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(54) Title: AUTONOMOUS GEOGRAPHICAL LOCATION DETERMINATION USING MESH NETWORK

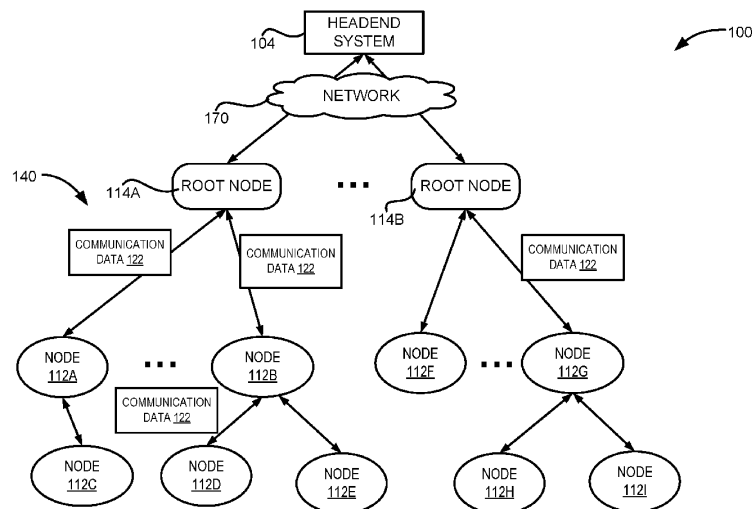


FIG. 1

(57) Abstract: Technologies for autonomously determining location information of a network node in a mesh network are provided. For example, a mesh network includes primary nodes whose locations are known and secondary nodes whose locations are to be determined. A secondary node is configured to identify in-range primary nodes among the primary nodes that are in the communication range of the secondary node, and determine whether the number of the in-range primary nodes is above a threshold. If the number of the in-range primary nodes is above the threshold, the secondary node further determines a distance between the secondary node and each of selected in-range primary nodes, and calculates a location of the secondary node based on the distances and the respective locations of the selected in-range primary nodes. The secondary node further transmits the calculated location to a headend system over the mesh network.

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