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Rangnekar et al.

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

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 97 days.

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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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Primary Examiner—Seema S. Rao

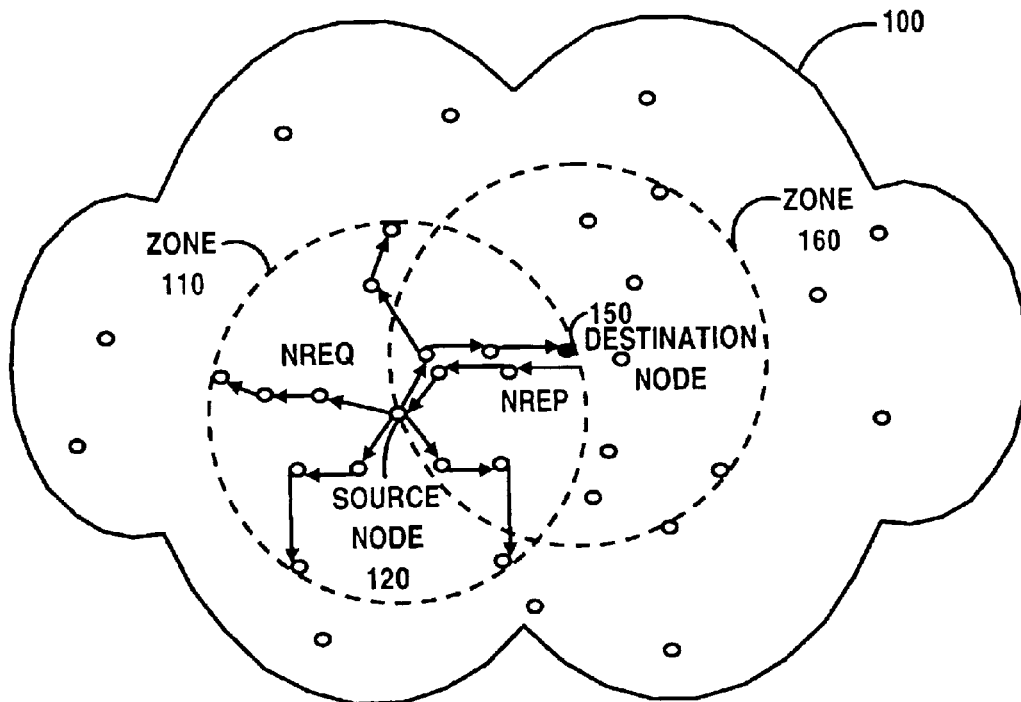
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(57) **ABSTRACT**

