

Title of Invention: **Method and Device for Mesh Routing in a Channel-diverse Mesh Network**

Abstract

Embodiments of the invention relate to low-cost and low-complexity mesh routing method to provide connectivity within a channel-diverse mesh network in which there is no common channel available for the whole network and in which a single transceiver is provided in each node. The mesh routing method includes a procedure for flooding radio resource maps (RRMs), a procedure for determining the operating channel for each mesh node device, a routing procedure for establishing a route for a pair of source device and destination device, and a maintenance procedure for repairing routes and optimize selection of operating channel.

[Figure 7(b)]