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(54) Title: METHOD, APPARATUS, AND SYSTEM FOR SEMANTIC COMMUNICATIONS

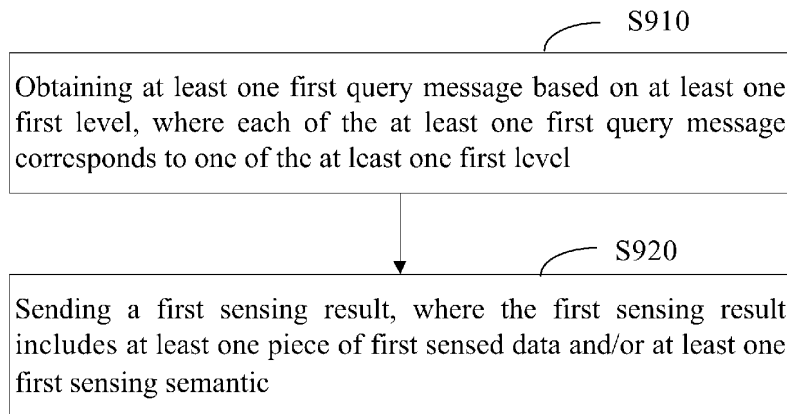


FIG. 9

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(57) Abstract: Provided are sensing communication method, apparatus, and system. An apparatus such as a central device can broadcast or multi-cast or unicast query message(s), so that other apparatus(es) such as one or more sensing devices can obtain the query message(s) and respond with sensing result(s) in response to the obtained query message(s). Query may be conducted for one or more rounds. In a round, the query messages can be of different levels, and as a result, more flexible and detailed query would be achieved. Moreover, query may be conducted for several rounds, and the apparatus may broadcast or multi-cast or unicast query messages of different levels in several rounds, so that other apparatus(es) can respond with sensing result(s) in response to the obtained query messages in several rounds, where a low level/coarse level query message is for initial query, and a high level query message is for subsequent fine grained query. As a result, query could be conducted progressively based on hierarchical levels of queries, and sensing results would become finer and finer.

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