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Rangnekar et al.

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(54) **ROUTING PROTOCOL SELECTION FOR AN AD HOC NETWORK**

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(51) Int. Cl.^{7} **H04L 12/28**
(52) U.S. Cl. **370/254**
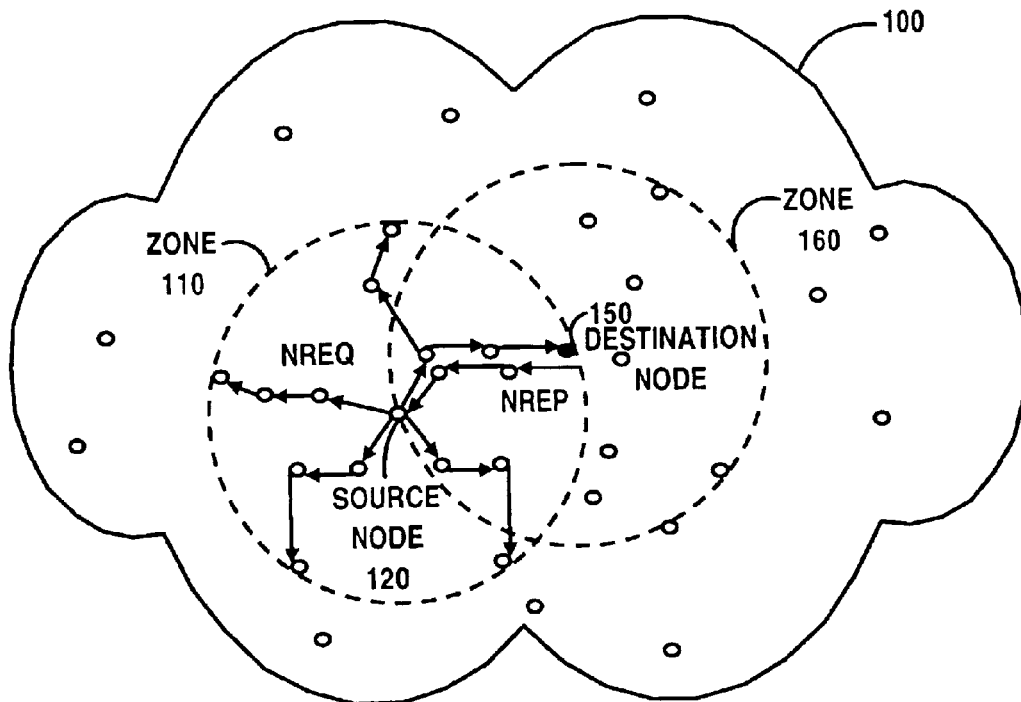(58) Field of Search 370/254–255, 370/310, 338, 347, 349, 351, 400, 901, 464–465, 241, 252; 709/220, 230, 238

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(57) **ABSTRACT**

An ad hoc network includes a set of nodes. A source node in the network attempting to transmit a message to a destination node in the network establishes a common routing protocol between nodes in the network. The source node transmits a request for routing protocol information to a limited number of nodes in the network. The source node receives the routing protocol information from the limited number of nodes and selects a common routing protocol based on the received information. The source node transmits the selected common routing protocol to the nodes in the network.

