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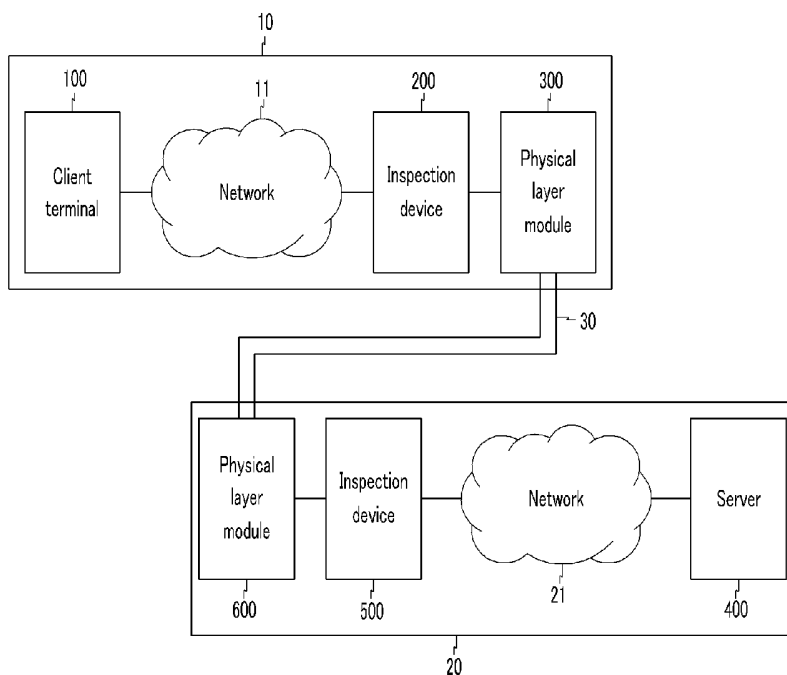
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[Continued on next page]

(54) Title: INSPECTION DEVICE FOR PHYSICAL LAYER MODULE, METHOD THEREOF, AND COMMUNICATION SYSTEM USING THE SAME



(57) **Abstract:** An inspection device (200,500) of a physical layer module (300,600) connected between a terminal (100) transmitting an Internet Protocol (IP)-packet and a physical layer module (300,600), the inspection device (200,500) including an interface transmitting/receiving the IP-packet; a destination MAC address analyzing unit analyzing a destination MAC address to which the IP-packet transmitted from the interface is to be transmitted; a physical layer-packet/physical layer-frame generator converting the IP-packet and generating physical layer-frame with a control header and an error-detecting code attached; a physical layer-frame transceiving unit transmitting/receiving a physical layer-frame to/from the physical layer module (300,600); and an IP-packet generator receiving

a physical layer-frame with a control header and an error-detecting code attached from the physical layer module (300,600), determining the physical layer module (300,600) based on the control header and the error-detecting code, converting the physical layer-frame into an IP-packet, and transmitting the IP-packet to the interface.

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B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC ⁸ : H04B, H04L, H04Q, H04J		
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) EPDOC, WPI, XPRD, XPESP, XPIEE, XPI3E		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2001/0043603 A1 (YU) 22 November 2001 (22.11.2001) <i>abstract, paragraphs 19-20, claims 1, 2, 4.</i> --	1-15
Y	US 2003/0081622 A1 (JEONG) 1 May 2003 (01.05.2003) <i>abstract, paragraphs 8-9, claim 1.</i> --	1-15
Y	US 6 317 805 B1 (CHILTON et al.) 13 November 2001 (13.11.2001) <i>abstract, column 5, lines 37-46.</i> ----	1-15
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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INTERNATIONAL SEARCH REPORT

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US A 20010043603		none	
US A 20030081622		none	
US A 6317805		none	