



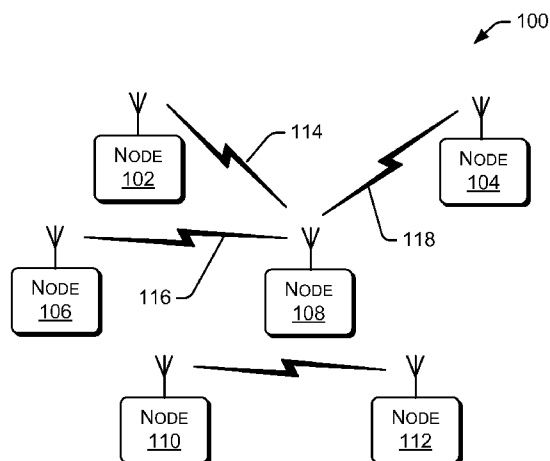
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(54) **Title:** MULTIPLE PROTOCOL RECEIVER**FIG. 1**

(57) **Abstract:** Implementation and operation of a multiple protocol receiver are described herein. In one example, a multiple protocol receiver in a node may alternate between first and second states. In a first state, the multiple protocol receiver listens simultaneously for a plurality of differently modulated signals. Such listening may be performed in a parallel manner, wherein a plurality of preamble detection processes each listens for a specific preamble. The listening may result in detection of a preamble of a packet, which triggers transition to the second state. The detected preamble may indicate a protocol used in transmission of the packet. The received packet may then be demodulated according to, for example, a data rate, synchronization, redundancy and/or other factors indicated by the protocol. The received packet may be utilized by the node or retransmitted. The multiple protocol receiver may return to the first state to repeat and continue the procedure.