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(54) Title: A METHOD FOR MANAGING SINGLE CHANNEL SPATIAL REUSE IN THE PRESENCE OF POTENTIALLY DISRUPTIVE NODES IN A MOBILE AD-HOC NETWORK

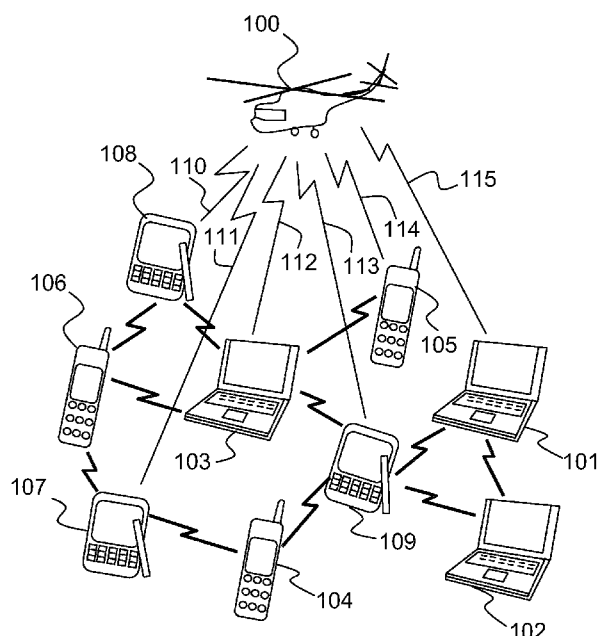


FIG.1

(57) Abstract: A method for managing the spatial reuse of slots in a mobile network comprising several nodes N_i , said network comprising one or more Potentially Disruptive Nodes (PDN), said nodes N_i and PDN comprising a local table, a global table, and a summary of the global table comprising the interleaving of two sub-cycles: • a first sub-cycle, the normal S-cycle, where S-SLOTS are all assigned statically and where each node has one or only one S-SLOT allocation, • a second sub-cycle, the improved S-cycle, where each node has one S-SLOT assigned statically, and where for all nodes except PDN nodes, one or more additional S-SLOTS is assigned dynamically when topology makes it possible, dynamic S-SLOT allocation being equitably shared in a 2-hop neighbourhood, and determined by performing S-SLOT spatial reuse.



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