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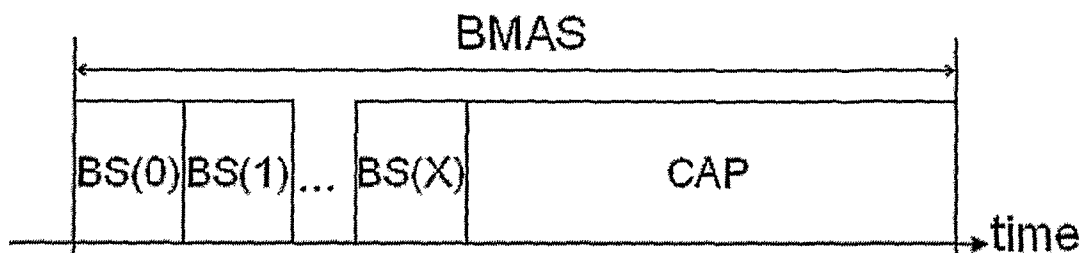
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(54) Title: A DISTRIBUTED WIRELESS MEDIUM ACCESS CONTROL PROTOCOL FOR AD-HOC NETWORKS



(57) Abstract: A distributed wireless medium access control protocol is disclosed. According to the disclosed wireless medium access control protocol the medium access time is partitioned into equal sized slots, and a predetermined number of the slots forming a superframe. The protocol defines beaconing devices and passive devices. Each beaconing device designates one of the slots in the superframe as its beacon medium access slot, and broadcasts during that beacon medium access slot a beacon frame to other devices in wireless range of that beaconing device. A beacon frame collision detection and resolution procedure, and a procedure for reserving access time for communication between devices are also disclosed.

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