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(54) Title: INTERFERENCE MITIGATION BY TRANSMITTING ON A SECOND, LOWER, POWER LEVEL

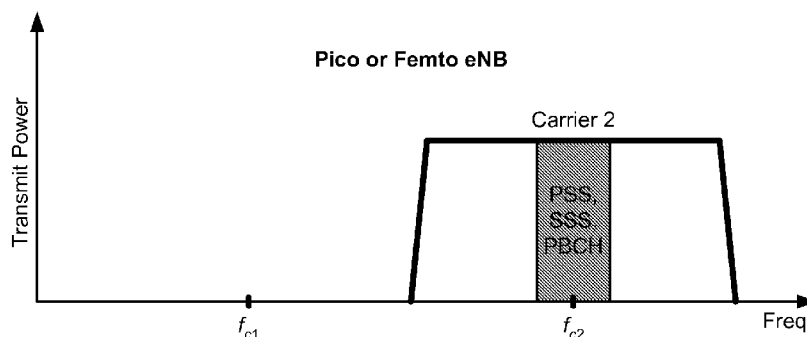


FIG. 4

(57) Abstract: Techniques for communicating on multiple carriers in a wireless communication network are described. In an aspect, different transmit power levels may be used for different carriers to mitigate interference. A first base station may be assigned one or more carriers among multiple carriers available for communication. A second base station may be assigned one or more carriers not assigned to the first base station. Each base station may communicate on each assigned carrier at a first (e.g., full) transmit power level and may communicate on each unassigned carrier at a second (e.g., lower) transmit power level. The first and second base stations may belong in different power classes or support different association types. In another aspect, control information may be sent on a designated carrier to support communication on multiple carriers. In yet another aspect, a base station may broadcast bar information indicating the status of carriers.