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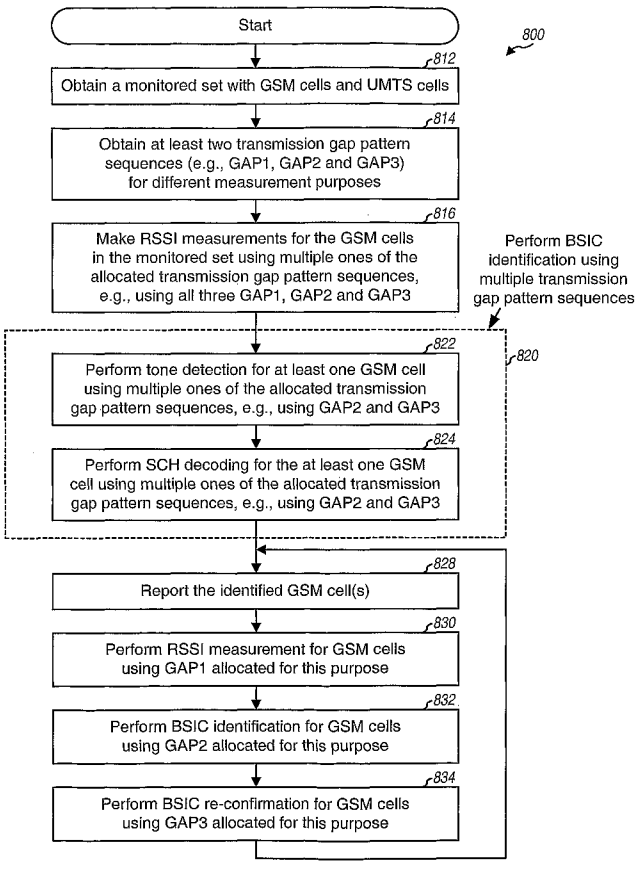
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(54) Title: EFFICIENT CELL MEASUREMENTS DURING TRANSMISSION GAPS IN A COMPRESSED MODE



(57) Abstract: A terminal obtains a monitored set containing GSM neighbor cells and/or UMTS neighbor cells. The terminal operates in a compressed mode and obtains from a UMTS network at least two transmission gap pattern sequences for different measurement purposes, e.g., for "GSM carrier RSSI measurements" (GAP1), "GSM initial BSIC identification" (GAP2), and "GSM BSIC re-confirmation" (GAP3). The terminal makes RSSI measurements for the GSM cells using multiple transmission gap pattern sequences, e.g., using GAP1, GAP2 and GAP3. The terminal identifies the BSIC for at least one GSM cell by (1) detecting the tone on the FCCH using multiple transmission gap pattern sequences, e.g., using GAP2 and GAP3, and (2) decoding the SCH using multiple transmission gap pattern sequences, e.g., using GAP2 and GAP3. The use of multiple transmission gap pattern sequences for RSSI measurement and BSIC identification allows the terminal to complete the cell measurements and send a report sooner, which may improve performance.

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