishnaswamy** teaches receiving video to be converted) (**Krishnaswamy, col. 135, lines 22-35**)

4. Regarding claims 3, **Krishnaswamy-Bhagwat** further teaches the method of claim 1, wherein:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format. (**Krishnaswamy** teaches receiving analog video to be converted.

The video can be transcoded into various digital formats including MPEG or H.263) (**Krishnaswamy, col. 135, lines 22-35**)

5. Regarding claims 5, **Krishnaswamy-Bhagwat** further teaches the method of claim 1, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a display device. (**Krishnaswamy** transmitting video to clients which display the video on a local display device) (**Krishnaswamy, col. 135, lines 55-65**)

6. Regarding claims 6, **Krishnaswamy-Bhagwat** further teaches the method of claim 1, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

7. Regarding claims 7, **Krishnaswamy-Bhagwat** further teaches the method of claim 1, comprising:

transmitting said transcoded multi-media data in said alternate format to an external device. (**Krishnaswamy** teaches receiving analog video to be converted. The video can be converted into various digital formats

including MPEG or H.263 which is then transmitted to servers for distribution or storage) (**Krishnaswamy, col. 135, lines 22-35**)

8. Regarding claim 8, **Krishnaswamy-Bhagwat** does not explicitly teach:  
wherein said external device comprises a portable media player.

However, **Krishnaswamy-Bhagwat** does teach

sending converted video data to client computers (**Krishnaswamy, col. 135, lines 22-35; col. 73, lines 55-67**)

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

9. Regarding claims 9 **Krishnaswamy-Bhagwat** further teaches the method of claim 1, wherein:

said multi-media data in said first format is received from a service provider. (**Krishnaswamy** teaches receiving the video content from any content source or from MCI (the provider).)(**Krishnaswamy, col. 134, lines 55-67**)

10. Regarding claims 10 **Krishnaswamy-Bhagwat** further teaches the method of claim 1, wherein:

said multi-media data in said first format is received from a local content source. (**Krishnaswamy** teaches receiving the video content from any content source or from MCI (the provider).)(**Krishnaswamy, col. 134, lines 55-67**)

11. Regarding claim 11, **Krishnaswamy-Bhagwat** teaches a system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving multi-media data in a first format and for transmitting said multi-media data to an output device; and (**Krishnaswamy** teaches receiving video to be converted into a second format. This video data is received and converted by a server) (**See Fig. 19D**) (**Krishnaswamy, col. 135, lines 5-15, and lines 22-35**)

a transcoder, coupled to said controller, for transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device, wherein said transcoder is configured for changing each of: a resolution of said multi-media data, a frame rate of said multimedia data, and a compression format of said multi-media data. (**Bhagwat** teaches

converting multi-media into a different format on the fly. (**Bhagwat, col. 6, lines 19-24; col. 7, lines 16-24**) **Krishnaswamy** teaches converting analog video formats into other compression formats such as MPEG or H.264. Transcoding analog video into these formats encompasses changing the resolution, and frame rate to further compress the multimedia file) (**Krishnaswamy, col. 135, lines 22-35**)

12. Regarding claims 12 **Krishnaswamy-Bhagwat** further teaches the system of claim 11, wherein:

said multi-media data comprises at least one of: video data, audio data or digital pictures. (**Krishnaswamy** teaches receiving video to be converted) (**Krishnaswamy, col. 135, lines 22-35**)

13. Regarding claims 13 **Krishnaswamy-Bhagwat** further teaches the system of claim 11, wherein:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format (**Krishnaswamy** teaches receiving analog video to be converted. The video can be converted into various digital formats including MPEG or H.263) (**Krishnaswamy, col. 135, lines 22-35**)

14. Regarding claims 15 **Krishnaswamy-Bhagwat** further teaches the system of claim 11, wherein:

said output device comprises a display device. (**Krishnaswamy** transmitting video to clients which displays the video on a local display device) (**Krishnaswamy, col. 135, lines 55-65**)
  
15. Regarding claims 16 **Krishnaswamy-Bhagwat** further teaches the system of claim 11, wherein:

said output device comprises a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)
  
16. Regarding claims 17 **Krishnaswamy-Bhagwat** further teaches the system of claim 11, wherein:

one or more interfaces for transmitting said transcoded multi-media data in said alternate format to an external device. (**Krishnaswamy** teaches receiving analog video to be transcoded. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted to servers for distribution or storage) (**Krishnaswamy, col. 135, lines 22-35**)
  
17. Regarding claim 18 **Krishnaswamy-Bhagwat** does not explicitly teach:



said external device comprises a portable media player.

However, **Krishnaswamy-Bhagwat** does teach

sending converted video data to client computers (**Krishnaswamy, col. 135, lines 22-35; col. 73, lines 55-67**)

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

**18.** Regarding claim 19 **Krishnaswamy-Bhagwat** teaches a computer-readable medium comprising:

receiving multi-media data in a first format; (**Krishnaswamy** teaches receiving video to be converted) (**Krishnaswamy, col. 135, lines 22-35**) (**Krishnaswamy** also teaches implementing the invention using software executed on hardware) (**Krishnaswamy, cols. 74 -78**)

transmitting said multi-media data to an output device; and (**Krishnaswamy** teaches sending multi-media data to a server for either

storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device, wherein said transcoder is configured for changing each of: a resolution of said multi-media data, a frame rate of said multi-media data, and a compression format of said multi-media data. (**Bhagwat** teaches converting multi-media into a different format on the fly. (**Bhagwat, col. 6, lines 19-24; col. 7, lines 16-24**) **Krishnaswamy** teaches converting analog video formats into other compression formats such as MPEG or H.264. Transcoding analog video into these formats encompasses changing the resolution, and frame rate to further compress the multimedia file) (**Krishnaswamy, col. 135, lines 22-35**)

- 19.** Regarding claims 20 **Krishnaswamy-Bhagwat** further teaches the computer-readable medium of claim 19, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to at least one of: a display device or a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device)

**(Krishnaswamy, col. 135, lines 22-35)** (Krishnaswamy also teaches transmitting video to clients which displays the video on a local display device) **(Krishnaswamy, col. 135, lines 55-65)**

20. Regarding claims 22 **Krishnaswamy-Bhagwat** further teaches the computer-readable medium of claim 19, further comprising:

transmitting said transcoded multi-media data in said alternate format to an external device. **(Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) **(Krishnaswamy, col. 135, lines 22-35)**

21. Regarding claims 23 **Krishnaswamy-Bhagwat** further teaches the computer-readable medium of claim 19, wherein:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format **(Krishnaswamy** teaches receiving analog video to be converted. The video can be converted into various digital formats including MPEG or H.263) **(Krishnaswamy, col. 135, lines 22-35)**

***Response to Arguments***

Applicant's arguments with respect to claims 1, 11, and 19 have been considered but are moot in view of the new ground(s) of rejection.

### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHARLES MURPHY whose telephone number is (571)270-5444. The examiner can normally be reached on 8AM - 5PM Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHARLES MURPHY/  
Examiner, Art Unit 2441  
9/29/2010

/Wing F. Chan/  
Supervisory Patent Examiner, Art Unit 2441

|                                   |                                       |   |             |
|-----------------------------------|---------------------------------------|---|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>12/173,747 | Applicant(s)/Patent Under<br>Reexamination<br>BARGER ET AL. |             |
|                                   | Examiner<br>CHARLES MURPHY            | Art Unit<br>2441  | Page 1 of 1 |

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| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name                | Classification |
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| * | B US-6,909,708                                   | 06-2005         | Krishnaswamy et al. | 370/352        |
|   | C US-  |                 |                     |                |
|   | D US-  |                 |                     |                |
|   | E US-  |                 |                     |                |
|   | F US-  |                 |                     |                |
|   | G US-  |                 |                     |                |
|   | H US-  |                 |                     |                |
|   | I US-  |                 |                     |                |
|   | J US-  |                 |                     |                |
|   | K US-  |                 |                     |                |
|   | L US-  |                 |                     |                |
|   | M US-  |                 |                     |                |


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| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
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|   | N  |                 |         |      |                |
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|   | Q  |                 |         |      |                |
|   | R  |                 |         |      |                |
|   | S  |                 |         |      |                |
|   | T  |                 |         |      |                |

**NON-PATENT DOCUMENTS**

| * | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
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| V |   |
| W |   |
| X |   |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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|---|--|---|
| <b>Index of Claims</b><br><br> | <b>Application/Control No.</b><br><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>BARGER ET AL. |
|   | <b>Examiner</b><br><br>CHARLES MURPHY          | <b>Art Unit</b><br><br>2441   |

|   |                 |
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| ✓ | <b>Rejected</b> |
| = | <b>Allowed</b>  |


|   |                   |
|---|-------------------|
| - | <b>Cancelled</b>  |
| ÷ | <b>Restricted</b> |

|   |                     |
|---|---------------------|
| N | <b>Non-Elected</b>  |
| I | <b>Interference</b> |

|   |                 |
|---|-----------------|
| A | <b>Appeal</b>   |
| O | <b>Objected</b> |

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

| CLAIM |          | DATE       |            |  |  |  |  |  |  |
|-------|----------|------------|------------|--|--|--|--|--|--|
| Final | Original | 04/06/2010 | 09/23/2010 |  |  |  |  |  |  |
|       | 1        | ✓          | ✓          |  |  |  |  |  |  |
|       | 2        | ✓          | ✓          |  |  |  |  |  |  |
|       | 3        | ✓          | ✓          |  |  |  |  |  |  |
|       | 4        | ✓          | -          |  |  |  |  |  |  |
|       | 5        | ✓          | ✓          |  |  |  |  |  |  |
|       | 6        | ✓          | ✓          |  |  |  |  |  |  |
|       | 7        | ✓          | ✓          |  |  |  |  |  |  |
|       | 8        | ✓          | ✓          |  |  |  |  |  |  |
|       | 9        | ✓          | ✓          |  |  |  |  |  |  |
|       | 10       | ✓          | ✓          |  |  |  |  |  |  |
|       | 11       | ✓          | -          |  |  |  |  |  |  |
|       | 12       | ✓          | ✓          |  |  |  |  |  |  |
|       | 13       | ✓          | ✓          |  |  |  |  |  |  |
|       | 14       | ✓          | ✓          |  |  |  |  |  |  |
|       | 15       | ✓          | ✓          |  |  |  |  |  |  |
|       | 16       | ✓          | ✓          |  |  |  |  |  |  |
|       | 17       | ✓          | ✓          |  |  |  |  |  |  |
|       | 18       | ✓          | ✓          |  |  |  |  |  |  |
|       | 19       | ✓          | -          |  |  |  |  |  |  |
|       | 20       | ✓          | ✓          |  |  |  |  |  |  |
|       | 21       | ✓          | ✓          |  |  |  |  |  |  |
|       | 22       | ✓          | ✓          |  |  |  |  |  |  |
|       | 23       | ✓          | ✓          |  |  |  |  |  |  |

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| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>BARGER ET AL. |
|  | <b>Examiner</b><br><br>CHARLES MURPHY          | <b>Art Unit</b><br><br>2441   |

| SEARCHED |   |           |                |
|----------|---|-----------|----------------|
| Class    | Subclass                                    | Date      | Examiner       |
| 709      | 227 226 223 219 206 204 203                 | 4/6/2010  | Charles Murphy |
| 370      | 480 467 465 389 356 353 352 289 286 260 252 | 4/6/2010  | Charles Murphy |
| 455      | 560 463 426.1 422.1 412.1                   | 4/6/2010  | Charles Murphy |
| 709      | 247 217                                     | 9/23/2010 | Charles Murphy |
| 704      | 503 500 230 204                             | 9/23/2010 | Charles Murphy |

| SEARCH NOTES           |           |                |
|------------------------|-----------|----------------|
| Search Notes           | Date      | Examiner       |
| East                   | 4/6/2010  | Charles Murphy |
| Searched East          | 9/23/2010 | Charles Murphy |
| Consulted Quang Nguyen | 9/23/2010 | Charles Murphy |

| INTERFERENCE SEARCH |          |      |          |
|---------------------|----------|------|----------|
| Class               | Subclass | Date | Examiner |
|                     |          |      |          |

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| /CHARLES MURPHY/<br>Examiner.Art Unit 2441 |  |
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| <b>Form 1449 (Modified)</b>                          | <b>Serial No.: 12/173,747</b>     |
|  | <b>Atty. Docket No.: EQUI0016</b> |
| <b>Information Disclosure Statement By Applicant</b> | <b>Applicant: Sean Barger</b>     |
|  | <b>Art Unit: 2443</b>             |
|  | <b>Confirmation No.: 7377</b>     |
| (Use Several Sheets if Necessary)                    | <b>Filing Date: July 15, 2008</b> |

**U.S. Patent Documents**

| Examiner Initials | No. | Patent No. | Issue Date | Patentee          | Filing Date |
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**Published U.S. Patent Application**

| Examiner Initials | No. | Publication No. | Publication Date | Applicant      |
|-------------------|-----|-----------------|------------------|----------------|
| /C.M./            | 5   | 2006-0015580    | 01/2006          | Gabriel et al. |
|                   |     |                 |                  |                |
|                   |     |                 |                  |                |

**Foreign Patent or Published Foreign Patent Application**

| Examiner Initials | No. | Document No. | Publication Date | Applicant |
|-------------------|-----|--------------|------------------|-----------|
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|                   |     |              |                  |           |

**Non-Patent Literature Documents**

| Examiner Initials | No. | Author, Title, Date, Place (e.g. Journal) of Publication |
|-------------------|-----|--|
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|                   |     |  |
|                   |     |  |

Examiner's Signature: /Charles Murphy/ Date: 09/23/2010

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



|  |                                   |
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| <b>Form 1449 (Modified)</b>                          | <b>Serial No.: 12/173,747</b>     |
|  | <b>Atty. Docket No.: EQUI0016</b> |
| <b>Information Disclosure Statement By Applicant</b> | <b>Applicant: Sean Barger</b>     |
|  | <b>Art Unit: 2443</b>             |
|  | <b>Confirmation No.: 7377</b>     |
| (Use Several Sheets if Necessary)                    | <b>Filing Date: July 15, 2008</b> |

**U.S. Patent Documents**

| Examiner Initials | No. | Patent No. | Issue Date | Patentee | Filing Date |
|-------------------|-----|------------|------------|----------|-------------|
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**Published U.S. Patent Application**

| Examiner Initials | No. | Publication No. | Publication Date | Applicant      |
|-------------------|-----|-----------------|------------------|----------------|
| /C.M./            | 1   | 2008/0155230    | 6/26/2008        | Robbins et al. |
|                   |     |                 |                  |                |
|                   |     |                 |                  |                |

**Foreign Patent or Published Foreign Patent Application**

| Examiner Initials | No. | Document No. | Publication Date | Applicant |
|-------------------|-----|--------------|------------------|-----------|
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**Non-Patent Literature Documents**

| Examiner Initials | No. | Author, Title, Date, Place (e.g. Journal) of Publication |
|-------------------|-----|--|
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Examiner's Signature:           /Charles Murphy/                                Date:           09/23/2010          

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|---|---|------------------|---------|---------------------|
| L1    | 7    | (transcod\$3) same (fly) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/09/23<br>09:46 |
| L2    | 2595 | (transcod\$3 or convert\$3) same (fly) @ay<"1999"                           | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/09/23<br>09:46 |
| L3    | 680  | (transcod\$3 or convert\$3) near5 (fly) @ay<"1999"                          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/09/23<br>09:47 |
| L4    | 680  | (transcod\$3 or convert\$3) near5 (fly) @ay<"1999"                          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/09/23<br>09:47 |
| L5    | 183  | 4 (transcod\$3 or convert\$3).ti.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/09/23<br>09:47 |
| L6    | 2    | 5 (multimedia or multi!media or audio or video or image) same (transcod\$3) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/09/23<br>09:48 |

|    |    |  |   |     |    |                     |
|----|----|--|---|-----|----|---------------------|
| S1 | 66 | US-5088052-\$.DID.<br>OR US-5355472-\$.<br>DID. OR US-<br>5530852-\$.DID. OR<br>US-5701451-\$.DID.<br>OR US-5708845-\$.<br>DID. OR US-<br>5710918-\$.DID. OR<br>US-5737619-\$.DID.<br>OR US-5745908-\$.<br>DID. OR US-<br>5758110-\$.DID. OR<br>US-5761655-\$.DID.<br>OR US-5793964-\$.<br>DID. OR US-<br>5819261-\$.DID. OR<br>US-5822436-\$.DID.<br>OR US-5845084-\$.<br>DID. OR US-<br>5845299-\$.DID. OR<br>US-5860068-\$.DID.<br>OR US-5860073-\$.<br>DID. OR US-<br>5861881-\$.DID. OR<br>US-5862325-\$.DID.<br>OR US-5864337-\$.<br>DID. OR US-<br>5870552-\$.DID. OR<br>US-5880740-\$.DID.<br>OR US-5890170-\$.<br>DID. OR US-<br>5895476-\$.DID. OR<br>US-5895477-\$.DID.<br>OR US-5903892-\$.<br>DID. OR US-<br>5937160-\$.DID. OR<br>US-5943680-\$.DID.<br>OR US-5956737-\$.<br>DID. OR US-<br>6009436-\$.DID. OR<br>US-6456305-\$.DID.<br>OR US-6563517-\$.<br>DID. OR US-<br>6591280-\$.DID. OR<br>US-6623529-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/02/02<br>14:10 |
| S2 | 4  | US-5442771-\$.DID.<br>OR US-6484149-\$.<br>DID.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/02/02<br>14:11 |

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|-----|----|---|---|-----|-----|---------------------|
| S3  | 70 | S1 or S2  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/02/02<br>14:42 |
| S4  | 0  | S3 (transcod\$3<br>same concurrent or<br>simultaneous\$3<br>same (alternate or<br>different) near5<br>format) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/02/02<br>14:43 |
| S5  | 0  | S3 (transcod\$3<br>same (alternate or<br>different) near5<br>format)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/02/02<br>14:43 |
| S6  | 2  | S3 (transcod\$3)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/02/02<br>14:44 |
| S8  | 53 | ((transcod\$3) same<br>(format) same<br>(analog or wav))<br>@ay< "1999"                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/04/01<br>15:27 |
| S9  | 1  | ("6909708").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2010/04/06<br>14:25 |
| S10 | 1  | S9 client   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/04/06<br>15:44 |
| S11 | 1  | S9 computer   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/04/06<br>15:48 |

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|-----|-----|--|---|-----|----|---------------------|
| S12 | 0   | S9 computer same preferred                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:51 |
| S13 | 0   | S9 computer same preferred                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:51 |
| S14 | 0   | S9 computer same preferred                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:51 |
| S15 | 0   | S9 computer same preferred                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:52 |
| S16 | 0   | S9 computer same embodiement                                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:52 |
| S17 | 0   | S9 computer with preferred                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:52 |
| S18 | 0   | S9 computer and preferred                                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:52 |
| S19 | 155 | ((transcod\$3) same (format) same (analog or wav)) @ay< "2002" | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>16:47 |

|     |     |   |   |     |    |                     |
|-----|-----|---|---|-----|----|---------------------|
| S20 | 224 | (transcod\$3 or convert) same (format) same (on adj the adj fly or simultan\$4 or concurrent\$3) @ay< "1999"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/09/22<br>16:00 |
| S21 | 17  | (transcod\$3 or convert) same (format) near5 (on adj the adj fly or simultan\$4 or concurrent\$3) @ay< "1999" | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/09/22<br>16:01 |
| S22 | 6   | S20 (transcod\$3 or convert).ti.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/09/22<br>16:04 |

9/ 23/ 2010 9:58:04 AM

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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First Named Inventor: Sean BARGER  
Serial No.: 12/173,747  
Filed: July 15, 2008  
Art Unit: 2455  
Confirmation Number: 7377  
Examiner: Charles C. Murphy  
Title: Automated Media Delivery System  
Attorney Docket No.: EQUI00016

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January 3, 2011

**Mail Stop: Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO OFFICE ACTION**

Applicant submits this Response to the Office Action dated October 1, 2010 in connection with the above-identified patent application.

A **Listing of Claims** begins on Page 2 of this paper, and  
**Remarks** begin on Page 8 of this paper.

Applicant does not believe that the filing of this amendment will incur additional fees. However, the Commissioner is authorized to charge any fees that may be due and to credit any overpayments to Deposit Account 07-1445 (Order No. EQUI0016). Applicant considers this document to be filed in a timely manner.

**LISTING OF CLAIMS**

1. (Currently Amended) A method for providing simultaneous transcoding of multi-media data, comprising:

receiving multi-media data in a first format;

receiving a request for transmitting said multi-media data to [[an]] a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities; and

transcoding simultaneously said multi-media data into a plurality of formats that are at least one alternate format that is different from said first format wherein said transcoding comprises each of: changing a resolution of said multi-media data based on the resolution capabilities of the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices, while said multi-media data is transmitted to said output devices; and

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.

2. (Original) The method of claim 1, wherein said multi-media data comprises at least one of: video data, audio data or digital pictures.



3. (Original) The method of claim 1, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

4. (Cancelled).

5. (Original) The method of claim 1, wherein said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a display device.

6. (Original) The method of claim 1, wherein said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a storage device.

7. (Original) The method of claim 1, further comprising:

transmitting said transcoded multi-media data in said alternate format to an external device.

8. (Original) The method of claim 7, wherein said external device comprises a portable media player.

9. (Original) The method of claim 1, wherein said multi-media data in said first format is received from a service provider.

10. (Original) The method of claim 1, wherein said multi-media data in said first format is received from a local content source.

11. (Currently Amended) A system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving multi-media data in a first format and for transmitting said multi-media data to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and

a transcoder, coupled to said controller, for transcoding simultaneously said multi-media data into a plurality of formats that are at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device, wherein said transcoder is configured for

changing each of: a resolution of said multi-media data based on the resolution capabilities the at least two output devices,

changing a frame rate of said multi-media data based on the frame rate capabilities the at least two output devices, and

changing a compression format of said multi-media data based on the compression capabilities the at least two output devices.

12. (Original) The system of claim 11, wherein said multi-media data comprises at least one of: video data, audio data or digital pictures.

13. (Original) The system of claim 11, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

14. (Cancelled).

15. (Original) The system of claim 11, wherein said output device comprises a display device.

16. (Original) The system of claim 11, wherein said output device comprises a storage device.

17. (Original) The system of claim 11, further comprising:

one or more interfaces for transmitting said transcoded multi-media data in said alternate format to an external device.

18. (Original) The system of claim 17, wherein said external device comprises a portable media player.

19. (Currently Amended) A non-transitory computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the steps of a method for providing simultaneous transcoding of multi-media data, comprising:

receiving multi-media data in a first format;

transmitting said multi-media data to an output device; and

transcoding simultaneously said multi-media data into at least ~~one~~ two alternate format that ~~[[is]]~~ are different from said first format, while said multi-media data is transmitted to said output device, wherein said transcoder is configured for changing each of: a resolution of said multi-media data based on resolution capabilities of at least two output devices, a frame rate of said multi-media data based on frame rate capabilities of at least two output devices, and a compression format of said multi-media data based on compression capabilities of at least two output devices.

20. (Currently Amended) The non-transitory computer readable medium of claim 19, wherein said transmitting said multi-media data to an output device comprises transmitting said multi-media data to at least one of: a display device or a storage device.

21. (Cancelled).

22. (Currently Amended) The non-transitory computer readable medium of claim 19, further comprising:

transmitting said transcoded multi-media data in said alternate format to an external device.

23. (Currently Amended) The non-transitory computer readable medium of claim 19, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

**REMARKS**

Applicants respectfully request further examination and reconsideration in view of the above amendments and arguments set forth fully below. Claims 1-3, 5-13, 15-20, 22, and 23 were previously pending in the present application. Within the Office Action, Claims 1-3, 5-13, 15-20, 22, and 23 have been rejected.

**Claim Rejections under 35 U.S.C. § 101**

Within the Office Action, Claims 18-20 and 22-23 were rejected under 35 U.S.C. § 101 as allegedly being directed to non-statutory subject matter. Applicants amend the Claims herein, thereby rendering the rejection moot.

**Claim Rejections under 35 U.S.C. § 103**

Also within the Office Action, Claims 1-3, 5-13, 15-20, and 22-23 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,909,708 to Krishnaswamy et al. (hereinafter referred to as "Krishnaswamy") in view of United States Patent No. 6,563,517 to Bhagwat et al. (hereinafter referred to as "Bhagwat").

To establish a *prima facie* case of obviousness of a claimed invention, all the claimed features must be taught or suggested by the prior art. *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974). The Applicants respectfully traverse this

rejection, because discloses all of the limitations of Claims 1-3, 5-13, 15-20, and 22-23.

Specifically neither Krishnaswamy nor Bhagwat teach or suggest “[a] method for providing simultaneous transcoding of multi-media data, comprising ... receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities; transcoding said multi-media data into a plurality of formats ... based on the resolution capabilities of the at least two output devices... the frame rate capabilities of the at least two output devices, and ... the compression capabilities of the at least two output devices; and transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.”

Within the Office Action, the Examiner admits that Krishnaswamy does not teach “transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device.” The Applicants agree.

However, the Examiner cites Bhagwat and alleges that Bhagwat teaches in Col. 6, lines 19-24; and Col. 7, lines 16-24 “transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device.” The

Applicants disagree; however, Applicants amend the Claims herein to distinguish Bhagwat more clearly.

Indeed, Bhagwat does not teach or suggest “[a] method for providing simultaneous transcoding of multi-media data, comprising ... receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output incompatible file formats; transcoding said multi-media data into a plurality of formats ... based on the resolution capabilities of the at least two output devices... the frame rate capabilities of the at least two output devices, and ... the compression capabilities of the at least two output devices; and transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.”

Bhagwat involves a system wherein “when transcoding is to be performed, images can either be buffered and then transcoded (store and forward transcoding), or each segment can be transcoded on-the-fly (streaming transcoding method).” However, the streaming transcoding method of Bhagwat involves a specific algorithm rather than being based on the capabilities of the output devices.

For example, Col. 12, line 9 through Col 13, line 27 describes streaming image transcoding that occurs only when two specific Conditions are satisfied. Bhagwat



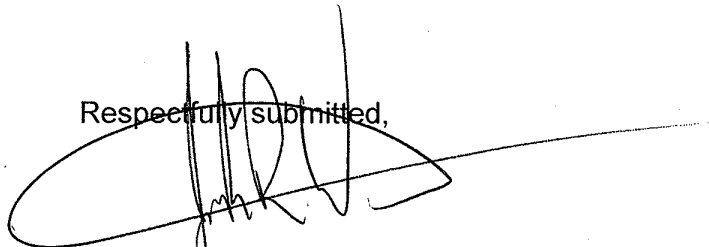
notes that "the streamed image transcoder should only perform transcoding when both Condition A and Condition B are satisfied." On the contrary, the claimed system and method involves always performing the streaming transcode using the devices' capabilities as a basis for the transcode.

For at least these reasons, Claims 1-3, 5-13, 15-20, 22-23 are not rendered obvious in light of a hypothetical combination of Krishnaswamy and Bhagwat.

### CONCLUSION

Applicant respectfully posits that the pending claims have been distinguished from the art of record, and that all objections to and rejections of the claims have been overcome. Accordingly, Applicant respectfully requests allowance. Should the Examiner deem it helpful he is encouraged to contact Applicant's attorney at (650) 474-8400.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Joseph Weatherbee', is written over the text 'Respectfully submitted,'. The signature is stylized and includes a large, sweeping horizontal stroke that extends to the right.

Joseph Weatherbee  
Reg. No. 64,810

Customer No. 22862

## Electronic Acknowledgement Receipt

|   |                                 |
|---|---------------------------------|
| <b>EFS ID:</b>                              | 9154989                         |
| <b>Application Number:</b>                  | 12173747                        |
| <b>International Application Number:</b>    |                                 |
| <b>Confirmation Number:</b>                 | 7377                            |
| <b>Title of Invention:</b>                  | Automated Media Delivery System |
| <b>First Named Inventor/Applicant Name:</b> | Sean Barger                     |
| <b>Customer Number:</b>                     | 22862                           |
| <b>Filer:</b>                               | Michael Glenn/Christine Ort     |
| <b>Filer Authorized By:</b>                 | Michael Glenn                   |
| <b>Attorney Docket Number:</b>              | EQUI0016                        |
| <b>Receipt Date:</b>                        | 03-JAN-2011                     |
| <b>Filing Date:</b>                         | 15-JUL-2008                     |
| <b>Time Stamp:</b>                          | 18:42:15                        |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)     |

### Payment information:

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| Submitted with Payment | no |
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### File Listing:

| Document Number | Document Description | File Name                        | File Size(Bytes)/<br>Message Digest                               | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|----------------------------------|---|------------------|------------------|
| 1               |                      | 2011-01-03-Response-EQUI0016.pdf | 408733<br><small>fc3e20f2db559c8f5fa22d73dbec3af095778582</small> | yes              | 12               |

| <b>Multipart Description/PDF files in .zip description</b> |  |              |            |
|--|--|--------------|------------|
| <b>Document Description</b>                                |  | <b>Start</b> | <b>End</b> |
| Transmittal Letter   |  | 1            | 1          |
| Amendment/Req. Reconsideration-After Non-Final Reject      |  | 2            | 2          |
| Claims   |  | 3            | 8          |
| Applicant Arguments/Remarks Made in an Amendment           |  | 9            | 12         |

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**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

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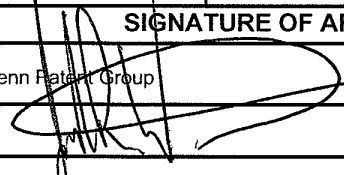
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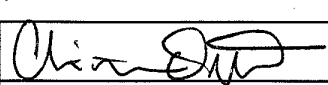
PTO/SB/21 (07-09)  
 Approved for use through 07/31/2012. OMB 0651-0031  
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|--|----------------------|------------------------|----------|
| <h2>TRANSMITTAL FORM</h2> <p><i>(to be used for all correspondence after initial filing)</i></p> | Application Number   | 12/173,747             |          |
|  | Filing Date          | July 15, 2008          |          |
|  | First Named Inventor | Sean BARGER            |          |
|  | Art Unit             | 2455                   |          |
|  | Examiner Name        | 7377                   |          |
| Total Number of Pages in This Submission   | 12                   | Attorney Docket Number | EQUI0016 |

| ENCLOSURES (Check all that apply)   |   |   |
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| <input type="checkbox"/> Fee Transmittal Form                             | <input type="checkbox"/> Drawing(s)                                       | <input type="checkbox"/> After Allowance Communication to TC                            |
| <input type="checkbox"/> Fee Attached                                     | <input type="checkbox"/> Licensing-related Papers                         | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input checked="" type="checkbox"/> Amendment/Reply                       | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final                                      | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)                        | <input type="checkbox"/> Power of Attorney, Revocation                    | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request                        | <input type="checkbox"/> Change of Correspondence Address                 | <input type="checkbox"/> Other Enclosure(s) (please identify below):                    |
| <input type="checkbox"/> Express Abandonment Request                      | <input type="checkbox"/> Terminal Disclaimer                              |   |
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| <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application   | <input type="checkbox"/> Landscape Table on CD                            |   |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | Remarks   |   |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |   |          |        |
|--|---|----------|--------|
| Firm Name                                  | Glenn Patent Group  |          |        |
| Signature                                  |  |          |        |
| Printed name                               | Joseph Weatherbee   |          |        |
| Date                                       | January 3, 2011   | Reg. No. | 64,810 |

| CERTIFICATE OF TRANSMISSION/MAILING  |   |      |                 |
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| I hereby certify that this correspondence is being submitted electronically to the U.S. Patent and Trademark Office via EFS-Web on the date shown below: |   |      |                 |
| Signature  |  |      |                 |
| Typed or printed name  | Christine Ort   | Date | January 3, 2011 |

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|   |   |                                  |                                       |
|---|---|----------------------------------|---------------------------------------|
| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875 | Application or Docket Number<br><b>12/173,747</b> | Filing Date<br><b>07/15/2008</b> | <input type="checkbox"/> To be Mailed |
|---|---|----------------------------------|---------------------------------------|

| APPLICATION AS FILED – PART I   |   |              | OTHER THAN SMALL ENTITY                          |          |           |          |
|---|---|--------------|--|----------|-----------|----------|
|   | (Column 1)  | (Column 2)   | SMALL ENTITY <input checked="" type="checkbox"/> | OR       |           |          |
| FOR   | NUMBER FILED  | NUMBER EXTRA | RATE (\$)  | FEE (\$) | RATE (\$) | FEE (\$) |
| <input type="checkbox"/> BASIC FEE<br><small>(37 CFR 1.16(a), (b), or (c))</small>        | N/A   | N/A          | N/A  |          | N/A       |          |
| <input type="checkbox"/> SEARCH FEE<br><small>(37 CFR 1.16(k), (l), or (m))</small>       | N/A   | N/A          | N/A  |          | N/A       |          |
| <input type="checkbox"/> EXAMINATION FEE<br><small>(37 CFR 1.16(o), (p), or (q))</small>  | N/A   | N/A          | N/A  |          | N/A       |          |
| TOTAL CLAIMS<br><small>(37 CFR 1.16(j))</small>   | minus 20 =  | *            | X \$ =   |          | X \$ =    |          |
| INDEPENDENT CLAIMS<br><small>(37 CFR 1.16(h))</small>                                     | minus 3 =   | *            | X \$ =   |          | X \$ =    |          |
| <input type="checkbox"/> APPLICATION SIZE FEE<br><small>(37 CFR 1.16(s))</small>          | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |              |  |          |           |          |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small> |   |              |  |          |           |          |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                 |   |              | TOTAL  |          | TOTAL     |          |

| APPLICATION AS AMENDED – PART II |   |                                  |                                    |               | OTHER THAN SMALL ENTITY |                     |           |                     |
|----------------------------------|---|----------------------------------|------------------------------------|---------------|-------------------------|---------------------|-----------|---------------------|
|                                  | (Column 1)  | (Column 2)                       | (Column 3)                         |               | SMALL ENTITY            | OR                  |           |                     |
| AMENDMENT                        | <b>01/03/2011</b>   | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$)               | ADDITIONAL FEE (\$) | RATE (\$) | ADDITIONAL FEE (\$) |
|                                  | Total <small>(37 CFR 1.16(i))</small>   | * 20                             | Minus                              | ** 23         | =                       | 0                   | X \$ =    |                     |
|                                  | Independent <small>(37 CFR 1.16(h))</small>   | * 3                              | Minus                              | *** 3         | =                       | 0                   | X \$ =    |                     |
|                                  | <input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>                           |                                  |                                    |               |                         |                     |           |                     |
|                                  | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small> |                                  |                                    |               |                         |                     |           |                     |
|                                  |   |                                  |                                    |               | TOTAL ADD'L FEE         | <b>0</b>            | OR        | TOTAL ADD'L FEE     |

|           |   |                                  |                                    |               |                 |                     |           |                     |
|-----------|---|----------------------------------|------------------------------------|---------------|-----------------|---------------------|-----------|---------------------|
|           | (Column 1)  | (Column 2)                       | (Column 3)                         |               | SMALL ENTITY    | OR                  |           |                     |
| AMENDMENT |   | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$)       | ADDITIONAL FEE (\$) | RATE (\$) | ADDITIONAL FEE (\$) |
|           | Total <small>(37 CFR 1.16(i))</small>   | *                                | Minus                              | **            | =               |                     | X \$ =    |                     |
|           | Independent <small>(37 CFR 1.16(h))</small>   | *                                | Minus                              | ***           | =               |                     | X \$ =    |                     |
|           | <input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>                           |                                  |                                    |               |                 |                     |           |                     |
|           | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small> |                                  |                                    |               |                 |                     |           |                     |
|           |   |                                  |                                    |               | TOTAL ADD'L FEE |                     | OR        | TOTAL ADD'L FEE     |

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:  
/JACQUELINE E. COUPLIN/

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

12/173,747 07/15/2008 Sean Barger EQUI0016 7377

22862 7590 03/18/2011
GLENN PATENT GROUP
3475 EDISON WAY, SUITE L
MENLO PARK, CA 94025

Table with 1 column: EXAMINER

MURPHY, CHARLES C

Table with 2 columns: ART UNIT, PAPER NUMBER

2455

Table with 2 columns: NOTIFICATION DATE, DELIVERY MODE

03/18/2011 ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

eptomatters@glenn-law.com
ptomatters@glenn-law.com



***Detailed Action***

1. This Office Action is responsive to the Amendment filed on 01/03/2011. Claims 1, 11, 19, 20, and 22-23 have been amended. Claims 1-3, 5-13, 15-20, and 22-23 remain pending for examination. Claims 4, 14, and 21 have been withdrawn from examination by applicant.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. **Claims 1-3, 5-13, 15-20, and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishnaswamy et al. US Patent 6,909,708 (hereinafter referred to as Krishnaswamy) in view of Bhagwat et al. US Patent 6,563,517 (hereinafter referred to as Bhagwat) in further view of Neogi US Patent 6,483,851 (hereinafter referred to as Neogi)**
  
2. Regarding claim 1, **Krishnaswamy** teaches a method for simultaneous transcoding of multi-media data, comprising:
  - receiving multi-media data in a first format; (**Krishnaswamy** teaches receiving video to be converted) (**Krishnaswamy, col. 135, lines 22-35**)



**Krishnaswamy** does not teach:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.

In an analogous art, **Bhagwat** does teach:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format. (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(**Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24**)

It would be obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of **Krishnaswamy** and **Bhagwat** to create a system capable of transcoding multimedia files on the fly to different formats.

One would be motivated to do so in order to create a dynamic transcoding system that would in create the benefits of transcoding various multimedia formats an improve efficiency within a network. (**Bhagwat, col. 3, lines 15-30**)

**Krishnaswamy-Bhagwat** does not teach:

transcoding said multi-media data into a plurality of formats that are different from said first format wherein said transcoding of multi-media data is based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices and

receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities; and

In an analogous art, **Neogi** does teach:

transcoding said multi-media data into a plurality of formats that are different from said first format wherein said transcoding of multi-media data is based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices and **(Neogi teaches a transcoding system that transcodes media from requesting clients based on the capabilities of the client. These parameters are within a request for a media file) (Neogi, col. 2, lines 15-50)**

receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities; and **(Neogi** teaches a transcoding system that transcodes media from requesting clients based on the capabilities of the client. These parameters are within a request for a media file) **(Neogi, col. 2, lines 15-50)**

It would be obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of **Krishnaswamy-Bhagwat** and **Neogi** to create a system capable of transcoding multimedia files on the fly to different formats.

