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#### (54) RECURSIVE REDUCTION OF CHANNEL STATE FEEDBACK

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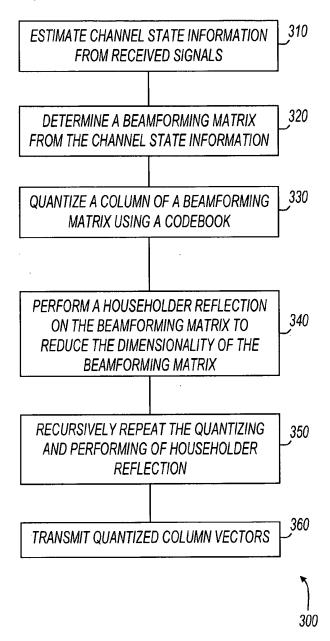
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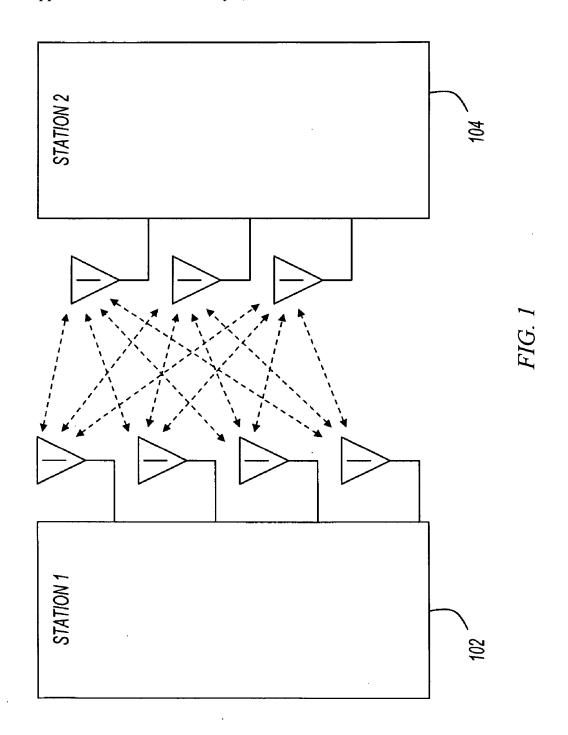
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**ABSTRACT** (57)

Feedback bandwidth may be reduced in a closed loop MIMO system by Householder transformations and vector quantization using codebooks.







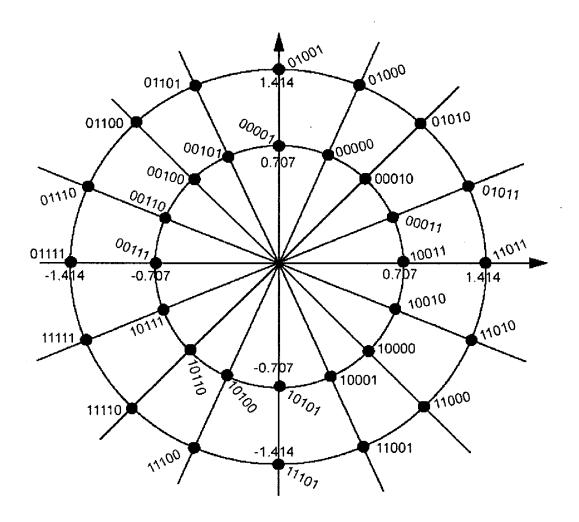
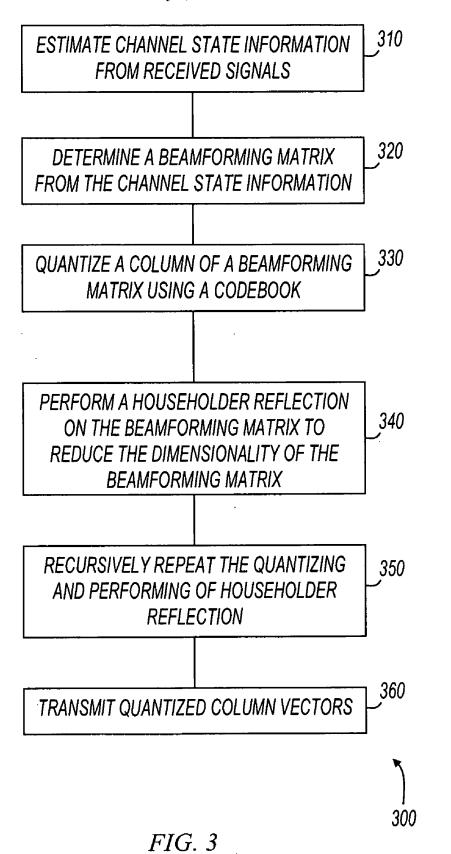
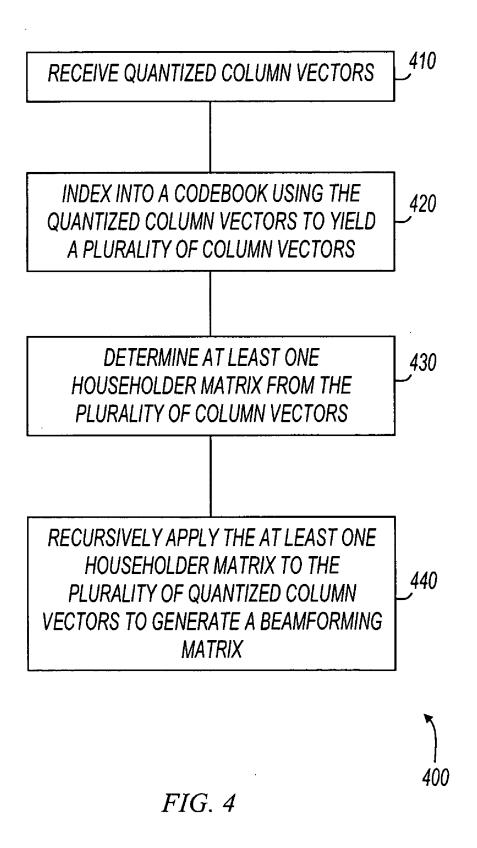


FIG. 2









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