28 Claims, 5 Drawing Sheets

FIG. 1

200

FIG. 2

300

RECEIVE FIRST COMMON ROUTING PROTOCOL ⎯305

↓

RECEIVE SECOND COMMON ROUTING PROTOCOL ⎯310

↓

PREDETERMINED PERIOD OF TIME EXPIRED? ⎯315

YES → ACCEPT SECOND COMMON ROUTING PROTOCOL ⎯320

NO

↓

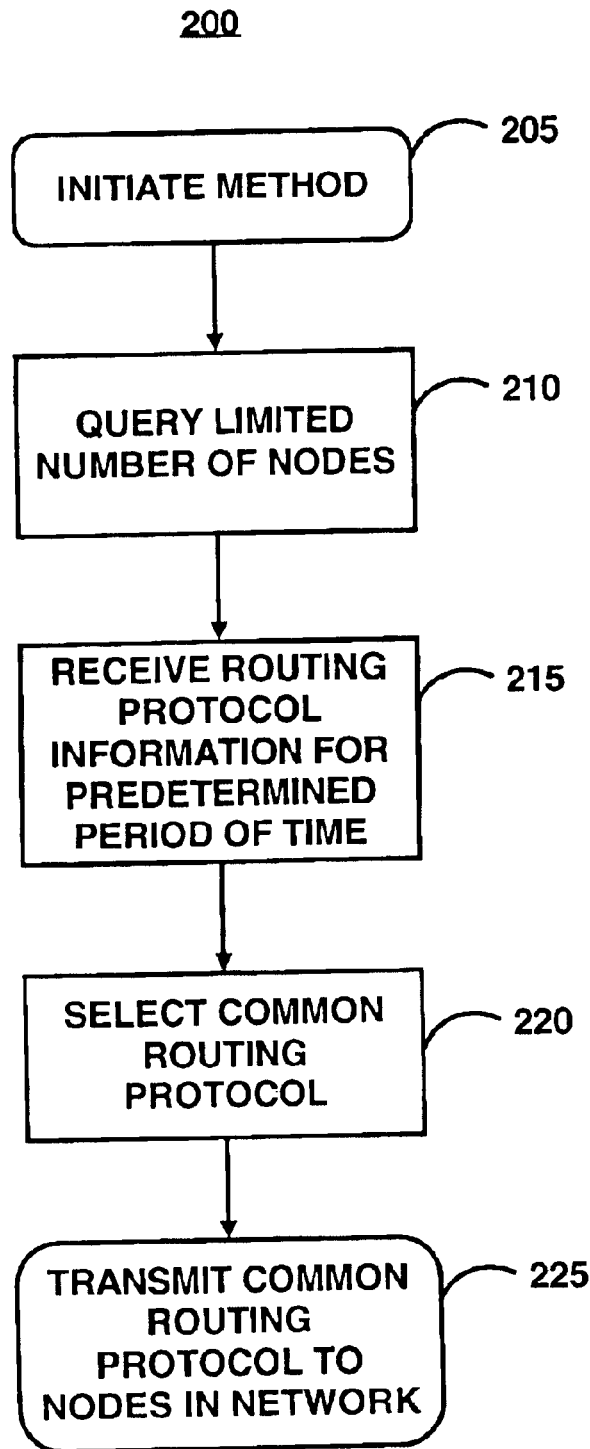SELECT ONE OF FIRST AND SECOND ROUTING PROTOCOLS BASED ON PREDETERMINED CRITERIA ⎯325
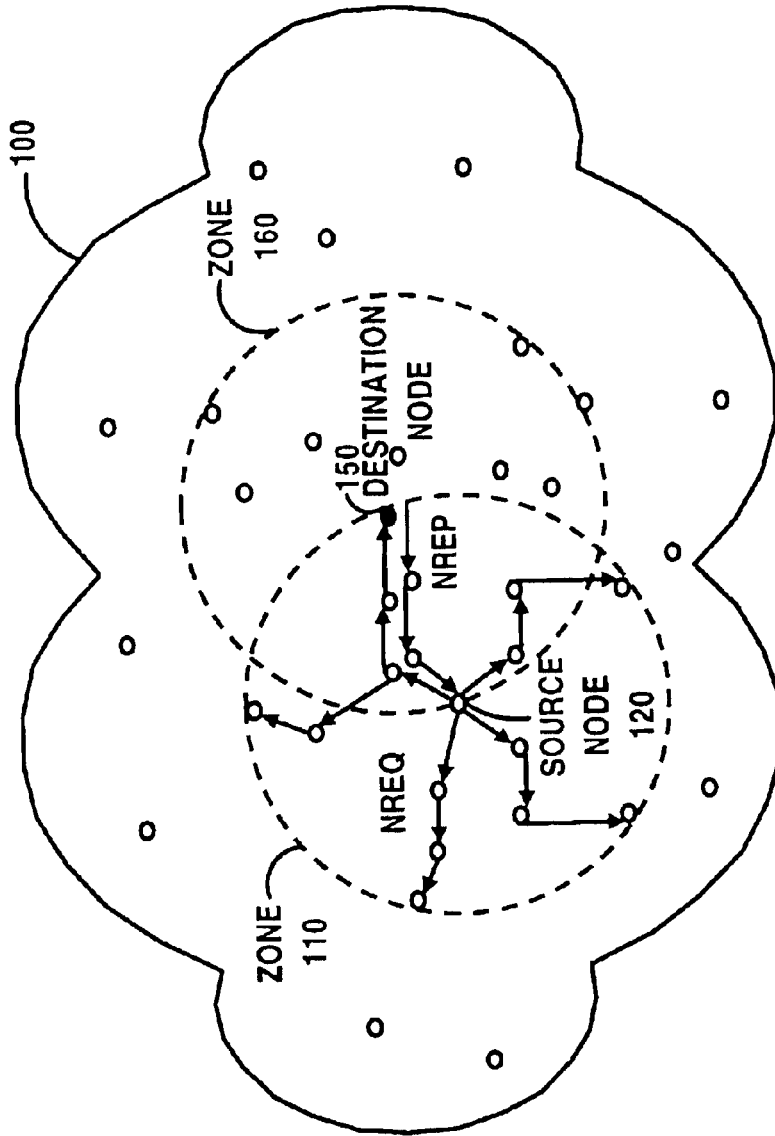
FIG. 3

