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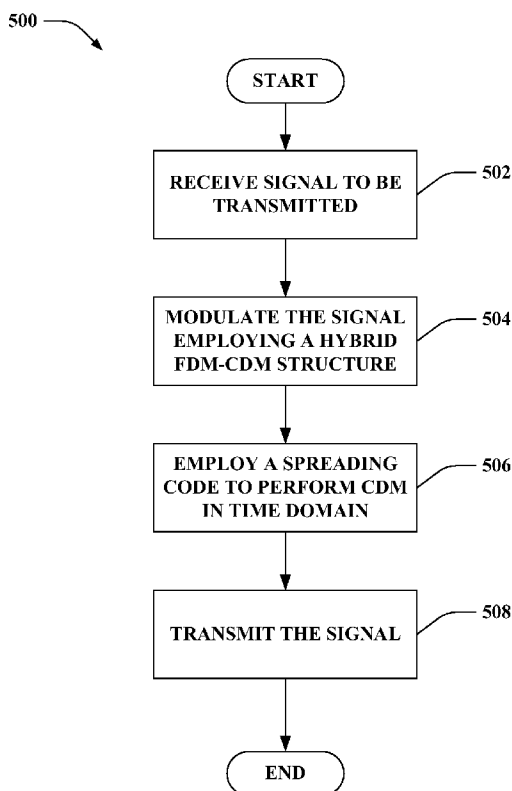
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(54) Title: METHOD AND APPARATUS FOR HYBRID FDM-CDM STRUCTURE FOR SINGLE CARRIER BASED CONTROL CHANNELS



(57) Abstract: A system and method for hybrid FDM (frequency division multiplexing)-CDM (code division multiplexing) structure for single carrier control channels is provided. The hybrid FDM-CDM structure maximizes frequency diversity over the entire available bandwidth such that orthogonality between signals from users in a given cell is maintained. Thus, users in the given cell can transmit over a non-contiguous set of tones. Furthermore, the hybrid FDM-CDM structure maintains orthogonality of a pilot of users in different cells based on a despreading operation in the time domain.



Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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