One would be motivated to do so in order to create a network transcoding system where the request media is transcoded based so end users can each receive media in a form that is compatible with their devices . **(Neogi, col. 1, lines 30-45)**

3. Regarding claims 2, **Krishnaswamy-Bhagwat-Neogi** further teaches the method of claim 1, wherein:

said multi-media data comprises at least one of: video data, audio data or digital pictures. (**Krishnaswamy** teaches receiving video to be converted)  
**(Krishnaswamy, col. 135, lines 22-35)**

4. Regarding claims 3, **Krishnaswamy-Bhagwat-Neogi** further teaches the method of claim 1, wherein:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format. (**Krishnaswamy** teaches receiving analog video to be converted. The video can be transcoded into various digital formats including MPEG or H.263) (**Krishnaswamy, col. 135, lines 22-35**)

5. Regarding claims 5, **Krishnaswamy-Bhagwat-Neogi** further teaches the method of claim 1, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a display device. (**Krishnaswamy** transmitting video to clients which display the video on a local display device) (**Krishnaswamy, col. 135, lines 55-65**)

6. Regarding claims 6, **Krishnaswamy-Bhagwat-Neogi** further teaches the method of claim 1, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a storage device. (**Krishnaswamy**

teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

7. Regarding claims 7, **Krishnaswamy-Bhagwat-Neogi** further teaches the method of claim 1, comprising:

transmitting said transcoded multi-media data in said alternate format to an external device. (**Krishnaswamy** teaches receiving analog video to be converted. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted to servers for distribution or storage) (**Krishnaswamy, col. 135, lines 22-35**)

8. Regarding claim 8, **Krishnaswamy-Bhagwat-Neogi** does not explicitly teach: wherein said external device comprises a portable media player.

However, **Krishnaswamy-Bhagwat-Neogi** does teach

sending converted video data to client computers (**Krishnaswamy, col. 135, lines 22-35; col. 73, lines 55-67**)

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would

be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

9. Regarding claims 9 **Krishnaswamy-Bhagwat-Neogi** further teaches the method of claim 1, wherein:

said multi-media data in said first format is received from a service provider. (**Krishnaswamy** teaches receiving the video content from any content source or from MCI (the provider).)(**Krishnaswamy, col. 134, lines 55-67**)

10. Regarding claims 10 **Krishnaswamy-Bhagwat-Neogi** further teaches the method of claim 1, wherein:

said multi-media data in said first format is received from a local content source. (**Krishnaswamy** teaches receiving the video content from any content source or from MCI (the provider).)(**Krishnaswamy, col. 134, lines 55-67**)

11. Regarding claim 11, **Krishnaswamy** teaches a system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving multi-media data in a first format and for transmitting said multi-media data to an output device from among a plurality of output devices, and (**Krishnaswamy** teaches receiving video

to be converted into a second format. This video data is received and converted by a server) **(See Fig. 19D) (Krishnaswamy, col. 135, lines 5-15, and lines 22-35)**

**Krishnaswamy** does not teach:

a transcoder, coupled to said controller, for transcoding simultaneously said multi-media data into a plurality of formats that are different from said first format, while said multi-media data is transmitted to said output device,

In an analogous art, **Bhagwat** does teach:

a transcoder, coupled to said controller, for transcoding simultaneously said multi-media data into a plurality of formats that are different from said first format, while said multi-media data is transmitted to said output device. **(Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices **)(Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24)**

It would be obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of **Krishnaswamy** and **Bhagwat** to create a system capable of transcoding multimedia files on the fly to different formats.

One would be motivated to do so in order to create a dynamic transcoding system that would in create the benefits of transcoding various multimedia formats an improve efficiency within a network. (**Bhagwat, col. 3, lines 15-30**)

**Krishnaswamy-Bhagwat** does not teach:

wherein said transcoder is configured for changing a resolution of said multi-media data based on the resolution capabilities the at least two output devices, changing-a frame rate of said multi-media data based on the frame rate capabilities the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities the at least two output devices.

wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities;

In an analogous art, **Neogi** does teach:

wherein said transcoder is configured for changing a resolution of said multi-media data based on the resolution capabilities the at least two



output devices, changing-a frame rate of said multi-media data based on the frame rate capabilities the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities the at least two output devices. **(Neogi teaches a transcoding system that transcodes media from requesting clients based on the capabilities of the client. These parameters are within a request for a media file and include changing the frame rate, resolution, and compression format) (Neogi, col. 1, lines 30-41; col. 2, lines 15-65)**

wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; **(Neogi teaches a transcoding system that transcodes media from multiple requesting clients based on the capabilities of the client such as file formats for high end systems and different file formats for low end systems. These parameters are within a request for a media file and include changing the frame rate, resolution, and compression format) (Neogi, col. 1, lines 30-41; col. 2, lines 15-65)**

It would be obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of **Krishnaswamy-Bhagwat** and **Neogi** to

create a system capable of transcoding multimedia files on the fly to different formats.

One would be motivated to do so in order to create a network transcoding system where the request media is transcoded based so end users can each receive media in a form that is compatible with their devices . **(Neogi, col. 1, lines 30-45)**

12. Regarding claims 12 **Krishnaswamy-Bhagwat-Neogi** further teaches the system of claim 11, wherein:

said multi-media data comprises at least one of: video data, audio data or digital pictures. **(Krishnaswamy teaches receiving video to be converted)**  
**(Krishnaswamy, col. 135, lines 22-35)**

13. Regarding claims 13 **Krishnaswamy-Bhagwat-Neogi** further teaches the system of claim 11, wherein:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format **(Krishnaswamy teaches receiving analog video to be converted. The video can be converted into various digital formats including MPEG or H.263)** **(Krishnaswamy, col. 135, lines 22-35)**

14. Regarding claims 15 **Krishnaswamy-Bhagwat-Neogi** further teaches the system of claim 11, wherein:

said output device comprises a display device. (**Krishnaswamy** transmitting video to clients which displays the video on a local display device) (**Krishnaswamy, col. 135, lines 55-65**)

15. Regarding claims 16 **Krishnaswamy-Bhagwat-Neogi** further teaches the system of claim 11, wherein:

said output device comprises a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

16. Regarding claims 17 **Krishnaswamy-Bhagwat-Neogi** further teaches the system of claim 11, wherein:

one or more interfaces for transmitting said transcoded multi-media data in said alternate format to an external device. (**Krishnaswamy** teaches receiving analog video to be transcoded. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted to servers for distribution or storage) (**Krishnaswamy, col. 135, lines 22-35**)

17. Regarding claim 18 **Krishnaswamy-Bhagwat-Neogi** does not explicitly teach:

said external device comprises a portable media player.

However, **Krishnaswamy-Bhagwat-Neogi** does teach

sending converted video data to client computers (**Krishnaswamy, col. 135, lines 22-35; col. 73, lines 55-67**)

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

- 18.** Regarding claim 19 **Krishnaswamy** teaches a non-transitory computer-readable medium comprising:

receiving multi-media data in a first format; (**Krishnaswamy** teaches receiving video to be converted) (**Krishnaswamy, col. 135, lines 22-35**)  
(**Krishnaswamy** also teaches implementing the invention using software executed on hardware) (**Krishnaswamy, cols. 74 -78**)

transmitting said multi-media data to an output device; and  
(**Krishnaswamy** teaches sending multi-media data to a server for either

storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

**Krishnaswamy** does not teach:

transcoding simultaneously said multi-media data into at least two alternate format that are different from said first format, while said multi-media data is transmitted to said output device, (**Bhagwat** teaches converting multi-media into a different formats on the fly. (**Bhagwat, col. 6, lines 19-24; col. 7, lines 16-24**)

In an analogous art, **Bhagwat** does teach:

transcoding simultaneously said multi-media data into at least two alternate format that are different from said first format, while said multi-media data is transmitted to said output device, (**Bhagwat** teaches converting multi-media into a different formats on the fly. (**Bhagwat, col. 6, lines 19-24; col. 7, lines 16-24**) (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(**Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24**)

It would be obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of **Krishnaswamy** and **Bhagwat** to create a system capable of transcoding multimedia files on the fly to different formats.

One would be motivated to do so in order to create a dynamic transcoding system that would in create the benefits of transcoding various multimedia formats an improve efficiency within a network. (**Bhagwat, col. 3, lines 15-30**)

**Krishnaswamy-Bhagwat** does not teach:

transcoding said multi-media data into a plurality of formats that are different from said first format wherein said transcoding of multi-media data is based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices and

receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities; and

In an analogous art, **Neogi** does teach:

wherein said transcoder is configured for changing each of: a resolution of said multi-media data based on resolution capabilities of at least two

output devices, a frame rate of said multimedia data based on frame rate capabilities of at least two output devices, and a compression format of said multi-media data based on compression capabilities of at least two output devices. **(Neogi** teaches a transcoding system that transcodes media from requesting clients based on the capabilities of the client. These parameters are within a request for a media file and include changing the frame rate, resolution, and compression format) **(Neogi, col. 1, lines 30-41; col. 2, lines 15-65)**

It would be obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of **Krishnaswamy-Bhagwat** and **Neogi** to create a system capable of transcoding multimedia files on the fly to different formats.

One would be motivated to do so in order to create a network transcoding system where the request media is transcoded based so end users can each receive media in a form that is compatible with their devices . **(Neogi, col. 1, lines 30-45)**

- 19.** Regarding claims 20 **Krishnaswamy-Bhagwat-Neogi** further teaches the non-transitory computer-readable medium of claim 19, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to at least one of: a display device or a

storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**) (**Krishnaswamy** also teaches transmitting video to clients which displays the video on a local display device) (**Krishnaswamy, col. 135, lines 55-65**)

20. Regarding claims 22 **Krishnaswamy-Bhagwat-Neogi** further teaches the non-transitory computer-readable medium of claim 19, further comprising:

transmitting said transcoded multi-media data in said alternate format to an external device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

21. Regarding claims 23 **Krishnaswamy-Bhagwat-Neogi** further teaches the non-transitory computer-readable medium of claim 19, wherein:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format (**Krishnaswamy** teaches receiving analog video to be converted. The video can be converted into various digital formats including MPEG or H.263) (**Krishnaswamy, col. 135, lines 22-35**)



***Response to Arguments***

Applicant's arguments, see Remarks, Claim Rejections Under 35.U.S.C 101, filed 01/03/2011, with respect to claims 18-20 and 22-23 have been fully considered and are persuasive. The Rejections Under 35.U.S.C 101 of claims 18-20 and 22-23 has been withdrawn.

Applicant's arguments with respect to claims 1-3, 5-13, 15-20, and 22-23 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHARLES MURPHY whose telephone number is (571)270-5444. The examiner can normally be reached on 8AM - 5PM Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHARLES MURPHY/  
Examiner, Art Unit 2455  
3/14/2011

/David Lazaro/  
Primary Examiner, Art Unit 2455

|                                   |                                       |   |             |
|-----------------------------------|---------------------------------------|---|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>12/173,747 | Applicant(s)/Patent Under<br>Reexamination<br>BARGER ET AL. |             |
|                                   | Examiner<br>CHARLES MURPHY            | Art Unit<br>2455  | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name                | Classification |
|---|--|-----------------|---------------------|----------------|
| * | A US-6,909,708                                   | 06-2005         | Krishnaswamy et al. | 370/352        |
| * | B US-6,563,517                                   | 05-2003         | Bhagwat et al.      | 715/735        |
| * | C US-6,483,851                                   | 11-2002         | Neogi, Raja         | 370/466        |
|   | D US-  |                 |                     |                |
|   | E US-  |                 |                     |                |
|   | F US-  |                 |                     |                |
|   | G US-  |                 |                     |                |
|   | H US-  |                 |                     |                |
|   | I US-  |                 |                     |                |
|   | J US-  |                 |                     |                |
|   | K US-  |                 |                     |                |
|   | L US-  |                 |                     |                |
|   | M US-  |                 |                     |                |


**FOREIGN PATENT DOCUMENTS**

| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
|---|--|-----------------|---------|------|----------------|
|   | N  |                 |         |      |                |
|   | O  |                 |         |      |                |
|   | P  |                 |         |      |                |
|   | Q  |                 |         |      |                |
|   | R  |                 |         |      |                |
|   | S  |                 |         |      |                |
|   | T  |                 |         |      |                |

**NON-PATENT DOCUMENTS**

| * | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|
| U |   |
| V |   |
| W |   |
| X |   |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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|---|--|---|
| <b>Index of Claims</b><br><br> | <b>Application/Control No.</b><br><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>BARGER ET AL. |
|   | <b>Examiner</b><br><br>CHARLES MURPHY          | <b>Art Unit</b><br><br>2455   |

|   |                 |
|---|-----------------|
| ✓ | <b>Rejected</b> |
| = | <b>Allowed</b>  |


|   |                   |
|---|-------------------|
| - | <b>Cancelled</b>  |
| ÷ | <b>Restricted</b> |

|   |                     |
|---|---------------------|
| N | <b>Non-Elected</b>  |
| I | <b>Interference</b> |

|   |                 |
|---|-----------------|
| A | <b>Appeal</b>   |
| O | <b>Objected</b> |

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

| CLAIM |          | DATE       |            |            |  |  |  |  |  |
|-------|----------|------------|------------|------------|--|--|--|--|--|
| Final | Original | 04/06/2010 | 09/23/2010 | 03/12/2011 |  |  |  |  |  |
|       | 1        | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 2        | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 3        | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 4        | ✓          | -          | -          |  |  |  |  |  |
|       | 5        | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 6        | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 7        | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 8        | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 9        | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 10       | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 11       | ✓          | -          | -          |  |  |  |  |  |
|       | 12       | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 13       | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 14       | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 15       | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 16       | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 17       | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 18       | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 19       | ✓          | -          | -          |  |  |  |  |  |
|       | 20       | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 21       | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 22       | ✓          | ✓          | ✓          |  |  |  |  |  |
|       | 23       | ✓          | ✓          | ✓          |  |  |  |  |  |

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|--|--|---|
| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>BARGER ET AL. |
|  | <b>Examiner</b><br><br>CHARLES MURPHY          | <b>Art Unit</b><br><br>2455   |

| <b>SEARCHED</b> |   |             |                 |
|-----------------|---|-------------|-----------------|
| <b>Class</b>    | <b>Subclass</b>                             | <b>Date</b> | <b>Examiner</b> |
| 709             | 227 226 223 219 206 204 203                 | 4/6/2010    | Charles Murphy  |
| 370             | 480 467 465 389 356 353 352 289 286 260 252 | 4/6/2010    | Charles Murphy  |
| 455             | 560 463 426.1 422.1 412.1                   | 4/6/2010    | Charles Murphy  |
| 709             | 247 217                                     | 9/23/2010   | Charles Murphy  |
| 704             | 503 500 230 204                             | 9/23/2010   | Charles Murphy  |
| 709             | 227 226 223 219 206 204 203                 | 3/12/2011   | Charles Murphy  |
| 370             | 480 467 465 389 356 353                     | 3/12/2011   | Charles Murphy  |

| <b>SEARCH NOTES</b>    |             |                 |
|------------------------|-------------|-----------------|
| <b>Search Notes</b>    | <b>Date</b> | <b>Examiner</b> |
| East                   | 4/6/2010    | Charles Murphy  |
| Searched East          | 9/23/2010   | Charles Murphy  |
| Consulted Quang Nguyen | 9/23/2010   | Charles Murphy  |
| Searched East          | 3/12/2011   | Charles Murphy  |

| <b>INTERFERENCE SEARCH</b> |                 |             |                 |
|----------------------------|-----------------|-------------|-----------------|
| <b>Class</b>               | <b>Subclass</b> | <b>Date</b> | <b>Examiner</b> |
|                            |                 |             |                 |

|  |  |
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| /CHARLES MURPHY/<br>Examiner.Art Unit 2455 |  |
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## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| L1    | 7355 | (transcod\$3 or convert\$3) same (device or client) near3 (characteristics or capabilities or spec \$6 or abilities or parameters) @ay<"1999"                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2011/03/12 19:18 |
| L2    | 1875 | (transcod\$3 or convert\$3) near5 (device or client) near3 (characteristics or capabilities or spec \$6 or abilities or parameters) @ay<"1999"                    | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2011/03/12 19:18 |
| L3    | 905  | (transcod\$3 or convert\$3) near5 (device or client) near3 (characteristics or abilities or parameters) @ay<"1999"  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2011/03/12 19:18 |
| L4    | 3277 | (transcod\$3 or convert\$3) (media or file or song or image or data) near5 (device or client) near3 (characteristics or abilities or parameters) @ay<"1999"       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2011/03/12 19:19 |
| L5    | 35   | ((transcod\$3 or convert\$3) (media or file or song or image or data) near5 (device or client) near3 (characteristics or abilities or parameters)).ti. @ay<"1999" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2011/03/12 19:19 |

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|-----|-----|---|---|-----|----|---------------------|
| L6  | 222 | ((transcod\$3 or convert\$3) (media or file or song or image or data) near5 (device or client) near3 (characteristics or abilities or parameters)).clm.<br>@ay<"1999" | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/03/12<br>19:19 |
| L7  | 333 | ((transcod\$3 or convert\$3) (media or file or song or image or data) near5 (device or client) near3 (characteristics or abilities or parameters)).ab.<br>@ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/03/12<br>19:19 |
| L8  | 0   | 5 6 7   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/03/12<br>19:19 |
| L9  | 35  | 5 ((transcod\$3 or convert\$3) (media or file or song or image or data) near5 (device or client) near3 (characteristics or abilities or parameters))<br>@ay<"1999"    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/03/12<br>19:20 |
| L10 | 0   | 5 ((transcod\$3 ) (media or file or song or image or data) near5 (device or client) near3 (characteristics or abilities or parameters))<br>@ay<"1999"                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/03/12<br>19:20 |
| L11 | 17  | ((transcod\$3 ) (media or file or song or image or data) near5 (device or client) near3 (characteristics or abilities or parameters))<br>@ay<"1999"                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/03/12<br>19:20 |

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|-----|----|---|---|-----|----|---------------------|
| L12 | 9  | ((transcod\$3 ) same (media or file or song or image or data) near5 (device or client) near3 (characteristics or abilities or parameters)) @ay< "1999"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/03/12<br>19:21 |
| S1  | 66 | US-5088052-\$.DID.<br>OR US-5355472-\$.DID. OR US-5530852-\$.DID. OR US-5701451-\$.DID. OR US-5708845-\$.DID. OR US-5710918-\$.DID. OR US-5737619-\$.DID. OR US-5745908-\$.DID. OR US-5758110-\$.DID. OR US-5761655-\$.DID. OR US-5793964-\$.DID. OR US-5819261-\$.DID. OR US-5822436-\$.DID. OR US-5845084-\$.DID. OR US-5845299-\$.DID. OR US-5860068-\$.DID. OR US-5860073-\$.DID. OR US-5861881-\$.DID. OR US-5862325-\$.DID. OR US-5864337-\$.DID. OR US-5870552-\$.DID. OR US-5880740-\$.DID. OR US-5890170-\$.DID. OR US-5895476-\$.DID. OR US-5895477-\$.DID. OR US-5903892-\$.DID. OR US-5937160-\$.DID. OR US-5943680-\$.DID. OR US-5956737-\$.DID. OR US-6009436-\$.DID. OR US-6456305-\$.DID. OR US-6563517-\$.DID. OR US-6591280-\$.DID. OR US-6623529-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/02/02<br>14:10 |



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| S2  | 4  | US-5442771-\$.DID.<br>OR US-6484149-\$.<br>DID.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/02/02<br>14:11 |
| S3  | 70 | S1 or S2  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/02/02<br>14:42 |
| S4  | 0  | S3 (transcod\$3 same<br>concurrent or<br>simultaneous\$3<br>same (alternate or<br>different) near5<br>format) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/02/02<br>14:43 |
| S5  | 0  | S3 (transcod\$3 same<br>(alternate or<br>different) near5<br>format)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/02/02<br>14:43 |
| S6  | 2  | S3 (transcod\$3)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/02/02<br>14:44 |
| S8  | 53 | ((transcod\$3) same<br>(format) same<br>(analog or wav))<br>@ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/04/01<br>15:27 |
| S9  | 1  | ("6909708").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2010/04/06<br>14:25 |
| S10 | 1  | S9 client   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/04/06<br>15:44 |
| S11 | 1  | S9 computer   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/04/06<br>15:48 |

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|-----|-----|---|---|-----|----|---------------------|
| S12 | 0   | S9 computer same preferred                                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:51 |
| S13 | 0   | S9 computer same preferred                                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:51 |
| S14 | 0   | S9 computer same preferred                                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:51 |
| S15 | 0   | S9 computer same preferred                                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:52 |
| S16 | 0   | S9 computer same embodiment                                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:52 |
| S17 | 0   | S9 computer with preferred                                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:52 |
| S18 | 0   | S9 computer and preferred                                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>15:52 |
| S19 | 155 | ((transcod\$3) same (format) same (analog or wav)) @ay<"2002" | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/04/06<br>16:47 |

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|-----|------|--|---|-----|----|---------------------|
| S20 | 224  | (transcod\$3 or convert) same (format) same (on adj the adj fly or simultan\$4 or concurrent\$3) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/09/22<br>16:00 |
| S21 | 17   | (transcod\$3 or convert) same (format) near5 (on adj the adj fly or simultan\$4 or concurrent\$3) @ay<"1999" | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/09/22<br>16:01 |
| S22 | 6    | S20 (transcod\$3 or convert).ti.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/09/22<br>16:04 |
| S23 | 7    | (transcod\$3) same (fly) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/09/23<br>09:46 |
| S24 | 2595 | (transcod\$3 or convert\$3) same (fly) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/09/23<br>09:46 |
| S25 | 680  | (transcod\$3 or convert\$3) near5(fly) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/09/23<br>09:47 |
| S26 | 680  | (transcod\$3 or convert\$3) near5 (fly) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/09/23<br>09:47 |
| S27 | 183  | S26 (transcod\$3 or convert\$3).ti.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/09/23<br>09:47 |

EAST Search History

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|-----|---|--|---|-----|-----|---------------------|
| S28 | 2 | S27 (multimedia or multimedia or audio or video or image) same (transcod\$3) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/09/23<br>09:48 |
| S29 | 1 | ("6563517").PN.  | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2011/03/09<br>20:45 |

**EAST Search History (I nterference)**

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**3/ 12/ 2011 8:07:48 PM**

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| <b>REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL<br/>(Submitted Only via EFS-Web)</b>  |             |             |            |                               |                   |          |      |
|--|-------------|-------------|------------|-------------------------------|-------------------|----------|------|
| Application Number   | 12/173,747  | Filing Date | 2008-07-15 | Docket Number (if applicable) | EQUI0016          | Art Unit | 2455 |
| First Named Inventor   | Sean Barger |             |            | Examiner Name                 | Charles C. Murphy |          |      |
| <p><b>This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.</b><br/>           Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV</p>   |             |             |            |                               |                   |          |      |
| <b>SUBMISSION REQUIRED UNDER 37 CFR 1.114</b>  |             |             |            |                               |                   |          |      |
| <p>Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).</p>   |             |             |            |                               |                   |          |      |
| <p><input type="checkbox"/> Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.</p> <p style="margin-left: 40px;"><input type="checkbox"/> Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____</p> <p style="margin-left: 40px;"><input type="checkbox"/> Other _____</p> |             |             |            |                               |                   |          |      |
| <p><input checked="" type="checkbox"/> Enclosed</p> <p style="margin-left: 40px;"><input checked="" type="checkbox"/> Amendment/Reply</p> <p style="margin-left: 40px;"><input type="checkbox"/> Information Disclosure Statement (IDS)</p> <p style="margin-left: 40px;"><input type="checkbox"/> Affidavit(s)/ Declaration(s)</p> <p style="margin-left: 40px;"><input type="checkbox"/> Other _____</p>                                 |             |             |            |                               |                   |          |      |
| <b>MISCELLANEOUS</b>   |             |             |            |                               |                   |          |      |
| <p><input type="checkbox"/> Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____<br/>           (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)</p> <p><input type="checkbox"/> Other _____</p>  |             |             |            |                               |                   |          |      |
| <b>FEES</b>  |             |             |            |                               |                   |          |      |
| <p><input checked="" type="checkbox"/> The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.<br/>           The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to<br/>           Deposit Account No <u>071445</u></p>   |             |             |            |                               |                   |          |      |
| <b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED</b>   |             |             |            |                               |                   |          |      |
| <p><input checked="" type="checkbox"/> Patent Practitioner Signature</p> <p><input type="checkbox"/> Applicant Signature</p>   |             |             |            |                               |                   |          |      |

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| Signature of Registered U.S. Patent Practitioner |                  |                     |            |
|--|------------------|---------------------|------------|
| Signature  | /MAG/            | Date (YYYY-MM-DD)   | 2011-06-16 |
| Name   | Michael A. Glenn | Registration Number | 30176      |

This collection of information is required by 37 CFR 1.114. 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 12 minutes 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.

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

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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First Named Inventor: Sean BARGER  
Serial No.: 12/173,747  
Filed: July 15, 2008  
Art Unit: 2455  
Confirmation Number: 7377  
Examiner: Charles C. Murphy  
Title: Automated Media Delivery System  
Attorney Docket No.: EQUI00016

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June 16, 2011

**Mail Stop: Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO OFFICE ACTION**

Applicant submits this Response to the Office Action dated March 18, 2011 in connection with the above-identified patent application.

**A Listing of Claims** begins on Page 2 of this paper, and  
**Remarks** begin on Page 13 of this paper.

Applicant does not believe that the filing of this amendment will incur additional fees. However, the Commissioner is authorized to charge any fees that may be due and to credit any overpayments to Deposit Account 07-1445 (Order No. EQUI0016). Applicant considers this document to be filed in a timely manner.

**LISTING OF CLAIMS**

1. (Currently Amended) A method for providing simultaneous transcoding of multi-media data, comprising:

receiving multi-media data in a first format;

receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities;

automatically transcoding, at the time of the request and without input by a network administrator, said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats that are different from said first format wherein said transcoding comprises each of: changing a resolution of said multi-media data based on the resolution capabilities of the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices; and

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.



2. (Original) The method of claim 1, wherein said multi-media data comprises at least one of: video data, audio data or digital pictures.
  
3. (Original) The method of claim 1, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.
  
4. (Cancelled).
  
5. (Original) The method of claim 1, wherein said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a display device.
  
6. (Original) The method of claim 1, wherein said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a storage device.
  
7. (Original) The method of claim 1, further comprising:  
transmitting said transcoded multi-media data in said alternate format to an external device.
  
8. (Original) The method of claim 7, wherein said external device comprises a portable media player.

9. (Original) The method of claim 1, wherein said multi-media data in said first format is received from a service provider.

10. (Original) The method of claim 1, wherein said multi-media data in said first format is received from a local content source.

11. (Currently Amended) A system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving multi-media data in a first format and for transmitting said multi-media data to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and

a transcoder, coupled to said controller and said request parser, for automatically transcoding, at the time of said request, without input by a network administrator, and simultaneously said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of output devices that are different from said first format, while said multi-media data is transmitted to said output device, wherein said transcoder is configured for:

changing a resolution of said multi-media data based on the resolution capabilities the at least two output devices,

changing a frame rate of said multi-media data based on the frame rate capabilities the at least two output devices, and

changing a compression format of said multi-media data based on the compression capabilities the at least two output devices.

12. (Original) The system of claim 11, wherein said multi-media data comprises at least one of: video data, audio data or digital pictures.

13. (Original) The system of claim 11, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

14. (Cancelled).

15. (Original) The system of claim 11, wherein said output device comprises a display device.

16. (Original) The system of claim 11, wherein said output device comprises a storage device.

17. (Original) The system of claim 11, further comprising:

one or more interfaces for transmitting said transcoded multi-media data in said alternate format to an external device.

18. (Original) The system of claim 17, wherein said external device comprises a portable media player.

19. (Currently Amended) A non-transitory computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the steps of a method for providing simultaneous transcoding of multi-media data, comprising:

receiving multi-media data in a first format;

transmitting said multi-media data to an output device; and

automatically transcoding, at the time of the request and without input by a network administrator, said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats that are different from said first format, while said multi-media data is transmitted to said output device, wherein said transcoder is configured for changing each of: a resolution of said multi-media data based on resolution capabilities of at least two output devices, a frame rate of said multi-media data based on frame rate capabilities of at least two output devices, and a compression format of said multi-media data based on compression capabilities of at least two output devices.

20. (Previously Presented) The non-transitory computer readable medium of claim 19, wherein said transmitting said multi-media data to an output device comprises transmitting said multi-media data to at least one of: a display device or a storage device.

21. (Cancelled).

22. (Previously Presented) The non-transitory computer readable medium of claim 19, further comprising:

transmitting said transcoded multi-media data in said alternate format to an external device.

23. (Previously Presented) The non-transitory computer readable medium of claim 19, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

24. (New) A method for providing simultaneous transcoding of multi-media data, comprising:

receiving multi-media data in a first format;

receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags;

automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags,

automatically transcoding, at the time of the request and without input by a network administrator, said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said multi-media data based on the resolution capabilities of the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices; and

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.

25. (New) The method of claim 24, wherein said multi-media data comprises at least one of: video data, audio data or digital pictures.

26. (New) The method of claim 24, wherein said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a display device.

27. (New) The method of claim 24, wherein said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a storage device.

28. (New) The method of claim 1, further comprising:

transmitting said transcoded multi-media data in said alternate format to an external device.

29. (New) The method of claim 7, wherein said external device comprises a portable media player.

30. (New) A system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving multi-media data in a first format and for transmitting said multi-media data to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and

a request parser configured for receiving a request from a client for transmitting said multi-media data to one or more output devices, wherein at least two devices from said one or more output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags, and for automatically determining, at the time

of the request, one or more formats requested based on said one or more data format tags;

a transcoder, coupled to said controller and said request parser, for automatically transcoding, at the time of said request, without input by a network administrator, and simultaneously said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of output devices are different from said first format, while said multi-media data is transmitted to said output device, wherein said transcoder is configured for

changing a resolution of said multi-media data based on the resolution capabilities the at least two output devices,

changing a frame rate of said multi-media data based on the frame rate capabilities the at least two output devices, and

changing a compression format of said multi-media data based on the compression capabilities the at least two output devices.

31. (New) The system of claim 30, wherein said multi-media data comprises at least one of: video data, audio data or digital pictures.

32. (New) The system of claim 30, wherein said output device comprises a display device.



33. (New) The system of claim 30, wherein said output device comprises a storage device.

34. (New) The system of claim 30, further comprising:

one or more interfaces for transmitting said transcoded multi-media data in said alternate format to an external device.

35. (New) The system of claim 34, wherein said external device comprises a portable media player.

36. (New) A non-transitory computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the steps of a method for providing simultaneous transcoding of multi-media data, comprising:

receiving multi-media data in a first format;

receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags;

automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags,

automatically transcoding, at the time of the request and without input by a network administrator, said multi-media data into a plurality of formats based on

one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said multi-media data based on the resolution capabilities of the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices; and

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.

**REMARKS**

Applicants respectfully request further examination and reconsideration in view of the above amendments and arguments set forth fully below.

**Substance of Interview Summary**

The Applicant thanks Examiners Murphy and Nawaz for conducting an interview with the Applicant and the Applicant's attorney on May 29, 2011. Mr. Sean Barger, inventor and Applicant, was present at the interview and Mr. Joseph Weatherbee (64,810) was present at the interview as counsel for the Applicant.

During the interview, the parties first discussed the Applicants' proposed amendment to Claim 1 in view of U.S. Patent No. 6,909,708 to Krishnaswamy et al. (hereinafter referred to as "Krishnaswamy") in view of United States Patent No. 6,563,517 to Bhagwat et al. (hereinafter referred to as "Bhagwat") and further in view of United States Patent No. 6,483,851 to Neogi (hereinafter referred to as "Neogi").

Without intending to mischaracterize the substance of the interview, Applicant is of the opinion that the Examiner agreed that the proposed amendments are adequate overcome the rejections under 35 U.S.C. § 103.

However, the Examiner indicated that further search and consideration might allow him to reject the Claims with an application of further prior art. Accordingly,

the parties discussed further claim limitations that distinguish the hypothetical combination of the art of record and that could potentially be allowable despite a further search.

Finally, Mr. Weatherbee indicated the Applicants' desire to expedite prosecution and willingness to discuss any issues arising from this response in a subsequent Examiner-initiated interview. The Examiner replied that he would contact Mr. Weatherbee in the event that he has any questions or if any objections or rejections arise that may be addressed by Examiner's amendment.

#### **Claim Rejections under 35 U.S.C. § 103**

Also within the Office Action, Claims 1-3, 5-13, 15-20, and 22-23 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,909,708 to Krishnaswamy et al. (hereinafter referred to as "Krishnaswamy") in view of United States Patent No. 6,563,517 to Bhagwat et al. (hereinafter referred to as "Bhagwat") and further in view of United States Patent No. 6,483,851 to Neogi (hereinafter referred to as "Neogi").

To establish a *prima facie* case of obviousness of a claimed invention, all the claimed features must be taught or suggested by the prior art. *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974). The Applicants respectfully traverse this rejection, because discloses all of the limitations of Claims 1-3, 5-13, 15-20, and 22-23.

Specifically neither Krishnaswamy, Bhagwat, nor Neogi teach or suggest “automatically transcoding, without input by a network user, said multi-media data into a plurality of formats based on the format of any output device from among the plurality of output devices.”

Within the Office Action, the Examiner admits that Krishnaswamy does not teach “transcoding simultaneously said multi-media data into at least one alternate format that is different from said first format, while said multi-media data is transmitted to said output device.” The Applicants agree.

However, the Examiner cites Bhagwat for the notion that Bhagwat involves simultaneous transcoding and outputting data. Accordingly, Applicants amend the Claims herein to distinguish Bhagwat more clearly. More specifically, Applicants specify that the transcoding is performed based only on the output formats of the devices that the media is being sent to. This is in stark contrast to Bhagwat. Indeed, when it comes to how to transcode media data, the primary consideration in Bhagwat is the network bandwidth. Therefore, in Bhagwat the only concern is not destination output format, but rather bandwidth.

Furthermore, the Examiner admits that the hypothetical combination of Krishnaswamy and Bhagwat does not involve:

“transcoding said multi-media data into a plurality of formats that are different from said first format wherein said transcoding comprises each of: changing a resolution of said multi-media data based on the resolution capabilities of the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices; and

receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities”

The Applicants agree. However, the Examiner further cites Neogi to allege that these features are well-known and that, when combined with the teachings of Krishnaswamy and Bhagwat, render the Claims obvious. The Applicants disagree. However, for the sole purpose of expediting prosecution, Applicants further amend the Claims to distinguish Neogi more clearly.

More specifically, the Applicants amend the Claims to specify that the transcoding is performed “automatically”, “at the time of the request”, and “without input by a network user.”

On the other hand, Neogi admits that it requires human participation.

Indeed, Neogi explicitly specifies that the transcoding performed is done so only after a network user specifies one or more of:

“1. Command Type (e.g. Connection request) 2. Ports (channel identifications) 3. Media Type 4. Bit-Rate 5. Frame Rate 6. Resolution 7. End-to-End Latency 8. Interlace 9. Signature 10. Loss Percentage 11. Content Identification 12. Code Type 13. Filter 14. Filter Parameter 15. Prediction 16. Hostname.”

Clearly, Neogi requires input by a network user.

On the other hand, the Applicant’s invention bases the transcode parameters on only “the format of any output device from among the plurality of output devices,” rather than user input, and do so automatically.

Furthermore, as explained above, Applicant is of the opinion that the Examiner agreed that the Claims, as amended above, are not rendered obvious by a hypothetical combination of Krishnaswamy, Bhagwat, and Neogi.

For at least these reasons, the Applicant respectfully requests that the Examiner remove his rejections under 35 U.S.C. § 103.

For the record, the Applicant respectfully traverses any and all factual assertions in the file that are not supported by documentary evidence. Such include assertions based on findings of inherency, assertions based on Official Notice, and any other assertions of what is well known or commonly known in the prior art.

The foregoing amendments are made solely in the interest of expediency, in recognition of the Office policy of compact prosecution. They do not indicate agreement by Applicant with the Office's position, nor do they reflect intent to forsake Claim scope. In fact, Applicant expressly reserves the right to pursue patent protection of a scope it is reasonably entitled to in future submissions to the Office.

#### CONCLUSION

Applicant respectfully posits that the pending claims have been distinguished from the art of record, and that all objections to and rejections of the claims have been overcome. Accordingly, Applicant respectfully requests allowance. Should the Examiner deem it helpful he is encouraged to contact Applicant's attorney at (650) 474-8400.

