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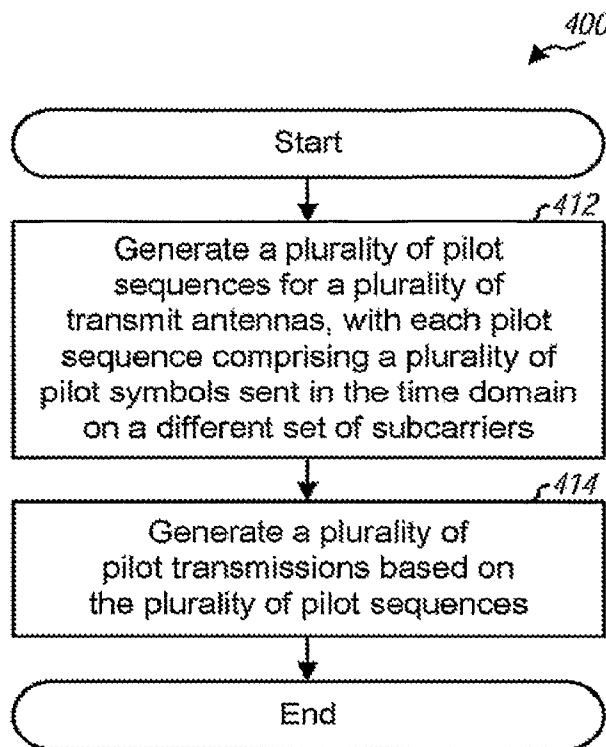
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(54) Title: METHOD AND APPARATUS FOR PILOT MULTIPLEXING IN A WIRELESS COMMUNICATION SYSTEM



(57) Abstract: Techniques for multiplexing pilots in a wireless transmission are described. In one aspect, a transmitter station generates multiple pilot sequences for multiple transmit antennas, with each pilot sequence comprising pilot symbols sent in the time domain on a different set of subcarriers. The transmitter station further generates multiple pilot transmissions for the transmit antennas based on the pilot sequences. In another aspect, a transmitter station generates multiple pilot sequences for multiple transmit antennas based on frequency-domain code division multiplexing (FD-CDM) of a Chu sequence defined by a transmitter-specific value. The transmitter station further generates multiple pilot transmissions for the transmit antennas based on the pilot sequences. In yet another aspect, a transmitter station generates multiple pilot transmissions for multiple transmit antennas based on a first multiplexing scheme and generates multiple data transmissions based on a second multiplexing scheme that is different from the first multiplexing scheme.

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