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(54) **Title:** METHOD AND APPARATUS FOR SUPPORTING COMMUNICATION IN PICO NETWORKS

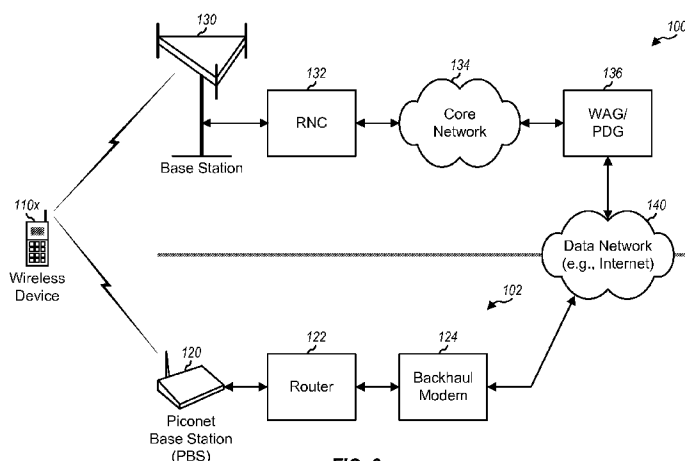


FIG. 2

(57) **Abstract:** Techniques for extending coverage of a wireless communication network (e.g., a cellular network) to indoor and other locations are described. A wireless device may communicate with a base station in a wireless network via downlink and uplink frequency channels in a licensed frequency band using frequency division duplexing (FDD). The wireless device may communicate with a piconet base station (PBS) in a pico network (piconet) via the uplink frequency channel using time division duplexing (TDD). The PBS may communicate with the wireless device on the uplink frequency channel and may exchange data with the wireless network via a wireline communication link. The PBS may forward data received from the wireless device to the wireless network and may also forward data received from the wireless network for the wireless device to the wireless device. The PBS may receive paging messages from the wireless network for the wireless device and may forward the paging messages to the wireless device.

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