Respectfully submitted,



Michael A. Glenn  
Reg. No. 30,176

Customer No. 22862



## Electronic Patent Application Fee Transmittal

|  |                                 |                 |               |                             |
|--|---------------------------------|-----------------|---------------|-----------------------------|
| <b>Application Number:</b>                     | 12173747                        |                 |               |                             |
| <b>Filing Date:</b>                            | 15-Jul-2008                     |                 |               |                             |
| <b>Title of Invention:</b>                     | Automated Media Delivery System |                 |               |                             |
| <b>First Named Inventor/Applicant Name:</b>    | Sean Barger                     |                 |               |                             |
| <b>Filer:</b>                                  | Michael Glenn/Jessica Pallach   |                 |               |                             |
| <b>Attorney Docket Number:</b>                 | EQUI0016                        |                 |               |                             |
| Filed as Small Entity                          |                                 |                 |               |                             |
| <b>Utility under 35 USC 111(a) Filing Fees</b> |                                 |                 |               |                             |
| <b>Description</b>                             | <b>Fee Code</b>                 | <b>Quantity</b> | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                           |                                 |                 |               |                             |
| <b>Pages:</b>                                  |                                 |                 |               |                             |
| <b>Claims:</b>                                 |                                 |                 |               |                             |
| Claims in excess of 20                         | 2202                            | 13              | 26            | 338                         |
| Independent claims in excess of 3              | 2201                            | 3               | 110           | 330                         |
| <b>Miscellaneous-Filing:</b>                   |                                 |                 |               |                             |
| <b>Petition:</b>                               |                                 |                 |               |                             |
| <b>Patent-Appeals-and-Interference:</b>        |                                 |                 |               |                             |
| <b>Post-Allowance-and-Post-Issuance:</b>       |                                 |                 |               |                             |

| Description                       | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|-----------------------------------|----------|----------|--------|----------------------|
| <b>Extension-of-Time:</b>         |          |          |        |                      |
| <b>Miscellaneous:</b>             |          |          |        |                      |
| Request for continued examination | 2801     | 1        | 405    | 405                  |
| <b>Total in USD (\$)</b>          |          |          |        | <b>1073</b>          |

## Electronic Acknowledgement Receipt

|   |                                 |
|---|---------------------------------|
| <b>EFS ID:</b>                              | 10320808                        |
| <b>Application Number:</b>                  | 12173747                        |
| <b>International Application Number:</b>    |                                 |
| <b>Confirmation Number:</b>                 | 7377                            |
| <b>Title of Invention:</b>                  | Automated Media Delivery System |
| <b>First Named Inventor/Applicant Name:</b> | Sean Barger                     |
| <b>Customer Number:</b>                     | 22862                           |
| <b>Filer:</b>                               | Michael Glenn/Jessica Pallach   |
| <b>Filer Authorized By:</b>                 | Michael Glenn                   |
| <b>Attorney Docket Number:</b>              | EQUI0016                        |
| <b>Receipt Date:</b>                        | 16-JUN-2011                     |
| <b>Filing Date:</b>                         | 15-JUL-2008                     |
| <b>Time Stamp:</b>                          | 15:11:13                        |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)     |

### Payment information:

|  |                 |
|--|-----------------|
| Submitted with Payment                   | yes             |
| Payment Type                             | Deposit Account |
| Payment was successfully received in RAM | \$1073          |
| RAM confirmation Number                  | 1496            |
| Deposit Account                          | 071445          |
| Authorized User                          |                 |

### File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/<br>Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-----------|-------------------------------------|------------------|------------------|
|-----------------|----------------------|-----------|-------------------------------------|------------------|------------------|

|   |                      |  |  |            |    |
|---|----------------------|--|--|------------|----|
| 1   |                      | RCEresponse-EQUI0016--<br>efiled061611.pdf         | 640638<br><small>02674342bf54704c609d41d11433a940abd<br/>02d68</small> | yes        | 20 |
| <b>Multipart Description/PDF files in .zip description</b>  |                      |  |  |            |    |
|   |                      | <b>Document Description</b>                        | <b>Start</b>   | <b>End</b> |    |
|   |                      | Request for Continued Examination (RCE)            | 1  | 2          |    |
|   |                      | Amendment Submitted/Entered with Filing of CPA/RCE | 3  | 3          |    |
|   |                      | Claims   | 4  | 14         |    |
|   |                      | Applicant Arguments/Remarks Made in an Amendment   | 15   | 20         |    |
| <b>Warnings:</b>  |                      |  |  |            |    |
| <b>Information:</b>   |                      |  |  |            |    |
| 2   | Fee Worksheet (SB06) | fee-info.pdf                                       | 33321<br><small>abaeb718e7827e6ec12f909ae57e7f52b158<br/>68fe</small>  | no         | 2  |
| <b>Warnings:</b>  |                      |  |  |            |    |
| <b>Information:</b>   |                      |  |  |            |    |
| <b>Total Files Size (in bytes):</b>   |                      |  | 673959   |            |    |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> |                      |  |  |            |    |

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|   |   |                                  |                                       |
|---|---|----------------------------------|---------------------------------------|
| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875 | Application or Docket Number<br><b>12/173,747</b> | Filing Date<br><b>07/15/2008</b> | <input type="checkbox"/> To be Mailed |
|---|---|----------------------------------|---------------------------------------|

| APPLICATION AS FILED – PART I   |   |              | OTHER THAN SMALL ENTITY                          |          |           |          |
|---|---|--------------|--|----------|-----------|----------|
|   | (Column 1)  | (Column 2)   | SMALL ENTITY <input checked="" type="checkbox"/> | OR       |           |          |
| FOR   | NUMBER FILED  | NUMBER EXTRA | RATE (\$)  | FEE (\$) | RATE (\$) | FEE (\$) |
| <input type="checkbox"/> BASIC FEE<br><small>(37 CFR 1.16(a), (b), or (c))</small>        | N/A   | N/A          | N/A  |          | N/A       |          |
| <input type="checkbox"/> SEARCH FEE<br><small>(37 CFR 1.16(k), (l), or (m))</small>       | N/A   | N/A          | N/A  |          | N/A       |          |
| <input type="checkbox"/> EXAMINATION FEE<br><small>(37 CFR 1.16(o), (p), or (q))</small>  | N/A   | N/A          | N/A  |          | N/A       |          |
| TOTAL CLAIMS<br><small>(37 CFR 1.16(i))</small>   | minus 20 =  | *            | X \$ =   |          | X \$ =    |          |
| INDEPENDENT CLAIMS<br><small>(37 CFR 1.16(h))</small>                                     | minus 3 =   | *            | X \$ =   |          | X \$ =    |          |
| <input type="checkbox"/> APPLICATION SIZE FEE<br><small>(37 CFR 1.16(s))</small>          | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |              |  |          |           |          |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small> |   |              |  |          |           |          |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                 |   |              | TOTAL  |          | TOTAL     |          |

| APPLICATION AS AMENDED – PART II |   |                                  |                                    |               | OTHER THAN SMALL ENTITY |                     |           |                     |
|----------------------------------|---|----------------------------------|------------------------------------|---------------|-------------------------|---------------------|-----------|---------------------|
|                                  | (Column 1)  | (Column 2)                       | (Column 3)                         |               | SMALL ENTITY            | OR                  |           |                     |
| AMENDMENT                        | <b>06/16/2011</b>   | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$)               | ADDITIONAL FEE (\$) | RATE (\$) | ADDITIONAL FEE (\$) |
|                                  | Total <small>(37 CFR 1.16(i))</small>   | * 33                             | Minus                              | ** 23         | =                       | 10                  | X \$ =    |                     |
|                                  | Independent <small>(37 CFR 1.16(h))</small>   | * 6                              | Minus                              | *** 3         | =                       | 3                   | X \$ =    |                     |
|                                  | <input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>                           |                                  |                                    |               |                         |                     |           |                     |
|                                  | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small> |                                  |                                    |               |                         |                     |           |                     |
|                                  |   |                                  |                                    |               | TOTAL ADD'L FEE         | <b>590</b>          | OR        | TOTAL ADD'L FEE     |

|           |   |                                  |                                    |               |                 |                     |           |                     |
|-----------|---|----------------------------------|------------------------------------|---------------|-----------------|---------------------|-----------|---------------------|
|           | (Column 1)  | (Column 2)                       | (Column 3)                         |               | SMALL ENTITY    | OR                  |           |                     |
| AMENDMENT |   | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$)       | ADDITIONAL FEE (\$) | RATE (\$) | ADDITIONAL FEE (\$) |
|           | Total <small>(37 CFR 1.16(i))</small>   | *                                | Minus                              | **            | =               |                     | X \$ =    |                     |
|           | Independent <small>(37 CFR 1.16(h))</small>   | *                                | Minus                              | ***           | =               |                     | X \$ =    |                     |
|           | <input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>                           |                                  |                                    |               |                 |                     |           |                     |
|           | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small> |                                  |                                    |               |                 |                     |           |                     |
|           |   |                                  |                                    |               | TOTAL ADD'L FEE |                     | OR        | TOTAL ADD'L FEE     |

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:  
 /DIANE WILLIAMS/

This collection of information is required by 37 CFR 1.16. 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 1.14. This collection is estimated to take 12 minutes 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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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|  |  |
|--|--|
| <b>Form 1449 (Modified)</b>                          | <b>Serial No.: 12/173,747</b>            |
|  | <b>Atty. Docket No.: EQUI0016</b>        |
| <b>Information Disclosure Statement By Applicant</b> | <b>First Named Inventor: Sean BARGER</b> |
|  | <b>Art Unit: 2455</b>                    |
|  | <b>Confirmation No.: 7377</b>            |
| <b>(Use Several Sheets if Necessary)</b>             | <b>Filing Date: July 15, 2008</b>        |

**U.S. Patent Documents**

| <b>Examiner Initials</b> | <b>No.</b> | <b>Patent No.</b> | <b>Issue Date</b> | <b>Patentee</b>     | <b>Filing Date</b> |
|--------------------------|------------|-------------------|-------------------|---------------------|--------------------|
|                          | 1          | 5,845,279         | 12/1998           | Garofalakis, et al. |                    |
|                          |            |                   |                   |                     |                    |
|                          |            |                   |                   |                     |                    |
|                          |            |                   |                   |                     |                    |
|                          |            |                   |                   |                     |                    |

**Published U.S. Patent Application**

| <b>Examiner Initials</b> | <b>No.</b> | <b>Publication No.</b> | <b>Publication Date</b> | <b>Applicant</b> |
|--------------------------|------------|------------------------|-------------------------|------------------|
|                          | 2          | 2009/0254672           | 10/2009                 | Zhang            |
|                          | 3          | 2010/0153495           | 06/2010                 | Barger, et al.   |
|                          | 4          | 2009/0089422           | 04/2009                 | Barger, et al.   |

**Foreign Patent or Published Foreign Patent Application**

| <b>Examiner Initials</b> | <b>No.</b> | <b>Document No.</b> | <b>Publication Date</b> | <b>Applicant</b> |
|--------------------------|------------|---------------------|-------------------------|------------------|
|                          |            |                     |                         |                  |
|                          |            |                     |                         |                  |
|                          |            |                     |                         |                  |

**Non-Patent Literature Documents**

| <b>Examiner Initials</b> | <b>No.</b> | <b>Author, Title, Date, Place (e.g. Journal) of Publication</b> |
|--------------------------|------------|---|
|                          |            |   |
|                          |            |   |
|                          |            |   |

Examiner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Electronic Acknowledgement Receipt

|   |                                 |
|---|---------------------------------|
| <b>EFS ID:</b>                              | 10418769                        |
| <b>Application Number:</b>                  | 12173747                        |
| <b>International Application Number:</b>    |                                 |
| <b>Confirmation Number:</b>                 | 7377                            |
| <b>Title of Invention:</b>                  | Automated Media Delivery System |
| <b>First Named Inventor/Applicant Name:</b> | Sean Barger                     |
| <b>Customer Number:</b>                     | 22862                           |
| <b>Filer:</b>                               | Michael Glenn/Christine Ort     |
| <b>Filer Authorized By:</b>                 | Michael Glenn                   |
| <b>Attorney Docket Number:</b>              | EQUI0016                        |
| <b>Receipt Date:</b>                        | 29-JUN-2011                     |
| <b>Filing Date:</b>                         | 15-JUL-2008                     |
| <b>Time Stamp:</b>                          | 17:04:01                        |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)     |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

### File Listing:

| Document Number | Document Description | File Name                   | File Size(Bytes)/<br>Message Digest                               | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-----------------------------|---|------------------|------------------|
| 1               |                      | EQUI0016-IDS-2011-06-29.pdf | 428915<br><small>9775b6cd9a20ce0066148e20be7ab2185469faaf</small> | yes              | 3                |

| <b>Multipart Description/PDF files in .zip description</b>  |  |              |            |
|---|--|--------------|------------|
| <b>Document Description</b>   |  | <b>Start</b> | <b>End</b> |
| Transmittal Letter  |  | 1            | 2          |
| Information Disclosure Statement (IDS) Form (SB08)  |  | 3            | 3          |
| <b>Warnings:</b>  |  |              |            |
| <b>Information:</b>   |  |              |            |
| <b>Total Files Size (in bytes):</b>   |  | 428915       |            |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</b></p> |  |              |            |



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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First Named Inventor : Sean BARGER  
Serial No. : 12/173,747  
Filed : July 15, 2008  
Art Unit : 2455  
Confirmation Number : 7377  
Examiner : Charles C. Murphy  
Title : Automated Media Delivery System  
Attorney Docket No. : EQUI0016

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June 29, 2011

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT

Examiner:

This Information Disclosure Statement is submitted:

- under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
- under 37 CFR 1.97(c) together with either a:  
 Certification under 37 CFR 1.97(e), or  
 a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- under 37 CFR 1.97(d) together with a:  
 Certification under 37 CFR 1.97(e), and  
 a \$180.00 fee under 37 CFR 1.17(p).  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

(X) The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 07-1445 (Order No.EQUI0016).

(X) Applicant(s) submit herewith PTO Form 1449 (Modified) -- Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

It is requested that the information disclosed herein be made of record in this application.

Respectfully Submitted,



Michael A. Glenn  
Reg. No. 30,176

Customer No. 22862



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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

12/173,747 07/15/2008 Sean Barger EQUI0016 7377

22862 7590 06/26/2012

GLENN PATENT GROUP
3475 EDISON WAY, SUITE L
MENLO PARK, CA 94025

Table with 1 column: EXAMINER

MURPHY, CHARLES C

Table with 2 columns: ART UNIT, PAPER NUMBER

2455

Table with 2 columns: NOTIFICATION DATE, DELIVERY MODE

06/26/2012 ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ptomatters@glemm-law.com

|                              |                                      |                                      |  |
|------------------------------|--------------------------------------|--------------------------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b><br>12/173,747 | <b>Applicant(s)</b><br>BARGER ET AL. |  |
|                              | <b>Examiner</b><br>CHARLES MURPHY    | <b>Art Unit</b><br>2455              |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1)  Responsive to communication(s) filed on 16 June 2011.
- 2a)  This action is **FINAL**.
- 2b)  This action is non-final.
- 3)  An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_\_; the restriction requirement and election have been incorporated into this action.
- 4)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 5)  Claim(s) 1-3,5-13,15-20 and 22-36 is/are pending in the application.
  - 5a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 6)  Claim(s) \_\_\_\_\_ is/are allowed.
- 7)  Claim(s) 1-3,5-13,15-20 and 22-36 is/are rejected.
- 8)  Claim(s) \_\_\_\_\_ is/are objected to.
- 9)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 10)  The specification is objected to by the Examiner.
- 11)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.
  - Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
  - Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    - a)  All   b)  Some \* c)  None of:
      - 1.  Certified copies of the priority documents have been received.
      - 2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
      - 3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1)  Notice of References Cited (PTO-892)
- 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3)  Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 06/29/2011.
- 4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5)  Notice of Informal Patent Application
- 6)  Other: \_\_\_\_\_.

***Detailed Action***

This Office Action is responsive to the Amendment filed on 06/16/2011. Claims 1, 11, and 19 have been amended. Claims 1-3, 5-13, 15-20 and 22-36 remain pending for examination. Claims 4, 14, and 21 have been canceled from examination by applicant.

***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/16/2011 has been entered.

***Claim Objections***

Claims 28 and 29 are objected to because of the following informalities: Claims 28 and 29 are duplicate to claims 7 and 8 respectively. Appropriate correction is required.

### Information Disclosure Statement

The information disclosure statement (IDS) submitted was filed on 06/29/2011. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

- 1. Claims 19, 20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. US Patent 6,463,445 (hereinafter referred to as Suzuki)**
- 2. Regarding claim 19 Suzuki teaches a non-transitory computer-readable medium comprising:**

receiving multi-media data in a first format; transmitting said multi-media data to an output device; and (*Suzuki teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format. (Suzuki, col. 6, lines 20-55; col. 15, lines 7-25)*)

automatically transcoding, at the time of the request and without input by a network administrator, said multi-media data into a plurality of formats

based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats that are different from said first format, while said multi-media data is transmitted to said output device, wherein said transcoder is configured for changing each of: a resolution of said multi-media data based on resolution capabilities of at least two output devices, a frame rate of said multi-media data based on frame rate capabilities of at least two output devices, and a compression format of said multi-media data based on compression capabilities of at least two output devices. (*Suzuki teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on a client device and to transcode the request media to said format. It is also very common for the frame rate and resolution to change when changing video formats and display formats for various devices*) (**Suzuki, col. 7, lines 20-35; col. 8, lines 24-65**) It is well known and obvious to one of ordinary skill in the art that multiple clients can request the same media data in different formats. Because the requested media in the system of **Suzuki** is transcoded to specified formats for requesting clients, regardless of the base media format stored in the data server, it would be obvious that if various devices with different media requirements requested the same media, the system of **Suzuki**

*would have the requested media file outputted in the correct format to the requesting devices. )*

3. Regarding claims 20 **Suzuki** further teaches the non-transitory computer-readable medium of claim 19, wherein:

*said transmitting said multi-media data to an output device comprises transmitting said multi-media data to at least one of: a display device or a storage device. (**Suzuki** transmitting video to clients which display the video on a local display device) (**Suzuki, col. 6, lines 35-67**)*

4. Regarding claims 22 **Suzuki** further teaches the non-transitory computer-readable medium of claim 19, further comprising:

*transmitting said transcoded multi-media data in said alternate format to an external device. (**Suzuki** teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted in the desired format to requesting client devices. ) (**Suzuki, col. 6, lines 35-67**)*

5. **Claims 1-2, 5, 7-8, 11-12, 15, 17-18, 24-26, 28-32, 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. US Patent 6,463,445**



**(hereinafter referred to as Suzuki) in view of Bhagwat et al. US Patent 6,563,517 (hereinafter referred to as Bhagwat) in further view of Krishnaswamy et al. US Patent 6,909,708 (hereinafter referred to as Krishnaswamy)**

6. Regarding claim 1, **Suzuki** teaches an non transitory computer program product comprising:

receiving multi-media data in a first format; (*Suzuki teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format*) (**Suzuki, col. 6, lines 20-55**)

receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities; (*Suzuki teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. Because the requested media in the system of Suzuki is formatted to specified clients, regardless of the base media format stored in the data server, it would be obvious that various devices with different media requirements would be able to request the same media and have it outputted in the correct format to requesting devices.* ) (**Suzuki, col. 6, lines 55-67**)

automatically transcoding, at the time of the request and without input by a network administrator, said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said multi-media data based on the resolution capabilities of the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices; and. (**Suzuki** teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on a client device and to transcode the request media to said format. It is also very common for the frame rate and resolution to change when changing video formats and display formats for various devices) (**Suzuki, col. 7, lines 20-35; col. 8, lines 24-65**)

**Suzuki** does not teach:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.

In an analogous art, **Bhagwat** teaches:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format. (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(**Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Bhagwat** and **Suzuki** before him or her, to modify **Suzuki** to include the teachings of **Bhagwat** because this would create a more dynamic and flexible transcoding system by allowing the dynamic adjustment of transcoding parameters (**Bhagwat, col. 3, lines 25-30**)

1. Regarding claims 2, , **Suzuki-Bhagwat** further teaches the method of claim 1, wherein:

said multi-media data comprises at least one of: video data, audio data or digital pictures. (*Suzuki teaches the media can be a video or picture or audio*) (**Suzuki, col. 6, lines 35-55**)

2. Regarding claims 5, **Suzuki-Bhagwat** further teaches the method of claim 1, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a display device. (*Suzuki transmitting video to clients which display the video on a local display device*) (**Suzuki, col. 6, lines 35-67**)

3. Regarding claims 7, **Suzuki-Bhagwat** further teaches the method of claim 1, comprising:

transmitting said transcoded multi-media data in said alternate format to an external device. (*Suzuki teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted in the desired format to requesting client devices.*) (**Suzuki, col. 6, lines 35-67**)

4. Regarding claim 8, **Suzuki-Bhagwat** does not explicitly teach:

wherein said external device comprises a portable media player.

However, **Suzuki-Bhagwat** does teach

sending converted video data to client computers. (***Suzuki, col. 6, lines 35-67***)

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

5. Regarding claim 11, **Suzuki** teaches a system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving multi-media data in a first format and for transmitting said multi-media data to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and (***Suzuki teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested***

*format. (Suzuki, col. 6, lines 20-55) It is well known in the art for multiple clients can request the same media data in different formats. Because the requested media in the system of Suzuki is formatted to specified clients, regardless of the base media format stored in the data server, it would be obvious that various devices with different media requirements would be able to request the same media and have it outputted in the correct format to requesting devices. )*

a transcoder, coupled to said controller and said request parser, for automatically transcoding, at the time of said request, without input by a network administrator, said multimedia data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of output devices are different from said first format, wherein said transcoder is configured for: changing a resolution of said multi-media data based on the resolution capabilities the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities the at least two output devices. (Suzuki teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on a client

*device and to transcode the request media to said format. It is also very common for the frame rate and resolution to change when changing video formats and display formats for various devices) (Suzuki, col. 7, lines 20-35; col. 8, lines 24-65)*

**Suzuki** does not teach:

and simultaneously transcode said multi-media data into a plurality of formats while said multi-media data is transmitted to said output device,

In an analogous art, **Bhagwat** does teach:

and simultaneously transcode said multi-media data into a plurality of formats while said multi-media data is transmitted to said output device, (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Bhagwat** and **Suzuki** before him or her, to modify **Suzuki** to include the teachings of **Bhagwat** because this would create a more dynamic and flexible transcoding system by allowing the dynamic adjustment of transcoding parameters (Bhagwat, col. 3, lines 25-30)

6. Regarding claims 12 **Suzuki -Bhagwat** further teaches the system of claim 11, wherein:

said multi-media data comprises at least one of: video data, audio data or digital pictures. (*Suzuki teaches the media can be a video or picture or audio*) (**Suzuki, col. 6, lines 35-55**)

7. Regarding claims 15 **Suzuki -Bhagwat** further teaches the system of claim 11, wherein:

said output device comprises a display device. (*Suzuki transmitting video to clients which display the video on a local display device*) (**Suzuki, col. 6, lines 35-67**)

8. Regarding claims 17 **Suzuki -Bhagwat** further teaches the system of claim 11, wherein:

one or more interfaces for transmitting said transcoded multi-media data in said alternate format to an external device. (*Suzuki teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. The video can be converted into various digital formats*)



*including MPEG or H.263 which is then transmitted in the desired format to requesting client devices. ) (Suzuki, col. 6, lines 35-67)*

9. Regarding claim 18 **Suzuki -Bhagwat** does not explicitly teach:  
said external device comprises a portable media player.

However, **Suzuki -Bhagwat** does teach

sending converted video data to client computers *(Suzuki, col. 6, lines 35-67)*

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

10. Regarding claim 24 , **Suzuki** teaches a method comprising:

receiving multi-media data in a first format; receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags; *(Suzuki teaches a data*

*access server used to receive media files from a multimedia server and transcode media files into a requested format. (Suzuki, col. 6, lines 20-55) Suzuki also teaches sending a content information signal and a client information signal to a data server. This content information signal can include a pointer or an URL to a requested media and is coupled with the Client information signal which includes various transcoding and performance parameters of a requesting client.(Suzuki, col. 6, lines 20-67; col. 7, lines 13-22 and 36-55) It is well known and obvious to one of ordinary skill in the art that multiple clients can request the same media data in different formats. Because the requested media in the system of Suzuki is transcoded to specified formats for requesting clients, regardless of the base media format stored in the data server, it would be obvious that if various devices with different media requirements requested the same media, the system of Suzuki would have the requested media file outputted in the correct format to the requesting devices. )*

*automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags,(Suzuki teaches sending a content information signal and a client information signal to a data server. This content information signal can include a pointer or an URL to a requested media and is coupled with the Client information*

*signal which includes various transcoding and performance parameters of a requesting client which are used to determine the correct format for the requesting device. (Suzuki, col. 6, lines 20-67; col. 7, lines 13-22 and 36-55)*

automatically transcoding, at the time of the request and without input by a network administrator, said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said multi-media data based on the resolution capabilities of the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices; and *(Suzuki teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on a client device and to transcode the request media to said format. It is also very common for the frame rate and resolution to change when changing video formats and display formats for various devices) (Suzuki, col. 7, lines 20-35; col. 8, lines 24-65)*

**Suzuki** does not teach:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.

In an analogous art, **Bhagwat** teaches:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(**Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Bhagwat** and **Suzuki** before him or her, to modify **Suzuki** to include the teachings of **Bhagwat** because this would create a more dynamic and flexible transcoding system by allowing the dynamic adjustment of transcoding parameters (**Bhagwat, col. 3, lines 25-30**)

11. Regarding claims 25 **Suzuki -Bhagwat** further teaches the method of claim 24, wherein:

said multi-media data comprises at least one of: video data, audio data or digital pictures. (*Suzuki teaches the media can be a video or picture or audio*) (**Suzuki, col. 6, lines 35-55**)

12. Regarding claims 26 **Suzuki -Bhagwat** further teaches the method of claim 24, wherein:

transmitting said multi-media data to a display device. (*Suzuki transmitting video to clients which display the video on a local display device*) (**Suzuki, col. 6, lines 35-67**)

13. Regarding claims 28 **Suzuki -Bhagwat** further teaches the method of claim 1, wherein:

transmitting said transcoded multi-media data in said alternate format to an external device. (*Suzuki teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted in the desired format to requesting client devices.*) (**Suzuki, col. 6, lines 35-67**)

14. Regarding claims 29 **Suzuki -Bhagwat Suzuki-Bhagwat** does not explicitly teach:

wherein said external device comprises a portable media player.

However, **Suzuki-Bhagwat** does teach

sending converted video data to client computers. (**Suzuki, col. 6, lines 35-67**)

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

15. Regarding claim 30 , **Suzuki** teaches a system comprising:

a controller for receiving multi-media data in a first format and for transmitting said multi-media data to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and (**Suzuki teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format. (Suzuki, col. 6, lines 20-55)** It is well known and obvious to one of

*ordinary skill in the art that multiple clients can request the same media data in different formats. Because the requested media in the system of **Suzuki** is transcoded to specified formats for requesting clients, regardless of the base media format stored in the data server, it would be obvious that if various devices with different media requirements requested the same media, the system of **Suzuki** would have the requested media file outputted in the correct format to the requesting devices. )*

a request parser configured for receiving a request from a client for transmitting said multi-media data to one or more output devices, wherein at least two devices from said one or more output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags, and for automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags; (**Suzuki teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format. (Suzuki, col. 6, lines 20-55) Suzuki also teaches sending a content information signal and a client information signal to a data server. This content information signal can include a pointer or an URL to a requested media and is coupled with the Client information signal which includes various transcoding and**

*performance parameters of a requesting client. (**Suzuki**, col. 6, lines 20-67; col. 7, lines 13-22 and 36-55) It is well known and obvious to one of ordinary skill in the art that multiple clients can request the same media data in different formats. Because the requested media in the system of **Suzuki** is transcoded to specified formats for requesting clients, regardless of the base media format stored in the data server, it would be obvious that if various devices with different media requirements requested the same media, the system of **Suzuki** would have the requested media file outputted in the correct format to the requesting devices. )*

a transcoder, coupled to said controller and said request parser, for automatically transcoding, at the time of said request, without input by a network administrator, said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, and wherein said plurality of output devices are different from said first format, wherein said transcoder is configured for changing a resolution of said multi-media data based on the resolution capabilities the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities the at least two output devices, and changing a compression format of said multi-media



data based on the compression capabilities the at least two output devices. (**Suzuki** teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on a client device and to transcode the request media to said format. It is also very common for the frame rate and resolution to change when changing video formats and display formats for various devices) (**Suzuki, col. 7, lines 20-35; col. 8, lines 24-65**)

**Suzuki** does not teach:

transcoding simultaneously said multi-media data into a plurality of formats while said multi-media data is transmitted to said output device,

In an analogous art, **Bhagwat** teaches:

transcoding simultaneously said multi-media data into a plurality of formats while said multi-media data is transmitted to said output device,  
(**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(**Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Bhagwat** and **Suzuki**

before him or her, to modify **Suzuki** to include the teachings of **Bhagwat** because this would create a more dynamic and flexible transcoding system by allowing the dynamic adjustment of transcoding parameters (**Bhagwat, col. 3, lines 25-30**)

- 16.** Regarding claims 31 **Suzuki -Bhagwat** further teaches the system of claim 30, wherein:

said multi-media data comprises at least one of: video data, audio data or digital pictures. (*Suzuki teaches the media can be a video or picture or audio*) (**Suzuki, col. 6, lines 35-55**)

- 17.** Regarding claims 32 **Suzuki -Bhagwat** further teaches the system of claim 30, wherein:

said output device comprises a display device. (*Suzuki transmitting video to clients which display the video on a local display device*) (**Suzuki, col. 6, lines 35-67**)

- 18.** Regarding claims 34 **Suzuki -Bhagwat** further teaches the system of claim 30, comprising:

one or more interfaces for transmitting said transcoded multi-media data in said alternate format to an external device. (*Suzuki teaches a user sending a request for content from a client to a server system. It is well*

*known in the art for multiple clients can request the same media data in different formats. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted in the desired format to requesting client devices. ) (Suzuki, col. 6, lines 35-67)*

19. Regarding claims 35 **Suzuki-Bhagwat** does not explicitly teach:

wherein said external device comprises a portable media player.

However, **Suzuki-Bhagwat** does teach

sending converted video data to client computers. **(Suzuki, col. 6, lines 35-67)**

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

20. Regarding claim 36 , **Suzuki** teaches a non-transitory computer readable medium comprising:

receiving multi-media data in a first format; receiving a request for said multi-media data to a plurality of output devices, wherein at least two

devices from said plurality of output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags; (**Suzuki teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format. (Suzuki, col. 6, lines 20-55; col. 15, lines 1-50)** It is well known and obvious to one of ordinary skill in the art that multiple clients can request the same media data in different formats. Because the requested media in the system of **Suzuki** is transcoded to specified formats for requesting clients, regardless of the base media format stored in the data server, it would be obvious that if various devices with different media requirements requested the same media, the system of **Suzuki** would have the requested media file outputted in the correct format to the requesting devices. **Suzuki** also teaches sending a content information signal and a client information signal to a data server. This content information signal can include a pointer or an URL to a requested media and is coupled with the Client information signal which includes various transcoding and performance parameters of a requesting client.(**Suzuki, col. 6, lines 20-67; col. 7, lines 13-22 and 36-55)**)

automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags, (**Suzuki teaches a**

*data access server used to receive media files from a multimedia server and transcode media files into a requested format. (Suzuki, col. 6, lines 20-55) Suzuki also teaches sending a content information signal and a client information signal to a data server. This content information signal can include a pointer or an URL to a requested media and is coupled with the Client information signal which includes various transcoding and performance parameters of a requesting client.(Suzuki, col. 6, lines 20-67; col. 7, lines 13-22 and 36-55)*

automatically transcoding, at the time of the request and without input by a network administrator, said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said multi-media data based on the resolution capabilities of the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices; and(Suzuki teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on

*a client device and to transcode the request media to said format. It is also very common for the frame rate and resolution to change when changing video formats and display formats for various devices) (Suzuki, col. 7, lines 20-35; col. 8, lines 24-65)*

**Suzuki** does not teach:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.

In an analogous art, **Bhagwat** teaches:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format. (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(**Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24)**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Bhagwat** and **Suzuki** before him or her, to modify **Suzuki** to include the teachings of **Bhagwat** because this would create a more dynamic and flexible transcoding

system by allowing the dynamic adjustment of transcoding parameters  
(**Bhagwat, col. 3, lines 25-30**)

**7. Claims 3, 6, 9-10, 13, 16, 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. US Patent 6,463,445 (hereinafter referred to as Suzuki) in view of Bhagwat et al. US Patent 6,563,517 (hereinafter referred to as Bhagwat) in further view of Krishnaswamy et al. US Patent 6,909,708 (hereinafter referred to as Krishnaswamy)**

**21.** Regarding claims 3 **Suzuki-Bhagwat** does not teach:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

In an analogous art, **Krishnaswamy** teaches:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.  
(**Krishnaswamy** teaches receiving analog video to be converted. The video can be transcoded into various digital formats including MPEG or H.263)  
(**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and

**Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

22. Regarding claims 6, **Suzuki-Bhagwat- Krishnaswamy** further teaches the method of claim 1, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)



23. Regarding claims 9 **Suzuki-Bhagwat- Krishnaswamy** further teaches the method of claim 1, wherein:

said multi-media data in said first format is received from a service provider. (**Krishnaswamy** teaches receiving the video content from any content source or from MCI (the provider).)(**Krishnaswamy, col. 134, lines 55-67**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

24. Regarding claims 10 **Suzuki-Bhagwat- Krishnaswamy** further teaches the method of claim 1, wherein:

said multi-media data in said first format is received from a local content source. (**Krishnaswamy** teaches receiving the video content from any content source or from MCI (the provider).)(**Krishnaswamy, col. 134, lines 55-67**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and

**Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

25. Regarding claims 13 **Suzuki-Bhagwat- Krishnaswamy** further teaches the system of claim 11, wherein:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format (**Krishnaswamy** teaches receiving analog video to be converted. The video can be transcoded into various digital formats including MPEG or H.263) (**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

26. Regarding claims 16 **Suzuki-Bhagwat- Krishnaswamy** further teaches the system of claim 11, wherein:

said output device comprises a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

27. Regarding claims 33 **Suzuki –Bhagwat- Krishnaswamy** further teaches the method of claim 24, wherein:

said output device comprises a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

**8. Claims 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. US Patent 6,463,445 (hereinafter referred to as Suzuki) in view of Krishnaswamy et al. US Patent 6,909,708 (hereinafter referred to as Krishnaswamy)**

**28.** Regarding claims 23 **Suzuki** does not teach:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format

In an analogous art, **Krishnaswamy** teaches:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format (**Krishnaswamy** teaches receiving analog video to be converted. The video can be transcoded into various digital formats including MPEG or H.263) (**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki** and **Krishnaswamy** before him or her, to modify **Suzuki** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

### ***Response to Arguments***

Applicant's arguments with respect to claims have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHARLES MURPHY whose telephone number is

Art Unit: 2455

(571)270-5444. The examiner can normally be reached on 8AM - 5PM Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHARLES MURPHY/  
Examiner, Art Unit 2455

/EMMANUEL L. MOISE/  
Supervisory Patent Examiner, Art Unit 2455

|                                   |                                       |   |             |
|-----------------------------------|---------------------------------------|---|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>12/173,747 | Applicant(s)/Patent Under<br>Reexamination<br>BARGER ET AL. |             |
|                                   | Examiner<br>CHARLES MURPHY            | Art Unit<br>2455  | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name                | Classification |
|---|--|-----------------|---------------------|----------------|
| * | A US-6,463,445                                   | 10-2002         | Suzuki et al.       | 1/1            |
| * | B US-6,909,708                                   | 06-2005         | Krishnaswamy et al. | 370/352        |
| * | C US-6,563,517                                   | 05-2003         | Bhagwat et al.      | 715/735        |
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|   | E US-  |                 |                     |                |
|   | F US-  |                 |                     |                |
|   | G US-  |                 |                     |                |
|   | H US-  |                 |                     |                |
|   | I US-  |                 |                     |                |
|   | J US-  |                 |                     |                |
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|   | L US-  |                 |                     |                |
|   | M US-  |                 |                     |                |


**FOREIGN PATENT DOCUMENTS**

| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
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|   | O  |                 |         |      |                |
|   | P  |                 |         |      |                |
|   | Q  |                 |         |      |                |
|   | R  |                 |         |      |                |
|   | S  |                 |         |      |                |
|   | T  |                 |         |      |                |

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| * | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
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|   | X   |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>BARGER ET AL. |
|  | <b>Examiner</b><br><br>CHARLES MURPHY          | <b>Art Unit</b><br><br>2455   |

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| Class    | Subclass                                    | Date      | Examiner       |
| 709      | 227 226 223 219 206 204 203                 | 4/6/2010  | Charles Murphy |
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| 370      | 480 467 465 389 356 353 352 289 286 260 252 | 6/13/2012 | Charles Murphy |
| 709      | 247 236 227 226 223 219 206 204 203         | 6/13/2012 | Charles Murphy |

| SEARCH NOTES           |           |                |
|------------------------|-----------|----------------|
| Search Notes           | Date      | Examiner       |
| East                   | 4/6/2010  | Charles Murphy |
| Searched East          | 9/23/2010 | Charles Murphy |
| Consulted Quang Nguyen | 9/23/2010 | Charles Murphy |
| Searched East          | 3/12/2011 | Charles Murphy |
| Searched East          | 6/13/2012 | Charles Murphy |

| INTERFERENCE SEARCH |          |      |          |
|---------------------|----------|------|----------|
| Class               | Subclass | Date | Examiner |
|                     |          |      |          |

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| /CHARLES MURPHY/<br>Examiner.Art Unit 2455 |  |
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| <b>Form 1449 (Modified)</b>                          | <b>Serial No.: 12/173,747</b>            |
|  | <b>Atty. Docket No.: EQUI0016</b>        |
| <b>Information Disclosure Statement By Applicant</b> | <b>First Named Inventor: Sean BARGER</b> |
|  | <b>Art Unit: 2455</b>                    |
|  | <b>Confirmation No.: 7377</b>            |
| <b>(Use Several Sheets if Necessary)</b>             | <b>Filing Date: July 15, 2008</b>        |

**U.S. Patent Documents**

| Examiner Initials | No. | Patent No. | Issue Date | Patentee            | Filing Date |
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| Examiner Initials | No. | Publication No. | Publication Date | Applicant      |
|-------------------|-----|-----------------|------------------|----------------|
| /C.M./            | 2   | 2009/0254672    | 10/2009          | Zhang          |
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| Examiner Initials | No. | Document No. | Publication Date | Applicant |
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|-------------------|-----|--|
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|                   |     |  |

Examiner's Signature:           /Charles Murphy/           Date:           06/13/2012          

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--|------------------|---------|---------------------|
| S1    | 1    | ("20090254672").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | OFF     | 2010/10/07<br>14:44 |
| S2    | 74   | ("5088052"   "5355472"   "5442771"  <br>"5530852"   "5701451"   "5708845"  <br>"5710918"   "5737619"   "5745908"  <br>"5758110"   "5761555"   "5761655"  <br>"5793964"   "5819261"   "5822436"  <br>"5845084"   "5845299"   "5860068"  <br>"5860073"   "5861881"   "5862325"  <br>"5864337"   "5870552"   "5880740"  <br>"5884337"   "5890170"   "5890170"  <br>"5895476"   "5895476"   "5895477"  <br>"5903892"   "5937160"   "5943680"  <br>"5943680"   "5956737"   "5956737"  <br>"6009436"   "6456305"   "6484149"  <br>"6563517"   "6591280"   "6591280"  <br>"6623529"   "6623529").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/10/07<br>14:48 |
| S3    | 2    | S2 (transcod\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/10/07<br>14:49 |
| S4    | 74   | ("5088052"   "5355472"   "5442771"  <br>"5530852"   "5701451"   "5708845"  <br>"5710918"   "5737619"   "5745908"  <br>"5758110"   "5761555"   "5761655"  <br>"5793964"   "5819261"   "5822436"  <br>"5845084"   "5845299"   "5860068"  <br>"5860073"   "5861881"   "5862325"  <br>"5864337"   "5870552"   "5880740"  <br>"5884337"   "5890170"   "5890170"  <br>"5895476"   "5895476"   "5895477"  <br>"5903892"   "5937160"   "5943680"  <br>"5943680"   "5956737"   "5956737"  <br>"6009436"   "6456305"   "6484149"  <br>"6563517"   "6591280"   "6591280"  <br>"6623529"   "6623529").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/10/07<br>14:51 |
| S5    | 1    | S4 (transcod\$4 same cache)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/10/07<br>14:51 |
| S6    | 34   | (transcod\$4) same (content or media or<br>file) near4 (concurrent\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;                                     | AND              | ON      | 2010/10/07<br>17:40 |

## EAST Search History

|     |      |  |  |     |    |                     |
|-----|------|--|--|-----|----|---------------------|
|     |      |  | EPO; JPO;<br>DERWENT;<br>IBM_TDB   |     |    |                     |
| S7  | 0    | (transcod\$4) same (content or media or file) near4 (concurrent\$3) @ad<"19991021"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:42 |
| S8  | 0    | (transcod\$4) same (content or media or file) near4 (concurrent\$3) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:42 |
| S9  | 15   | (transcod\$4) (content or media or file) near4 (concurrent\$3) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:42 |
| S10 | 10   | (transcod\$4) (content or media or file) same (deliver\$3 or send\$3 or transmit\$3) same (concurrent\$3 or simultan\$4) @ay<"1999"                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:43 |
| S11 | 0    | (transcod\$4 same parameter) (content or media or file) same (deliver\$3 or send\$3 or transmit\$3) same (concurrent\$3 or simultan\$4) @ay<"1999" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:18 |
| S12 | 2709 | (content or media or file) same (deliver\$3 or send\$3 or transmit\$3) same (concurrent\$3 or simultan\$4) @ay<"1999"                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:25 |
| S13 | 763  | (content or media or file) near5 (deliver\$3 or send\$3 or transmit\$3) same (concurrent\$3 or simultan\$4) @ay<"1999"                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:25 |
| S14 | 184  | (content or media or file) near5 (deliver\$3 or send\$3 or transmit\$3) near5 (concurrent\$3 or simultan\$4) @ay<"1999"                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:25 |
| S15 | 41   | S14 (transcod\$3 or convert)   | US-PGPUB;<br>USPAT;  | AND | ON | 2010/10/07<br>18:26 |

