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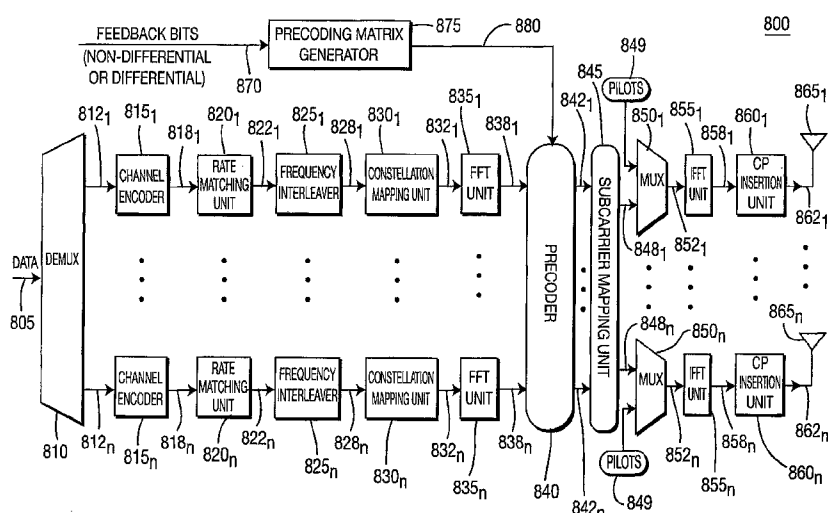
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(54) Title: METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM



(57) Abstract: Precoding feedback scheme based on Jacobi rotations to generate the feedback in the uplink. For a wireless communication system including a transmitter and a receiver. The system may use either a single codeword (SOW) or a double codeword (DCW). The precoding scheme is based on transmit beamforming (TxBF). Differential feedback is considered, with periodic non-differential feedback to avoid error accumulation or propagation due to differential processing. Precoding feedback scheme based on Jacobi rotations to generate the feedback in the uplink. For a wireless communication system including a transmitter and a receiver. The system may use either a single codeword (SOW) or a double codeword (DCW). The precoding scheme is based on transmit beamforming (TxBF). Differential feedback is considered, with periodic non-differential feedback to avoid error accumulation or propagation due to differential processing.



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