Title: SECURE NETWORK SESSIONS ESTABLISHING AND VALIDATING METHOD

Abstract: A method and system for establishing a TCP/IP connection between a client and an application server. A request to establish a session is sent from the client to a central server. In response to the request, the central server randomly selects a port in the application server, and a connection request record having a status field and a port field is created in a database at the central server. The status field is set to a first value, and the port field is set to a value corresponding to the randomly selected port. The connection request record has a unique signature known to the application server. The application server monitors the database for new connection request records having a status field set to the first value. Upon detection by the application server of the connection request record, the application server opens the randomly selected port, and sends to the central server, an acknowledgement that the randomly selected port is open. Upon receipt of the acknowledgement at the central server, the central servers sets the status field to a second value. In response to detection by the client that the status field is set to the second value, the client retrieves from the central server the value identifying the randomly selected port, and establishes a TCP/IP connection between the client and the randomly selected port.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC: G06F 15/16 (2006.01), 15/173 (2006.01)
USPC: 709/227,228
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.: 709/227,228
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)
EAST (DERWENT, USPTO, USPGPUB, JPO, EPO) - TCP/IP, connection adj2 status

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>Y</td>
<td>US 6,317,775B1 (COILE et al) 13 November 2001 (13.11.2001), Fig. 2, column 4, lines 49-58, column 10, lines 17-34, Fig. 1C, column 6, lines 26-36, Fig. 3B, column 12, lines 58-62, Fig. 3C, column 11, lines 1-19, column 14, lines 21-50, Figs. 4A, 4B.</td>
<td>1-4</td>
</tr>
<tr>
<td>Y</td>
<td>US 2003/0188001 A1 (EISENBERG et al) 2 October 2003 (02.10.2003), paragraph 15, lines 1-3.</td>
<td>1-4</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,223,223 B1 (KUMPF et al) 24 April 2001 (24.04.2001), Fig. 2A, column 4, lines 63-67, column 5, lines 1-2</td>
<td>1-4</td>
</tr>
<tr>
<td>Y,P</td>
<td>US 2005/0138428 A1 (MCALLEN et al) 23 June 2005 (23.06.2005), Fig. 6, paragraph 105, paragraph 109, paragraph 118, lines 6-12.</td>
<td>3-4</td>
</tr>
</tbody>
</table>


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  - "&" document member of the same patent family

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

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