EAST Search History

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|-----|-----|---|--|-----|-----|---------------------|
|     |     |   | USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        |     |     |                     |
| S16 | 1   | S14 (transcod\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:26 |
| S17 | 25  | S14 (media.ti.)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:27 |
| S18 | 3   | (content or media or file) near5<br>(transcod\$3 or convert\$3) same (deliver\$3<br>or send\$3 or transmit\$3) near5<br>(concurrent\$3 or simultan\$4) @ay<"1999"                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:30 |
| S19 | 157 | (content or media or file) near5<br>(transcod\$3 or convert\$3) (deliver\$3 or<br>send\$3 or transmit\$3) near5 (concurrent\$3<br>or simultan\$4) @ay<"1999"                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:30 |
| S20 | 6   | S19 (media.ti.)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:30 |
| S21 | 22  | (content or media or file or audio or video<br>or movie) near5 (transcod\$3 or convert\$3)<br>same (deliver\$3 or send\$3 or transmit\$3)<br>near5 (concurrent\$3 or simultan\$4)<br>@ay<"1999" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:31 |
| S22 | 1   | ("5845279").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2010/10/07<br>18:35 |
| S23 | 0   | S22 concurent\$3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:35 |
| S24 | 0   | S22 concurent\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;                                     | AND | ON  | 2010/10/07<br>18:35 |

## EAST Search History

|     |    |   |  |     |     |                     |
|-----|----|---|--|-----|-----|---------------------|
|     |    |   | EPO; JPO;<br>DERWENT;<br>IBM_TDB   |     |     |                     |
| S25 | 1  | S22 concurrent\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:35 |
| S26 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:10 |
| S27 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary or foundation) @ay<"1999"                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:10 |
| S28 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary or foundation or prilimnary) @ay<"1999"                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:11 |
| S29 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary or foundation or preliminary) @ay<"1999"                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:12 |
| S30 | 0  | (transcod\$4) near5 (profile) same (content or media or file) near4 (base or primary or foundation or preliminary) @ay<"1999" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:13 |
| S31 | 1  | (transcod\$4) near5 (profile) same (content or media or file) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:13 |
| S32 | 1  | ("6359902").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/17<br>17:35 |
| S33 | 0  | S32 cache   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;            | AND | ON  | 2011/03/17<br>17:35 |

## EAST Search History

|     |   |  |  |     |     |                     |
|-----|---|--|--|-----|-----|---------------------|
|     |   |  | IBM_TDB  |     |     |                     |
| S34 | 1 | ("6563517").PN.                        | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>15:22 |
| S35 | 1 | ("5845279").PN.                        | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>15:23 |
| S36 | 1 | ("6909708").PN.                        | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>15:23 |
| S37 | 3 | S34 or S35 or S36                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22<br>15:23 |
| S38 | 0 | S37 cache same media                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22<br>15:23 |
| S39 | 2 | S37 cache                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22<br>15:23 |
| S40 | 1 | S37 cache same transcode\$4            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22<br>15:24 |
| S41 | 1 | ("6563517").PN.                        | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>16:33 |
| S42 | 1 | ("6909708").PN.                        | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>16:33 |
| S43 | 1 | S41 preferences same request           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22<br>16:50 |
| S44 | 0 | (transcod\$4 adj profile) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18<br>20:46 |
| S45 | 2 | (transcod\$4 near5 profile) @ay<"1999" | US-PGPUB;<br>USPAT;  | AND | ON  | 2011/11/18<br>20:57 |

|     |     |  |  |     |     |                     |
|-----|-----|--|--|-----|-----|---------------------|
|     |     |  | USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        |     |     |                     |
| S46 | 106 | US-1182225-\$.DID. OR US-6147977-\$.DID. OR US-7149893-\$.DID. OR US-6829591-\$.DID. OR US-6442589-\$.DID. OR US-5327486-\$.DID. OR US-6892230-\$.DID. OR US-6748569-\$.DID. OR US-7221658-\$.DID. OR US-5400020-\$.DID. OR US-5623260-\$.DID. OR US-5657010-\$.DID. OR US-5668543-\$.DID. OR US-5708780-\$.DID. OR US-5796394-\$.DID. OR US-5870549-\$.DID. OR US-5875437-\$.DID. OR US-5937161-\$.DID. OR US-6029148-\$.DID. OR US-6052673-\$.DID. OR US-6073166-\$.DID. OR US-6151624-\$.DID. OR US-6154738-\$.DID. OR US-6157945-\$.DID. OR US-6185603-\$.DID. OR US-6212550-\$.DID. OR US-6216165-\$.DID. OR US-6219714-\$.DID. OR US-6278936-\$.DID. OR US-6314402-\$.DID. OR US-6313760-\$.DID. OR US-6317060-\$.DID. OR US-6363254-\$.DID. OR US-6363323-\$.DID. OR US-6411891-\$.DID. OR US-6415207-\$.DID. OR US-5899995-\$.DID. OR US-6314434-\$.DID. OR US-5742763-\$.DID. OR US-6513019-\$.DID. OR US-5073852-\$.DID. OR US-6542515-\$.DID. OR US-5805810-\$.DID. OR US-5819046-\$.DID. OR US-5579472-\$.DID. OR US-5828314-\$.DID. OR US-6167409-\$.DID. OR US-6347340-\$.DID. OR US-6430272-\$.DID. OR US-6442591-\$.DID. OR US-6438583-\$.DID. OR US-6836792-\$.DID. OR WO-0176119-\$.DID. OR WO-0175604-\$.DID. OR WO-0176264-\$.DID. OR WO-0180130-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2011/11/18<br>20:59 |
| S47 | 18  | S46 profile  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18<br>20:59 |
| S48 | 139 | (transcoding near5 profile)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18<br>21:00 |
| S49 | 3   | (transcoding near5 profile) @ay<"2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18<br>21:01 |
| S50 | 1   | ("7117361").PN.  | US-PGPUB;<br>USPAT;  | OR  | OFF | 2011/11/18<br>21:02 |

EAST Search History

|     |     |   |  |     |    |                      |
|-----|-----|---|--|-----|----|----------------------|
|     |     |   | USOCR  |     |    |                      |
| S51 | 1   | S50 profile   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/11/18:<br>21:02 |
| S52 | 355 | ((transcod\$4 or translation) near5 profile)<br>@ay< "2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/11/18:<br>21:04 |
| S53 | 49  | ((transcod\$4 or translation) near profile)<br>@ay< "2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/11/18:<br>21:04 |
| S54 | 94  | US-5088052-\$.DID. OR US-5355472-<br>\$.DID. OR US-5442771-\$.DID. OR US-<br>5530852-\$.DID. OR US-5701451-\$.DID.<br>OR US-5708845-\$.DID. OR US-5710918-<br>\$.DID. OR US-5737619-\$.DID. OR US-<br>5745908-\$.DID. OR US-5758110-\$.DID.<br>OR US-5761655-\$.DID. OR US-5793964-<br>\$.DID. OR US-5819261-\$.DID. OR US-<br>5822436-\$.DID. OR US-5845084-\$.DID.<br>OR US-5845279-\$.DID. OR US-5845299-<br>\$.DID. OR US-5860068-\$.DID. OR US-<br>5860073-\$.DID. OR US-5861881-\$.DID.<br>OR US-5862325-\$.DID. OR US-5864337-<br>\$.DID. OR US-5870552-\$.DID. OR US-<br>5880740-\$.DID. OR US-5890170-\$.DID.<br>OR US-5895476-\$.DID. OR US-5895477-<br>\$.DID. OR US-5903892-\$.DID. OR US-<br>5937160-\$.DID. OR US-5943680-\$.DID.<br>OR US-5956737-\$.DID. OR US-6009436-<br>\$.DID. OR US-6456305-\$.DID. OR US-<br>6483851-\$.DID. OR US-6484149-\$.DID.<br>OR US-6563517-\$.DID. OR US-6591280-<br>\$.DID. OR US-6623529-\$.DID. OR US-<br>6909708-\$.DID. OR US-7284201-\$.DID.<br>OR US-7477688-\$.DID. OR US-7673063-<br>\$.DID. OR US-20080155230-\$.DID. OR<br>US-20090254672-\$.DID. OR US-5303198-<br>\$.DID. OR EP-0747842-\$.DID. OR EP-<br>0747842121996-\$.DID. OR EP-0782085-<br>\$.DID. OR EP-0782085071997-\$.DID. OR<br>EP-0818907-\$.DID. OR EP-0843276-\$.DID.<br>OR EP-0843276051998-\$.DID. OR EP-<br>0876034-\$.DID. OR EP-0876034111998-<br>\$.DID. OR EP-0883068-\$.DID. OR US-<br>1211998-\$.DID. OR EP-0886409-\$.DID.<br>OR EP-0895171-\$.DID. OR EP-0926607-<br>\$.DID. OR EP-0926607061999-\$.DID. OR<br>EP-0949571-\$.DID. OR EP-<br>0949571101999-\$.DID. OR WO-97149252-<br>\$.DID. OR US-1211997-\$.DID. OR WO-<br>9840842-\$.DID. OR WO-9840842091998- | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON | 2012/05/18:<br>22:18 |



EAST Search History


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|-----|----|---|--|-----|-----|------------------|
|     |    | \$.DID. OR WO-9843177-\$.DID. OR WO-9843177101998-\$.DID. OR US-9830041-\$.DID. |  |     |     |                  |
| S55 | 0  | S54 (transcode same automatic\$5 near5 client)                                  | US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT; IBM_TDB      | AND | ON  | 2012/05/18 22:21 |
| S56 | 1  | S54 (transcode same automatic\$5 )  | US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT; IBM_TDB      | AND | ON  | 2012/05/18 22:21 |
| S57 | 42 | (transcod\$4 near5 automatic\$4) @ay<"2000"                                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2012/05/18 22:24 |
| S58 | 1  | S57 (parameter near5 client) @ay<"2000"   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2012/05/18 22:24 |
| S59 | 2  | S57 (parameter near5 (client or device or user)) @ay<"2000"                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2012/05/18 22:26 |
| S60 | 7  | S57 (ident\$6 near5 (client or device or user)) @ay<"2000"                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON  | 2012/05/18 22:45 |
| S61 | 2  | ("6563517").PN.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR  | OFF | 2012/05/18 23:06 |

**EAST Search History (Interference)**

<This search history is empty>

**6/ 13/ 2012 8:51:47 PM**

**C:\Users\cmurphy1\Documents\EAST\Workspaces\12173747.wsp**

|  |  |   |
|--|--|---|
| <b><i>Index of Claims</i></b><br><br> | <b>Application/Control No.</b><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br>BARGER ET AL. |
|  | <b>Examiner</b><br>CHARLES MURPHY          | <b>Art Unit</b><br>2455   |

|   |                 |
|---|-----------------|
| ✓ | <b>Rejected</b> |
| = | <b>Allowed</b>  |

|   |                   |
|---|-------------------|
| - | <b>Cancelled</b>  |
| ÷ | <b>Restricted</b> |

|   |                     |
|---|---------------------|
| N | <b>Non-Elected</b>  |
| I | <b>Interference</b> |

|   |                 |
|---|-----------------|
| A | <b>Appeal</b>   |
| O | <b>Objected</b> |

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

| CLAIM |          | DATE       |            |            |            |  |  |  |  |  |  |
|-------|----------|------------|------------|------------|------------|--|--|--|--|--|--|
| Final | Original | 04/06/2010 | 09/23/2010 | 03/12/2011 | 06/13/2012 |  |  |  |  |  |  |
|       | 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       |            |            |            | ✓          |  |  |  |  |  |  |
|       | 29       |            |            |            | ✓          |  |  |  |  |  |  |
|       | 30       |            |            |            | ✓          |  |  |  |  |  |  |
|       | 31       |            |            |            | ✓          |  |  |  |  |  |  |
|       | 32       |            |            |            | ✓          |  |  |  |  |  |  |
|       | 33       |            |            |            | ✓          |  |  |  |  |  |  |
|       | 34       |            |            |            | ✓          |  |  |  |  |  |  |
|       | 35       |            |            |            | ✓          |  |  |  |  |  |  |
|       | 36       |            |            |            | ✓          |  |  |  |  |  |  |

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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First Named Inventor : Sean BARGER  
Serial No. : 12/173,747  
Filed : July 15, 2008  
Art Unit : 2455  
Confirmation Number : 7377  
Examiner : Charles C. MURPHY  
Title : Automated Media Delivery System  
Attorney Docket No. : EQUI0016

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September 26, 2012

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO OFFICE ACTION**

Applicant submits this Response to the Office Action dated June 26, 2012 in connection with the above-identified patent application.

A **Listing of Claims** begins on Page 2 of this paper, and

**Remarks** begin on Page 13 of this paper.

The Commissioner is authorized to charge any fees that may be due and to credit any overpayments to Deposit Account 07-1445 (Order No. EQUI0016). Applicant considers this document to be filed in a timely manner.

## LISTING OF CLAIMS

1. (Currently Amended) A method for providing simultaneous transcoding of multi-media data, comprising:

receiving a multi-media file data in a first format;

receiving a request for said multi-media file data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities;

automatically transcoding, at the time of the request and without input by a network administrator, data within said multi-media file data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file data based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file data based on the compression capabilities of the at least two output devices; and

transmitting simultaneously with said transcoding said multi-media file data to each output device from among said plurality of output devices in a compatible format.

2. (Currently Amended) The method of claim 1, wherein said data within said multi-media file data comprises at least one of: video data, audio data or digital pictures.

3. (Original) The method of claim 1, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

4. (Cancelled).

5. (Currently Amended) The method of claim 1, wherein said transmitting said multi-media file data to an output device comprises transmitting said multi-media file data to a display device.

6. (Currently Amended) The method of claim 1, wherein said transmitting said multi-media file data to an output device comprises transmitting said multi-media file data to a storage device.

7. (Currently Amended) The method of claim 1, further comprising:

transmitting said transcoded multi-media file data in said alternate format to an external device.

8. (Original) The method of claim 7, wherein said external device comprises a portable media player.

9. (Currently Amended) The method of claim 1, wherein said multi-media file data in said first format is received from a service provider.

10. (Currently Amended) The method of claim 1, wherein said multi-media file data in said first format is received from a local content source.

11. (Currently Amended) A system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving a multi-media file data in a first format and for transmitting said multi-media file data to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and

a transcoder, coupled to said controller and said request parser, for automatically transcoding, at the time of said request, without input by a network administrator, and simultaneously data within said multi-media file data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of output devices are different from said first format, while said multi-media file data is transmitted to said output device, wherein said transcoder is configured for:

changing a resolution of said data within said multi-media file data based on the resolution capabilities the at least two output devices,

changing a frame rate of said data within said multi-media file data based on the frame rate capabilities the at least two output devices, and

changing a compression format of said data within said multi-media file data based on the compression capabilities the at least two output devices.

12. (Currently Amended) The system of claim 11, wherein said data within said multi-media file data comprises at least one of: video data, audio data or digital pictures.

13. (Original) The system of claim 11, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

14. (Cancelled).

15. (Original) The system of claim 11, wherein said output device comprises a display device.

16. (Original) The system of claim 11, wherein said output device comprises a storage device.

17. (Currently Amended) The system of claim 11, further comprising:

one or more interfaces for transmitting said transcoded multi-media file data in said alternate format to an external device.

18. (Original) The system of claim 17, wherein said external device comprises a portable media player.

19. (Currently Amended) A non-transitory computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the steps of a method for providing simultaneous transcoding of multi-media data, comprising:

receiving a multi-media file data in a first format;

transmitting said multi-media file data to an output device; and

automatically transcoding, at the time of the request and without input by a network administrator, data within said multi-media file data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format, while said data within said multi-media file data is transmitted to said output device, wherein said transcoder is configured for changing each of: a resolution of said data within said multi-media file data based on resolution capabilities of at least two output devices, a frame rate of said data within said multi-media file data based on frame rate capabilities of at least two output devices, and a compression format of said data within said multi-media file data based on compression capabilities of at least two output devices.

20. (Currently Amended) The non-transitory computer readable medium of claim 19, wherein said transmitting said multi-media file data to an output device comprises



transmitting said multi-media file data to at least one of: a display device or a storage device.

21. (Cancelled).

22. (Currently Amended) The non-transitory computer readable medium of claim 19, further comprising:

transmitting said transcoded multi-media file data in said alternate format to an external device.

23. (Previously Presented) The non-transitory computer readable medium of claim 19, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

24. (Currently Amended) A method for providing simultaneous transcoding of multi-media data, comprising:

receiving a multi-media file data in a first format;

receiving a request for said multi-media file data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags;

automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags,

automatically transcoding, at the time of the request and without input by a network administrator, data within said multi-media file data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file data based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file data based on the compression capabilities of the at least two output devices; and

transmitting simultaneously with said transcoding said multi-media file data to each output device from among said plurality of output devices in a compatible format.

25. (Currently Amended) The method of claim 24, wherein said data within said multi-media file data comprises at least one of: video data, audio data or digital pictures.

26. (Currently Amended) The method of claim 24, wherein said transmitting said multi-media file data to an output device comprises transmitting said multi-media file data to a display device.

27. (Currently Amended) The method of claim 24, wherein said transmitting said multi-media file data to an output device comprises transmitting said multi-media file data to a storage device.

28. (Currently Amended) The method of claim ~~[[1]]~~ 24, further comprising:

transmitting said transcoded multi-media ~~file data~~ in said alternate format to an external device.

29. (Currently Amended) The method of claim ~~[[7]]~~ 28, wherein said external device comprises a portable media player.

30. (Currently Amended) A system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving a multi-media ~~file data~~ in a first format and for transmitting said multi-media ~~file data~~ to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and

a request parser configured for receiving a request from a client for transmitting said multi-media ~~file data~~ to one or more output devices, wherein at least two devices from said one or more output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags, and for automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags;

a transcoder, coupled to said controller and said request parser, for automatically transcoding, at the time of said request, without input by a network administrator, and simultaneously data within said multi-media ~~file data~~ into a plurality of formats based on

one or more formats of any output device from among the plurality of output devices, wherein said plurality of output devices are different from said first format, while said multi-media file data is transmitted to said output device, wherein said transcoder is configured for

changing a resolution of said data within said multi-media file data based on the resolution capabilities the at least two output devices,

changing a frame rate of said data within said multi-media file data based on the frame rate capabilities the at least two output devices, and

changing a compression format of said data within said multi-media file data based on the compression capabilities the at least two output devices.

31. (Currently Amended) The system of claim 30, wherein said data within said multi-media file data comprises at least one of: video data, audio data or digital pictures.

32. (Previously Presented) The system of claim 30, wherein said output device comprises a display device.

33. (Previously Presented) The system of claim 30, wherein said output device comprises a storage device.

34. (Currently Amended) The system of claim 30, further comprising:

one or more interfaces for transmitting said transcoded multi-media file data in said alternate format to an external device.

35. (Previously Presented) The system of claim 34, wherein said external device comprises a portable media player.

36. (Currently Amended) A non-transitory computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the steps of a method for providing simultaneous transcoding of multi-media data, comprising:

receiving a multi-media file data in a first format;

receiving a request for said multi-media file data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags;

automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags,

automatically transcoding, at the time of the request and without input by a network administrator, data within said multi-media file data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file data based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file data based on the frame rate capabilities of the at least two output devices, and changing a compression format

of said data within said multi-media file ~~data~~ based on the compression capabilities of the at least two output devices; and

transmitting simultaneously with said transcoding said multi-media file ~~data~~ to each output device from among said plurality of output devices in a compatible format.

## REMARKS

Applicants respectfully request further examination and reconsideration in view of the above amendments and arguments set forth fully below.

### CLAIM OBJECTIONS

In the herein submitted claims, the dependency of Claims 28 and 29 has been corrected to address the Examiner's claim objections.

### CLAIM REJECTIONS – 35 USC § 103

Claims 1, 19, and 22 are rejected under 35 USC § 103(a) as being unpatentable over Suzuki *et al* (USPN 6,463,445); and

Claims 1, 2, 5, 7, 8, 11, 12, 15, 17, 18, 24-26, 28-32, and 34-36 are rejected under 35 USC § 103(a) as being unpatentable over Suzuki *et al* (USPN 6,463,445) in view of Bhagwat *et al* (USPN 6,563,517); and

Claims 3, 6, 9, 10, 13, 16, 33, and 34 are rejected under 35 USC § 103(a) as being unpatentable over Suzuki *et al* (USPN 6,463,445) in view of Bhagwat *et al* (USPN 6,909,708) in further view of Krishnaswamy (USPN 6,909,708).

Applicant thanks the Examiner for his courtesy and assistance during an interview that was held on August 24, 2012. During the interview, Applicant discussed Suzuki and Bhagwat, in particular pointing out that both Suzuki and Bhagwat failed to teach or suggest transcoding of multiple parameters, *e.g.* frame rate, resolution, and compression format as asserted in the Office Action (for example, Suzuki is only concerned with converting a video stream, for example from MPEG to DV); that neither Suzuki nor Bhagwat taught or suggested targeting “at least two output devices” simultaneously; and that the invention transcodes files and not streams. On this latter point, the Examiner indicated that a claim amendment setting forth that the invention concerned files would overcome the present rejection under 35 USC § 103 with regard to Applicant’s independent claims. Accordingly, Applicant submits herewith a revised set of claims that are so amended. Applicant has amended the dependent claims for consistency. As such, the present rejection is deemed overcome.

Applicant has sought to summarize the substance of the above-mentioned interview in good faith. Any errors or inaccuracy is entirely unintentional.

### **CONCLUSION**

Applicant respectfully posits that all objections to and rejections of the claims have been overcome. Accordingly, Applicant respectfully requests allowance. Should the Examiner deem it helpful he is encouraged to contact Applicant's attorney, Michael A. Glenn, at (650) 474-8400.



Application Serial No. 12/173,747

Docket No. EQUI0016

Respectfully submitted,

/Julia A. Thomas/

Julia A. Thomas

Reg. No. 52,283

Customer No. 22862

|   |                        |                   |
|---|------------------------|-------------------|
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br>( Not for submission under 37 CFR 1.99) | Application Number     | 12173747          |
|   | Filing Date            | 2008-07-15        |
|   | First Named Inventor   | Sean Barger       |
|   | Art Unit               | 2455              |
|   | Examiner Name          | Charles C. Murphy |
|   | Attorney Docket Number | EQUI0016          |

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|                                      | 2       | 20040025176        |                        | 2004-02-05       | Franklin, et al.                                |  |
|                                      | 3       | 20050255852        |                        | 2005-11-17       | Steelberg, et al.                               |  |
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| Examiner Name          | Charles C. Murphy |
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| 5  | 20060127059 |  | 2006-06-15 | Fanning          |  |
| 6  | 20070061198 |  | 2007-03-15 | Ramer, et al.    |  |
| 7  | 20080195938 |  | 2008-08-14 | Tischer, et al.  |  |
| 8  | 20080205389 |  | 2008-08-28 | Fang, et al.     |  |
| 9  | 20080207182 |  | 2008-08-28 | Maharajh, et al. |  |
| 10 | 20090013347 |  | 2009-01-08 | Ahanger, et al.  |  |
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|   | Examiner Name          | Charles C. Murphy |            |
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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

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| Signature  | /Julia A. Thomas/ | Date (YYYY-MM-DD)   | 2012-09-26 |
| Name/Print | Julia A. Thomas   | Registration Number | 52283      |

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| <b>Application Number:</b>                     | 12173747                        |                 |               |                             |
| <b>Filing Date:</b>                            | 15-Jul-2008                     |                 |               |                             |
| <b>Title of Invention:</b>                     | Automated Media Delivery System |                 |               |                             |
| <b>First Named Inventor/Applicant Name:</b>    | Sean Barger                     |                 |               |                             |
| <b>Filer:</b>                                  | Michael Glenn/Christine Ortt    |                 |               |                             |
| <b>Attorney Docket Number:</b>                 | EQUI0016                        |                 |               |                             |
| Filed as Small Entity                          |                                 |                 |               |                             |
| <b>Utility under 35 USC 111(a) Filing Fees</b> |                                 |                 |               |                             |
| <b>Description</b>                             | <b>Fee Code</b>                 | <b>Quantity</b> | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
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| <b>Pages:</b>                                  |                                 |                 |               |                             |
| <b>Claims:</b>                                 |                                 |                 |               |                             |
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| <b>Extension-of-Time:</b>                      |                                 |                 |               |                             |

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| <b>Miscellaneous:</b>                   |          |          |        |                      |
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| <b>Application Number:</b>                  | 12173747                        |
| <b>International Application Number:</b>    |                                 |
| <b>Confirmation Number:</b>                 | 7377                            |
| <b>Title of Invention:</b>                  | Automated Media Delivery System |
| <b>First Named Inventor/Applicant Name:</b> | Sean Barger                     |
| <b>Customer Number:</b>                     | 22862                           |
| <b>Filer:</b>                               | Michael Glenn/Christine Ort     |
| <b>Filer Authorized By:</b>                 | Michael Glenn                   |
| <b>Attorney Docket Number:</b>              | EQUI0016                        |
| <b>Receipt Date:</b>                        | 26-SEP-2012                     |
| <b>Filing Date:</b>                         | 15-JUL-2008                     |
| <b>Time Stamp:</b>                          | 14:21:13                        |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)     |

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| 1  |  | 2012-09-26-Response-EQUI0016.pdf                      | 60913<br><small>dcd85300cfd0c9291bb7d4f1ada9d7eb6d6081b</small>  | yes                     | 15                      |
| <b>Multipart Description/PDF files in .zip description</b>   |  |   |  |                         |                         |
|  |  | <b>Document Description</b>                           | <b>Start</b>   | <b>End</b>              |                         |
|  |  | Amendment/Req. Reconsideration-After Non-Final Reject | 1  | 1                       |                         |
|  |  | Claims  | 2  | 12                      |                         |
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| 2  | Information Disclosure Statement (IDS) Form (SB08) | 2012-09-26-IDS-EQUI0016.pdf                           | 612909<br><small>9b77d117ca79923213e1a62fd6657cef6571bdc</small> | no                      | 5                       |
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| 3  | Fee Worksheet (SB06)                               | fee-info.pdf  | 30065<br><small>6a377bfc3dbb0ca4d824dd91e07ee2c7de77406</small>  | no                      | 2                       |
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|  | (Column 1)  | (Column 2)   | SMALL ENTITY <input checked="" type="checkbox"/> | OR       |    |           |          |
| FOR  | NUMBER FILED  | NUMBER EXTRA | RATE (\$)  | FEE (\$) | OR | RATE (\$) | FEE (\$) |
| <input type="checkbox"/> BASIC FEE<br><small>(37 CFR 1.16(a), (b), or (c))</small>           | N/A   | N/A          | N/A  |          |    | N/A       |          |
| <input type="checkbox"/> SEARCH FEE<br><small>(37 CFR 1.16(k), (l), or (m))</small>          | N/A   | N/A          | N/A  |          |    | N/A       |          |
| <input type="checkbox"/> EXAMINATION FEE<br><small>(37 CFR 1.16(o), (p), or (q))</small>     | N/A   | N/A          | N/A  |          |    | N/A       |          |
| TOTAL CLAIMS<br><small>(37 CFR 1.16(i))</small>  | minus 20 =  | *            | X \$ =   |          | OR | X \$ =    |          |
| INDEPENDENT CLAIMS<br><small>(37 CFR 1.16(h))</small>  | minus 3 =   | *            | X \$ =   |          |    | X \$ =    |          |
| <input type="checkbox"/> APPLICATION SIZE FEE<br><small>(37 CFR 1.16(s))</small>             | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |              |  |          |    |           |          |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT<br><small>(37 CFR 1.16(j))</small> |   |              |  |          |    |           |          |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                    |   |              | TOTAL  |          | OR | TOTAL     |          |

| APPLICATION AS AMENDED – PART II |   |                                  |                                    |               | OTHER THAN SMALL ENTITY |                     |    |                 |                     |
|----------------------------------|---|----------------------------------|------------------------------------|---------------|-------------------------|---------------------|----|-----------------|---------------------|
|                                  | (Column 1)  | (Column 2)                       | (Column 3)                         |               |                         |                     |    |                 |                     |
| AMENDMENT                        | <b>09/26/2012</b>   | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$)               | ADDITIONAL FEE (\$) | OR | RATE (\$)       | ADDITIONAL FEE (\$) |
|                                  | Total <small>(37 CFR 1.16(o))</small>   | * 33                             | Minus                              | ** 33         | =                       | 0                   | OR | X \$ =          |                     |
|                                  | Independent <small>(37 CFR 1.16(h))</small>   | * 6                              | Minus                              | ***6          | =                       | 0                   | OR | X \$ =          |                     |
|                                  | <input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>                           |                                  |                                    |               |                         |                     |    |                 |                     |
|                                  | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small> |                                  |                                    |               |                         |                     |    |                 |                     |
|                                  |   |                                  |                                    |               | TOTAL ADD'L FEE         | <b>0</b>            | OR | TOTAL ADD'L FEE |                     |

|           |   |                                  |                                    |               |                 |                     |    |                 |                     |
|-----------|---|----------------------------------|------------------------------------|---------------|-----------------|---------------------|----|-----------------|---------------------|
|           | (Column 1)  | (Column 2)                       | (Column 3)                         |               |                 |                     |    |                 |                     |
| AMENDMENT |   | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$)       | ADDITIONAL FEE (\$) | OR | RATE (\$)       | ADDITIONAL FEE (\$) |
|           | Total <small>(37 CFR 1.16(i))</small>   | *                                | Minus                              | **            | =               |                     | OR | X \$ =          |                     |
|           | Independent <small>(37 CFR 1.16(h))</small>   | *                                | Minus                              | ***           | =               |                     | OR | X \$ =          |                     |
|           | <input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>                           |                                  |                                    |               |                 |                     |    |                 |                     |
|           | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small> |                                  |                                    |               |                 |                     |    |                 |                     |
|           |   |                                  |                                    |               | TOTAL ADD'L FEE |                     | OR | TOTAL ADD'L FEE |                     |

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".  
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:  
 /STANLEY JORDAN/

This collection of information is required by 37 CFR 1.16. 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 1.14. This collection is estimated to take 12 minutes 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: 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.

|  |                                      |                                      |  |
|--|--------------------------------------|--------------------------------------|--|
| <b>Applicant-Initiated Interview Summary</b> | <b>Application No.</b><br>12/173,747 | <b>Applicant(s)</b><br>BARGER ET AL. |  |
|  | <b>Examiner</b><br>CHARLES MURPHY    | <b>Art Unit</b><br>2455              |  |

All participants (applicant, applicant's representative, PTO personnel):

(1) CHARLES MURPHY. (3)\_\_\_\_\_.

(2) Michael A Glenn (Reg. 30,176). (4)\_\_\_\_\_.

Date of Interview: 08/248/2012.

Type:  Telephonic  Video Conference  
 Personal [copy given to:  applicant  applicant's representative]

Exhibit shown or demonstration conducted:  Yes  No.  
If Yes, brief description: \_\_\_\_\_.

Issues Discussed 101 112 102 103 Others  
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1.

Identification of prior art discussed: \_\_\_\_\_.

Substance of Interview  
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Examiner suggested adding amendments to overcome prior art. Specifically suggested adding limitations for creating a new transcoded file vs transcoding a bit stream and the act of appending the rest of a file onto an already transcoded file from a base version of said file.

**Applicant recordation instructions:** The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

**Examiner recordation instructions:** Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Attachment

|   |  |
|---|--|
| /CHARLES MURPHY/<br>Examiner, Art Unit 2455 |  |
|---|--|

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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www.uspto.gov

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

12/173,747 07/15/2008 Sean Barger EQUI0016 7377

22862 7590 02/06/2013

GLENN PATENT GROUP
3475 EDISON WAY, SUITE L
MENLO PARK, CA 94025

Table with 1 column: EXAMINER

MURPHY, CHARLES C

Table with 2 columns: ART UNIT, PAPER NUMBER

2455

Table with 2 columns: NOTIFICATION DATE, DELIVERY MODE

02/06/2013 ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ptomatters@glemm-law.com



***Detailed Action***

This Office Action is responsive to the Amendment filed on 09/26/2012. Claims 1-2, 5-7, 9-12, 17, 19-20, 22, 24-31, 34, and 36 have been amended. Claims 1-3, 5-13, 15-20, and 22-36 remain pending for examination. Claims 4, 14, and 21 have been withdrawn from examination by applicant.

***Examiner Note***

Although the parent application (09/425326) of the instant application has a priority date of 10/21/1999, the claim language of the instant application contains limitations that are not supported in this parent application. Instead, support of said limitations is found in application 11/269916, a continuation in part of application 09/425326. As such the priority date of application 11/269916, 11/07/05, is used as the priority date of the instant application.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

- 1. Claims 19, 20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. US Patent 6,463,445 (hereinafter referred to as Suzuki) in**



**further view of Lund et al. US Patent Application Publication 2005/0091311  
(hereinafter referred to as Lund)**

2. Regarding claim 19 **Suzuki** teaches a non-transitory computer-readable medium comprising:

receiving multi-media data in a first format; transmitting said multi-media data to an output device; and (*Suzuki teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format. (Suzuki, col. 6, lines 20-55; col. 15, lines 7-25)*)

automatically transcoding, at the time of the request and without input by a network administrator, data within said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats that are different from said first format, while said multi-media data is transmitted to said output device, (*Suzuki teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on a client device and to transcode the request media to said format. It is also very common for the frame rate and resolution to change when changing video formats and display formats for various devices) (Suzuki, col. 7,*

*lines 20-35; col. 8, lines 24-65) It is well known and obvious to one of ordinary skill in the art that multiple clients can request the same media data in different formats. Because the requested media in the system of **Suzuki** is transcoded to specified formats for requesting clients, regardless of the base media format stored in the data server, it would be obvious that if various devices with different media requirements requested the same media, the system of **Suzuki** would have the requested media file outputted in the correct format to the requesting devices. )*

**Suzuki** does not teach:

wherein said transcoder is configured for changing each of: a resolution of said data within multi-media file based on resolution capabilities of at least two output devices, a frame rate of said data within said multi-media data within on frame rate capabilities of at least two output devices, and a compression format of said data within said multi-media file based on compression capabilities of at least two output devices.

said multi-media data is a file

In an analogous art, **Lund** teaches:

wherein said transcoder is configured for changing each of: a resolution of said data within multi-media file based on resolution capabilities of at least two output devices, a frame rate of said data within said multi-media data within on frame rate capabilities of at least two output devices, and a compression format of said data within said multi-media file based on compression capabilities of at least two output devices. (*Lund teaches the ability to transmit parameters to a server running on a host. These parameters include client requirements frame rate, compression and resolution. These parameters can either be selected by the user or surveyed from the client by the application*)(**Lund, paragraphs 20, 113 and 144**)

said multi-media data is a file (*Lund teaches transforming image files based on client parameters*)(**Lund, paragraphs 20, 113 and 144**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki** and **Lund** before him or her, to modify **Suzuki** to include the teachings of **Lund** because this would allow users to adjust image resolution, compression, and frame rate based on the requirements of a client device. (**Lund, paragraphs 20**)

3. Regarding claims 20 **Suzuki-Lund** further teaches the non-transitory computer-readable medium of claim 19, wherein:

said transmitting said multi-media file to an output device comprises transmitting said multi-media data to at least one of: a display device or a storage device. (*Suzuki* transmitting video to clients which display the video on a local display device) (**Suzuki, col. 6, lines 35-67**)

4. Regarding claims 22 **Suzuki-Lund** further teaches the non-transitory computer-readable medium of claim 19, further comprising:

transmitting said transcoded multi-media file in said alternate format to an external device. (*Suzuki* teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted in the desired format to requesting client devices.) (**Suzuki, col. 6, lines 35-67**)

5. Claims 1-2, 5, 7-8, 11-12, 15, 17-18, 24-26, 28-32, 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. US Patent 6,463,445 (hereinafter referred to as Suzuki) in view of Bhagwat et al. US Patent 6,563,517 (hereinafter referred to as Bhagwat) in further view of Lund et al. US Patent Application Publication 2005/0091311 (hereinafter referred to as Lund)

6. Regarding claim 1, **Suzuki** teaches an non transitory computer program product comprising:

receiving multi-media data in a first format; (**Suzuki** teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format) (**Suzuki, col. 6, lines 20-55**)

receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities; (**Suzuki** teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. Because the requested media in the system of **Suzuki** is formatted to specified clients, regardless of the base media format stored in the data server, it would be obvious that various devices with different media requirements would be able to request the same media and have it outputted in the correct format to requesting devices. ) (**Suzuki, col. 6, lines 55-67**)

automatically transcoding, at the time of the request and without input by a network administrator, said multi-media data into a plurality of formats based on one or more formats of any output device from among the

plurality of output devices, wherein said plurality of formats are different from said first format. (**Suzuki** teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on a client device and to transcode the request media to said format.)  
(**Suzuki, col. 7, lines 20-35; col. 8, lines 24-65**)

**Suzuki** does not teach:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.

In an analogous art, **Bhagwat** teaches:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format. (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(**Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Bhagwat** and **Suzuki** before him or her, to modify **Suzuki** to include the teachings of **Bhagwat** because this would create a more dynamic and flexible transcoding system by allowing the dynamic adjustment of transcoding parameters (**Bhagwat, col. 3, lines 25-30**)

**Suzuki-Bhagwat** does not teach:

wherein said transcoding comprises each of: changing a resolution of said multi- media data based on the resolution capabilities of the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices; and

said multi-media data is a file

In an analogous art, **Lund** teaches:

wherein said transcoding comprises each of: changing a resolution of said multi- media data based on the resolution capabilities of the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities of the at least two output devices, and changing

a compression format of said multi-media data based on the compression capabilities of the at least two output devices; and (**Lund teaches the ability to transmit parameters to a server running on a host. These parameters include client requirements frame rate, compression and resolution. These parameters can either be selected by the user or surveyed from the client by the application**)(**Lund, paragraphs 20, 113 and 144**)

said multi-media data is a file (**Lund teaches transforming image files based on client parameters**)(**Lund, paragraphs 20, 113 and 144**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and **Lund** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Lund** because this would allow users to adjust image resolution, compression, and frame rate based on the requirements of a client device. (**Lund, paragraphs 20**)

7. Regarding claims 2, **Suzuki-Bhagwat-Lund** further teaches the method of claim 1, wherein:



said data within said multi-media file comprises at least one of: video data, audio data or digital pictures. (*Suzuki teaches the media can be a video or picture or audio*) (**Suzuki, col. 6, lines 35-55**)

8. Regarding claims 5, **Suzuki-Bhagwat-Lund** further teaches the method of claim 1, wherein:

said transmitting said multi-media file to an output device comprises transmitting said multi-media file to a display device. (*Suzuki transmitting video to clients which display the video on a local display device*) (**Suzuki, col. 6, lines 35-67**)

9. Regarding claims 7, **Suzuki-Bhagwat-Lund** further teaches the method of claim 1, comprising:

transmitting said transcoded multi-media file in said alternate format to an external device. (*Suzuki teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted in the desired format to requesting client devices.* ) (**Suzuki, col. 6, lines 35-67**)

10. Regarding claim 8, **Suzuki-Bhagwat-Lund** does not explicitly teach:

wherein said external device comprises a portable media player.

