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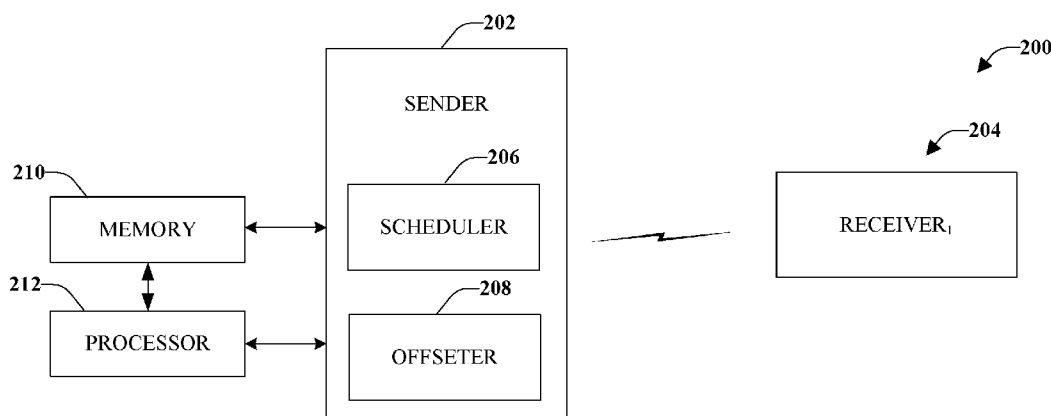
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(57) Abstract: Space division multiple access channelization is provided that includes scheduling transmission for two or more terminals and utilizing different code offsets that correspond to different sub-trees. The transmissions can be scheduled on overlapping frequency resources for overlapping time periods on different spatial resources. The pilot code offsets provide different pilot signatures so that the pilot transmissions do not overlap. The overlapping frequency resources can partially overlap or completely overlap.

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SPACE DIVISION MULTIPLE ACCESS CHANNELIZATION IN WIRELESS COMMUNICATION SYSTEMS

ABSTRACT

Space division multiple access channelization is provided that includes scheduling transmission for two or more terminals and utilizing different code offsets that correspond to different sub-trees. The transmissions can be scheduled on overlapping frequency resources for overlapping time periods on different spatial resources. The pilot code offsets provide different pilot signatures so that the pilot transmissions do not overlap. The overlapping frequency resources can partially overlap or completely overlap.