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## (54) SYSTEM AND METHOD FOR RESILIENT WIRELESS PACKET COMMUNICATIONS

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#### **ABSTRACT** (57)

Rapid failure detection and recovery in wireless communication networks is needed in order to meet, among other things, carrier class Ethernet transport channel standards. Thus, resilient wireless packet communications is provided using a hardware-assisted rapid transport channel failure detection algorithm and a Gigabit Ethernet data access card with an engine configured accordingly. In networks with various topologies, this is provided in combination with their existing protocols, such as rapid spanning tree and link aggregation protocols, respectively.

