(54) Title: DIGITAL SUBSCRIBER LINE/HOME PHONELINE NETWORK ROUTER

(57) Abstract: A digital subscriber line (DSL)/home phoneline network router provides DSL connectivity and home networking support. The router provides a single phoneline connection (RJ-11 jack) to access either the Internet or a home phoneline network (404). In terms of hardware, the router may include a central processing unit, a DSL modem, and a home phoneline networking device (media access controller and home phoneline networking physical interface). In terms of software, the router may include a DSL driver, a local area network (LAN) driver, a media access controller driver, network routing stacks and a real time operating system.
Published: with international search report

Date of publication of the international search report: 28 August 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
### INTERNATIONAL SEARCH REPORT

**A. CLASSIFICATION OF SUBJECT MATTER**


US CL : 370/355, 401, 469; 375/221

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. : 370/355, 401, 469; 375/221
370/402, 467, 466; 455/560

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

None

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

EAST 1.1
DSL AND ROUTER AND MAC

### 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, Y, E</td>
<td>US 5,654,962 A (ROSTOKER et al.) 05 August 1997, col. 65, lines 60-67, entire col. 66, and col. 67, lines 1-43.</td>
<td>1, 11, 21</td>
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<td></td>
<td>US 6,130,879 A (LIU) 10 October 2000, col. 7, lines 17-67, and col. 8, lines 1-67.</td>
<td>1, 11, 21</td>
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<tr>
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<td>US 6,137,865 A (RIPY et al.) 24 October 2000, col. 3, lines 25-58.</td>
<td>1, 11, 21</td>
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</table>

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

Date of the actual completion of the international search: **14 NOVEMBER 2000**

Date of mailing of the international search report: **20 DEC 2000**

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