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(54) Title: SYSTEM AND METHOD FOR COMMUNICATING BROADCAST MESSAGES IN A MESH NETWORK

(57) Abstract: A method for a gateway node to wirelessly communicate with a plurality of satellite nodes coupled to a sensing device or an actuator on one or more logical layers is disclosed. The gateway node generates a broadcast message for communication to the plurality of satellite nodes that is thereafter transmitted during a gateway node transmit communication time to one or more satellite nodes on a first logical layer of nodes that are within a broadcast range of the gateway node. The satellite nodes on the first logical layer receive the broadcast message, execute instructions contained in the broadcast message, and repeat the broadcast message to one or more additional satellite nodes on a logical layer beyond the broadcast range of the gateway node. An acknowledgement message is communicated back to the gateway node from each satellite node indicating receipt and execution of the broadcast message.



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