However, **Suzuki-Bhagwat-Lund** does teach

sending converted video data to client computers. (**Suzuki, col. 6, lines 35-67**)

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

11. Regarding claim 11, **Suzuki** teaches a system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving multi-media data in a first format and for transmitting said multi-media data to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and (**Suzuki teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested**

*format. (Suzuki, col. 6, lines 20-55) It is well known in the art for multiple clients can request the same media data in different formats. Because the requested media in the system of Suzuki is formatted to specified clients, regardless of the base media format stored in the data server, it would be obvious that various devices with different media requirements would be able to request the same media and have it outputted in the correct format to requesting devices. )*

a transcoder, coupled to said controller and said request parser, for automatically transcoding, at the time of said request, without input by a network administrator, said multimedia data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of output devices are different from said first format, *(Suzuki teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on a client device and to transcode the request media to said format. It is also very common for the frame rate and resolution to change when changing video formats and display formats for various devices) (Suzuki, col. 7, lines 20-35; col. 8, lines 24-65)*

**Suzuki** does not teach:

and simultaneously transcode data within said multi-media data into a plurality of formats while said multi-media data is transmitted to said output device,

In an analogous art, **Bhagwat** does teach:

and simultaneously transcode data within said multi-media data into a plurality of formats while said multi-media data is transmitted to said output device, (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(**Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Bhagwat** and **Suzuki** before him or her, to modify **Suzuki** to include the teachings of **Bhagwat** because this would create a more dynamic and flexible transcoding system by allowing the dynamic adjustment of transcoding parameters (**Bhagwat, col. 3, lines 25-30**)

**Suzuki-Bhagwat** does not teach:

wherein said transcoder is configured for: changing a resolution of said data within multi-media file based on the resolution capabilities the at least

two output devices, changing a frame rate of said data within of said multi-media file based on the frame rate capabilities the at least two output devices, and changing a compression format of said data within multi-media file based on the compression capabilities the at least two output devices.

said multi-media data is a file

In an analogous art, **Lund** teaches:

wherein said transcoder is configured for: changing a resolution of said data within multi-media file based on the resolution capabilities the at least two output devices, changing a frame rate of said data within of said multi-media file based on the frame rate capabilities the at least two output devices, and changing a compression format of said data within multi-media file based on the compression capabilities the at least two output devices. (***Lund** teaches the ability to transmit parameters to a server running on a host. These parameters include client requirements frame rate, compression and resolution. These parameters can either be selected by the user or surveyed from the client by the application*)(**Lund, paragraphs 20, 113 and 144**)

said multi-media data is a file (*Lund teaches transforming image files based on client parameters*)(**Lund, paragraphs 20, 113 and 144**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and **Lund** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Lund** because this would allow users to adjust image resolution, compression, and frame rate based on the requirements of a client device.(**Lund, paragraphs 20**)

**12.** Regarding claims 12 **Suzuki-Bhagwat-Lund** further teaches the system of claim 11, wherein:

said data within said multi-media file comprises at least one of: video data, audio data or digital pictures. (*Suzuki teaches the media can be a video or picture or audio*) (**Suzuki, col. 6, lines 35-55**)

**13.** Regarding claims 15 **Suzuki-Bhagwat-Lund** further teaches the system of claim 11, wherein:

said output device comprises a display device. (*Suzuki transmitting video to clients which display the video on a local display device*) (**Suzuki, col. 6, lines 35-67**)

14. Regarding claims 17 **Suzuki-Bhagwat-Lund** further teaches the system of claim 11, wherein:

one or more interfaces for transmitting said transcoded multi-media file in said alternate format to an external device. (*Suzuki teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted in the desired format to requesting client devices.*) (**Suzuki, col. 6, lines 35-67**)

15. Regarding claim 18 **Suzuki-Bhagwat-Lund** does not explicitly teach:

said external device comprises a portable media player.

However, **Suzuki-Bhagwat-Lund** does teach

sending converted video data to client computers (**Suzuki, col. 6, lines 35-67**)

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would

be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

**16.** Regarding claim 24 , **Suzuki** teaches a method comprising:

receiving multi-media data in a first format; receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags; (**Suzuki teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format. (Suzuki, col. 6, lines 20-55) Suzuki also teaches sending a content information signal and a client information signal to a data server. This content information signal can include a pointer or an URL to a requested media and is coupled with the Client information signal which includes various transcoding and performance parameters of a requesting client.(Suzuki, col. 6, lines 20-67; col. 7, lines 13-22 and 36-55) It is well known and obvious to one of ordinary skill in the art that multiple clients can request the same media data in different formats. Because the requested media in the system of Suzuki is transcoded to specified formats for requesting clients, regardless of the base media format stored in the data server, it would be**



*obvious that if various devices with different media requirements requested the same media, the system of **Suzuki** would have the requested media file outputted in the correct format to the requesting devices. )*

automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags, (**Suzuki** teaches sending a content information signal and a client information signal to a data server. This content information signal can include a pointer or an URL to a requested media and is coupled with the Client information signal which includes various transcoding and performance parameters of a requesting client which are used to determine the correct format for the requesting device. (**Suzuki, col. 6, lines 20-67; col. 7, lines 13-22 and 36-55**)

automatically transcoding, at the time of the request and without input by a network administrator, data within said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format (**Suzuki** teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display

*requested content on a client device and to transcode the request media to said format. It is also very common for the frame rate and resolution to change when changing video formats and display formats for various devices) (Suzuki, col. 7, lines 20-35; col. 8, lines 24-65)*

**Suzuki** does not teach:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.

In an analogous art, **Bhagwat** teaches:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Bhagwat** and **Suzuki** before him or her, to modify **Suzuki** to include the teachings of **Bhagwat** because this would create a more dynamic and flexible transcoding

system by allowing the dynamic adjustment of transcoding parameters  
**(Bhagwat, col. 3, lines 25-30)**

**Suzuki-Bhagwat** does not teach:

wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities of the at least two output devices; and

said multi-media data is a file

In an analogous art, **Lund** teaches:

wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities of the at least two output devices; and *(Lund teaches the ability to transmit parameters*

*to a server running on a host. These parameters include client requirements frame rate, compression and resolution. These parameters can either be selected by the user or surveyed from the client by the application)(Lund, paragraphs 20, 113 and 144)*

said multi-media data is a file (*Lund teaches transforming image files based on client parameters)(Lund, paragraphs 20, 113 and 144)*

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and **Lund** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Lund** because this would allow users to adjust image resolution, compression, and frame rate based on the requirements of a client device.*(Lund, paragraphs 20)*

**17.** Regarding claims 25 **Suzuki-Bhagwat-Lund** further teaches the method of claim 24, wherein:

said data within said multi-media file comprises at least one of: video data, audio data or digital pictures. (*Suzuki teaches the media can be a video or picture or audio) (Suzuki, col. 6, lines 35-55)*

**18.** Regarding claims 26 **Suzuki-Bhagwat-Lund** further teaches the method of claim 24, wherein:

transmitting said multi-media file to a display device. (***Suzuki** transmitting video to clients which display the video on a local display device*) (**Suzuki, col. 6, lines 35-67**)

**19.** Regarding claims 28 **Suzuki-Bhagwat-Lund** further teaches the method of claim 1, wherein:

transmitting said transcoded multi-media file in said alternate format to an external device. (***Suzuki** teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted in the desired format to requesting client devices. )*) (**Suzuki, col. 6, lines 35-67**)

**20.** Regarding claims 29 **Suzuki-Bhagwat-Lund** does not explicitly teach:

wherein said external device comprises a portable media player.

However, **Suzuki-Bhagwat-Lund** does teach

sending converted video data to client computers. (***Suzuki, col. 6, lines 35-67***)

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

**21.** Regarding claim 30 , **Suzuki** teaches a system comprising:

a controller for receiving multi-media data in a first format and for transmitting said multi-media data to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and (**Suzuki** teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format. (**Suzuki, col. 6, lines 20-55**) It is well known and obvious to one of ordinary skill in the art that multiple clients can request the same media data in different formats. Because the requested media in the system of **Suzuki** is transcoded to specified formats for requesting clients, regardless of the base media format stored in the data server, it would be obvious that if various devices with different media requirements requested the same media, the system of **Suzuki** would have the

*requested media file outputted in the correct format to the requesting devices. )*

a request parser configured for receiving a request from a client for transmitting said multi-media data to one or more output devices, wherein at least two devices from said one or more output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags, and for automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags; (**Suzuki teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format. (Suzuki, col. 6, lines 20-55) Suzuki also teaches sending a content information signal and a client information signal to a data server. This content information signal can include a pointer or an URL to a requested media and is coupled with the Client information signal which includes various transcoding and performance parameters of a requesting client.(Suzuki, col. 6, lines 20-67; col. 7, lines 13-22 and 36-55)** It is well known and obvious to one of ordinary skill in the art that multiple clients can request the same media data in different formats. Because the requested media in the system of **Suzuki** is transcoded to specified formats for requesting clients, regardless of the base media format stored in the data server, it would be

*obvious that if various devices with different media requirements requested the same media, the system of **Suzuki** would have the requested media file outputted in the correct format to the requesting devices. )*

a transcoder, coupled to said controller and said request parser, for automatically transcoding, at the time of said request, without input by a network administrator, said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, and wherein said plurality of output devices are different from said first format, *(**Suzuki** teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on a client device and to transcode the request media to said format. It is also very common for the frame rate and resolution to change when changing video formats and display formats for various devices) (**Suzuki**, col. 7, lines 20-35; col. 8, lines 24-65)*

**Suzuki** does not teach:

transcoding simultaneously data within said multi-media data into a plurality of formats while said multi-media data is transmitted to said output device,



In an analogous art, **Bhagwat** teaches:

transcoding simultaneously data within said multi-media data into a plurality of formats while said multi-media data is transmitted to said output device, (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )( **Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Bhagwat** and **Suzuki** before him or her, to modify **Suzuki** to include the teachings of **Bhagwat** because this would create a more dynamic and flexible transcoding system by allowing the dynamic adjustment of transcoding parameters (**Bhagwat, col. 3, lines 25-30**)

**Suzuki-Bhagwat** does not teach:

wherein said transcoder is configured for changing a resolution of said data within said multi-media file based on the resolution capabilities the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities the at least two output devices, and changing a compression format of said data within said multi-

media file based on the compression capabilities the at least two output devices.

said multi-media data is a file

In an analogous art, **Lund** teaches:

wherein said transcoder is configured for changing a resolution of said data within said multi-media file based on the resolution capabilities the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities the at least two output devices. *(Lund teaches the ability to transmit parameters to a server running on a host. These parameters include client requirements frame rate, compression and resolution. These parameters can either be selected by the user or surveyed from the client by the application)***(Lund, paragraphs 20, 113 and 144)**

said multi-media data is a file *(Lund teaches transforming image files based on client parameters)***(Lund, paragraphs 20, 113 and 144)**

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and **Lund** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Lund** because this would allow users to adjust image resolution, compression, and frame rate based on the requirements of a client device. (**Lund, paragraphs 20**)

**22.** Regarding claims 31 **Suzuki-Bhagwat-Lund** further teaches the system of claim 30, wherein:

said data within said multi-media file comprises at least one of: video data, audio data or digital pictures. (**Suzuki teaches the media can be a video or picture or audio**) (**Suzuki, col. 6, lines 35-55**)

**23.** Regarding claims 32 **Suzuki -Bhagwat** further teaches the system of claim 30, wherein:

said output device comprises a display device. (**Suzuki transmitting video to clients which display the video on a local display device**) (**Suzuki, col. 6, lines 35-67**)

**24.** Regarding claims 34 **Suzuki-Bhagwat-Lund** further teaches the system of claim 30, comprising:

one or more interfaces for transmitting said transcoded multi-media file in said alternate format to an external device. (**Suzuki** teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. The video can be converted into various digital formats including MPEG or H.263 which is then transmitted in the desired format to requesting client devices. ) (**Suzuki, col. 6, lines 35-67**)

**25.** Regarding claims 35 **Suzuki-Bhagwat-Lund** does not explicitly teach:

wherein said external device comprises a portable media player.

However, **Suzuki-Bhagwat-Lund** does teach

sending converted video data to client computers. (**Suzuki, col. 6, lines 35-67**)

It would be obvious to one of ordinary skill in the art at the time of the invention, that a portable computer, such as a laptop, would be capable of playing multimedia data and displaying it on the display device. Therefore, would be obvious to one of ordinary skill in the art at the time of the invention to realize that a portable computer is a portable media player.

**26.** Regarding claim 36 , **Suzuki** teaches a non-transitory computer readable medium comprising:

receiving multi-media data in a first format; receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags; (***Suzuki** teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format. (**Suzuki**, col. 6, lines 20-55; col. 15, lines 1-50)* It is well known and obvious to one of ordinary skill in the art that multiple clients can request the same media data in different formats. Because the requested media in the system of **Suzuki** is transcoded to specified formats for requesting clients, regardless of the base media format stored in the data server, it would be obvious that if various devices with different media requirements requested the same media, the system of **Suzuki** would have the requested media file outputted in the correct format to the requesting devices. **Suzuki** also teaches sending a content information signal and a client information signal to a data server. This content information signal can include a pointer or an URL to a requested media and is coupled with the Client information signal which includes various transcoding and performance

*parameters of a requesting client.(Suzuki, col. 6, lines 20-67; col. 7, lines 13-22 and 36-55)*

automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags, (**Suzuki teaches a data access server used to receive media files from a multimedia server and transcode media files into a requested format. (Suzuki, col. 6, lines 20-55) Suzuki also teaches sending a content information signal and a client information signal to a data server. This content information signal can include a pointer or an URL to a requested media and is coupled with the Client information signal which includes various transcoding and performance parameters of a requesting client.(Suzuki, col. 6, lines 20-67; col. 7, lines 13-22 and 36-55)**)

automatically transcoding, at the time of the request and without input by a network administrator, data within said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format (**Suzuki teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on a client device and to transcode the request media**)

*to said format. It is also very common for the frame rate and resolution to change when changing video formats and display formats for various devices) (Suzuki, col. 7, lines 20-35; col. 8, lines 24-65)*

**Suzuki does** not teach:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format.

In an analogous art, **Bhagwat** teaches:

transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format. (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(**Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24)**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Bhagwat** and **Suzuki** before him or her, to modify **Suzuki** to include the teachings of **Bhagwat** because this would create a more dynamic and flexible transcoding

system by allowing the dynamic adjustment of transcoding parameters  
**(Bhagwat, col. 3, lines 25-30)**

**Suzuki-Bhagwat** does not teach:

wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities of the at least two output devices; and

said multi-media data is a file

In an analogous art, **Lund** teaches:

wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities of the at least two output devices; and *(Lund teaches the ability to transmit parameters*



*to a server running on a host. These parameters include client requirements frame rate, compression and resolution. These parameters can either be selected by the user or surveyed from the client by the application)(Lund, paragraphs 20, 113 and 144)*

said multi-media data is a file (*Lund teaches transforming image files based on client parameters)(Lund, paragraphs 20, 113 and 144)*

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat** and **Lund** before him or her, to modify **Suzuki-Bhagwat** to include the teachings of **Lund** because this would allow users to adjust image resolution, compression, and frame rate based on the requirements of a client device.*(Lund, paragraphs 20)*

**27. Claims 3, 6, 9-10, 13, 16, 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. US Patent 6,463,445 (hereinafter referred to as Suzuki) in view of Bhagwat et al. US Patent 6,563,517 (hereinafter referred to as Bhagwat) in view of Lund et al. US Patent Application Publication 2005/0091311 (hereinafter referred to as Lund) in further view of Krishnaswamy et al. US Patent 6,909,708 (hereinafter referred to as Krishnaswamy)**

**28.** Regarding claims 3 **Suzuki-Bhagwat-Lund** does not teach:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

In an analogous art, **Krishnaswamy** teaches:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

(**Krishnaswamy** teaches receiving analog video to be converted. The video can be transcoded into various digital formats including MPEG or H.263)

(**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat-Lund** and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat-Lund** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection  
(**Krishnaswamy, col. 2, lines 60-63**)

**29.** Regarding claims 6, **Suzuki-Bhagwat-Lund-Krishnaswamy** further teaches the method of claim 1, wherein:

said transmitting said multi-media data to an output device comprises transmitting said multi-media data to a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat-Lund** and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat-Lund** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

**30.** Regarding claims 9 **Suzuki-Bhagwat-Lund-Krishnaswamy** further teaches the method of claim 1, wherein:

said multi-media data in said first format is received from a service provider. (**Krishnaswamy** teaches receiving the video content from any content source or from MCI (the provider).)(**Krishnaswamy, col. 134, lines 55-67**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat-Lund**

and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat-Lund** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

**31.** Regarding claims 10 **Suzuki-Bhagwat-Lund-Krishnaswamy** further teaches the method of claim 1, wherein:

said multi-media data in said first format is received from a local content source. (**Krishnaswamy** teaches receiving the video content from any content source or from MCI (the provider).)(**Krishnaswamy, col. 134, lines 55-67**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat-Lund** and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat-Lund** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

**32.** Regarding claims 13 **Suzuki-Bhagwat-Lund-Krishnaswamy** further teaches the system of claim 11, wherein:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format (**Krishnaswamy** teaches receiving analog video to be converted. The video can be transcoded into various digital formats including MPEG or H.263) (**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat-Lund** and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat-Lund** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

**33.** Regarding claims 16 **Suzuki-Bhagwat-Lund-Krishnaswamy** further teaches the system of claim 11, wherein:

said output device comprises a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat-Lund**

and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat-Lund** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

**34.** Regarding claims 33 **Suzuki-Bhagwat-Lund-Krishnaswamy** further teaches the method of claim 24, wherein:

said output device comprises a storage device. (**Krishnaswamy** teaches sending multi-media data to a server for either storage or transmission to another external device) (**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki-Bhagwat-Lund** and **Krishnaswamy** before him or her, to modify **Suzuki-Bhagwat-Lund** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

**35.** Claims 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. US Patent 6,463,445 (hereinafter referred to as Suzuki) in view of

**Lund et al. US Patent Application Publication 2005/0091311 (hereinafter referred to as Lund) in further view of Krishnaswamy et al. US Patent 6,909,708 (hereinafter referred to as Krishnaswamy)**

**36.** Regarding claims 23 **Suzuki-Lund** does not teach:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format

In an analogous art, **Krishnaswamy** teaches:

said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format (**Krishnaswamy** teaches receiving analog video to be converted. The video can be transcoded into various digital formats including MPEG or H.263) (**Krishnaswamy, col. 135, lines 22-35**)

At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of **Suzuki** and **Krishnaswamy** before him or her, to modify **Suzuki** to include the teachings of **Krishnaswamy** because this would create a system where users can manage and control a network while a network operator can maintain network quality and routing selection (**Krishnaswamy, col. 2, lines 60-63**)

### ***Response to Arguments***

Applicant's arguments have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHARLES MURPHY whose telephone number is



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(571)270-5444. The examiner can normally be reached on 8AM - 5PM Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHARLES MURPHY/  
Examiner, Art Unit 2455

/EMMANUEL L. MOISE/  
Supervisory Patent Examiner, Art Unit 2455

|                                   |                                       |  |             |
|-----------------------------------|---------------------------------------|--|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>12/173,747 | Applicant(s)/Patent Under Reexamination<br>BARGER ET AL. |             |
|                                   | Examiner<br>CHARLES MURPHY            | Art Unit<br>2455   | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name                | Classification |
|---|--|-----------------|---------------------|----------------|
| * | A US-2005/0091311                                | 04-2005         | Lund et al.         | 709/203        |
| * | B US-6,463,445                                   | 10-2002         | Suzuki et al.       | 1/1            |
| * | C US-6,909,708                                   | 06-2005         | Krishnaswamy et al. | 370/352        |
| * | D US-6,563,517                                   | 05-2003         | Bhagwat et al.      | 715/735        |
| E | US-  |                 |                     |                |
| F | US-  |                 |                     |                |
| G | US-  |                 |                     |                |
| H | US-  |                 |                     |                |
| I | US-  |                 |                     |                |
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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

12173747 - GAI: 2455

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| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br>( Not for submission under 37 CFR 1.99) | Application Number     | 12173747          |
|   | Filing Date            | 2008-07-15        |
|   | First Named Inventor   | Sean Barger       |
|   | Art Unit               | 2455              |
|   | Examiner Name          | Charles C. Murphy |
|   | Attorney Docket Number | EQUI0016          |

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|-------------------|---------|---------------|------------------------|------------|---|--|
| Examiner Initial* | Cite No | Patent Number | Kind Code <sup>1</sup> | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| /C.M./            | 1       | 7313361       |                        | 2007-12-25 | Steelberg, et al.                               |  |
| /C.M./            | 2       | 7406434       |                        | 2008-07-29 | Chang, et al.                                   |  |

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| /C.M./                               | 1       | 20030225568        |                        | 2003-12-04       | Salmonsens                                      |  |
| /C.M./                               | 2       | 20040025176        |                        | 2004-02-05       | Franklin, et al.                                |  |
| /C.M./                               | 3       | 20050255852        |                        | 2005-11-17       | Steelberg, et al.                               |  |
| /C.M./                               | 4       | 20050278794        |                        | 2005-12-15       | Leinonen, et al.                                |  |

|  |                        |                   |            |                      |
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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT<br/>( Not for submission under 37 CFR 1.99)</b> | Application Number     |                   | 12173747   | 12173747 - GAU: 2455 |
|  | Filing Date            |                   | 2008-07-15 |                      |
|  | First Named Inventor   | Sean Barger       |            |                      |
|  | Art Unit               | 2455              |            |                      |
|  | Examiner Name          | Charles C. Murphy |            |                      |
|  | Attorney Docket Number | EQUI0016          |            |                      |

|        |    |             |  |            |                  |  |
|--------|----|-------------|--|------------|------------------|--|
| /C.M./ | 5  | 20060127059 |  | 2006-06-15 | Fanning          |  |
| /C.M./ | 6  | 20070061198 |  | 2007-03-15 | Ramer, et al.    |  |
| /C.M./ | 7  | 20080195938 |  | 2008-08-14 | Tischer, et al.  |  |
| /C.M./ | 8  | 20080205389 |  | 2008-08-28 | Fang, et al.     |  |
| /C.M./ | 9  | 20080207182 |  | 2008-08-28 | Maharajh, et al. |  |
| /C.M./ | 10 | 20090013347 |  | 2009-01-08 | Ahanger, et al.  |  |
| /C.M./ | 11 | 20090240569 |  | 2009-09-24 | Ramer, et al.    |  |

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|  | Filing Date            |                   | 2008-07-15 |                      |
|  | First Named Inventor   | Sean Barger       |            |                      |
|  | Art Unit               | 2455              |            |                      |
|  | Examiner Name          | Charles C. Murphy |            |                      |
|  | Attorney Docket Number | EQUI0016          |            |                      |

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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|   | Filing Date            | 2008-07-15        |                      |
|   | First Named Inventor   | Sean Barger       |                      |
|   | Art Unit               | 2455              |                      |
|   | Examiner Name          | Charles C. Murphy |                      |
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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A certification statement is not submitted herewith.

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

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| Signature  | /Julia A. Thomas/ | Date (YYYY-MM-DD)   | 2012-09-26 |
| Name/Print | Julia A. Thomas   | Registration Number | 52283      |

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|  |  |   |
|--|--|---|
| <b><i>Index of Claims</i></b><br><br> | <b>Application/Control No.</b><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br>BARGER ET AL. |
|  | <b>Examiner</b><br>CHARLES MURPHY          | <b>Art Unit</b><br>2455   |

|   |                 |
|---|-----------------|
| ✓ | <b>Rejected</b> |
| = | <b>Allowed</b>  |

|   |                   |
|---|-------------------|
| - | <b>Cancelled</b>  |
| ÷ | <b>Restricted</b> |

|   |                     |
|---|---------------------|
| N | <b>Non-Elected</b>  |
| I | <b>Interference</b> |

|   |                 |
|---|-----------------|
| A | <b>Appeal</b>   |
| O | <b>Objected</b> |

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

| CLAIM |          | DATE       |            |            |            |            |  |  |  |  |
|-------|----------|------------|------------|------------|------------|------------|--|--|--|--|
| Final | Original | 04/06/2010 | 09/23/2010 | 03/12/2011 | 06/13/2012 | 01/28/2013 |  |  |  |  |
|       | 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       |            |            |            | ✓          | ✓          |  |  |  |  |
|       | 29       |            |            |            | ✓          | ✓          |  |  |  |  |
|       | 30       |            |            |            | ✓          | ✓          |  |  |  |  |
|       | 31       |            |            |            | ✓          | ✓          |  |  |  |  |
|       | 32       |            |            |            | ✓          | ✓          |  |  |  |  |
|       | 33       |            |            |            | ✓          | ✓          |  |  |  |  |
|       | 34       |            |            |            | ✓          | ✓          |  |  |  |  |
|       | 35       |            |            |            | ✓          | ✓          |  |  |  |  |
|       | 36       |            |            |            | ✓          | ✓          |  |  |  |  |



## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--|------------------|---------|---------------------|
| L1    | 2    | ("20050091311").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2013/01/27<br>23:11 |
| L2    | 1    | 1 analog  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2013/01/27<br>23:11 |
| S1    | 1    | ("20090254672").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | OFF     | 2010/10/07<br>14:44 |
| S2    | 74   | ("5088052"   "5355472"   "5442771"  <br>"5530852"   "5701451"   "5708845"  <br>"5710918"   "5737619"   "5745908"  <br>"5758110"   "5761555"   "5761655"  <br>"5793964"   "5819261"   "5822436"  <br>"5845084"   "5845299"   "5860068"  <br>"5860073"   "5861881"   "5862325"  <br>"5864337"   "5870552"   "5880740"  <br>"5884337"   "5890170"   "5890170"  <br>"5895476"   "5895476"   "5895477"  <br>"5903892"   "5937160"   "5943680"  <br>"5943680"   "5956737"   "5956737"  <br>"6009436"   "6456305"   "6484149"  <br>"6563517"   "6591280"   "6591280"  <br>"6623529"   "6623529").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/10/07<br>14:48 |
| S3    | 2    | S2 (transcod\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/10/07<br>14:49 |
| S4    | 74   | ("5088052"   "5355472"   "5442771"  <br>"5530852"   "5701451"   "5708845"  <br>"5710918"   "5737619"   "5745908"  <br>"5758110"   "5761555"   "5761655"  <br>"5793964"   "5819261"   "5822436"  <br>"5845084"   "5845299"   "5860068"  <br>"5860073"   "5861881"   "5862325"  <br>"5864337"   "5870552"   "5880740"  <br>"5884337"   "5890170"   "5890170"  <br>"5895476"   "5895476"   "5895477"  <br>"5903892"   "5937160"   "5943680"  <br>"5943680"   "5956737"   "5956737"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND              | ON      | 2010/10/07<br>14:51 |

## EAST Search History

|     |      |   |  |     |    |                     |
|-----|------|---|--|-----|----|---------------------|
|     |      | "6009436"   "6456305"   "6484149"  <br>"6563517"   "6591280"   "6591280"  <br>"6623529"   "6623529").FN.  |  |     |    |                     |
| S5  | 1    | S4 (transcod\$4 same cache)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>14:51 |
| S6  | 34   | (transcod\$4) same (content or media or<br>file) near4 (concurrent\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:40 |
| S7  | 0    | (transcod\$4) same (content or media or<br>file) near4 (concurrent\$3)<br>@ad<"19991021"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:42 |
| S8  | 0    | (transcod\$4) same (content or media or<br>file) near4 (concurrent\$3) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:42 |
| S9  | 15   | (transcod\$4) (content or media or file)<br>near4 (concurrent\$3) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:42 |
| S10 | 10   | (transcod\$4) (content or media or file)<br>same (deliver\$3 or send\$3 or transmit\$3)<br>same (concurrent\$3 or simultan\$4)<br>@ay<"1999"                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:43 |
| S11 | 0    | (transcod\$4 same parameter) (content or<br>media or file) same (deliver\$3 or send\$3 or<br>transmit\$3) same (concurrent\$3 or<br>simultan\$4) @ay<"1999" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:18 |
| S12 | 2709 | (content or media or file) same (deliver\$3<br>or send\$3 or transmit\$3) same<br>(concurrent\$3 or simultan\$4) @ay<"1999"                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:25 |
| S13 | 763  | (content or media or file) near5 (deliver\$3<br>or send\$3 or transmit\$3) same   | US-PGPUB;<br>USPAT;  | AND | ON | 2010/10/07<br>18:25 |

## EAST Search History

|     |     |   |  |     |    |                     |
|-----|-----|---|--|-----|----|---------------------|
|     |     | (concurrent\$3 or simultan\$4) @ay<"1999"   | USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        |     |    |                     |
| S14 | 184 | (content or media or file) near5 (deliver\$3 or send\$3 or transmit\$3) near5 (concurrent\$3 or simultan\$4) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:25 |
| S15 | 41  | S14 (transcod\$3 or convert)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:26 |
| S16 | 1   | S14 (transcod\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:26 |
| S17 | 25  | S14 (media.ti.)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:27 |
| S18 | 3   | (content or media or file) near5 (transcod\$3 or convert\$3) same (deliver\$3 or send\$3 or transmit\$3) near5 (concurrent\$3 or simultan\$4) @ay<"1999"                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:30 |
| S19 | 157 | (content or media or file) near5 (transcod\$3 or convert\$3) (deliver\$3 or send\$3 or transmit\$3) near5 (concurrent\$3 or simultan\$4) @ay<"1999"                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:30 |
| S20 | 6   | S19 (media.ti.)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:30 |
| S21 | 22  | (content or media or file or audio or video or movie) near5 (transcod\$3 or convert\$3) same (deliver\$3 or send\$3 or transmit\$3) near5 (concurrent\$3 or simultan\$4) @ay<"1999" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:31 |

## EAST Search History

|     |    |   |  |     |     |                     |
|-----|----|---|--|-----|-----|---------------------|
| S22 | 1  | ("5845279").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2010/10/07<br>18:35 |
| S23 | 0  | S22 concurrent\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:35 |
| S24 | 0  | S22 concurrent\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:35 |
| S25 | 1  | S22 concurrent\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:35 |
| S26 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:10 |
| S27 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary or foundation) @ay<"1999"                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:10 |
| S28 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary or foundation or prilimnary) @ay<"1999"                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:11 |
| S29 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary or foundation or preliminary) @ay<"1999"                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:12 |
| S30 | 0  | (transcod\$4) near5 (profile) same (content or media or file) near4 (base or primary or foundation or preliminary) @ay<"1999" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:13 |
| S31 | 1  | (transcod\$4) near5 (profile) same (content or media or file) @ay<"1999"  | US-PGPUB;<br>USPAT;  | AND | ON  | 2011/03/16<br>16:13 |

## EAST Search History

|     |   |                              |  |     |     |                     |
|-----|---|------------------------------|--|-----|-----|---------------------|
|     |   |                              | USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        |     |     |                     |
| S32 | 1 | ("6359902").PN.              | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/17<br>17:35 |
| S33 | 0 | S32 cache                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/17<br>17:35 |
| S34 | 1 | ("6563517").PN.              | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>15:22 |
| S35 | 1 | ("5845279").PN.              | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>15:23 |
| S36 | 1 | ("6909708").PN.              | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>15:23 |
| S37 | 3 | S34 or S35 or S36            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22<br>15:23 |
| S38 | 0 | S37 cache same media         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22<br>15:23 |
| S39 | 2 | S37 cache                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22<br>15:23 |
| S40 | 1 | S37 cache same transcode\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22<br>15:24 |
| S41 | 1 | ("6563517").PN.              | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>16:33 |
| S42 | 1 | ("6909708").PN.              | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>16:33 |
| S43 | 1 | S41 preferences same request | US-PGPUB;<br>USPAT;  | AND | ON  | 2011/03/22<br>16:50 |

|     |     |  |  |     |    |                      |
|-----|-----|--|--|-----|----|----------------------|
|     |     |  | USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        |     |    |                      |
| S44 | 0   | (transcod\$4 adj profile) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/11/18;<br>20:46 |
| S45 | 2   | (transcod\$4 near5 profile) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/11/18;<br>20:57 |
| S46 | 106 | US-1182225-\$.DID. OR US-6147977-\$.DID. OR US-7149893-\$.DID. OR US-6829591-\$.DID. OR US-6442589-\$.DID. OR US-5327486-\$.DID. OR US-6892230-\$.DID. OR US-6748569-\$.DID. OR US-7221658-\$.DID. OR US-5400020-\$.DID. OR US-5623260-\$.DID. OR US-5657010-\$.DID. OR US-5668543-\$.DID. OR US-5708780-\$.DID. OR US-5796394-\$.DID. OR US-5870549-\$.DID. OR US-5875437-\$.DID. OR US-5937161-\$.DID. OR US-6029148-\$.DID. OR US-6052673-\$.DID. OR US-6073166-\$.DID. OR US-6151624-\$.DID. OR US-6154738-\$.DID. OR US-6157945-\$.DID. OR US-6185603-\$.DID. OR US-6212550-\$.DID. OR US-6216165-\$.DID. OR US-6219714-\$.DID. OR US-6278936-\$.DID. OR US-6314402-\$.DID. OR US-6313760-\$.DID. OR US-6317060-\$.DID. OR US-6363254-\$.DID. OR US-6363323-\$.DID. OR US-6411891-\$.DID. OR US-6415207-\$.DID. OR US-5899995-\$.DID. OR US-6314434-\$.DID. OR US-5742763-\$.DID. OR US-6513019-\$.DID. OR US-5073852-\$.DID. OR US-6542515-\$.DID. OR US-5805810-\$.DID. OR US-5819046-\$.DID. OR US-5579472-\$.DID. OR US-5828314-\$.DID. OR US-6167409-\$.DID. OR US-6347340-\$.DID. OR US-6430272-\$.DID. OR US-6442591-\$.DID. OR US-6438583-\$.DID. OR US-6836792-\$.DID. OR WO-0176119-\$.DID. OR WO-0175604-\$.DID. OR WO-0176264-\$.DID. OR WO-0180130-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON | 2011/11/18;<br>20:59 |
| S47 | 18  | S46 profile  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2011/11/18;<br>20:59 |
| S48 | 139 | (transcoding near5 profile)  | US-PGPUB;<br>USPAT;  | AND | ON | 2011/11/18;<br>21:00 |

EAST Search History

|     |     |   |  |     |     |                      |
|-----|-----|---|--|-----|-----|----------------------|
|     |     |   | USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        |     |     |                      |
| S49 | 3   | (transcoding near5 profile) @ay<"2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18:<br>21:01 |
| S50 | 1   | ("7117361").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/11/18:<br>21:02 |
| S51 | 1   | S50 profile   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18:<br>21:02 |
| S52 | 355 | ((transcod\$4 or translation) near5 profile) @ay<"2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18:<br>21:04 |
| S53 | 49  | ((transcod\$4 or translation) near profile) @ay<"2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18:<br>21:04 |
| S54 | 94  | US-5088052-\$.DID. OR US-5355472-\$.DID. OR US-5442771-\$.DID. OR US-5530852-\$.DID. OR US-5701451-\$.DID. OR US-5708845-\$.DID. OR US-5710918-\$.DID. OR US-5737619-\$.DID. OR US-5745908-\$.DID. OR US-5758110-\$.DID. OR US-5761655-\$.DID. OR US-5793964-\$.DID. OR US-5819261-\$.DID. OR US-5822436-\$.DID. OR US-5845084-\$.DID. OR US-5845279-\$.DID. OR US-5845299-\$.DID. OR US-5860068-\$.DID. OR US-5860073-\$.DID. OR US-5861881-\$.DID. OR US-5862325-\$.DID. OR US-5864337-\$.DID. OR US-5870552-\$.DID. OR US-5880740-\$.DID. OR US-5890170-\$.DID. OR US-5895476-\$.DID. OR US-5895477-\$.DID. OR US-5903892-\$.DID. OR US-5937160-\$.DID. OR US-5943680-\$.DID. OR US-5956737-\$.DID. OR US-6009436-\$.DID. OR US-6456305-\$.DID. OR US-6483851-\$.DID. OR US-6484149-\$.DID. OR US-6563517-\$.DID. OR US-6591280-\$.DID. OR US-6623529-\$.DID. OR US-6909708-\$.DID. OR US-7284201-\$.DID. OR US-7477688-\$.DID. OR US-7673063-\$.DID. OR US-20080155230-\$.DID. OR | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2012/05/18:<br>22:18 |

## EAST Search History

|     |    |   |  |     |     |                      |
|-----|----|---|--|-----|-----|----------------------|
|     |    | US-20090254672-\$.DID. OR US-5303198-\$.DID. OR EP-0747842-\$.DID. OR EP-0747842121996-\$.DID. OR EP-0782085-\$.DID. OR EP-0782085071997-\$.DID. OR EP-0818907-\$.DID. OR EP-0843276-\$.DID. OR EP-0843276051998-\$.DID. OR EP-0876034-\$.DID. OR EP-0876034111998-\$.DID. OR EP-0883068-\$.DID. OR US-1211998-\$.DID. OR EP-0886409-\$.DID. OR EP-0895171-\$.DID. OR EP-0926607-\$.DID. OR EP-0926607061999-\$.DID. OR EP-0949571-\$.DID. OR EP-0949571101999-\$.DID. OR WO-97149252-\$.DID. OR US-1211997-\$.DID. OR WO-9840842-\$.DID. OR WO-9840842091998-\$.DID. OR WO-9843177-\$.DID. OR WO-9843177101998-\$.DID. OR US-9830041-\$.DID. |  |     |     |                      |
| S55 | 0  | S54 (transcode same automatic\$5 near5 client)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2012/05/18:<br>22:21 |
| S56 | 1  | S54 (transcode same automatic\$5 )  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2012/05/18:<br>22:21 |
| S57 | 42 | (transcod\$4 near5 automatic\$4)<br>@ay< "2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/05/18:<br>22:24 |
| S58 | 1  | S57 (parameter near5 client) @ay< "2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/05/18:<br>22:24 |
| S59 | 2  | S57 (parameter near5 (client or device or user)) @ay< "2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/05/18:<br>22:26 |
| S60 | 7  | S57 (ident\$6 near5 (client or device or user)) @ay< "2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/05/18:<br>22:45 |
| S61 | 2  | ("6563517").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;                                     | OR  | OFF | 2012/05/18:<br>23:06 |



## EAST Search History

|     |   |                             |  |     |     |                     |
|-----|---|-----------------------------|--|-----|-----|---------------------|
|     |   |                             | EPO; JPO;<br>DERWENT;<br>IBM_TDB   |     |     |                     |
| S62 | 2 | ("6563517").PN.             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2012/06/13<br>21:02 |
| S63 | 1 | S62 resolution              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:02 |
| S64 | 0 | S62 resolution near10 frame | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:03 |
| S65 | 0 | S62 frame adj rate          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:03 |
| S66 | 1 | S62 rate                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:03 |
| S67 | 0 | S62 frame                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:03 |
| S68 | 1 | S62 resolution              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:04 |
| S69 | 2 | ("6463445").PN.             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2012/06/13<br>21:04 |
| S70 | 1 | S69 frame                   | US-PGPUB;<br>USPAT;  | AND | ON  | 2012/06/13<br>21:05 |

