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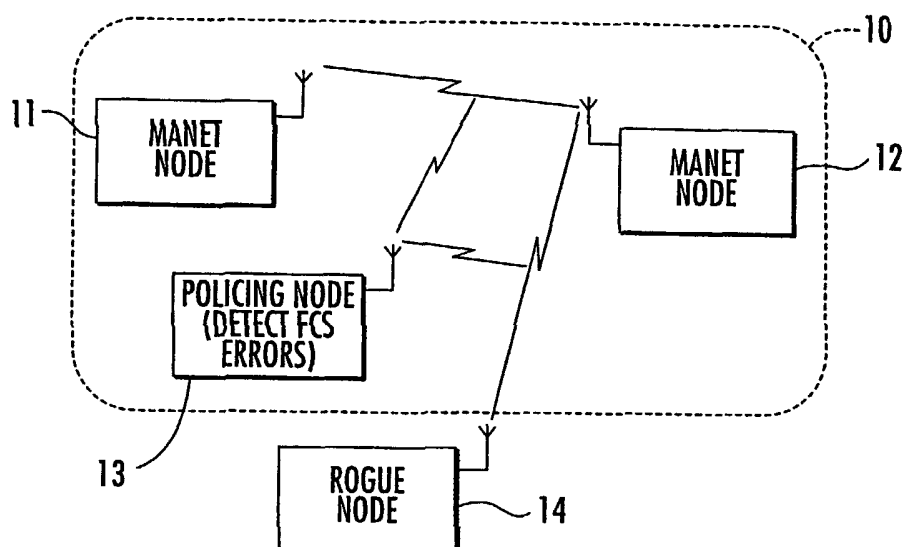
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ning of each regular issue of the PCT Gazette.

(54) Title: WIRELESS LOCAL ON METROPOLITAN AREA NETWORK WITH INTRUSION DETECTION FEATURES AND  
RELATED METHODS



(57) Abstract: A wireless local or metropolitan area network (10) may include a plurality of stations (11, 12) for transmitting data therebetween using a media access layer (MAC), where each of the stations has a respective MAC address associated therewith. The wireless network (10) may also include a policing station (13) for detecting intrusions into the wireless network by monitoring transmissions among the plurality of stations to detect frame check sequence (FCS) errors from a MAC address, and generating an intrusion alert based upon detecting a number of FCS errors for the MAC address exceeding a threshold. The policing station (13) may also detect intrusions based upon one or more of failed MAC address authentications, illegal network allocation vector (NAV) values, and unexpected contention or contention-free operation.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/25065

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04J 3/14

US CL : 370/229

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. : 370/229,236,245,338; 455/410,411

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)  
IEEE Explore, terms: intrusion detection, local area network, LAN

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                | Relevant to claim No. |
|------------|-------------------------------------------------------------------------------------------------------------------|-----------------------|
| Y,E        | US 2003/0219008 A1 (HRASTAR) 27 November 2003 (27.11.2003), paragraphs 0027-0092.                                 | 1-6                   |
| Y          | IEEE Standard 802.11, "Local and Metropolitan Area Networks: Wireless LAN", IEEE 1999, chapters 7-9, pages 34-97. | 1-6                   |
| A,P        | US 2003/0149891 A1 (THOMSEN) 07 August 2003 (07.08.2003), abstract.                                               | 1-6                   |
| A, E       | US 2003/0217189 A1 (AMMON et al) 20 November 2003 (20.11.2003), abstract.                                         | 1-6                   |

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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