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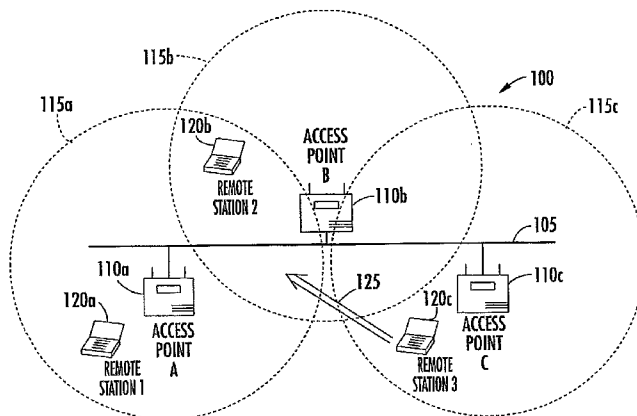
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(54) Title: ANTENNA STEERING AND HIDDEN NODE RECOGNITION FOR AN ACCESS POINT



(57) Abstract: A method for operating an access point in a wireless local area network (WLAN) is provided. The access point includes a directional antenna for communicating with a plurality of remote stations, and the directional antenna includes a plurality of antenna patterns. The method includes creating an antenna database by associating between the access point and each remote station a respective measured signal quality corresponding to the plurality of antenna patterns. The respective measured signal qualities are determined by the access point based upon communications with each remote station. The method further includes determining for each remote station a preferred antenna pattern based upon the antenna database, and selecting a remote station and the corresponding preferred antenna pattern to communicate with. It is also determined based upon the antenna database and prior to communicating with the selected remote station, if any non-selected remote stations have the potential of not being aware when such communications actually occurs.

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