EAST Search History

|     |     |   |  |     |    |                     |
|-----|-----|---|--|-----|----|---------------------|
|     |     |   | USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        |     |    |                     |
| S71 | 1   | (simultaneous\$4 or concurrent\$4) near5 (transcod\$4) near5 file @ay<"2005"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/25<br>15:10 |
| S72 | 4   | (simultaneous\$4 or concurrent\$4) near10 (transcod\$4) near10 file @ay<"2005"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/25<br>15:11 |
| S73 | 13  | (simultaneous\$4 or concurrent\$4) same (transcod\$4) near10 file @ay<"2005"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/25<br>15:11 |
| S74 | 6   | (simultaneous\$4 or concurrent\$4) near5 output (transcod\$4) near10 file @ay<"2005"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/25<br>15:13 |
| S75 | 129 | (simultaneous\$4 or concurrent\$4) near5 (transcod\$4) @ay<"2005"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/25<br>15:14 |
| S76 | 15  | S75 transcod\$4 near5 file  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/25<br>15:14 |
| S77 | 8   | S76 automatic\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/25<br>15:15 |
| S78 | 27  | US-7313361-\$.DID. OR US-7406434-\$.DID. OR US-20030225568-\$.DID. OR US-20040025176-\$.DID. OR US-20050255852-\$.DID. OR US-20050278794-\$.DID. OR US-20060127059-\$.DID. OR US-20070061198-\$.DID. OR US- | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON | 2013/01/25<br>15:29 |

## EAST Search History

|     |     |  |  |     |    |                     |
|-----|-----|--|--|-----|----|---------------------|
|     |     | 20080195938-\$.DID. OR US-20080205389-\$.DID. OR US-20080207182-\$.DID. OR US-20090013347-\$.DID. OR US-20090240569-\$.DID. OR US-1331018-\$.DID.  |  |     |    |                     |
| S79 | 27  | US-7313361-\$.DID. OR US-7406434-\$.DID. OR US-20030225568-\$.DID. OR US-20040025176-\$.DID. OR US-20050255852-\$.DID. OR US-20050278794-\$.DID. OR US-20060127059-\$.DID. OR US-20070061198-\$.DID. OR US-20080195938-\$.DID. OR US-20080205389-\$.DID. OR US-20080207182-\$.DID. OR US-20090013347-\$.DID. OR US-20090240569-\$.DID. OR US-1331018-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>14:39 |
| S80 | 10  | S79 @ay<"2005"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>14:39 |
| S81 | 13  | S79 @ay<="2005"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>14:39 |
| S82 | 519 | (transcod\$4) near5 file @ay<="2005"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>14:41 |
| S83 | 27  | S82 (resolution same compression same rate)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>14:46 |
| S84 | 17  | S82 (resolution same compression same frame adj rate)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>15:07 |
| S85 | 45  | (transcod\$4 near10 (multimedia or multi!media or audio or image or video) near5 file) ((frame adj rate or frame!rate) same (compression) same (resolution))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/27<br>20:55 |
| S86 | 5   | (transcod\$4 near10 (multimedia or multi!media or audio or image or video) near5 file) ((frame adj rate or frame!rate) same (compression) same (resolution)) @ay<"2005"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/27<br>20:55 |

EAST Search History


|     |    |   |  |     |     |                     |
|-----|----|---|--|-----|-----|---------------------|
| S87 | 0  | ((transcod\$4 near10 (multimedia or multi!media or audio or image or video) near5 file) ((frame adj rate or frame!rate) same (compression) same (resolution)) @ad<"2005116"               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2013/01/27<br>20:55 |
| S88 | 2  | ("7580578").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2013/01/27<br>21:37 |
| S89 | 1  | S88 file  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2013/01/27<br>21:38 |
| S90 | 0  | ((transcod\$4 or transform) near10 (multimedia or multi!media or audio or image or video) near5 file) ((frame adj rate or frame!rate) same (compression) same (resolution)) @ad<"2005116" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2013/01/27<br>21:39 |
| S91 | 19 | ((transcod\$4 or transform\$4) near10 (multimedia or multi!media or audio or image or video) near5 file) ((frame adj rate or frame!rate) same (compression) same (resolution)) @ay<"2005" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2013/01/27<br>21:40 |

**EAST Search History (Interference)**

<This search history is empty>

**1/ 27/ 2013 11:30:33 PM**

**C:\Users\cmurphy1\Documents\EAST\Workspaces\12173747.wsp**

|  |  |   |
|--|--|---|
| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>BARGER ET AL. |
|  | <b>Examiner</b><br><br>CHARLES MURPHY          | <b>Art Unit</b><br><br>2455   |

| CPC- SEARCHED |      |          |
|---------------|------|----------|
| Symbol        | Date | Examiner |
|               |      |          |

| CPC COMBINATION SETS - SEARCHED |      |          |
|---------------------------------|------|----------|
| Symbol                          | Date | Examiner |
|                                 |      |          |

| US CLASSIFICATION SEARCHED |   |           |                |
|----------------------------|---|-----------|----------------|
| Class                      | Subclass                                    | Date      | Examiner       |
| 709                        | 227 226 223 219 206 204 203                 | 4/6/2010  | Charles Murphy |
| 370                        | 480 467 465 389 356 353 352 289 286 260 252 | 4/6/2010  | Charles Murphy |
| 455                        | 560 463 426.1 422.1 412.1                   | 4/6/2010  | Charles Murphy |
| 709                        | 247 217                                     | 9/23/2010 | Charles Murphy |
| 704                        | 503 500 230 204                             | 9/23/2010 | Charles Murphy |
| 709                        | 227 226 223 219 206 204 203                 | 3/12/2011 | Charles Murphy |
| 370                        | 480 467 465 389 356 353                     | 3/12/2011 | Charles Murphy |
| 370                        | 480 467 465 389 356 353 352 289 286 260 252 | 6/13/2012 | Charles Murphy |
| 709                        | 247 236 227 226 223 219 206 204 203         | 6/13/2012 | Charles Murphy |
| 709                        | 247 246                                     | 1/28/2013 | Charles Murphy |
| 382                        | 232   | 1/28/2013 | Charles Murphy |
| 386                        | 278 244 241                                 | 1/28/2013 | Charles Murphy |

| SEARCH NOTES   |           |                |
|--|-----------|----------------|
| Search Notes   | Date      | Examiner       |
| East   | 4/6/2010  | Charles Murphy |
| Searched East  | 9/23/2010 | Charles Murphy |
| Consulted Quang Nguyen   | 9/23/2010 | Charles Murphy |
| Searched East  | 3/12/2011 | Charles Murphy |
| Searched East  | 6/13/2012 | Charles Murphy |
| Searched EAST  | 1/28/2013 | Charles Murphy |
| Consulted David Lazaro on possibility of allowance with current amendments | 1/28/2013 | Charles Murphy |

|  |  |
|--|--|
| /CHARLES MURPHY/<br>Examiner.Art Unit 2455 |  |
|--|--|

| INTERFERENCE SEARCH     |                         |      |          |
|-------------------------|-------------------------|------|----------|
| US Class/<br>CPC Symbol | US Subclass / CPC Group | Date | Examiner |
|                         |                         |      |          |

|  |  |
|--|--|
| /CHARLES MURPHY/<br>Examiner.Art Unit 2455 |  |
|--|--|

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|  |                               |                    |              |
|--|-------------------------------|--------------------|--------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(Not for submission under 37 CFR 1.99) | <b>Application Number</b>     |                    | 12/173,747   |
|  | <b>Filing Date</b>            |                    | Jul 15, 2008 |
|  | <b>First Named Inventor</b>   | Sean Barger        |              |
|  | <b>Art Unit</b>               | 2455               |              |
|  | <b>Examiner Name</b>          | Murphy, Charles C. |              |
|  | <b>Attorney Docket Number</b> | EQUI0016           |              |

| U.S. PATENTS                                |         |                    |             |                  |   |   |
|---|---------|--------------------|-------------|------------------|---|---|
| Examiner Initial*                           | Cite No | Patent Number      | Kind Code 1 | Issue Date       | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b> |         |                    |             |                  |   |   |
| Examiner Initial*                           | Cite No | Publication Number | Kind Code 1 | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|   | 1       | US-20070234213     |             | Oct 4, 2007      | Krikorian et al.                                |   |
|   | 2       | US-20080186377     |             | Aug 7, 2008      | Eriksson et al.                                 |   |
|   | 3       | US-20100046842     |             | Feb 25, 2010     | Conwell   |   |
|   | 4       | US-20110221745     |             | Sep 15, 2011     | Goldman et al.                                  |   |
|   | 5       | US-20110279638     |             | Nov 17, 2011     | Periyannan et al.                               |   |
|   | 6       | US-20120016858     |             | Jan 19, 2012     | Rathod  |   |

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|--|-------------------------------|--|--------------------|--|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(Not for submission under 37 CFR 1.99) | <b>Application Number</b>     |  | 12/173,747         |  |
|  | <b>Filing Date</b>            |  | Jul 15, 2008       |  |
|  | <b>First Named Inventor</b>   |  | Sean Barger        |  |
|  | <b>Art Unit</b>               |  | 2455               |  |
|  | <b>Examiner Name</b>          |  | Murphy, Charles C. |  |
|  | <b>Attorney Docket Number</b> |  | EQUI0016           |  |

| FOREIGN PATENT DOCUMENTS  |         |   |                           |                        |                  |   |  |                |
|---|---------|---|---------------------------|------------------------|------------------|---|--|----------------|
| Examiner Initial*   | Cite No | Foreign Document Number <sup>3</sup>  | Country Code <sup>2</sup> | Kind Code <sup>4</sup> | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T <sup>5</sup> |
| NON-PATENT LITERATURE DOCUMENTS   |         |   |                           |                        |                  |   |  |                |
| Examiner Initials*  | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |                           |                        |                  |   |  | T <sup>5</sup> |
| EXAMINER SIGNATURE  |         |   |                           |                        |                  |   |  |                |
| Examiner Signature  |         |   | Date Considered           |                        |                  |   |  |                |
| <p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p> <p><sup>1</sup> See Kind Codes of USPTO Patent Documents at <a href="http://www.USPTO.GOV">www.USPTO.GOV</a> or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.</p> |         |   |                           |                        |                  |   |  |                |



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|--|-------------------------------|--------------------|--------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(Not for submission under 37 CFR 1.99) | <b>Application Number</b>     |                    | 12/173,747   |
|  | <b>Filing Date</b>            |                    | Jul 15, 2008 |
|  | <b>First Named Inventor</b>   | Sean Barger        |              |
|  | <b>Art Unit</b>               | 2455               |              |
|  | <b>Examiner Name</b>          | Murphy, Charles C. |              |
|  | <b>Attorney Docket Number</b> | EQUI0016           |              |

### CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e) (1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e) (2).


See attached certification statement.

Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

No certification statement submitted herewith.

#### SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

|            |   |                     |            |
|------------|---|---------------------|------------|
| Signature  |  | Date (YYYY-MM-DD)   | 2013-06-13 |
| Name/Print | Michael A Glenn   | Registration Number | 30176      |

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1.14. This collection is estimated to take 1 hour 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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## Electronic Patent Application Fee Transmittal

|  |                                 |                 |               |                             |
|--|---------------------------------|-----------------|---------------|-----------------------------|
| <b>Application Number:</b>                     | 12173747                        |                 |               |                             |
| <b>Filing Date:</b>                            | 15-Jul-2008                     |                 |               |                             |
| <b>Title of Invention:</b>                     | Automated Media Delivery System |                 |               |                             |
| <b>First Named Inventor/Applicant Name:</b>    | Sean Barger                     |                 |               |                             |
| <b>Filer:</b>                                  | Michael Glenn/Christine Ortt    |                 |               |                             |
| <b>Attorney Docket Number:</b>                 | EQUI0016                        |                 |               |                             |
| Filed as Small Entity                          |                                 |                 |               |                             |
| <b>Utility under 35 USC 111(a) Filing Fees</b> |                                 |                 |               |                             |
| <b>Description</b>                             | <b>Fee Code</b>                 | <b>Quantity</b> | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                           |                                 |                 |               |                             |
| <b>Pages:</b>                                  |                                 |                 |               |                             |
| <b>Claims:</b>                                 |                                 |                 |               |                             |
| <b>Miscellaneous-Filing:</b>                   |                                 |                 |               |                             |
| <b>Petition:</b>                               |                                 |                 |               |                             |
| <b>Patent-Appeals-and-Interference:</b>        |                                 |                 |               |                             |
| <b>Post-Allowance-and-Post-Issuance:</b>       |                                 |                 |               |                             |
| <b>Extension-of-Time:</b>                      |                                 |                 |               |                             |

| Description                             | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|---|----------|----------|--------|----------------------|
| <b>Miscellaneous:</b>                   |          |          |        |                      |
| Submission- Information Disclosure Stmt | 2806     | 1        | 90     | 90                   |
| <b>Total in USD (\$)</b>                |          |          |        | <b>90</b>            |

## Electronic Acknowledgement Receipt

|   |                                 |
|---|---------------------------------|
| <b>EFS ID:</b>                              | 16037480                        |
| <b>Application Number:</b>                  | 12173747                        |
| <b>International Application Number:</b>    |                                 |
| <b>Confirmation Number:</b>                 | 7377                            |
| <b>Title of Invention:</b>                  | Automated Media Delivery System |
| <b>First Named Inventor/Applicant Name:</b> | Sean Barger                     |
| <b>Customer Number:</b>                     | 22862                           |
| <b>Filer:</b>                               | Michael Glenn/Christine Ortt    |
| <b>Filer Authorized By:</b>                 | Michael Glenn                   |
| <b>Attorney Docket Number:</b>              | EQUI0016                        |
| <b>Receipt Date:</b>                        | 13-JUN-2013                     |
| <b>Filing Date:</b>                         | 15-JUL-2008                     |
| <b>Time Stamp:</b>                          | 19:58:52                        |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)     |

### Payment information:

|  |                 |
|--|-----------------|
| Submitted with Payment                   | yes             |
| Payment Type                             | Deposit Account |
| Payment was successfully received in RAM | \$90            |
| RAM confirmation Number                  | 6619            |
| Deposit Account                          | 071445          |
| Authorized User                          |                 |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

| <b>File Listing:</b>  |                             |                             |  |                         |                         |
|---|-----------------------------|-----------------------------|--|-------------------------|-------------------------|
| <b>Document Number</b>  | <b>Document Description</b> | <b>File Name</b>            | <b>File Size(Bytes)/<br/>Message Digest</b>        | <b>Multi Part /.zip</b> | <b>Pages (if appl.)</b> |
| 1   |                             | EQUI0016_IDS_2013-06-13.pdf | 126694<br>8d5ed32af97483d418e0be5dc3cf54511670bc44 | yes                     | 3                       |
| <b>Multipart Description/PDF files in .zip description</b>  |                             |                             |  |                         |                         |
| <b>Document Description</b>   |                             |                             | <b>Start</b>                                       | <b>End</b>              |                         |
| Information Disclosure Statement (IDS) Form (SB08)  |                             |                             | 1  | 2                       |                         |
| Transmittal Letter  |                             |                             | 3  | 3                       |                         |
| <b>Warnings:</b>  |                             |                             |  |                         |                         |
| <b>Information:</b>   |                             |                             |  |                         |                         |
| 2   | Fee Worksheet (SB06)        | fee-info.pdf                | 30168<br>81d957bd3871437c23858e15bbd52d1dd0f4698c  | no                      | 2                       |
| <b>Warnings:</b>  |                             |                             |  |                         |                         |
| <b>Information:</b>   |                             |                             |  |                         |                         |
| <b>Total Files Size (in bytes):</b>   |                             |                             | 156862   |                         |                         |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</b></p> |                             |                             |  |                         |                         |

Doc Code: A.NE.AFCP

Document Description: After Final Consideration Pilot Program Request

PTO/SB/434 (05-13)

| CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE<br>AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0   |  |                                   |
|--|--|-----------------------------------|
| Practitioner Docket No.:<br><b>EQUI0016</b>  | Application No.:<br><b>12173747</b>              | Filing Date:<br><b>07/15/2008</b> |
| First Named Inventor:<br><b>Sean BARGER</b>  | Title:<br><b>AUTOMATED MEDIA DELIVERY SYSTEM</b> |                                   |
| <p>APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116.</p> <ol style="list-style-type: none"><li>The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (<i>e.g.</i>, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c).</li><li>The above-identified application contains an outstanding final rejection.</li><li>Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect.</li><li>This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection.</li><li>Applicant is willing and available to participate in any interview requested by the examiner concerning the present response.</li><li>This certification and request is being filed electronically using the Office's electronic filing system (EFS-Web).</li><li>Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, <i>e.g.</i>, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.]</li><li>By filing this certification and request, applicant acknowledges the following:<ul style="list-style-type: none"><li>Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0.</li><li>The examiner will verify that the AFCP 2.0 submission is compliant, <i>i.e.</i>, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions:<ul style="list-style-type: none"><li>The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, <i>e.g.</i>, by mailing an advisory action.</li><li>If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview.<ul style="list-style-type: none"><li>The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate.</li><li>If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.</li></ul></li></ul></li></ul></li></ol> |  |                                   |
| Signature<br><b>/MAG/</b>  | Date<br><b>07/08/2013</b>                        |                                   |
| Name<br>(Print/Typed) <b>Michael A. Glenn</b>  | Practitioner<br>Registration No. <b>30176</b>    |                                   |
| <p><b>Note:</b> This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.</p>  |  |                                   |
| <p><input checked="" type="checkbox"/> * Total of <u>1</u> forms are submitted.</p>  |  |                                   |

## Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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|                      |   |                                 |
|----------------------|---|---------------------------------|
| First Named Inventor | : | Sean BARGER                     |
| Serial No.           | : | 12/173,747                      |
| Filed                | : | July 15, 2008                   |
| Art Unit             | : | 2455                            |
| Confirmation Number  | : | 7377                            |
| Examiner             | : | Charles C. MURPHY               |
| Title                | : | Automated Media Delivery System |
| Attorney Docket No.  | : | EQUI0016                        |

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July 8, 2013

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO OFFICE ACTION**

Applicant submits this Response to the Office Action dated February 6, 2013 in connection with the above-identified patent application.

A **Listing of Claims** begins on Page 2 of this paper, and  
**Remarks** begin on Page 15 of this paper.

The Commissioner is authorized to charge any fees that may be due and to credit any overpayments to Deposit Account 502207 (Order No. EQUI0016). Applicant considers this document to be filed in a timely manner.



## LISTING OF CLAIMS

1. (Currently Amended) A method for providing simultaneous transcoding of multi-media data, comprising:

receiving a multi-media file in a first format;

receiving a request for said multi-media file to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities;

determining client connection speed, server traffic, browser, and device based upon said client connection speed, said server traffic, polled device, browser, and other variables collected at the time of said request, and one or more content generation procedures, automatically transcoding, at the time of the request ~~and without input by a network administrator,~~ data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities of the at least two output devices; and

transmitting ~~simultaneously with said transcoding~~ said multi-media file to each output device from among said plurality of output devices in a compatible format.

2. (Previously Presented) The method of claim 1, wherein said data within said multi-media file comprises at least one of:

video data, audio data or digital pictures.

3. (Currently Amended) ~~The method of claim 1,~~ A method for providing simultaneous transcoding of multi-media data, comprising:

receiving a multi-media file in a first format;

receiving a request for said multi-media file to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities;

automatically transcoding, at the time of the request data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities of the at least two output devices; and  
transmitting said multi-media file to each output device from among said plurality of output devices in a compatible format;

wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

4. (Cancelled).

5. (Previously Presented) The method of claim 1, wherein said transmitting said multi-media file to an output device comprises transmitting said multi-media file to a display device.

6. (Previously Presented) The method of claim 1, wherein said transmitting said multi-media file to an output device comprises transmitting said multi-media file to a storage device.

7. (Previously Presented) The method of claim 1, further comprising:

transmitting said transcoded multi-media file in said alternate format to an external device.

8. (Original) The method of claim 7, wherein said external device comprises a portable media player.

9. (Previously Presented) The method of claim 1, wherein said multi-media file in said first format is received from a service provider.

10. (Previously Presented) The method of claim 1, wherein said multi-media file in said first format is received from a local content source.

11. (Currently Amended) A system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving a multi-media file in a first format and, responsive to a request for said multi-media file, for transmitting said multi-media file to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and

a transcoder, coupled to said controller and said request parser, for determining client connection speed, server traffic, browser, and device based upon said client connection speed, said server traffic, polled device, browser, and other variables collected at the time of said request, and one or more content generation procedures, and for automatically transcoding, at the time of said request, ~~without input by a network administrator, and simultaneously~~ data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of output devices are different from said first format, while said multi-media file is transmitted to said output device, wherein said transcoder is configured for:

changing a resolution of said data within said multi-media file based on the resolution capabilities the at least two output devices,

changing a frame rate of said data within said multi-media file based on the frame rate capabilities the at least two output devices, and

changing a compression format of said data within said multi-media file based on the compression capabilities the at least two output devices.

12. (Previously Presented) The system of claim 11, wherein said data within said multi-media file comprises at least one of:

video data, audio data or digital pictures.

13. (Original) The system of claim 11, wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

14. (Cancelled).

15. (Original) The system of claim 11, wherein said output device comprises a display device.

16. (Original) The system of claim 11, wherein said output device comprises a storage device.

17. (Previously Presented) The system of claim 11, further comprising:

one or more interfaces for transmitting said transcoded multi-media file in said alternate format to an external device.

18. (Original) The system of claim 17, wherein said external device comprises a portable media player.

19. (Currently Amended) A non-transitory computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the steps of a method for providing simultaneous transcoding of multi-media data, comprising:

receiving a multi-media file in a first format;

receiving a request for said multi-media file and transmitting said multi-media file to an output device; and

determining client connection speed, server traffic, browser, and device based upon said client connection speed, said server traffic, polled device, browser, and other variables collected at the time of said request, and one or more content generation procedures, and automatically transcoding, at the time of the request ~~and without input by a network administrator,~~ data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format, ~~while said data within said multi-media file is transmitted to said output device,~~ wherein said transcoder is configured for changing each of: a resolution of said data within said multi-media file based on resolution capabilities of at least two output devices, a frame rate of said data within said multi-media file based on frame rate capabilities of at least two output devices, and a compression format of said data within said multi-media file based on compression capabilities of at least two output devices.

20. (Previously Presented) The non-transitory computer readable medium of claim 19, wherein said transmitting said multi-media file to an output device comprises transmitting said multi-media file to at least one of: a display device or a storage device.

21. (Cancelled).

22. (Previously Presented) The non-transitory computer readable medium of claim 19, further comprising:

transmitting said transcoded multi-media file in said alternate format to an external device.

23. (Currently Amended) ~~The non-transitory computer readable medium of claim 19, A~~ non-transitory computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the steps of a method for providing simultaneous transcoding of multi-media data, comprising:

receiving a multi-media file in a first format;

and transmitting said multi-media file to an output device; and automatically transcoding, at the time of the, data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format, wherein said transcoder is configured for changing each of: a resolution of said data

within said multi-media file based on resolution capabilities of at least two output devices, a frame rate of said data within said multi-media file based on frame rate capabilities of at least two output devices, and a compression format of said data within said multi-media file based on compression capabilities of at least two output devices;

wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

24. (Currently Amended) A method for providing simultaneous transcoding of multi-media data, comprising:

receiving a multi-media file in a first format;

receiving a request for said multi-media file to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags;

automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags,

determining client connection speed, server traffic, browser, and device based upon said client connection speed, said server traffic, polled device, browser, and other variables collected at the time of said request, and one or more content generation procedures, and automatically transcoding, at the time of the request ~~and without input by a network administrator,~~ data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said data within said multi-



media file based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities of the at least two output devices; and

transmitting ~~simultaneously with said transcoding~~ said multi-media file to each output device from among said plurality of output devices in a compatible format.

25. (Previously Presented) The method of claim 24, wherein said data within said multi-media file comprises at least one of:

video data, audio data or digital pictures.

26. (Previously Presented) The method of claim 24, wherein said transmitting said multi-media file to an output device comprises transmitting said multi-media file to a display device.

27. (Previously Presented) The method of claim 24, wherein said transmitting said multi-media file to an output device comprises transmitting said multi-media file to a storage device.

28. (Previously Presented) The method of claim 24, further comprising:

transmitting said transcoded multi-media file in said alternate format to an external device.

29. (Previously Presented) The method of claim 28, wherein said external device comprises a portable media player.

30. (Currently Amended) A system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving a multi-media file in a first format and for transmitting said multi-media file to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and

a request parser configured for receiving a request from a client for transmitting said multi-media file to one or more output devices, wherein at least two devices from said one or more output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags, and for automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags;

a transcoder, coupled to said controller and said request parser, for determining client connection speed, server traffic, browser, and device based upon said client connection speed, said server traffic, polled device, browser, and other variables collected at the time of said request, and one or more content generation procedures, and for automatically transcoding, at the time of said request, ~~without input by a network administrator, and simultaneously~~ data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the

plurality of output devices, wherein said plurality of output devices are different from said first format, while said multi-media file is transmitted to said output device, wherein said transcoder is configured for:

changing a resolution of said data within said multi-media file based on the resolution capabilities the at least two output devices,

changing a frame rate of said data within said multi-media file based on the frame rate capabilities the at least two output devices, and

changing a compression format of said data within said multi-media file based on the compression capabilities the at least two output devices.

31. (Previously Presented) The system of claim 30, wherein said data within said multi-media file comprises at least one of:

video data, audio data or digital pictures.

32. (Previously Presented) The system of claim 30, wherein said output device comprises a display device.

33. (Previously Presented) The system of claim 30, wherein said output device comprises a storage device.

34. (Previously Presented) The system of claim 30, further comprising:

one or more interfaces for transmitting said transcoded multi-media file in said alternate format to an external device.

35. (Previously Presented) The system of claim 34, wherein said external device comprises a portable media player.

36. (Currently Amended) A non-transitory computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the steps of a method for providing simultaneous transcoding of multi-media data, comprising:

receiving a multi-media file in a first format;

receiving a request for said multi-media file to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities, wherein said request comprises a resource identifier and one or more data format tags;

automatically determining, at the time of the request, one or more formats requested based on said one or more data format tags,

determining client connection speed, server traffic, browser, and device based upon said client connection speed, said server traffic, polled device, browser, and other variables collected at the time of said request, and one or more content generation procedures, and automatically transcoding, at the time of the request ~~and without input by a network administrator~~, data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said data within said multi-

media file based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities of the at least two output devices; and

transmitting ~~simultaneously with said transcoding~~ said multi-media file to each output device from among said plurality of output devices in a compatible format.

**REMARKS**

Applicants respectfully request further examination and reconsideration in view of the above amendments and arguments set forth fully below.

**CLAIM REJECTIONS – 35 USC § 103**

Claims 19, 20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki *et al.* US Patent 6,463,445 (hereinafter referred to as Suzuki) in further view of Lund *et al.* US Patent Application Publication 2005/0091311 (hereinafter referred to as Lund);

Claims 1-2, 5, 7-8, 11-12, 15, 17-18, 24-26, 28-32, 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki *et al.* US Patent 6,463,445 (hereinafter referred to as Suzuki) in view of Bhagwat *et al.* US Patent 6,563,517 (hereinafter referred to as Bhagwat) in further view of Lund *et al.* US Patent Application Publication 2005/0091311 (hereinafter referred to as Lund);

Claims 3, 6, 9-10, 13, 16, 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki *et al.* US Patent 6,463,445 (hereinafter referred to as Suzuki) in view of Bhagwat *et al.* US Patent 6,563,517 (hereinafter referred to as Bhagwat) in view of Lund *et al.* US Patent Application Publication 2005/0091311 (hereinafter referred to as Lund) in further view of Krishnaswamy *et al.* US Patent 6,909,708 (hereinafter referred to as Krishnaswamy); and

Claims 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki *et al.* US Patent 6,463,445 (hereinafter referred to as Suzuki) in view of Lund *et al.* US Patent Application Publication 2005/0091311 (hereinafter referred to as Lund) in further view of Krishnaswamy *et al.* US Patent 6,909,708 (hereinafter referred to as Krishnaswamy).

*Interview*

*Applicant* thanks the Examiner for his courtesy and assistance during an interview that was held on June 24, 2013.

During the interview, the Examiner indicated that the subject matter of Claims 3 and 23 would avoid the present rejections under 35 USC § 103. As such, Applicant has amended these to place them in independent format by incorporating therein the limitations of their based claim and any intervening claims. Accordingly, Claims 2 and 23 are deemed to be allowable.

The Examiner also indicated that a claim amendment setting forth how the invention obtained parameters from a target device for transcoding the multi-media file would overcome the present rejection under 35 USC § 103 with regard to Applicant's independent claims. Applicant has emailed an amended Claim 1 to the Examiner for his review. However, to avoid the need to pay extension fees, Applicant now submits this response pending the Examiner's review of the informally submitted claim

amendments. Should the Examiner determine that further revisions to the claims are necessary, then Applicant is prepared to discuss same with the Examiner at his convenience.

Applicant has sought to summarize the substance of the above-mentioned interview in good faith. Any errors or inaccuracy is entirely unintentional.

### **CONCLUSION**

Applicant respectfully posits that all objections to and rejections of the claims have been overcome. Accordingly, Applicant respectfully requests allowance. Should the Examiner deem it helpful he is encouraged to contact Applicant's attorney, Michael A. Glenn, at (650) 838-4495.

Respectfully submitted,

/MAG/

Michael A. Glenn

Reg. No. 30,176

Customer No. 22918



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| <b>PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)</b>   |                                       | Docket Number (Optional)<br><b>EQUI0016</b> |                         |               |                         |                         |  |  |       |       |      |          |  |       |       |       |               |   |         |       |       |          |  |         |         |       |          |  |         |         |       |          |
|---|---------------------------------------|---|-------------------------|---------------|-------------------------|-------------------------|--|--|-------|-------|------|----------|--|-------|-------|-------|---------------|---|---------|-------|-------|----------|--|---------|---------|-------|----------|--|---------|---------|-------|----------|
| Application Number<br><b>12173747</b>   | Filed<br><b>07/15/2008</b>            |   |                         |               |                         |                         |  |  |       |       |      |          |  |       |       |       |               |   |         |       |       |          |  |         |         |       |          |  |         |         |       |          |
| For<br><b>AUTOMATED MEDIA DELIVERY SYSTEM</b>   |                                       |   |                         |               |                         |                         |  |  |       |       |      |          |  |       |       |       |               |   |         |       |       |          |  |         |         |       |          |  |         |         |       |          |
| Art Unit<br><b>2455</b>   | Examiner<br><b>Murphy, Charles C.</b> |   |                         |               |                         |                         |  |  |       |       |      |          |  |       |       |       |               |   |         |       |       |          |  |         |         |       |          |  |         |         |       |          |
| <p>This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.</p> <p>The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="text-align: center;"><u>Fee</u></th> <th style="text-align: center;"><u>Small Entity Fee</u></th> <th style="text-align: center;"><u>Micro Entity Fee</u></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> One month (37 CFR 1.17(a)(1))</td> <td style="text-align: center;">\$200</td> <td style="text-align: center;">\$100</td> <td style="text-align: center;">\$50</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td><input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2))</td> <td style="text-align: center;">\$600</td> <td style="text-align: center;">\$300</td> <td style="text-align: center;">\$150</td> <td style="text-align: right;">\$ <u>300</u></td> </tr> <tr> <td><input type="checkbox"/> Three months (37 CFR 1.17(a)(3))</td> <td style="text-align: center;">\$1,400</td> <td style="text-align: center;">\$700</td> <td style="text-align: center;">\$350</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td><input type="checkbox"/> Four months (37 CFR 1.17(a)(4))</td> <td style="text-align: center;">\$2,200</td> <td style="text-align: center;">\$1,100</td> <td style="text-align: center;">\$550</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td><input type="checkbox"/> Five months (37 CFR 1.17(a)(5))</td> <td style="text-align: center;">\$3,000</td> <td style="text-align: center;">\$1,500</td> <td style="text-align: center;">\$750</td> <td style="text-align: right;">\$ _____</td> </tr> </tbody> </table> <p><input checked="" type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27.</p> <p><input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29.<br/>Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.</p> <p><input type="checkbox"/> A check in the amount of the fee is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director has already been authorized to charge fees in this application to a Deposit Account.</p> <p><input checked="" type="checkbox"/> The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to<br/>Deposit Account Number <u>502207</u>.</p> <p><input checked="" type="checkbox"/> Payment made via EFS-Web.</p> <p><b>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.</b></p> <p>I am the</p> <p><input type="checkbox"/> applicant/inventor.</p> <p><input type="checkbox"/> assignee of record of the entire interest. See 37 CFR 3.71. 37 CFR 3.73(b) statement is enclosed (Form PTO/SB/96).</p> <p><input checked="" type="checkbox"/> attorney or agent of record. Registration number <u>30176</u></p> <p><input type="checkbox"/> attorney or agent acting under 37 CFR 1.34. Registration number _____</p> <p style="text-align: center;"><u>/MAG/</u> <span style="float: right;"><u>07/08/2013</u></span></p> <p style="text-align: center;">Signature <span style="float: right;">Date</span></p> <p style="text-align: center;"><u>Michael A. Glenn</u> <span style="float: right;"><u>650-838-4495</u></span></p> <p style="text-align: center;">Typed or printed name <span style="float: right;">Telephone Number</span></p> <p><b>NOTE:</b> This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.</p> <p><input checked="" type="checkbox"/> * Total of <u>1</u> forms are submitted.</p> |                                       |   |                         | <u>Fee</u>    | <u>Small Entity Fee</u> | <u>Micro Entity Fee</u> |  | <input type="checkbox"/> One month (37 CFR 1.17(a)(1)) | \$200 | \$100 | \$50 | \$ _____ | <input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2)) | \$600 | \$300 | \$150 | \$ <u>300</u> | <input type="checkbox"/> Three months (37 CFR 1.17(a)(3)) | \$1,400 | \$700 | \$350 | \$ _____ | <input type="checkbox"/> Four months (37 CFR 1.17(a)(4)) | \$2,200 | \$1,100 | \$550 | \$ _____ | <input type="checkbox"/> Five months (37 CFR 1.17(a)(5)) | \$3,000 | \$1,500 | \$750 | \$ _____ |
|   | <u>Fee</u>                            | <u>Small Entity Fee</u>                     | <u>Micro Entity Fee</u> |               |                         |                         |  |  |       |       |      |          |  |       |       |       |               |   |         |       |       |          |  |         |         |       |          |  |         |         |       |          |
| <input type="checkbox"/> One month (37 CFR 1.17(a)(1))  | \$200                                 | \$100                                       | \$50                    | \$ _____      |                         |                         |  |  |       |       |      |          |  |       |       |       |               |   |         |       |       |          |  |         |         |       |          |  |         |         |       |          |
| <input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2))  | \$600                                 | \$300                                       | \$150                   | \$ <u>300</u> |                         |                         |  |  |       |       |      |          |  |       |       |       |               |   |         |       |       |          |  |         |         |       |          |  |         |         |       |          |
| <input type="checkbox"/> Three months (37 CFR 1.17(a)(3))   | \$1,400                               | \$700                                       | \$350                   | \$ _____      |                         |                         |  |  |       |       |      |          |  |       |       |       |               |   |         |       |       |          |  |         |         |       |          |  |         |         |       |          |
| <input type="checkbox"/> Four months (37 CFR 1.17(a)(4))  | \$2,200                               | \$1,100                                     | \$550                   | \$ _____      |                         |                         |  |  |       |       |      |          |  |       |       |       |               |   |         |       |       |          |  |         |         |       |          |  |         |         |       |          |
| <input type="checkbox"/> Five months (37 CFR 1.17(a)(5))  | \$3,000                               | \$1,500                                     | \$750                   | \$ _____      |                         |                         |  |  |       |       |      |          |  |       |       |       |               |   |         |       |       |          |  |         |         |       |          |  |         |         |       |          |

This collection of information is required by 37 CFR 1.136(a). 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 6 minutes 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: 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.

