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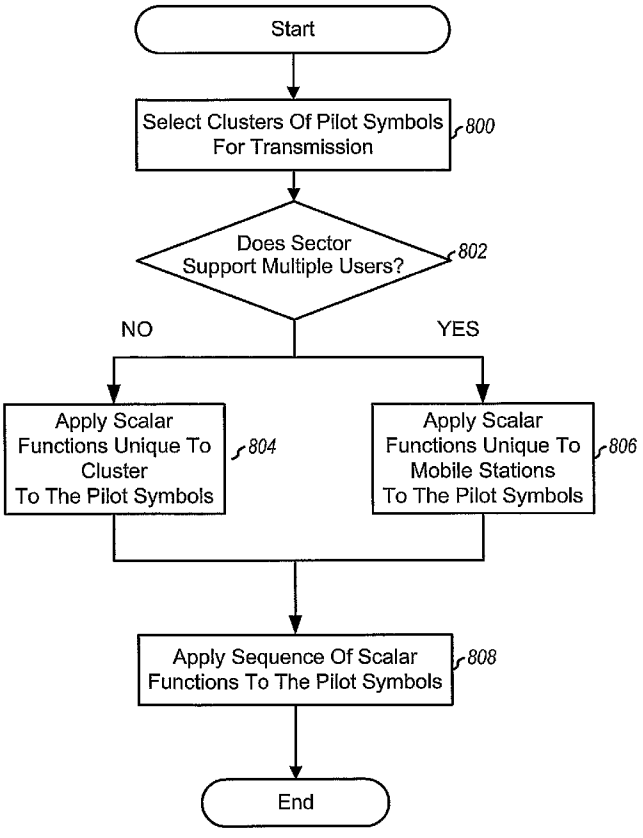
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(54) Title: PILOT SIGNAL TRANSMISSION FOR AN ORTHOGONAL FREQUENCY DIVISION WIRELESS COMMUNICATION SYSTEM



(57) Abstract: Transmission patterns for pilot symbols transmitted from a mobile station or base station are provided. The pattern allows for improved receipt of the pilot symbols transmitted. In addition, schemes for improving the ability to multiplex pilot symbols without interference and/ or biasing from different mobile stations over the same frequencies and in the same time slots . In Frequency Hopping OFDMA, the pilot symbols between users may overlap. Orthogonality between overlapping users is ensured by using orthogonal pilot sequences, sector and cell specific scrambling codes.

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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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