METHOD AND APPARATUS FOR TWO-WAY TRANSMISSION OF MEDICAL DATA

Abstract: The present invention provides for a secure, two-way transmission of medical data over the Internet and through the hospital's firewall using push (2) and pull (7) mechanisms. More particularly, the present invention utilizes standard SSH technology (8) and the rsync and scp protocols to enable secure (17), cost-effective data transmission over the Internet. The hospital firewall is traversed through the use of an agent located behind the hospital's firewall. The agent utilizes a push mechanism to push the raw scan data through the firewall and over the Internet to the outside third party (2); and the agent uses a pull mechanism to reach through the firewall and over the Internet to retrieve the data processed by the outside third party (7).
## INTERNATIONAL SEARCH REPORT

### A. CLASSIFICATION OF SUBJECT MATTER

**IPC:**  
H04L 9/00 (2006.01), 9/32 (2006.01); G06F 9/00 (2006.01)

**USPC:**  
726/2, 5,11,26

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.: 726/2, 5, 11, 26;

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 (USPAT, US-PGPUB, USOCR, FPRS, JPO, EPO, DERWENT, IBM_TDB)

### 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 2003/019135 A (FERGUSON) 09 October 2003 (09.10.2003), Fig. 1</td>
<td>1-25</td>
</tr>
<tr>
<td>Y</td>
<td>US 2004/0034550 A (MENSCHIK et al) 19 February 2004 (19.02.2004), paragraphs [0066], [0077], [0090]-[0110], [0130]-[0140], [0150]</td>
<td>1-25</td>
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<tr>
<td>Y</td>
<td>US 2004/0073792 A (NOBLE et al) 19 April 2004 (19.04.2004), paragraphs [0033], [0035]-[0037], [0045], [0133]</td>
<td>6-7, 11-16</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,092,198 (LANZI et al) 18 July 2000 (18.07.2000), column 3 line 55 to column 4, line 10</td>
<td>25</td>
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</tbody>
</table>

Further documents are listed in the continuation of Box C.

- **Y** later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- **X** document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

- **Y** document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

- **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

- **T** document member of the same patent family

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