## Electronic Patent Application Fee Transmittal

|  |                                 |                 |               |                             |
|--|---------------------------------|-----------------|---------------|-----------------------------|
| <b>Application Number:</b>                     | 12173747                        |                 |               |                             |
| <b>Filing Date:</b>                            | 15-Jul-2008                     |                 |               |                             |
| <b>Title of Invention:</b>                     | Automated Media Delivery System |                 |               |                             |
| <b>First Named Inventor/Applicant Name:</b>    | Sean Barger                     |                 |               |                             |
| <b>Filer:</b>                                  | Michael Glenn/Christine Ortt    |                 |               |                             |
| <b>Attorney Docket Number:</b>                 | EQUI0016                        |                 |               |                             |
| Filed as Small Entity                          |                                 |                 |               |                             |
| <b>Utility under 35 USC 111(a) Filing Fees</b> |                                 |                 |               |                             |
| <b>Description</b>                             | <b>Fee Code</b>                 | <b>Quantity</b> | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                           |                                 |                 |               |                             |
| <b>Pages:</b>                                  |                                 |                 |               |                             |
| <b>Claims:</b>                                 |                                 |                 |               |                             |
| Independent Claims in Excess of 3              | 2201                            | 2               | 210           | 420                         |
| <b>Miscellaneous-Filing:</b>                   |                                 |                 |               |                             |
| <b>Petition:</b>                               |                                 |                 |               |                             |
| <b>Patent-Appeals-and-Interference:</b>        |                                 |                 |               |                             |
| <b>Post-Allowance-and-Post-Issuance:</b>       |                                 |                 |               |                             |
| <b>Extension-of-Time:</b>                      |                                 |                 |               |                             |

| Description                        | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|------------------------------------|----------|----------|--------|----------------------|
| Extension - 2 months with \$0 paid | 2252     | 1        | 300    | 300                  |
| <b>Miscellaneous:</b>              |          |          |        |                      |
| <b>Total in USD (\$)</b>           |          |          |        | <b>720</b>           |

## Electronic Acknowledgement Receipt

|   |                                 |
|---|---------------------------------|
| <b>EFS ID:</b>                              | 16256834                        |
| <b>Application Number:</b>                  | 12173747                        |
| <b>International Application Number:</b>    |                                 |
| <b>Confirmation Number:</b>                 | 7377                            |
| <b>Title of Invention:</b>                  | Automated Media Delivery System |
| <b>First Named Inventor/Applicant Name:</b> | Sean Barger                     |
| <b>Customer Number:</b>                     | 22862                           |
| <b>Filer:</b>                               | Michael Glenn/Christine Ortt    |
| <b>Filer Authorized By:</b>                 | Michael Glenn                   |
| <b>Attorney Docket Number:</b>              | EQUI0016                        |
| <b>Receipt Date:</b>                        | 08-JUL-2013                     |
| <b>Filing Date:</b>                         | 15-JUL-2008                     |
| <b>Time Stamp:</b>                          | 19:01:08                        |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)     |

### Payment information:

|  |                  |
|--|------------------|
| Submitted with Payment                   | yes              |
| Payment Type                             | Credit Card      |
| Payment was successfully received in RAM | \$720            |
| RAM confirmation Number                  | 6550             |
| Deposit Account                          | 502207           |
| Authorized User                          | PERKINS COIE LLP |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

| <b>File Listing:</b>                                       |   |  |   |                         |                         |
|--|---|--|---|-------------------------|-------------------------|
| <b>Document Number</b>                                     | <b>Document Description</b>               | <b>File Name</b>                                 | <b>File Size(Bytes)/<br/>Message Digest</b>           | <b>Multi Part /.zip</b> | <b>Pages (if appl.)</b> |
| 1  | After Final Consideration Program Request | AF_Consideration_Pilot-EQUI0016.pdf              | 226541<br>ebdfc540e8d25df35045eb644b8543b1ba401cca    | no                      | 2                       |
| <b>Warnings:</b>   |   |  |   |                         |                         |
| <b>Information:</b>  |   |  |   |                         |                         |
| 2  |   | 2013-07-08-ResponseAsFiled-EQUI0016.pdf          | 226609<br>f5581262ff5cc120c24c6f7cb071907ee9fd77ca    | yes                     | 18                      |
| <b>Multipart Description/PDF files in .zip description</b> |   |  |   |                         |                         |
|  |   | <b>Document Description</b>                      | <b>Start</b>  | <b>End</b>              |                         |
|  |   | Response After Final Action                      | 1   | 1                       |                         |
|  |   | Claims   | 2   | 14                      |                         |
|  |   | Applicant Arguments/Remarks Made in an Amendment | 15  | 17                      |                         |
|  |   | Extension of Time                                | 18  | 18                      |                         |
| <b>Warnings:</b>   |   |  |   |                         |                         |
| <b>Information:</b>  |   |  |   |                         |                         |
| 3  | Fee Worksheet (SB06)                      | fee-info.pdf                                     | 32008<br>5a001e603c12a683a12e3fabe498120146c<br>db806 | no                      | 2                       |
| <b>Warnings:</b>   |   |  |   |                         |                         |
| <b>Information:</b>  |   |  |   |                         |                         |
| <b>Total Files Size (in bytes):</b>                        |   |  | 485158  |                         |                         |

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|   |   |                                  |                                       |
|---|---|----------------------------------|---------------------------------------|
| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875 | Application or Docket Number<br><b>12/173,747</b> | Filing Date<br><b>07/15/2008</b> | <input type="checkbox"/> To be Mailed |
|---|---|----------------------------------|---------------------------------------|

ENTITY:  LARGE  SMALL  MICRO

**APPLICATION AS FILED – PART I**

| FOR  | NUMBER FILED  | NUMBER EXTRA | RATE (\$) | FEE (\$) |
|--|---|--------------|-----------|----------|
| <input type="checkbox"/> BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))        | N/A   | N/A          | N/A       |          |
| <input type="checkbox"/> SEARCH FEE<br>(37 CFR 1.16(k), (i), or (m))       | N/A   | N/A          | N/A       |          |
| <input type="checkbox"/> EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))  | N/A   | N/A          | N/A       |          |
| TOTAL CLAIMS<br>(37 CFR 1.16(i))   | minus 20 = *  |              | X \$ =    |          |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                     | minus 3 = *   |              | X \$ =    |          |
| <input type="checkbox"/> APPLICATION SIZE FEE<br>(37 CFR 1.16(s))          | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |              |           |          |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j)) |   |              |           |          |
| * If the difference in column 1 is less than zero, enter "0" in column 2.  |   |              | TOTAL     |          |

**APPLICATION AS AMENDED – PART II**

|                  | (Column 1)   | (Column 2)                       | (Column 3)                         | (Column 4)    | RATE (\$)       | ADDITIONAL FEE (\$) |  |
|------------------|--|----------------------------------|------------------------------------|---------------|-----------------|---------------------|--|
| <b>AMENDMENT</b> | <b>07/08/2013</b>  | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |                 |                     |  |
|                  | Total (37 CFR 1.16(i))   | * 33                             | Minus                              | ** 33         | = 0             |                     |  |
|                  | Independent (37 CFR 1.16(h))   | * 8                              | Minus                              | ***8          | = 0             |                     |  |
|                  | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                           |                                  |                                    |               |                 |                     |  |
|                  | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |                                  |                                    |               |                 |                     |  |
|                  |  |                                  |                                    |               | TOTAL ADD'L FEE | <b>0</b>            |  |

|                  | (Column 1)   | (Column 2)                       | (Column 3)                         | (Column 4)    | RATE (\$)       | ADDITIONAL FEE (\$) |  |
|------------------|--|----------------------------------|------------------------------------|---------------|-----------------|---------------------|--|
| <b>AMENDMENT</b> |  | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |                 |                     |  |
|                  | Total (37 CFR 1.16(i))   | *                                | Minus                              | **            | =               |                     |  |
|                  | Independent (37 CFR 1.16(h))   | *                                | Minus                              | ***           | =               |                     |  |
|                  | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                           |                                  |                                    |               |                 |                     |  |
|                  | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |                                  |                                    |               |                 |                     |  |
|                  |  |                                  |                                    |               | TOTAL ADD'L FEE |                     |  |

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

SLIE  
/TONGELINA TUBBS/

This collection of information is required by 37 CFR 1.16. 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 1.14. This collection is estimated to take 12 minutes 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: 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.

### REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)

|                      |             |             |            |                               |                  |          |      |
|----------------------|-------------|-------------|------------|-------------------------------|------------------|----------|------|
| Application Number   | 12173747    | Filing Date | 2008-07-15 | Docket Number (if applicable) | 110595-8016.US01 | Art Unit | 2455 |
| First Named Inventor | Sean Barger |             |            | Examiner Name                 | Charles Murphy   |          |      |

**This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.**  
 Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

#### SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

- Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
  - Consider the arguments in the Appeal Brief or Reply Brief previously filed on \_\_\_\_\_
  - Other Response and After Final Consideration Pilot Program 2.0 request filed 07/08/2013
- Enclosed
  - Amendment/Reply
  - Information Disclosure Statement (IDS)
  - Affidavit(s)/ Declaration(s)
  - Other \_\_\_\_\_

#### MISCELLANEOUS

- Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months \_\_\_\_\_  
 (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)
- Other \_\_\_\_\_

#### FEES

- The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**  
 The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to  
 Deposit Account No 502207

#### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

- Patent Practitioner Signature
- Applicant Signature



Doc code: RCEX

PTO/SB/30EFS (07-09)

Doc description: Request for Continued Examination (RCE)

Approved for use through 07/31/2012. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| Signature of Registered U.S. Patent Practitioner |                   |                     |            |
|--|-------------------|---------------------|------------|
| Signature  | /Julia A. Thomas/ | Date (YYYY-MM-DD)   | 2013-08-06 |
| Name   | Julia A. Thomas   | Registration Number | 52283      |

This collection of information is required by 37 CFR 1.114. 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 12 minutes 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.

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

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|   |                                |                                      |                         |          |
|---|--------------------------------|--------------------------------------|-------------------------|----------|
| <b>PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)</b>   |                                | Docket Number (Optional)<br>EQUI0016 |                         |          |
| Application Number<br>12173747  | Filed<br>07/15/2008            |                                      |                         |          |
| For<br><b>AUTOMATED MEDIA DELIVERY SYSTEM</b>   |                                |                                      |                         |          |
| Art Unit<br>2455  | Examiner<br>Murphy, Charles C. |                                      |                         |          |
| This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.<br>The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):   |                                |                                      |                         |          |
|   | <u>Fee</u>                     | <u>Small Entity Fee</u>              | <u>Micro Entity Fee</u> |          |
| <input type="checkbox"/> One month (37 CFR 1.17(a)(1))  | \$200                          | \$100                                | \$50                    | \$ _____ |
| <input type="checkbox"/> Two months (37 CFR 1.17(a)(2))   | \$600                          | \$300                                | \$150                   | \$ _____ |
| <input checked="" type="checkbox"/> Three months (37 CFR 1.17(a)(3))  | \$1,400                        | \$700                                | \$350                   | \$ 700   |
| <input type="checkbox"/> Four months (37 CFR 1.17(a)(4))  | \$2,200                        | \$1,100                              | \$550                   | \$ _____ |
| <input type="checkbox"/> Five months (37 CFR 1.17(a)(5))  | \$3,000                        | \$1,500                              | \$750                   | \$ _____ |
| <input checked="" type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27.<br><input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29.<br>Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.<br><input type="checkbox"/> A check in the amount of the fee is enclosed.<br><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.<br><input type="checkbox"/> The Director has already been authorized to charge fees in this application to a Deposit Account.<br><input checked="" type="checkbox"/> The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to<br>Deposit Account Number <u>502207</u> .<br><input checked="" type="checkbox"/> Payment made via EFS-Web. |                                |                                      |                         |          |
| <b>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.</b>   |                                |                                      |                         |          |
| I am the  |                                |                                      |                         |          |
| <input type="checkbox"/> applicant/inventor.<br><input type="checkbox"/> assignee of record of the entire interest. See 37 CFR 3.71. 37 CFR 3.73(b) statement is enclosed (Form PTO/SB/96).<br><input checked="" type="checkbox"/> attorney or agent of record. Registration number <u>52283</u> .<br><input type="checkbox"/> attorney or agent acting under 37 CFR 1.34. Registration number _____  |                                |                                      |                         |          |
| <u>/Julia A. Thomas/</u>  |                                | <u>08/06/2013</u>                    |                         |          |
| Signature   |                                | Date                                 |                         |          |
| <u>Julia A. Thomas</u>  |                                | <u>650-838-4399</u>                  |                         |          |
| Typed or printed name   |                                | Telephone Number                     |                         |          |
| <b>NOTE:</b> This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below.  |                                |                                      |                         |          |
| <input checked="" type="checkbox"/> * Total of <u>1</u> forms are submitted.  |                                |                                      |                         |          |

This collection of information is required by 37 CFR 1.136(a). 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 6 minutes 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: 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.

## Electronic Patent Application Fee Transmittal

|  |                                 |                 |               |                             |
|--|---------------------------------|-----------------|---------------|-----------------------------|
| <b>Application Number:</b>                     | 12173747                        |                 |               |                             |
| <b>Filing Date:</b>                            | 15-Jul-2008                     |                 |               |                             |
| <b>Title of Invention:</b>                     | Automated Media Delivery System |                 |               |                             |
| <b>First Named Inventor/Applicant Name:</b>    | Sean Barger                     |                 |               |                             |
| <b>Filer:</b>                                  | Michael Glenn/Christine Ortt    |                 |               |                             |
| <b>Attorney Docket Number:</b>                 | 110595-8016.US01                |                 |               |                             |
| Filed as Small Entity                          |                                 |                 |               |                             |
| <b>Utility under 35 USC 111(a) Filing Fees</b> |                                 |                 |               |                             |
| <b>Description</b>                             | <b>Fee Code</b>                 | <b>Quantity</b> | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                           |                                 |                 |               |                             |
| <b>Pages:</b>                                  |                                 |                 |               |                             |
| <b>Claims:</b>                                 |                                 |                 |               |                             |
| <b>Miscellaneous-Filing:</b>                   |                                 |                 |               |                             |
| <b>Petition:</b>                               |                                 |                 |               |                             |
| <b>Patent-Appeals-and-Interference:</b>        |                                 |                 |               |                             |
| <b>Post-Allowance-and-Post-Issuance:</b>       |                                 |                 |               |                             |
| <b>Extension-of-Time:</b>                      |                                 |                 |               |                             |
| Extension - 3 months with \$300 paid           | 2253                            | 1               | 400           | 400                         |

| Description                      | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|----------------------------------|----------|----------|--------|----------------------|
| <b>Miscellaneous:</b>            |          |          |        |                      |
| RCE - 2nd and Subsequent Request | 2820     | 1        | 850    | 850                  |
| <b>Total in USD (\$)</b>         |          |          |        | <b>1250</b>          |

## Electronic Acknowledgement Receipt

|   |                                 |
|---|---------------------------------|
| <b>EFS ID:</b>                              | 16518967                        |
| <b>Application Number:</b>                  | 12173747                        |
| <b>International Application Number:</b>    |                                 |
| <b>Confirmation Number:</b>                 | 7377                            |
| <b>Title of Invention:</b>                  | Automated Media Delivery System |
| <b>First Named Inventor/Applicant Name:</b> | Sean Barger                     |
| <b>Customer Number:</b>                     | 22862                           |
| <b>Filer:</b>                               | Michael Glenn/Christine Ortt    |
| <b>Filer Authorized By:</b>                 | Michael Glenn                   |
| <b>Attorney Docket Number:</b>              | 110595-8016.US01                |
| <b>Receipt Date:</b>                        | 06-AUG-2013                     |
| <b>Filing Date:</b>                         | 15-JUL-2008                     |
| <b>Time Stamp:</b>                          | 20:56:12                        |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)     |

### Payment information:

|  |                  |
|--|------------------|
| Submitted with Payment                   | yes              |
| Payment Type                             | Credit Card      |
| Payment was successfully received in RAM | \$1250           |
| RAM confirmation Number                  | 6772             |
| Deposit Account                          | 502207           |
| Authorized User                          | PERKINS COIE LLP |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

### File Listing:

| Document Number                     | Document Description                    | File Name                     | File Size(Bytes)/<br>Message Digest      | Multi Part /.zip | Pages (if appl.) |
|-------------------------------------|---|-------------------------------|--|------------------|------------------|
| 1                                   | Request for Continued Examination (RCE) | RCE_as_filed.pdf              | 697853                                   | no               | 3                |
|                                     |   |                               | cea8c9d04fd9bd37e9b97ea3aa4a235651d985dd |                  |                  |
| <b>Warnings:</b>                    |   |                               |  |                  |                  |
| <b>Information:</b>                 |   |                               |  |                  |                  |
| 2                                   | Extension of Time                       | Extension_as_filed_8-6-13.pdf | 105919                                   | no               | 1                |
|                                     |   |                               | b9c90eb7822ba9523cd0c35566639a738fd9222  |                  |                  |
| <b>Warnings:</b>                    |   |                               |  |                  |                  |
| <b>Information:</b>                 |   |                               |  |                  |                  |
| 3                                   | Fee Worksheet (SB06)                    | fee-info.pdf                  | 32159                                    | no               | 2                |
|                                     |   |                               | 74faa323375fe09c2a91b98c45892a1386b9969e |                  |                  |
| <b>Warnings:</b>                    |   |                               |  |                  |                  |
| <b>Information:</b>                 |   |                               |  |                  |                  |
| <b>Total Files Size (in bytes):</b> |   |                               | 835931                                   |                  |                  |

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

#### **New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

#### **National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

#### **New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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|   |   |                                  |                                       |
|---|---|----------------------------------|---------------------------------------|
| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875 | Application or Docket Number<br><b>12/173,747</b> | Filing Date<br><b>07/15/2008</b> | <input type="checkbox"/> To be Mailed |
|---|---|----------------------------------|---------------------------------------|

ENTITY:  LARGE  SMALL  MICRO

**APPLICATION AS FILED – PART I**

| FOR  | NUMBER FILED  | NUMBER EXTRA | RATE (\$) | FEE (\$) |
|--|---|--------------|-----------|----------|
| <input type="checkbox"/> BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))        | N/A   | N/A          | N/A       |          |
| <input type="checkbox"/> SEARCH FEE<br>(37 CFR 1.16(k), (j), or (m))       | N/A   | N/A          | N/A       |          |
| <input type="checkbox"/> EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))  | N/A   | N/A          | N/A       |          |
| TOTAL CLAIMS<br>(37 CFR 1.16(i))   | minus 20 = *  |              | X \$ =    |          |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                     | minus 3 = *   |              | X \$ =    |          |
| <input type="checkbox"/> APPLICATION SIZE FEE<br>(37 CFR 1.16(s))          | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |              |           |          |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j)) |   |              |           |          |
| * If the difference in column 1 is less than zero, enter "0" in column 2.  |   |              | TOTAL     |          |

**APPLICATION AS AMENDED – PART II**

|  | (Column 1)   | (Column 2)                       | (Column 3)                         | (Column 4)    | RATE (\$)       | ADDITIONAL FEE (\$) |
|--|--|----------------------------------|------------------------------------|---------------|-----------------|---------------------|
| <b>AMENDMENT</b>   | <b>08/06/2013</b>  | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |                 |                     |
|  | Total (37 CFR 1.16(i))   | * 33                             | Minus                              | ** 33         | = 0             | x \$40 = 0          |
|  | Independent (37 CFR 1.16(h))                                   | * 6                              | Minus                              | ***6          | = 0             | x \$210 = 0         |
|  | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s)) |                                  |                                    |               |                 |                     |
| <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |                                  |                                    |               |                 |                     |
|  |  |                                  |                                    |               | TOTAL ADD'L FEE | <b>0</b>            |

|  | (Column 1)   | (Column 2)                       | (Column 3)                         | (Column 4)    | RATE (\$)       | ADDITIONAL FEE (\$) |
|--|--|----------------------------------|------------------------------------|---------------|-----------------|---------------------|
| <b>AMENDMENT</b>   |  | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |                 |                     |
|  | Total (37 CFR 1.16(i))   | *                                | Minus                              | **            | =               | X \$ =              |
|  | Independent (37 CFR 1.16(h))                                   | *                                | Minus                              | ***           | =               | X \$ =              |
|  | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s)) |                                  |                                    |               |                 |                     |
| <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |                                  |                                    |               |                 |                     |
|  |  |                                  |                                    |               | TOTAL ADD'L FEE |                     |

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE  
/FRANCES FIELDS/

This collection of information is required by 37 CFR 1.16. 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 1.14. This collection is estimated to take 12 minutes 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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Document code: WFEE

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|   |   |                                  |                                       |
|---|---|----------------------------------|---------------------------------------|
| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875 | Application or Docket Number<br><b>12/173,747</b> | Filing Date<br><b>07/15/2008</b> | <input type="checkbox"/> To be Mailed |
|---|---|----------------------------------|---------------------------------------|

ENTITY:  LARGE  SMALL  MICRO

**APPLICATION AS FILED – PART I**

| FOR  | NUMBER FILED  | NUMBER EXTRA | RATE (\$) | FEE (\$) |
|--|---|--------------|-----------|----------|
| <input type="checkbox"/> BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))        | N/A   | N/A          | N/A       |          |
| <input type="checkbox"/> SEARCH FEE<br>(37 CFR 1.16(k), (i), or (m))       | N/A   | N/A          | N/A       |          |
| <input type="checkbox"/> EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))  | N/A   | N/A          | N/A       |          |
| TOTAL CLAIMS<br>(37 CFR 1.16(i))   | minus 20 = *  |              | X \$ =    |          |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                     | minus 3 = *   |              | X \$ =    |          |
| <input type="checkbox"/> APPLICATION SIZE FEE<br>(37 CFR 1.16(s))          | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |              |           |          |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j)) |   |              |           |          |
| * If the difference in column 1 is less than zero, enter "0" in column 2.  |   |              | TOTAL     |          |

**APPLICATION AS AMENDED – PART II**

| AMENDMENT | 10/06/2013   | CLAIMS REMAINING AFTER AMENDMENT | MINUS | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$)       | ADDITIONAL FEE (\$) |
|-----------|--|----------------------------------|-------|------------------------------------|---------------|-----------------|---------------------|
|           | Total (37 CFR 1.16(i))   | * 17                             | Minus | ** 33                              | = 0           | X \$40 =        | 0                   |
|           | Independent (37 CFR 1.16(h))   | * 3                              | Minus | ***6                               | = 0           | X \$210 =       | 0                   |
|           | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                           |                                  |       |                                    |               |                 |                     |
|           | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |                                  |       |                                    |               |                 |                     |
|           |  |                                  |       |                                    |               | TOTAL ADD'L FEE | <b>0</b>            |

| AMENDMENT | CLAIMS REMAINING AFTER AMENDMENT   | MINUS | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$) | ADDITIONAL FEE (\$) |  |
|-----------|--|-------|------------------------------------|---------------|-----------|---------------------|--|
|           | Total (37 CFR 1.16(i))   | *     | Minus                              | **            | =         | X \$ =              |  |
|           | Independent (37 CFR 1.16(h))   | *     | Minus                              | ***           | =         | X \$ =              |  |
|           | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                           |       |                                    |               |           |                     |  |
|           | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |       |                                    |               |           |                     |  |
|           |  |       |                                    |               |           | TOTAL ADD'L FEE     |  |

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE  
/VIOLA ROGERS/

This collection of information is required by 37 CFR 1.16. 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 1.14. This collection is estimated to take 12 minutes 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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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NOTICE OF ALLOWANCE AND FEE(S) DUE

22862 7590 10/09/2013
GLENN PATENT GROUP
c/o Perkins Coie LLP
P.O. Box 1247
Seattle, WA 98111-1247

EXAMINER

MURPHY, CHARLES C

ART UNIT PAPER NUMBER

2455

DATE MAILED: 10/09/2013

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
12/173,747 07/15/2008 Sean Barger 110595-8016.US01 7377

TITLE OF INVENTION: Automated Media Delivery System

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional SMALL \$890 \$300 \$0 \$1190 01/09/2014

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.
If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.
If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".
For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

**PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 or Fax (571)-273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

22862 7590 10/09/2013  
**GLENN PATENT GROUP**  
 c/o Perkins Coie LLP  
 P.O. Box 1247  
 Seattle, WA 98111-1247

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

**Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

|                    |
|--------------------|
| (Depositor's name) |
| (Signature)        |
| (Date)             |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 12/173,747      | 07/15/2008  | Sean Barger          | 110595-8016.US01    | 7377             |

TITLE OF INVENTION: Automated Media Delivery System

| APPLN. TYPE    | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | SMALL         | \$890         | \$300               | \$0                  | \$1190           | 01/09/2014 |

| EXAMINER          | ART UNIT | CLASS-SUBCLASS |
|-------------------|----------|----------------|
| MURPHY, CHARLES C | 2455     | 709-236000     |

|   |   |
|---|---|
| <p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. <b>Use of a Customer Number is required.</b></p> | <p>2. For printing on the patent front page, list</p> <p>(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____</p> <p>(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____</p> <p>3 _____</p> |
|---|---|

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE \_\_\_\_\_ (B) RESIDENCE: (CITY and STATE OR COUNTRY) \_\_\_\_\_

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

|   |  |
|---|--|
| <p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p> | <p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p> |
|---|--|

5. **Change in Entity Status** (from status indicated above)

- Applicant certifying micro entity status. See 37 CFR 1.29
- Applicant asserting small entity status. See 37 CFR 1.27
- Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see form PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

---

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

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This collection of information is required by 37 CFR 1.311. 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 1.14. This collection is estimated to take 12 minutes 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO., EXAMINER, ART UNIT, PAPER NUMBER. Includes details for application 12/173,747 filed 07/15/2008 by Sean Barger, attorney 110595-8016.US01, examiner MURPHY, CHARLES C, art unit 2455.

DATE MAILED: 10/09/2013

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 384 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 384 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Privacy Act Statement

**The Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**Notices of Allowance and Fee(s) Due mailed between October 1, 2013 and  
December 31, 2013**

(Addendum to PTOL-85)

If the "Notice of Allowance and Fee(s) Due" has a mailing date on or after October 1, 2013 and before January 1, 2014, the following information is applicable to this application.

If the issue fee is being timely paid on or after January 1, 2014, the amount due is the issue fee and publication fee in effect January 1, 2014. On January 1, 2014, the issue fees set forth in 37 CFR 1.18 decrease significantly and the publication fee set forth in 37 CFR 1.18(d)(1) decreases to \$0.

If an issue fee or publication fee has been previously paid in this application, applicant is not entitled to a refund of the difference between the amount paid and the amount in effect on January 1, 2014.



|                               |                                      |                                      |  |
|-------------------------------|--------------------------------------|--------------------------------------|--|
| <b>Notice of Allowability</b> | <b>Application No.</b><br>12/173,747 | <b>Applicant(s)</b><br>BARGER ET AL. |  |
|                               | <b>Examiner</b><br>CHARLES MURPHY    | <b>Art Unit</b><br>2455              | <b>AIA (First Inventor to File) Status</b><br>No |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to the RCE filed 08/06/2013.  
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on \_\_\_\_\_.
2.  An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_\_; the restriction requirement and election have been incorporated into this action.
3.  The allowed claim(s) is/are 1.2,5-12,15-20 and 22. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see [http://www.uspto.gov/patents/init\\_events/pph/index.jsp](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to [PPHfeedback@uspto.gov](mailto:PPHfeedback@uspto.gov).
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

**Certified copies:**

- a)  All    b)  Some    \*c)  None of the:
1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  
 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date <u>06/13/2013</u></li> <li>3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> <li>4. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____.</li> </ol> | <ol style="list-style-type: none"> <li>5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>7. <input type="checkbox"/> Other _____.</li> </ol> |
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### Examiner's Amendment

The present application is being examined under the pre-AIA first to invent provisions.

1. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this Examiner's Amendment was given in a telephone interview on 09/24/2013 with the Applicant's Representative, Michael Glenn (Reg. 30,176)
3. Please amend claims 1, 3, 11, 13, 19, and 23-36 as below:

Claim 1. (Currently Amended) A method for providing simultaneous transcoding of multi- media data, comprising:

receiving a multi-media file in a first format;

receiving a request **with proprietary tags containing parameters as part of a URL** for said multi-media file to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities;

automatically determining, at the time of the request, one or more formats requested based on said one or more ~~data-format~~ **proprietary** tags,

~~determining~~ **parsing said parameters to determine** client connection speed, server traffic, browser, and device based upon said client connection speed, said server traffic, polled device, browser, and other variables collected at the time of said request, and one or more content, generation procedures, automatically transcoding, at the time of the request and without input by a network administrator, data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities of the at least two output devices; and

**wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format; and**

transmitting simultaneously with said transcoding said multi-media file to each output device from among said plurality of output devices in a compatible format.

Claim 3. (Canceled)

Claim 11. (Currently Amended) A system for providing simultaneous transcoding of multi-media data, comprising:

a controller for receiving a multi-media file in a first format and, responsive to a request **with proprietary tags containing parameters as part of a URL** for said multi-media file, for transmitting said multi-media file to an output device from among a plurality of output devices, wherein at least two output devices from said plurality of output devices output file formats with incompatible capabilities; and

a transcoder, coupled to said controller and said request parser, for **parsing said parameters to determine** ~~determining~~ client connection speed, server traffic, browser, and device based upon said client connection speed, said server traffic, polled device, browser, and other variables collected at the time of said request, and one or more content generation procedures, and for automatically

transcoding, at the time of said request, data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of output devices are different from said first format, while said multi-media file is transmitted to said output device, wherein said transcoder is configured for:

changing a resolution of said data within said multi-media file based on the resolution capabilities the at least two output devices,

changing a frame rate of said data within said multi-media file based on the frame rate capabilities the at least two output devices, and

changing a compression format of said data within said multi-media file based on the compression capabilities the at least two output devices;

**and**

**wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.**

Claim 13. (Canceled)

Claim 19. (Currently Amended) A non-transitory computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the

Art Unit: 2455

steps of a method for providing simultaneous transcoding of multi-media data, comprising:

receiving a multi-media file in a first format;

receiving a request **with proprietary tags containing parameters as part of a URL** for said multi-media file and transmitting said multi-media file to an output device; and

automatically determining, at the time of the request, one or more formats requested based on said one or more ~~data-format~~ **proprietary** tags,

**parsing said parameters to determine** ~~determining~~ client connection speed, server traffic, browser, and device based upon said client connection speed, said server traffic, polled device, browser, and other variables collected at the time of said request, and one or more content generation procedures, and automatically transcoding, at the time of the request, data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format, wherein said transcoder is configured for changing each of: a resolution of said data within said multi-media file based on resolution capabilities of at least two output devices, a frame rate of said data within said

multi-media file based on frame rate capabilities of at least two output devices, and a compression format of said data within said multi-media file based on compression capabilities of at least two output devices;

wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format.

transmitting simultaneously with said transcoding said multi-media file to each output device from among said plurality of output devices in a compatible format.

Claim 23- 36. (Canceled)

#### **Reasons for Allowance**

4. Claims 1-2, 5-12, 15-20 and 22 are allowed
5. The following is an Examiner's statement of reasons for allowance:

In interpreting the currently amended claims, in light of the specification, the Examiner finds the claimed invention to be patentably distinct from the prior art of records.

**Suzuki et al. US Patent 6,463,445 (hereinafter referred to as Suzuki)**

teaches receiving multi-media data in a first format; (*Suzuki teaches a data*

*access server used to receive media files from a multimedia server and transcode media files into a requested format) (Suzuki, col. 6, lines 20-55)*

receiving a request for said multi-media data to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities; (**Suzuki** teaches a user sending a request for content from a client to a server system. It is well known in the art for multiple clients can request the same media data in different formats. Because the requested media in the system of **Suzuki** is formatted to specified clients, regardless of the base media format stored in the data server, it would be obvious that various devices with different media requirements would be able to request the same media and have it outputted in the correct format to requesting devices. ) (**Suzuki, col. 6, lines 55-67**)

automatically transcoding, at the time of the request and without input by a network administrator, said multi-media data into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format. (**Suzuki** teaches a transcoding system using client identification information received at the time of request to determine the transcoding parameters required to properly display requested content on a client device and to transcode the request media to said format.) (**Suzuki, col. 7, lines 20-35; col. 8, lines 24-65**)



**Bhagwat et al. US Patent 6,563,517 (hereinafter referred to as Bhagwat)** teaches transmitting simultaneously with said transcoding said multi-media data to each output device from among said plurality of output devices in a compatible format. (**Bhagwat** teaches transcoding multi-media simultaneously to multiple different format on the fly and outputting said format to multiple devices )(Bhagwat, col. 4, lines 10-15col. 6, lines 19-24; col. 7, lines 16-24)

**Lund et al. US Patent Application Publication 2005/0091311 (hereinafter referred to as Lund)** teaches wherein said transcoding comprises each of: changing a resolution of said multi- media data based on the resolution capabilities of the at least two output devices, changing a frame rate of said multi-media data based on the frame rate capabilities of the at least two output devices, and changing a compression format of said multi-media data based on the compression capabilities of the at least two output devices; and (**Lund teaches the ability to transmit parameters to a server running on a host. These parameters include client requirements frame rate, compression and resolution. These parameters can either be selected by the user or surveyed from the client by the application**)(Lund, paragraphs 20, 113 and 144)

said multi-media data is a file (**Lund teaches transforming image files based on client parameters**)(Lund, paragraphs 20, 113 and 144)

However, the prior art of records, individually or in combination, fail to explicitly teach or render obvious a method comprising the steps of:

Claim 1. (Currently Amended) A method for providing simultaneous transcoding of multi- media data, comprising:

receiving a multi-media file in a first format;

receiving a request **with proprietary tags containing parameters as part of a URL** for said multi-media file to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities;

automatically determining, at the time of the request, one or more formats requested based on said one or more **proprietary** tags,

**parsing said parameters to determine** client connection speed, server traffic, browser, and device based upon said client connection speed, said server traffic, polled device, browser, and other variables collected at the time of said request, and one or more content, generation procedures, automatically transcoding, at the time of the request and without input by a network administrator, data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output

devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities of the at least two output devices; and

**wherein said first format is an analog format and wherein said at least one alternate format comprises a first digital format and a second digital format; and**

transmitting simultaneously with said transcoding said multi-media file to each output device from among said plurality of output devices in a compatible format.

The Examiner finds the combination of prior art of records fail to disclose the features of the invention including receiving a request **with proprietary tags containing parameters as part of a URL** for said multi-media file to a plurality of output devices, wherein at least two devices from said plurality of output devices output file formats with incompatible capabilities; **parsing said parameters to determine** client connection speed, server traffic, browser, and device based upon said client

connection speed, said server traffic, polled device, browser, and other variables collected at the time of said request, and one or more content, generation procedures, automatically transcoding, at the time of the request and without input by a network administrator, data within said multi-media file into a plurality of formats based on one or more formats of any output device from among the plurality of output devices, wherein said plurality of formats are different from said first format wherein said transcoding comprises each of: changing a resolution of said data within said multi-media file based on the resolution capabilities of the at least two output devices, changing a frame rate of said data within said multi-media file based on the frame rate capabilities of the at least two output devices, and changing a compression format of said data within said multi-media file based on the compression capabilities of the at least two output devices; and as claimed in the invention to modify any of these inputs and have the system automatically update the media on the associated Web Pages. **(Specifications, page 10, lines 10-15)**

Dependent claims 2, 5-10, 12-13, 15-18, 20 and 22 further limit the allowed independent claims 1, 11, and 19 therefore, they are allowed.

Any comments considered necessary by the applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should clearly be labeled "Comments on Examiner's Amendment"

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHARLES MURPHY whose telephone number is (571)270-5444. The examiner can normally be reached on 8AM - 5PM Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHARLES MURPHY/  
Examiner, Art Unit 2455

/David Lazaro/  
Primary Examiner, Art Unit 2455

|                                   |                                       |   |             |
|-----------------------------------|---------------------------------------|---|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>12/173,747 | Applicant(s)/Patent Under<br>Reexamination<br>BARGER ET AL. |             |
|                                   | Examiner<br>CHARLES MURPHY            | Art Unit<br>2455  | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name                | Classification |
|---|--|-----------------|---------------------|----------------|
| * | A US-2005/0091311                                | 04-2005         | Lund et al.         | 709/203        |
| * | B US-6,463,445                                   | 10-2002         | Suzuki et al.       | 1/1            |
| * | C US-6,909,708                                   | 06-2005         | Krishnaswamy et al. | 370/352        |
| * | D US-6,563,517                                   | 05-2003         | Bhagwat et al.      | 715/735        |
| E | US-  |                 |                     |                |
| F | US-  |                 |                     |                |
| G | US-  |                 |                     |                |
| H | US-  |                 |                     |                |
| I | US-  |                 |                     |                |
| J | US-  |                 |                     |                |
| K | US-  |                 |                     |                |
| L | US-  |                 |                     |                |
| M | US-  |                 |                     |                |

**FOREIGN PATENT DOCUMENTS**


| * | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
|---|--|-----------------|---------|------|----------------|
| N |  |                 |         |      |                |
| O |  |                 |         |      |                |
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| Q |  |                 |         |      |                |
| R |  |                 |         |      |                |
| S |  |                 |         |      |                |
| T |  |                 |         |      |                |

**NON-PATENT DOCUMENTS**

| * | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|
| U |   |
| V |   |
| W |   |
| X |   |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.




