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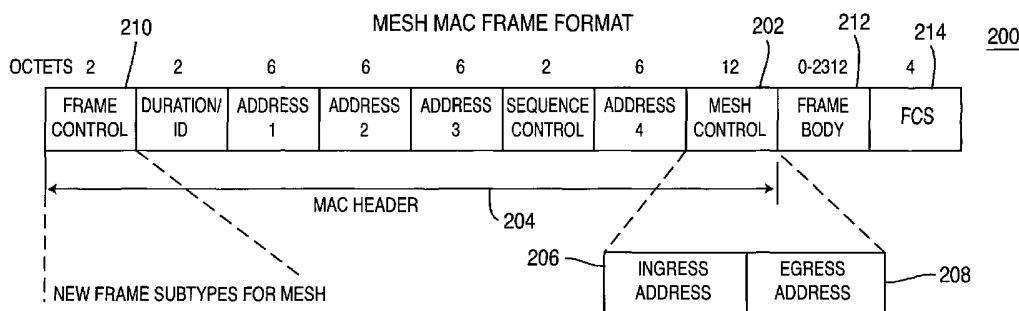
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(54) Title: METHOD FOR SENDING AN ACKNOWLEDGEMENT TO AN INGRESS MESH POINT IN A MESH NETWORK AND A MEDIUM ACCESS CONTROL FRAME FORMAT



(57) Abstract: The present invention relates to a method for confirming the delivery of a data packet in a mesh network (100) by sending an acknowledgement to an ingress mesh point (104-4). A mesh network (100) comprises a plurality of mesh points (104) that are wirelessly linked together. A data packet sent by a station is received by an ingress mesh point (104-4). A MAC frame (200) is generated for transmission of the data packet and the frame is forwarded to an egress mesh point (104-2) in order to provide a service by the mesh network. The MAC frame (200) includes a field comprising an ingress mesh point address (206) and an egress mesh point (208) address. When the egress mesh point (104-2), receives a data packet successfully, the egress mesh point (104-2) or the intermediate mesh point (104-5) sends an ACK to the ingress mesh point (104-4) or preceding mesh point.



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/US05/31032

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04L 12/56 (2006.01)

USPC - 370/395.1

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. : 370/400; 370/401; 370/390; 370/395.1; 370/395.53; 370/396;

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)

U.S. Patent and Trademark Office Patent Full-Text and Full-Page Database; US Patent, US Published Applications.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,041,057 A (STONE) 21 March 2000 (21.03.2000) see the entire document.	1 and 12
A	US 2004/0165600 A1 (LEE) 26 August 2004 (26.08.2004) see paragraphs 23-26.	1 and 12
A	US 6,757,286 B1 (STONE) 29 June 2004 (29.06.2004) see the entire document.	1 and 12
A	US 6,111,858 A (GREAVES et al.) 29 August 2000 (29.08.2000) see figure 1.	1 and 12

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

☐ See patent family annex.

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