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



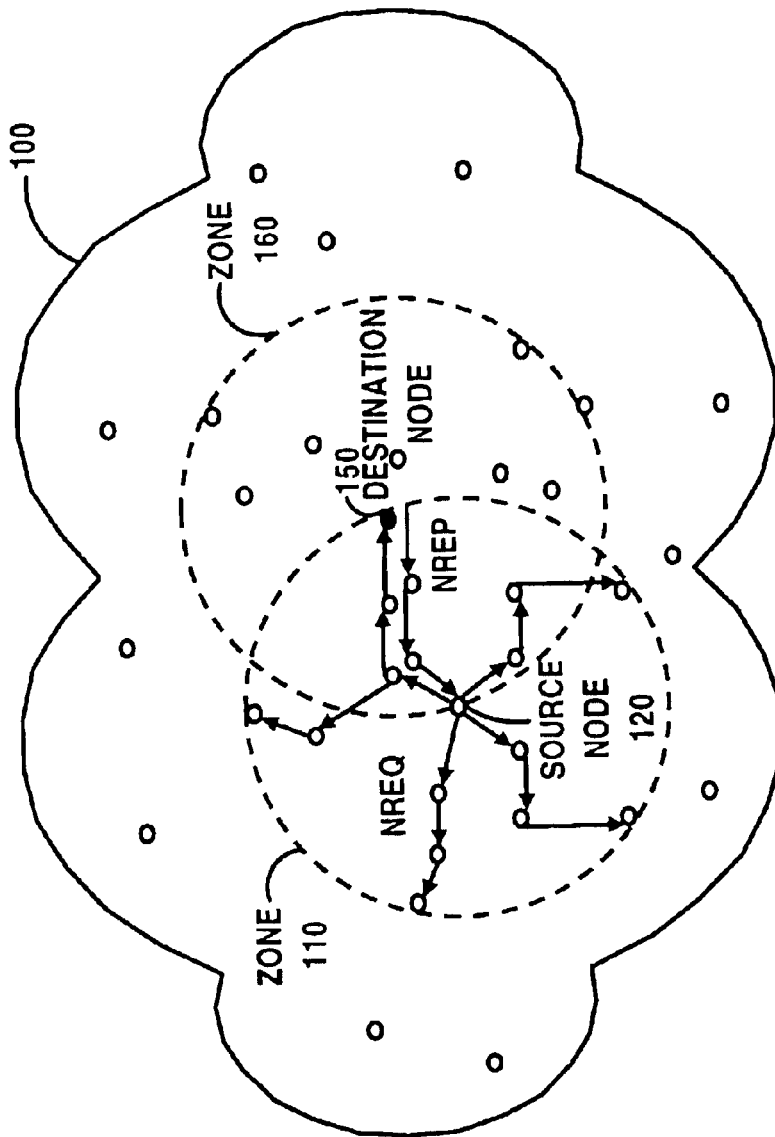


FIG. 1

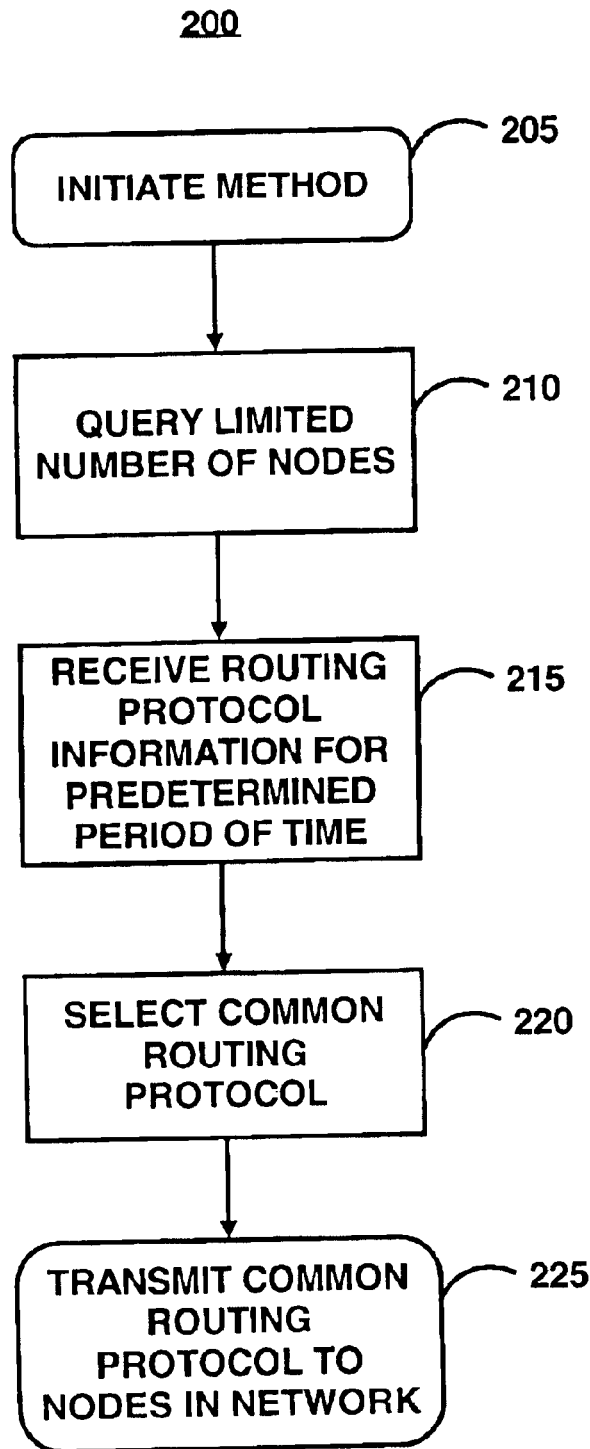


FIG. 2