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| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br>BARGER ET AL. |
|  | <b>Examiner</b><br>CHARLES MURPHY          | <b>Art Unit</b><br>2455   |

| US ORIGINAL CLASSIFICATION |                                   |          |  |  | INTERNATIONAL CLASSIFICATION |   |   |   |                  |             |  |  |  |  |  |  |  |  |  |
|----------------------------|-----------------------------------|----------|--|--|------------------------------|---|---|---|------------------|-------------|--|--|--|--|--|--|--|--|--|
| CLASS                      |                                   | SUBCLASS |  |  | CLAIMED                      |   |   |   |                  | NON-CLAIMED |  |  |  |  |  |  |  |  |  |
| 709                        |                                   | 236      |  |  | G                            | 0 | 6 | F | 15 / 16 (2006.0) |             |  |  |  |  |  |  |  |  |  |
| <b>CROSS REFERENCE(S)</b>  |                                   |          |  |  |                              |   |   |   |                  |             |  |  |  |  |  |  |  |  |  |
| CLASS                      | SUBCLASS (ONE SUBCLASS PER BLOCK) |          |  |  |                              |   |   |   |                  |             |  |  |  |  |  |  |  |  |  |
| 709                        | 231                               |          |  |  |                              |   |   |   |                  |             |  |  |  |  |  |  |  |  |  |
| 370                        | 465                               | 470      |  |  |                              |   |   |   |                  |             |  |  |  |  |  |  |  |  |  |
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| /CHARLES MURPHY/<br>Examiner.Art Unit 2455<br><br>(Assistant Examiner)     | 09/30/2013<br><br>(Date) | <b>Total Claims Allowed:</b><br><br>17 |                            |
| /DAVID LAZARO/<br>Primary Examiner.Art Unit 2455<br><br>(Primary Examiner) | 09/30/2013<br><br>(Date) | O.G. Print Claim(s)<br><br>1           | O.G. Print Figure<br><br>1 |



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| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br>BARGER ET AL. |
|  | <b>Examiner</b><br>CHARLES MURPHY          | <b>Art Unit</b><br>2455   |

| <input type="checkbox"/> <b>Claims renumbered in the same order as presented by applicant</b> <input type="checkbox"/> <b>CPA</b> <input type="checkbox"/> <b>T.D.</b> <input type="checkbox"/> <b>R.1.47</b> |          |       |          |       |          |       |          |       |          |       |          |       |          |       |          |
|---|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| Final   | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original |
| 1   | 1        | 13    | 17       |       | 33       |       |          |       |          |       |          |       |          |       |          |
| 2   | 2        | 14    | 18       |       | 34       |       |          |       |          |       |          |       |          |       |          |
|   | 3        | 15    | 19       |       | 35       |       |          |       |          |       |          |       |          |       |          |
|   | 4        | 16    | 20       |       | 36       |       |          |       |          |       |          |       |          |       |          |
| 3   | 5        |       | 21       |       |          |       |          |       |          |       |          |       |          |       |          |
| 4   | 6        | 17    | 22       |       |          |       |          |       |          |       |          |       |          |       |          |
| 5   | 7        |       | 23       |       |          |       |          |       |          |       |          |       |          |       |          |
| 6   | 8        |       | 24       |       |          |       |          |       |          |       |          |       |          |       |          |
| 7   | 9        |       | 25       |       |          |       |          |       |          |       |          |       |          |       |          |
| 8   | 10       |       | 26       |       |          |       |          |       |          |       |          |       |          |       |          |
| 9   | 11       |       | 27       |       |          |       |          |       |          |       |          |       |          |       |          |
| 10  | 12       |       | 28       |       |          |       |          |       |          |       |          |       |          |       |          |
|   | 13       |       | 29       |       |          |       |          |       |          |       |          |       |          |       |          |
|   | 14       |       | 30       |       |          |       |          |       |          |       |          |       |          |       |          |
| 11  | 15       |       | 31       |       |          |       |          |       |          |       |          |       |          |       |          |
| 12  | 16       |       | 32       |       |          |       |          |       |          |       |          |       |          |       |          |

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| /CHARLES MURPHY/<br>Examiner.Art Unit 2455<br><br>(Assistant Examiner)     | 09/30/2013<br><br>(Date) | <b>Total Claims Allowed:</b><br><br>17 |                            |
| /DAVID LAZARO/<br>Primary Examiner.Art Unit 2455<br><br>(Primary Examiner) | 09/30/2013<br><br>(Date) | O.G. Print Claim(s)<br><br>1           | O.G. Print Figure<br><br>1 |

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| L4    | 4    | US-20070234213-\$.DID. OR US-20080186377-\$.DID.  | US-PGPUB; USPAT; USOCR; FPRS; JPO; DERWENT               | AND              | ON      | 2013/09/27 02:06 |
| L5    | 10   | ((SEAN) near2 (BARGER)).INV.  | US-PGPUB; USPAT; USOCR                                   | AND              | ON      | 2013/09/27 02:07 |
| L6    | 141  | ((STEVE) near2 (JOHNSON)).INV.  | US-PGPUB; USPAT; USOCR                                   | AND              | ON      | 2013/09/27 02:07 |
| L7    | 7    | ((JERRY) near2 (DESTREMP)).INV.   | US-PGPUB; USPAT; USOCR                                   | AND              | ON      | 2013/09/27 02:07 |
| L8    | 9    | ((MATT) near2 (BUTLER)).INV.  | US-PGPUB; USPAT; USOCR                                   | AND              | ON      | 2013/09/27 02:07 |
| L9    | 8    | ((DAVID) near2 (POCHRON)).INV.  | US-PGPUB; USPAT; USOCR                                   | AND              | ON      | 2013/09/27 02:07 |
| L10   | 6    | ((TRENT) near2 (BROWN)).INV.  | USPAT; USOCR   | AND              | ON      | 2013/09/27 02:07 |
| S1    | 1    | ("20090254672").PN.   | US-PGPUB; USPAT; USOCR                                   | OR               | OFF     | 2010/10/07 14:44 |
| S2    | 74   | ("5088052"   "5355472"   "5442771"   "5530852"   "5701451"   "5708845"   "5710918"   "5737619"   "5745908"   "5758110"   "5761555"   "5761655"   "5793964"   "5819261"   "5822436"   "5845084"   "5845299"   "5860068"   "5860073"   "5861881"   "5862325"   "5864337"   "5870552"   "5880740"   "5884337"   "5890170"   "5890170"   "5895476"   "5895476"   "5895477"   "5903892"   "5937160"   "5943680"   "5943680"   "5956737"   "5956737"   "6009436"   "6456305"   "6484149"   "6563517"   "6591280"   "6591280"   "6623529"   "6623529").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2010/10/07 14:48 |
| S3    | 2    | S2 (transcod\$4)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND              | ON      | 2010/10/07 14:49 |
| S4    | 74   | ("5088052"   "5355472"   "5442771"   "5530852"   "5701451"   "5708845"  | US-PGPUB; USPAT;   | AND              | ON      | 2010/10/07 14:51 |

EAST Search History

|     |    |  |  |     |    |                     |
|-----|----|--|--|-----|----|---------------------|
|     |    | "5710918"   "5737619"   "5745908"  <br>"5758110"   "5761555"   "5761655"  <br>"5793964"   "5819261"   "5822436"  <br>"5845084"   "5845299"   "5860068"  <br>"5860073"   "5861881"   "5862325"  <br>"5864337"   "5870552"   "5880740"  <br>"5884337"   "5890170"   "5890170"  <br>"5895476"   "5895476"   "5895477"  <br>"5903892"   "5937160"   "5943680"  <br>"5943680"   "5956737"   "5956737"  <br>"6009436"   "6456305"   "6484149"  <br>"6563517"   "6591280"   "6591280"  <br>"6623529"   "6623529").PN. | USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        |     |    |                     |
| S5  | 1  | S4 (transcod\$4 same cache)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>14:51 |
| S6  | 34 | (transcod\$4) same (content or media or file) near4 (concurrent\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:40 |
| S7  | 0  | (transcod\$4) same (content or media or file) near4 (concurrent\$3) @ad<"19991021"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:42 |
| S8  | 0  | (transcod\$4) same (content or media or file) near4 (concurrent\$3) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:42 |
| S9  | 15 | (transcod\$4) (content or media or file) near4 (concurrent\$3) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:42 |
| S10 | 10 | (transcod\$4) (content or media or file) same (deliver\$3 or send\$3 or transmit\$3) same (concurrent\$3 or simultan\$4) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>17:43 |
| S11 | 0  | (transcod\$4 same parameter) (content or media or file) same (deliver\$3 or send\$3 or transmit\$3) same (concurrent\$3 or simultan\$4) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2010/10/07<br>18:18 |

## EAST Search History

|     |      |  |  |     |    |                  |
|-----|------|--|--|-----|----|------------------|
| S12 | 2709 | (content or media or file) same (deliver\$3 or send\$3 or transmit\$3) same (concurrent\$3 or simultan\$4) @ay<"1999"                                    | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB | AND | ON | 2010/10/07 18:25 |
| S13 | 763  | (content or media or file) near5 (deliver\$3 or send\$3 or transmit\$3) same (concurrent\$3 or simultan\$4) @ay<"1999"                                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB | AND | ON | 2010/10/07 18:25 |
| S14 | 184  | (content or media or file) near5 (deliver\$3 or send\$3 or transmit\$3) near5 (concurrent\$3 or simultan\$4) @ay<"1999"                                  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB | AND | ON | 2010/10/07 18:25 |
| S15 | 41   | S14 (transcod\$3 or convert)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB | AND | ON | 2010/10/07 18:26 |
| S16 | 1    | S14 (transcod\$3)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB | AND | ON | 2010/10/07 18:26 |
| S17 | 25   | S14 (media.ti.)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB | AND | ON | 2010/10/07 18:27 |
| S18 | 3    | (content or media or file) near5 (transcod\$3 or convert\$3) same (deliver\$3 or send\$3 or transmit\$3) near5 (concurrent\$3 or simultan\$4) @ay<"1999" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB | AND | ON | 2010/10/07 18:30 |
| S19 | 157  | (content or media or file) near5 (transcod\$3 or convert\$3) (deliver\$3 or send\$3 or transmit\$3) near5 (concurrent\$3 or simultan\$4) @ay<"1999"      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB | AND | ON | 2010/10/07 18:30 |
| S20 | 6    | S19 (media.ti.)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;                  | AND | ON | 2010/10/07 18:30 |

## EAST Search History

|     |    |  |  |     |     |                     |
|-----|----|--|--|-----|-----|---------------------|
|     |    |  | DERWENT;<br>IBM_TDB  |     |     |                     |
| S21 | 22 | (content or media or file or audio or video or movie) near5 (transcod\$3 or convert\$3) same (deliver\$3 or send\$3 or transmit\$3) near5 (concurrent\$3 or simultan\$4) @ay< "1999" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:31 |
| S22 | 1  | ("5845279").PN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2010/10/07<br>18:35 |
| S23 | 0  | S22 concurent\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:35 |
| S24 | 0  | S22 concurrent\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:35 |
| S25 | 1  | S22 concurrent\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2010/10/07<br>18:35 |
| S26 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary) @ay< "1999"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:10 |
| S27 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary or foundation) @ay< "1999"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:10 |
| S28 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary or foundation or priliminary) @ay< "1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:11 |
| S29 | 13 | (transcod\$4) same (content or media or file) near4 (base or primary or foundation or preliminary) @ay< "1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16<br>16:12 |

## EAST Search History

|     |   |   |  |     |     |                      |
|-----|---|---|--|-----|-----|----------------------|
| S30 | 0 | (transcod\$4) near5 (profile) same (content or media or file) near4 (base or primary or foundation or preliminary) @ay<"1999" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16;<br>16:13 |
| S31 | 1 | (transcod\$4) near5 (profile) same (content or media or file) @ay<"1999"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/16;<br>16:13 |
| S32 | 1 | ("6359902").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/17;<br>17:35 |
| S33 | 0 | S32 cache   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/17;<br>17:35 |
| S34 | 1 | ("6563517").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22;<br>15:22 |
| S35 | 1 | ("5845279").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22;<br>15:23 |
| S36 | 1 | ("6909708").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22;<br>15:23 |
| S37 | 3 | S34 or S35 or S36   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22;<br>15:23 |
| S38 | 0 | S37 cache same media  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22;<br>15:23 |
| S39 | 2 | S37 cache   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22;<br>15:23 |
| S40 | 1 | S37 cache same transcode\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;            | AND | ON  | 2011/03/22;<br>15:24 |

## EAST Search History

|     |     |  | IBM_TDB  |     |     |                     |
|-----|-----|--|--|-----|-----|---------------------|
| S41 | 1   | ("6563517").PN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>16:33 |
| S42 | 1   | ("6909708").PN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/03/22<br>16:33 |
| S43 | 1   | S41 preferences same request   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/03/22<br>16:50 |
| S44 | 0   | (transcod\$4 adj profile) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18<br>20:46 |
| S45 | 2   | (transcod\$4 near5 profile) @ay<"1999"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18<br>20:57 |
| S46 | 106 | US-1182225-\$.DID. OR US-6147977-\$.DID. OR US-7149893-\$.DID. OR US-6829591-\$.DID. OR US-6442589-\$.DID. OR US-5327486-\$.DID. OR US-6892230-\$.DID. OR US-6748569-\$.DID. OR US-7221658-\$.DID. OR US-5400020-\$.DID. OR US-5623260-\$.DID. OR US-5657010-\$.DID. OR US-5668543-\$.DID. OR US-5708780-\$.DID. OR US-5796394-\$.DID. OR US-5870549-\$.DID. OR US-5875437-\$.DID. OR US-5937161-\$.DID. OR US-6029148-\$.DID. OR US-6052673-\$.DID. OR US-6073166-\$.DID. OR US-6151624-\$.DID. OR US-6154738-\$.DID. OR US-6157945-\$.DID. OR US-6185603-\$.DID. OR US-6212550-\$.DID. OR US-6216165-\$.DID. OR US-6219714-\$.DID. OR US-6278936-\$.DID. OR US-6314402-\$.DID. OR US-6313760-\$.DID. OR US-6317060-\$.DID. OR US-6363254-\$.DID. OR US-6363323-\$.DID. OR US-6411891-\$.DID. OR US-6415207-\$.DID. OR US-5899995-\$.DID. OR US-6314434-\$.DID. OR US-5742763-\$.DID. OR US-6513019-\$.DID. OR US-5073852-\$.DID. OR US-6542515-\$.DID. OR US-5805810-\$.DID. OR US-5819046-\$.DID. OR US-5579472-\$.DID. OR US-5828314-\$.DID. OR US-6167409-\$.DID. OR US-6347340-\$.DID. OR US-6430272-\$.DID. OR US-6442591-\$.DID. OR US-6438583-\$.DID. OR US-6836792-\$.DID. OR WO-0176119-\$.DID. OR WO-0175604-\$.DID. OR WO-0176264-\$.DID. OR WO-0180130-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2011/11/18<br>20:59 |

## EAST Search History

|     |     |   |  |     |     |                      |
|-----|-----|---|--|-----|-----|----------------------|
| S47 | 18  | S46 profile   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18;<br>20:59 |
| S48 | 139 | (transcoding near5 profile)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18;<br>21:00 |
| S49 | 3   | (transcoding near5 profile) @ay<"2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18;<br>21:01 |
| S50 | 1   | ("7117361").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR  | OFF | 2011/11/18;<br>21:02 |
| S51 | 1   | S50 profile   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18;<br>21:02 |
| S52 | 355 | ((transcod\$4 or translation) near5 profile) @ay<"2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18;<br>21:04 |
| S53 | 49  | ((transcod\$4 or translation) near profile) @ay<"2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2011/11/18;<br>21:04 |
| S54 | 94  | US-5088052-\$.DID. OR US-5355472-\$.DID. OR US-5442771-\$.DID. OR US-5530852-\$.DID. OR US-5701451-\$.DID. OR US-5708845-\$.DID. OR US-5710918-\$.DID. OR US-5737619-\$.DID. OR US-5745908-\$.DID. OR US-5758110-\$.DID. OR US-5761655-\$.DID. OR US-5793964-\$.DID. OR US-5819261-\$.DID. OR US-5822436-\$.DID. OR US-5845084-\$.DID. OR US-5845279-\$.DID. OR US-5845299-\$.DID. OR US-5860068-\$.DID. OR US-5860073-\$.DID. OR US-5861881-\$.DID. OR US-5862325-\$.DID. OR US-5864337-\$.DID. OR US-5870552-\$.DID. OR US-5880740-\$.DID. OR US-5890170-\$.DID. OR US-5895476-\$.DID. OR US-5895477-\$.DID. OR US-5903892-\$.DID. OR US- | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2012/05/18;<br>22:18 |



|     |    |  |  |     |    |                     |
|-----|----|--|--|-----|----|---------------------|
|     |    | 5937160-\$.DID. OR US-5943680-\$.DID. OR US-5956737-\$.DID. OR US-6009436-\$.DID. OR US-6456305-\$.DID. OR US-6483851-\$.DID. OR US-6484149-\$.DID. OR US-6563517-\$.DID. OR US-6591280-\$.DID. OR US-6623529-\$.DID. OR US-6909708-\$.DID. OR US-7284201-\$.DID. OR US-7477688-\$.DID. OR US-7673063-\$.DID. OR US-20080155230-\$.DID. OR US-20090254672-\$.DID. OR US-5303198-\$.DID. OR EP-0747842-\$.DID. OR EP-0747842121996-\$.DID. OR EP-0782085-\$.DID. OR EP-0782085071997-\$.DID. OR EP-0818907-\$.DID. OR EP-0843276-\$.DID. OR EP-0843276051998-\$.DID. OR EP-0876034-\$.DID. OR EP-0876034111998-\$.DID. OR EP-0883068-\$.DID. OR US-1211998-\$.DID. OR EP-0886409-\$.DID. OR EP-0895171-\$.DID. OR EP-0926607-\$.DID. OR EP-0926607061999-\$.DID. OR EP-0949571-\$.DID. OR EP-0949571101999-\$.DID. OR WO-97149252-\$.DID. OR US-1211997-\$.DID. OR WO-9840842-\$.DID. OR WO-9840842091998-\$.DID. OR WO-9843177-\$.DID. OR WO-9843177101998-\$.DID. OR US-9830041-\$.DID. |  |     |    |                     |
| S55 | 0  | S54 (transcode same automatic\$5 near5 client)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON | 2012/05/18<br>22:21 |
| S56 | 1  | S54 (transcode same automatic\$5 )   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON | 2012/05/18<br>22:21 |
| S57 | 42 | (transcod\$4 near5 automatic\$4)<br>@ay< "2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2012/05/18<br>22:24 |
| S58 | 1  | S57 (parameter near5 client) @ay< "2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2012/05/18<br>22:24 |
| S59 | 2  | S57 (parameter near5 (client or device or user)) @ay< "2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2012/05/18<br>22:26 |
| S60 | 7  | S57 (ident\$6 near5 (client or device or user)) @ay< "2000"  | US-PGPUB;<br>USPAT;  | AND | ON | 2012/05/18<br>22:45 |

## EAST Search History

|     |   |                             |  |     |     |                     |
|-----|---|-----------------------------|--|-----|-----|---------------------|
|     |   |                             | USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        |     |     |                     |
| S61 | 2 | ("6563517").PN.             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2012/05/18<br>23:06 |
| S62 | 2 | ("6563517").PN.             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2012/06/13<br>21:02 |
| S63 | 1 | S62 resolution              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:02 |
| S64 | 0 | S62 resolution near10 frame | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:03 |
| S65 | 0 | S62 frame adj rate          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:03 |
| S66 | 1 | S62 rate                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:03 |
| S67 | 0 | S62 frame                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:03 |
| S68 | 1 | S62 resolution              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:04 |

## EAST Search History

|     |     |   |  |     |     |                     |
|-----|-----|---|--|-----|-----|---------------------|
| S69 | 2   | ("6463445").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2012/06/13<br>21:04 |
| S70 | 1   | S69 frame   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2012/06/13<br>21:05 |
| S71 | 1   | (simultaneous\$4 or concurrent\$4) near5<br>(transcod\$4) near5 file @ay< "2005"            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2013/01/25<br>15:10 |
| S72 | 4   | (simultaneous\$4 or concurrent\$4) near10<br>(transcod\$4) near10 file @ay< "2005"          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2013/01/25<br>15:11 |
| S73 | 13  | (simultaneous\$4 or concurrent\$4) same<br>(transcod\$4) near10 file @ay< "2005"            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2013/01/25<br>15:11 |
| S74 | 6   | (simultaneous\$4 or concurrent\$4) near5<br>output (transcod\$4) near10 file<br>@ay< "2005" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2013/01/25<br>15:13 |
| S75 | 129 | (simultaneous\$4 or concurrent\$4) near5<br>(transcod\$4) @ay< "2005"                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2013/01/25<br>15:14 |
| S76 | 15  | S75 transcod\$4 near5 file  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2013/01/25<br>15:14 |
| S77 | 8   | S76 automatic\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;                        | AND | ON  | 2013/01/25<br>15:15 |

|     |     |  |  |     |    |                     |
|-----|-----|--|--|-----|----|---------------------|
|     |     |  | DERWENT;<br>IBM_TDB  |     |    |                     |
| S78 | 27  | US-7313361-\$.DID. OR US-7406434-\$.DID. OR US-20030225568-\$.DID. OR US-20040025176-\$.DID. OR US-20050255852-\$.DID. OR US-20050278794-\$.DID. OR US-20060127059-\$.DID. OR US-20070061198-\$.DID. OR US-20080195938-\$.DID. OR US-20080205389-\$.DID. OR US-20080207182-\$.DID. OR US-20090013347-\$.DID. OR US-20090240569-\$.DID. OR US-1331018-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/25<br>15:29 |
| S79 | 27  | US-7313361-\$.DID. OR US-7406434-\$.DID. OR US-20030225568-\$.DID. OR US-20040025176-\$.DID. OR US-20050255852-\$.DID. OR US-20050278794-\$.DID. OR US-20060127059-\$.DID. OR US-20070061198-\$.DID. OR US-20080195938-\$.DID. OR US-20080205389-\$.DID. OR US-20080207182-\$.DID. OR US-20090013347-\$.DID. OR US-20090240569-\$.DID. OR US-1331018-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>14:39 |
| S80 | 10  | S79 @ay< "2005"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>14:39 |
| S81 | 13  | S79 @ay<= "2005"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>14:39 |
| S82 | 519 | (transcod\$4) near5 file @ay<= "2005"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>14:41 |
| S83 | 27  | S82 (resolution same compression same rate)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>14:46 |
| S84 | 17  | S82 (resolution same compression same frame adj rate)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/01/26<br>15:07 |
| S86 | 5   | (transcod\$4 near10 (multimedia or multi!media or audio or image or video) near5 file) ((frame adj rate or frame!rate)   | US-PGPUB;<br>USPAT;<br>USOCR;                                      | AND | ON | 2013/01/27<br>20:55 |

|     |    |   |  |     |     |                     |
|-----|----|---|--|-----|-----|---------------------|
|     |    | same (compression) same (resolution))<br>@ay<"2005"   | FPRS; JPO;<br>DERWENT;<br>IBM_TDB  |     |     |                     |
| S87 | 0  | ((transcod\$4 near10 (multimedia or multi!media or audio or image or video) near5 file) ((frame adj rate or frame!rate) same (compression) same (resolution)) @ad<"2005116"               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2013/01/27<br>20:55 |
| S88 | 2  | ("7580578").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2013/01/27<br>21:37 |
| S89 | 1  | S88 file  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2013/01/27<br>21:38 |
| S90 | 0  | ((transcod\$4 or transform) near10 (multimedia or multi!media or audio or image or video) near5 file) ((frame adj rate or frame!rate) same (compression) same (resolution)) @ad<"2005116" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2013/01/27<br>21:39 |
| S91 | 19 | ((transcod\$4 or transform\$4) near10 (multimedia or multi!media or audio or image or video) near5 file) ((frame adj rate or frame!rate) same (compression) same (resolution)) @ay<"2005" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2013/01/27<br>21:40 |
| S92 | 2  | ("20050091311").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2013/01/27<br>23:11 |
| S93 | 1  | S92 analog  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2013/01/27<br>23:11 |
| S94 | 45 | ((transcod\$4 near10 (multimedia or multi!media or audio or image or video) near5 file) ((frame adj rate or frame!rate) same (compression) same (resolution))                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2013/01/28<br>00:07 |
| S95 | 0  | ((transcod\$4 near10 (multimedia or multi!media or audio or image or video) near5 file) (request same (URL or link or URI) same proprietary adj tags) @ad<"2005116"                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB         | AND | ON  | 2013/09/24<br>11:53 |

EAST Search History

|     |   |  |  |     |    |                     |
|-----|---|--|--|-----|----|---------------------|
| S96 | 0 | (transcod\$4 near10 (multimedia or multi!media or audio or image or video) near5 file) (request same (URL or link or URI) same tags) @ad<"2005116" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/09/24<br>11:53 |
| S97 | 0 | (transcod\$4 near10 (multimedia or multi!media or audio or image or video) near5 file) (request same tags) @ad<"2005116"                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/09/24<br>11:54 |
| S98 | 0 | (transcod\$4 near10 (multimedia or multi!media or audio or image or video) near5 file) (request same (tag or variable)) @ad<"2005116"              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2013/09/24<br>11:54 |

**EAST Search History (Interference)**

| Ref # | Hits | Search Query   | DBs                         | Default Operator | Plurals | Time Stamp          |
|-------|------|--|-----------------------------|------------------|---------|---------------------|
| L1    | 0    | ((multimedia or multi adj media) adj format)(proprietary adj tags same parameters)(pars\$4)((analog digital) adj format)(transmit\$6 same simultaneous\$4)).clm. | US-PGPUB;<br>USPAT;<br>UPAD | AND              | ON      | 2013/09/27<br>02:05 |
| L2    | 0    | ((multimedia or multi adj media) adj format)(proprietary adj tags same parameters)(pars\$4)((analog digital) adj format)).clm.                                   | US-PGPUB;<br>USPAT;<br>UPAD | AND              | ON      | 2013/09/27<br>02:05 |
| L3    | 0    | ((multimedia or multi adj media) adj format)(proprietary adj tags same parameters)).clm.   | US-PGPUB;<br>USPAT;<br>UPAD | AND              | ON      | 2013/09/27<br>02:05 |

**9/ 27/ 2013 2:08:11 AM**

**C:\Users\cmurphy1\Documents\EAST\Workspaces\12173747.wsp**

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|  |                               |                    |              |
|--|-------------------------------|--------------------|--------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(Not for submission under 37 CFR 1.99) | <b>Application Number</b>     |                    | 12/173,747   |
|  | <b>Filing Date</b>            |                    | Jul 15, 2008 |
|  | <b>First Named Inventor</b>   | Sean Barger        |              |
|  | <b>Art Unit</b>               |                    | 2455         |
|  | <b>Examiner Name</b>          | Murphy, Charles C. |              |
|  | <b>Attorney Docket Number</b> |                    | EQUI0016     |

| U.S. PATENTS      |         |               |             |            |   |   |
|-------------------|---------|---------------|-------------|------------|---|---|
| Examiner Initial* | Cite No | Patent Number | Kind Code 1 | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |

| U.S. PATENT APPLICATION PUBLICATIONS |         |                    |             |                  |   |   |
|--------------------------------------|---------|--------------------|-------------|------------------|---|---|
| Examiner Initial*                    | Cite No | Publication Number | Kind Code 1 | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| /C.M./                               | 1       | US-20070234213     |             | Oct 4, 2007      | Krikorian et al.                                |   |
| /C.M./                               | 2       | US-20080186377     |             | Aug 7, 2008      | Eriksson et al.                                 |   |
| /C.M./                               | 3       | US-20100046842     |             | Feb 25, 2010     | Conwell   |   |
| /C.M./                               | 4       | US-20110221745     |             | Sep 15, 2011     | Goldman et al.                                  |   |
| /C.M./                               | 5       | US-20110279638     |             | Nov 17, 2011     | Periyannan et al.                               |   |
| /C.M./                               | 6       | US-20120016858     |             | Jan 19, 2012     | Rathod  |   |

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|--|-------------------------------|--|--------------------|--|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(Not for submission under 37 CFR 1.99) | <b>Application Number</b>     |  | 12/173,747         |  |
|  | <b>Filing Date</b>            |  | Jul 15, 2008       |  |
|  | <b>First Named Inventor</b>   |  | Sean Barger        |  |
|  | <b>Art Unit</b>               |  | 2455               |  |
|  | <b>Examiner Name</b>          |  | Murphy, Charles C. |  |
|  | <b>Attorney Docket Number</b> |  | EQUI0016           |  |

| FOREIGN PATENT DOCUMENTS   |         |   |                           |                        |                  |   |  |                |
|--|---------|---|---------------------------|------------------------|------------------|---|--|----------------|
| Examiner Initial*  | Cite No | Foreign Document Number <sup>3</sup>  | Country Code <sup>2</sup> | Kind Code <sup>4</sup> | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T <sup>5</sup> |
| NON-PATENT LITERATURE DOCUMENTS  |         |   |                           |                        |                  |   |  |                |
| Examiner Initials*   | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |                           |                        |                  |   |  | T <sup>5</sup> |
| EXAMINER SIGNATURE   |         |   |                           |                        |                  |   |  |                |
| Examiner Signature   |         |   | /Charles Murphy/          |                        | Date Considered  |   | 09/27/2013   |                |
| <p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>   |         |   |                           |                        |                  |   |  |                |
| <p><sup>1</sup> See Kind Codes of USPTO Patent Documents at <a href="http://www.USPTO.GOV">www.USPTO.GOV</a> or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.</p> |         |   |                           |                        |                  |   |  |                |





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BIB DATA SHEET

CONFIRMATION NO. 7377

| SERIAL NUMBER | FILING or 371(c) DATE | CLASS | GROUP ART UNIT | ATTORNEY DOCKET NO. |
|---------------|-----------------------|-------|----------------|---------------------|
| 12/173,747    | 07/15/2008            | 709   | 2455           | 110595-8016.US01    |
|               | <b>RULE</b>           |       |                |                     |

**APPLICANTS**

Sean Barger, Mill Valley, CA;  
 Steve Johnson, Mill Valley, CA;  
 Matt Butler, Beaverton, OR;  
 Jerry Destremps, Sausalito, CA;  
 David Pochron, Cambridge, WI;  
 Trent Brown, San Anselmo, CA;

**\*\* CONTINUING DATA \*\*\*\*\***

This application is a DIV of 11/269,916 11/07/2005 ABN  
 which is a CIP of 09/929,904 08/14/2001 PAT 6964009  
 which is a CON of 09/425,326 10/21/1999 PAT 6792575

**\*\* FOREIGN APPLICATIONS \*\*\*\*\***

**\*\* IF REQUIRED, FOREIGN FILING LICENSE GRANTED \*\*\* SMALL ENTITY \*\***

07/23/2008

|  |  |                         |                        |                     |                           |
|--|--|-------------------------|------------------------|---------------------|---------------------------|
| Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No       | <input type="checkbox"/> Met after Allowance | <b>STATE OR COUNTRY</b> | <b>SHEETS DRAWINGS</b> | <b>TOTAL CLAIMS</b> | <b>INDEPENDENT CLAIMS</b> |
| 35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | CA                      | 23                     | 23                  | 3                         |
| Verified and /CHARLES C MURPHY/  | Initials                                     |                         |                        |                     |                           |
| Acknowledged   | Examiner's Signature                         |                         |                        |                     |                           |


**ADDRESS**

GLENN PATENT GROUP  
 c/o Perkins Coie LLP  
 P.O. Box 1247  
 Seattle, WA 98111-1247  
 UNITED STATES

**TITLE**

Automated Media Delivery System

|                                    |   |  |
|------------------------------------|---|--|
| <b>FILING FEE RECEIVED</b><br>1663 | FEES: Authority has been given in Paper<br>No. _____ to charge/credit DEPOSIT ACCOUNT<br>No. _____ for following: | <input type="checkbox"/> All Fees                            |
|                                    |   | <input type="checkbox"/> 1.16 Fees (Filing)                  |
|                                    |   | <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) |
|                                    |   | <input type="checkbox"/> 1.18 Fees (Issue)                   |
|                                    |   | <input type="checkbox"/> Other _____                         |
|                                    |   | <input type="checkbox"/> Credit                              |

|  |  |   |
|--|--|---|
| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>12173747 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>BARGER ET AL. |
|  | <b>Examiner</b><br><br>CHARLES MURPHY          | <b>Art Unit</b><br><br>2455   |

| CPC- SEARCHED |      |          |
|---------------|------|----------|
| Symbol        | Date | Examiner |
|               |      |          |

| CPC COMBINATION SETS - SEARCHED |      |          |
|---------------------------------|------|----------|
| Symbol                          | Date | Examiner |
|                                 |      |          |

| US CLASSIFICATION SEARCHED |   |           |                |
|----------------------------|---|-----------|----------------|
| Class                      | Subclass                                    | Date      | Examiner       |
| 709                        | 227 226 223 219 206 204 203                 | 4/6/2010  | Charles Murphy |
| 370                        | 480 467 465 389 356 353 352 289 286 260 252 | 4/6/2010  | Charles Murphy |
| 455                        | 560 463 426.1 422.1 412.1                   | 4/6/2010  | Charles Murphy |
| 709                        | 247 217                                     | 9/23/2010 | Charles Murphy |
| 704                        | 503 500 230 204                             | 9/23/2010 | Charles Murphy |
| 709                        | 227 226 223 219 206 204 203                 | 3/12/2011 | Charles Murphy |
| 370                        | 480 467 465 389 356 353                     | 3/12/2011 | Charles Murphy |
| 370                        | 480 467 465 389 356 353 352 289 286 260 252 | 6/13/2012 | Charles Murphy |
| 709                        | 247 236 227 226 223 219 206 204 203         | 6/13/2012 | Charles Murphy |
| 709                        | 247 246                                     | 1/28/2013 | Charles Murphy |
| 382                        | 232   | 1/28/2013 | Charles Murphy |
| 386                        | 278 244 241                                 | 1/28/2013 | Charles Murphy |
| 709                        | 227 226 223 219 206 204 203                 | 9/27/2013 | Charles Murphy |
| 455                        | 560 463 426.1 422.1 412.                    | 9/27/2013 | Charles Murphy |

| SEARCH NOTES           |           |                |
|------------------------|-----------|----------------|
| Search Notes           | Date      | Examiner       |
| East                   | 4/6/2010  | Charles Murphy |
| Searched East          | 9/23/2010 | Charles Murphy |
| Consulted Quang Nguyen | 9/23/2010 | Charles Murphy |
| Searched East          | 3/12/2011 | Charles Murphy |
| Searched East          | 6/13/2012 | Charles Murphy |
| Searched EAST          | 1/28/2013 | Charles Murphy |

|  |  |
|--|--|
| /CHARLES MURPHY/<br>Examiner.Art Unit 2455 |  |
|--|--|

**SEARCH NOTES**

| <b>Search Notes</b>  | <b>Date</b> | <b>Examiner</b> |
|--|-------------|-----------------|
| Consulted David Lazaro on possibility of allowance with current amendments | 1/28/2013   | Charles Murphy  |
| Consulted David Lazaro on proposed amendments                              | 9/27/2013   | Charles Murphy  |
| Inventors Name Search  | 9/27/2013   | Charles Murphy  |

**INTERFERENCE SEARCH**

| <b>US Class/<br/>CPC Symbol</b> | <b>US Subclass / CPC Group</b> | <b>Date</b> | <b>Examiner</b> |
|---------------------------------|--------------------------------|-------------|-----------------|
| Searched East                   |                                | 9/27/2013   | Charles Murphy  |

/CHARLES MURPHY/  
Examiner, Art Unit 2455

**PART B - FEE(S) TRANSMITTAL**

Complete and send this form, together with applicable fee(s), to: **Mail Stop ISSUE FEE**  
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|                  |                    |
|------------------|--------------------|
| Christine Ortt   | (Depositor's name) |
| /Christine Ortt/ | (Signature)        |
| 01/09/2014       | (Date)             |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 12/173,747      | 07/15/2008  | Sean Barger          | 110595-8016.US01    | 7377             |

TITLE OF INVENTION: Automated Media Delivery System

| APPLN. TYPE    | ENTITY STATUS | ISSUE FEE DUE          | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE        | DATE DUE   |
|----------------|---------------|------------------------|---------------------|----------------------|-------------------------|------------|
| nonprovisional | SMALL         | <del>\$890</del> \$480 | <del>\$300</del>    | \$0                  | <del>\$1190</del> \$480 | 01/09/2014 |

| EXAMINER          | ART UNIT | CLASS-SUBCLASS |
|-------------------|----------|----------------|
| MURPHY, CHARLES C | 2455     | 709-236000     |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  
 Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list  
 (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Michael A. Glenn  
 2 Perkins Coie LLP  
 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

EQUILIBRIUM

SAUSALITO, CALIFORNIA

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

4a. The following fee(s) are submitted:

- Issue Fee
- Publication Fee (No small entity discount permitted)
- Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

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5. **Change in Entity Status** (from status indicated above)

- Applicant certifying micro entity status. See 37 CFR 1.29
- Applicant asserting small entity status. See 37 CFR 1.27
- Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see form PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature           /Julia A. Thomas/          

Date           01/09/2014          

Typed or printed name           Julia A. Thomas          

Registration No.           52,283          

This collection of information is required by 37 CFR 1.311. 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 1.14. This collection is estimated to take 12 minutes 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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First Named Inventor : Sean BARGER  
Serial No. : 12/173,747  
Filed : 07/15/2008  
Art Unit : 2455  
Confirmation Number : 7377  
Examiner : Murphy, Charles C.  
Title : AUTOMATED MEDIA DELIVERY SYSTEM  
Attorney Docket No. : 110595-8016.US01

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January 9, 2014

Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE**

Dear Sir/Madam:

In the Notice of Allowance, mailed October 9, 2013, the Examiner provided Reasons for Allowance (hereinafter referred to as "Reasons"). Applicant believes the Reasons, to the extent understood, may be misconstrued and, as such, are incomplete. Applicant submits that indeed, the claims of the instant application, individually or in combination with other claims (via dependency), describe the patentable subject matter of Applicant's invention(s). Accordingly, the Reasons in no way bind or affect the interpretation, infringement, validity and/or enforceability of any claim(s) or patent(s) resulting from, or relating to this application.

Applicant does not believe any fees are due with this submission. However, the commissioner is hereby authorized to charge any fees due or credit any overpayments to Deposit Account 502207 (Order No. 110595-8016.US01).

U.S. Serial No. 12/173,747

Respectfully submitted,

/Julia A. Thomas/

Julia A. Thomas  
Reg. No. 52,283

Customer No. 22918

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|  |                        |                    |
|--|------------------------|--------------------|
| <h2>CHANGE OF<br/>CORRESPONDENCE ADDRESS</h2> <p><i>Application</i></p> <p>Address to:<br/>                 Commissioner for Patents<br/>                 P.O. Box 1450<br/>                 Alexandria, VA 22313-1450</p> | Application Number     | 12/173,747         |
|  | Filing Date            | 07/15/2008         |
|  | First Named Inventor   | Sean Barger        |
|  | Art Unit               | 2455               |
|  | Examiner Name          | Murphy, Charles C. |
|  | Attorney Docket Number | 110595-8016.US01   |

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I am the:

Applicant/Inventor

Assignee of record of the entire interest.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

Attorney or agent of record. Registration Number 52283

Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number \_\_\_\_\_.

Signature /Julia A. Thomas/

Typed or Printed Name Julia A. Thomas

Date 01/09/2014 Telephone 650-838-4300

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

\*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.33. 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 3 minutes 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: 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.



## Electronic Patent Application Fee Transmittal

|  |                                 |                 |               |                             |
|--|---------------------------------|-----------------|---------------|-----------------------------|
| <b>Application Number:</b>                     | 12173747                        |                 |               |                             |
| <b>Filing Date:</b>                            | 15-Jul-2008                     |                 |               |                             |
| <b>Title of Invention:</b>                     | Automated Media Delivery System |                 |               |                             |
| <b>First Named Inventor/Applicant Name:</b>    | Sean Barger                     |                 |               |                             |
| <b>Filer:</b>                                  | Michael Glenn/Christine Ortt    |                 |               |                             |
| <b>Attorney Docket Number:</b>                 | 110595-8016.US01                |                 |               |                             |
| Filed as Small Entity                          |                                 |                 |               |                             |
| <b>Utility under 35 USC 111(a) Filing Fees</b> |                                 |                 |               |                             |
| <b>Description</b>                             | <b>Fee Code</b>                 | <b>Quantity</b> | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                           |                                 |                 |               |                             |
| <b>Pages:</b>                                  |                                 |                 |               |                             |
| <b>Claims:</b>                                 |                                 |                 |               |                             |
| <b>Miscellaneous-Filing:</b>                   |                                 |                 |               |                             |
| <b>Petition:</b>                               |                                 |                 |               |                             |
| <b>Patent-Appeals-and-Interference:</b>        |                                 |                 |               |                             |
| <b>Post-Allowance-and-Post-Issuance:</b>       |                                 |                 |               |                             |
| Utility Appl Issue Fee                         | 2501                            | 1               | 480           | 480                         |
| <b>Extension-of-Time:</b>                      |                                 |                 |               |                             |

| Description              | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------------|----------|----------|--------|----------------------|
| <b>Miscellaneous:</b>    |          |          |        |                      |
| <b>Total in USD (\$)</b> |          |          |        | <b>480</b>           |

## Electronic Acknowledgement Receipt

|   |                                 |
|---|---------------------------------|
| <b>EFS ID:</b>                              | 17873784                        |
| <b>Application Number:</b>                  | 12173747                        |
| <b>International Application Number:</b>    |                                 |
| <b>Confirmation Number:</b>                 | 7377                            |
| <b>Title of Invention:</b>                  | Automated Media Delivery System |
| <b>First Named Inventor/Applicant Name:</b> | Sean Barger                     |
| <b>Customer Number:</b>                     | 22862                           |
| <b>Filer:</b>                               | Michael Glenn/Christine Ortt    |
| <b>Filer Authorized By:</b>                 | Michael Glenn                   |
| <b>Attorney Docket Number:</b>              | 110595-8016.US01                |
| <b>Receipt Date:</b>                        | 09-JAN-2014                     |
| <b>Filing Date:</b>                         | 15-JUL-2008                     |
| <b>Time Stamp:</b>                          | 20:46:55                        |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)     |

### Payment information:

|  |                |
|--|----------------|
| Submitted with Payment                   | yes            |
| Payment Type                             | Credit Card    |
| Payment was successfully received in RAM | \$480          |
| RAM confirmation Number                  | 7869           |
| Deposit Account                          | 502207         |
| Authorized User                          | GLENN, MICHAEL |

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 Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

**File Listing:**

| Document Number  | Document Description                    | File Name                    | File Size(Bytes)/ Message Digest                    | Multi Part /.zip | Pages (if appl.) |
|--|---|------------------------------|---|------------------|------------------|
| 1  |   | 110595-8016US01_IssueFee.pdf | 2251712<br>a2bf51276fdb424b96e3f123e6fb8490ee965ae1 | yes              | 5                |
| <b>Multipart Description/PDF files in .zip description</b> |   |                              |   |                  |                  |
|  | <b>Document Description</b>             |                              | <b>Start</b>  |                  | <b>End</b>       |
|  | Issue Fee Payment (PTO-85B)             |                              | 1   |                  | 2                |
|  | Post Allowance Communication - Incoming |                              | 3   |                  | 4                |
|  | Change of Address                       |                              | 5   |                  | 5                |

**Warnings:**

**Information:**

|   |                      |              |  |    |   |
|---|----------------------|--------------|--|----|---|
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 30118<br>be8d789b8244490ad3cfd17f04c97f0dd109d2e7f | no | 2 |
|---|----------------------|--------------|--|----|---|

**Warnings:**

**Information:**

**Total Files Size (in bytes):** 2281830

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**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**



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www.uspto.gov

| APPLICATION NO. | ISSUE DATE | PATENT NO. | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|------------|------------|---------------------|------------------|
| 12/173,747      | 02/18/2014 | 8656046    | 110595-8016.US01    | 7377             |

22918                      7590                      01/29/2014  
PERKINS COIE LLP - PAO General  
P.O. BOX 1247  
SEATTLE, WA 98111-1247

**ISSUE NOTIFICATION**

The projected patent number and issue date are specified above.

**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**  
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 384 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Sean Barger, Mill Valley, CA;  
Steve Johnson, Mill Valley, CA;  
Matt Butler, Beaverton, OR;  
Jerry Destremps, Sausalito, CA;  
David Pochron, Cambridge, WI;  
Trent Brown, San Anselmo, CA;

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