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(54) Title: **CLOCK SYNCHRONIZATION IN MESH NETWORKS**

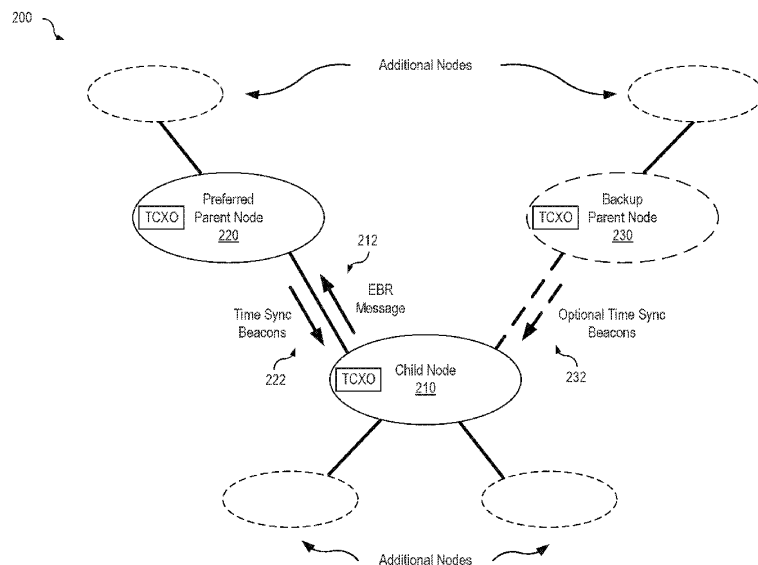


FIG. 2

(57) Abstract: A method for maintaining synchronization of nodes in a mesh network includes: receiving primary beacons from a first transmitting node during a predetermined time interval, each of the primary beacons comprising time information indicating a time that a respective primary beacon was transmitted; comparing the time that each of the primary beacons was transmitted with a time that each of the primary beacons was received to determine a time difference; accumulating the time difference for each primary beacon received from the first transmitting node during the predetermined time interval to generate a first time synchronization error; comparing the first time synchronization error to a first threshold value; and in response to determining that the first time synchronization error exceeds the first threshold value, transmitting a first request to the first transmitting node to increase a rate of beacon transmissions for a specified period of time.

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