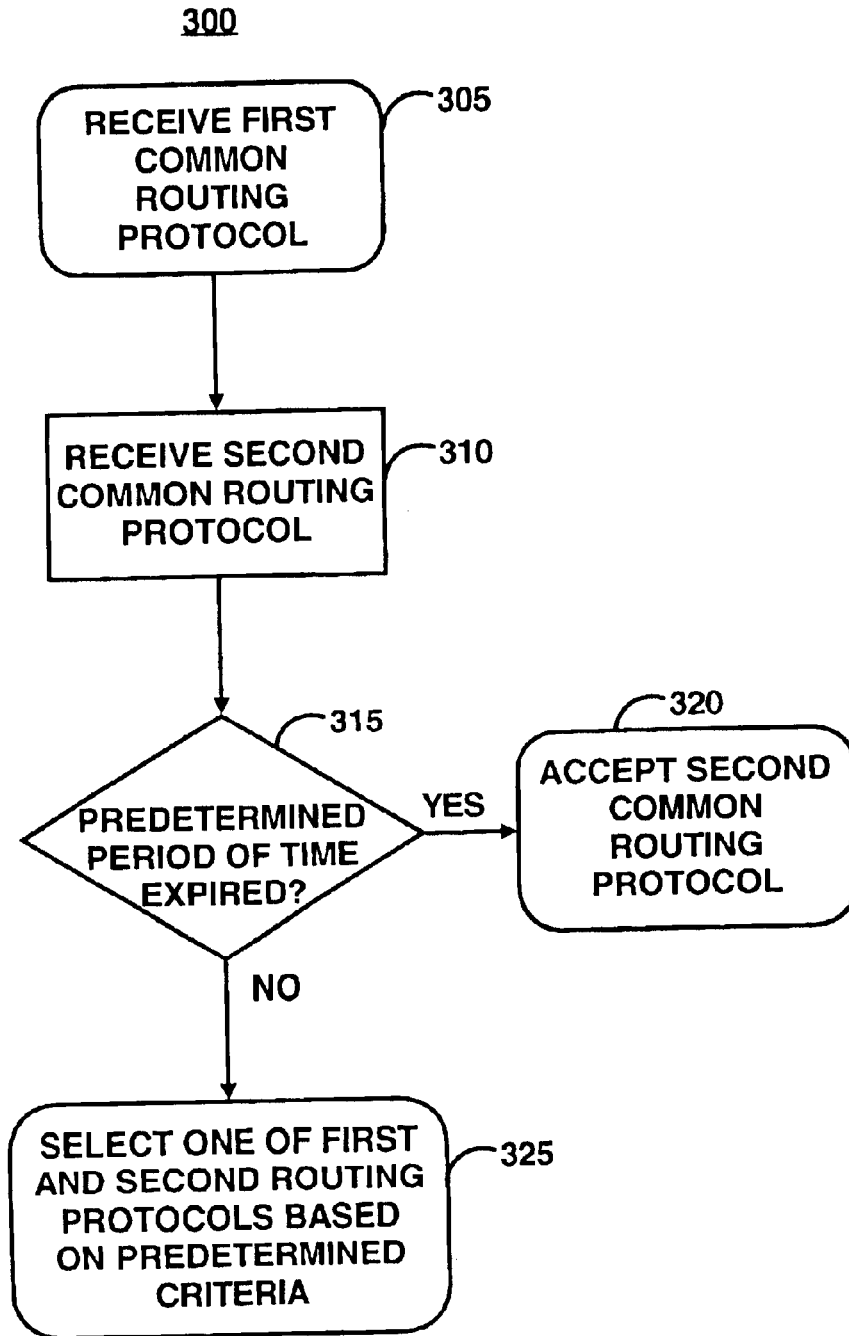


FIG. 3

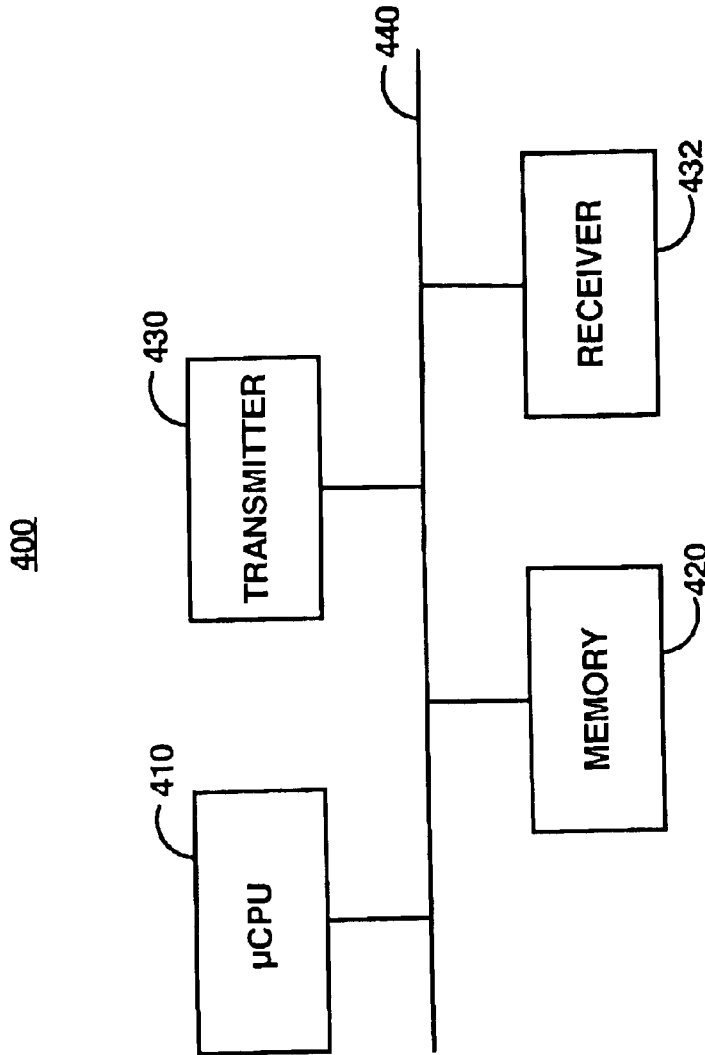


FIG. 4

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