Title: BINARY DATA RELAY SYSTEMS AND METHODS FOR REAL-TIME COMMUNICATION OF BINARY DATA THROUGH A PEER-TO-PEER NETWORK

Abstract: Binary data relay systems and methods are disclosed to allow users of peer-to-peer (P2P) communications networks designed for voice transport to send facsimile (fax) messages between P2P endpoints by using a computer (102, 104) suitably connected to the network (164). Although not limited to this implementation, this connection preferably uses the Internet to effect the connection between endpoint computers (102, 104). The computer (102, 104) may also be suitably connected to a facsimile terminal (160, 162). The binary data relay systems and methods provide the facsimile communications function, such as that usually provided by a stand-alone Group 3 facsimile terminal (160, 162), over the P2P network (164) intended for voice transmission, such as but not limited to, the Skype network. Such P2P network (164) is an overlay of the Internet, but is not limited to the Internet.
# INTERNATIONAL SEARCH REPORT

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC:**  
H04L 12/28 (2006.01)  
H04L 12/36 (2006.01);H04M 11/00(2006.01);H04N 1/00(2006.01),1/04(2006.01),7/14(2006.01)

**USPC:**  
370/351,389,465;375/263;348/14.04;379/88.13;358/400,498

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)  
U.S.: 370/351,389,465; 375/263; 348/14.04; 379/88.13; 358/400,498

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 practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X.P</td>
<td>US 2006/0155864 A1 (IZUMI) 13 July 2006 (13.07.2006), Fig. 1-3, para. [003]- [0037],[0043],[0055],[0059].</td>
<td>1-4,6-10</td>
</tr>
<tr>
<td>A</td>
<td>US 6,744,835 B1 (PANICKER et al.) 1 June 2004 (01.06.2004), Fig. 1.</td>
<td>1-10</td>
</tr>
</tbody>
</table>

* Further documents are listed in the continuation of Box C.  
* See patent family annex.

### Special categories of cited documents:

- **"A"** document defining the general state of the art which is not considered to be of particular relevance
- **"E"** earlier application or patent published on or after the international filing date
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- **"O"** document referring to an oral disclosure, use, exhibition or other means
- **"P"** document published prior to the international filing date but later than the priority date claimed

### Date of the actual completion of the international search

20 June 2008 (20.06.2008)

### Date of mailing of the international search report

05 AUG 2008

Name and mailing address of the ISA/US  
Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
Facsimile No. (571) 273-3201

Authorized officer  
Blanche Wong

Telephone No. 571-272-3177

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