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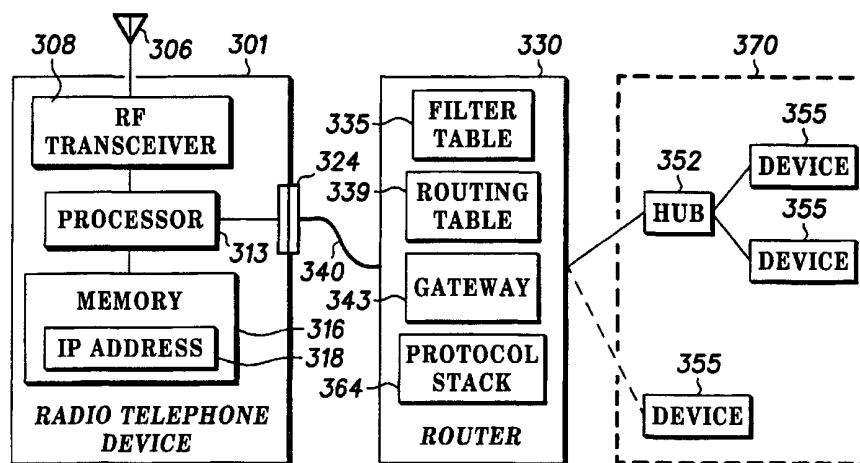
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(54) Title: CELLULAR PHONE ETHERNET INTERFACE WITH ROUTING CAPABILITY



300

(57) Abstract: A radiotelephone system and method are provided for communicating digital data between an external computer environment (370) connected to a radiotelephone device (112, 301, 400) and a radiotelephone communication network (500). The radiotelephone system includes a radiotelephone device (112, 301, 400) capable of communicating with the radiotelephone communication network (500). The radiotelephone communication network (500) includes a base station controller (506) capable of converting digital data from the radiotelephone device (112, 301, 400) into a computer network digital packet data. The radiotelephone system further includes an Ethernet router (330, 431) communicating with the radiotelephone device (112, 301, 400). The Ethernet router (330, 431) is capable of being connected to the external computer environment (370) and is further capable of communicating the digital data between the external computer environment (370) and the radiotelephone communication network (500).

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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

International application No.

PCT/US01/26243

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04J 3/16, 3/24; H04B 7/00; H04L 12/56

US CL : 455/553, 557; 370/338

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. : 455/553-557, 422, 462, 465, 466; 370/338, 390-406

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)
USPAT, EPO, JPO, DERWENT : router, IP, packet, Ethernet, mobile, cellular, computer.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,991,639 A (RAUTIOLA ET AL) 23 November 1999, see entire document.	1-29
Y	EP 0766427 A2 (RAUTIOLA), see entire document.	1-29
Y	US 6,006,090 A (COLEMAN ET AL) 21 December 1999, see entire document.	1-29
A	US 6,009,528 A (TERAOKA) 28 December 1999, see entire document.	6-9, 15, 22-24, 28-29
A	US 5,822,307 A (EASTMOND ET AL) 13 October 1998, see Figs. 3, 9, cols. 3-6.	2-5, 11-12, 17-18, 21.
X, P	US 6,130,892 A (SHORT ET AL) 10 October 2000, see col. 1, line 65-col. 4, line 30, col. 7, lines 4-21, col. 8, lines 13-42, col. 10, lines 13-20 and lines 38-45, col. 11, lines	1-29
Y, P	US 6,147,986 A (ORSIC) 14 November 2000, see entire document.	1-29

Further documents are listed in the continuation of Box C.

See patent family annex.

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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