FIG. 4

DOCKET ALARM
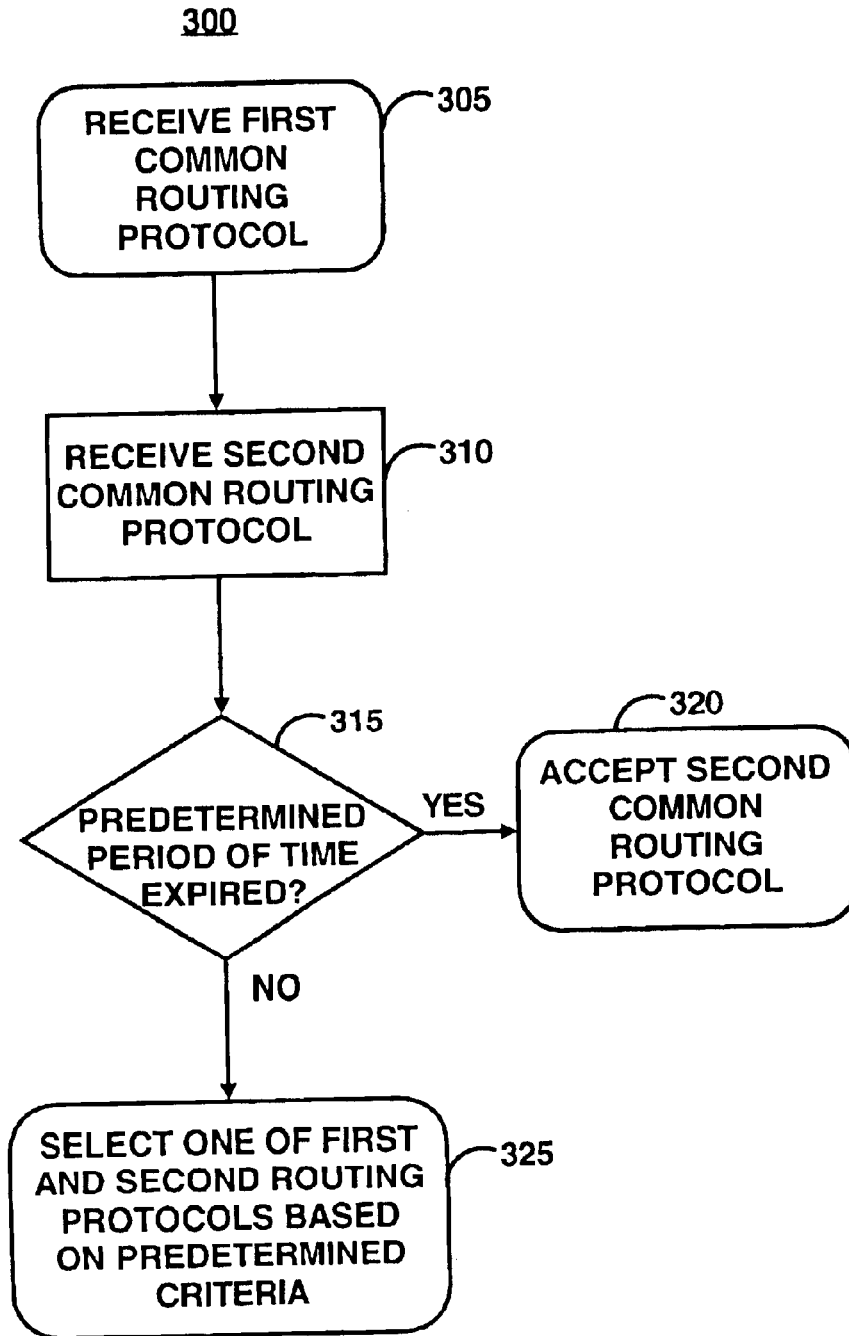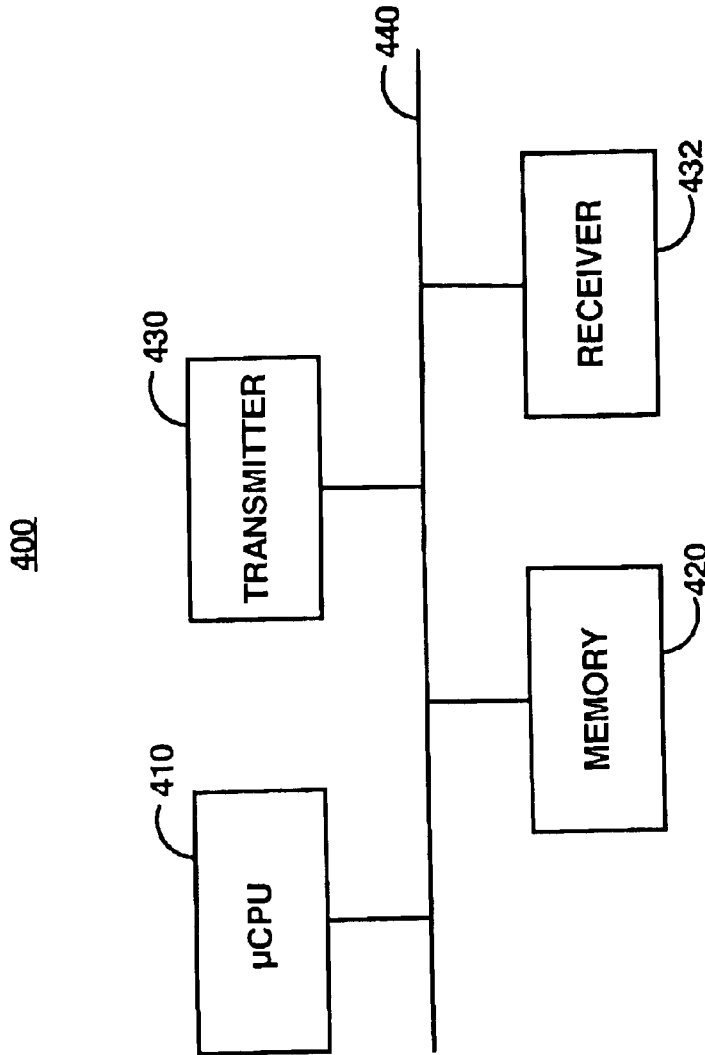
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