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

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(76) Inventors: **Qinghua Li**, Sunnyvale, CA (US);
Xintian E. Lin, Mountain View, CA (US)

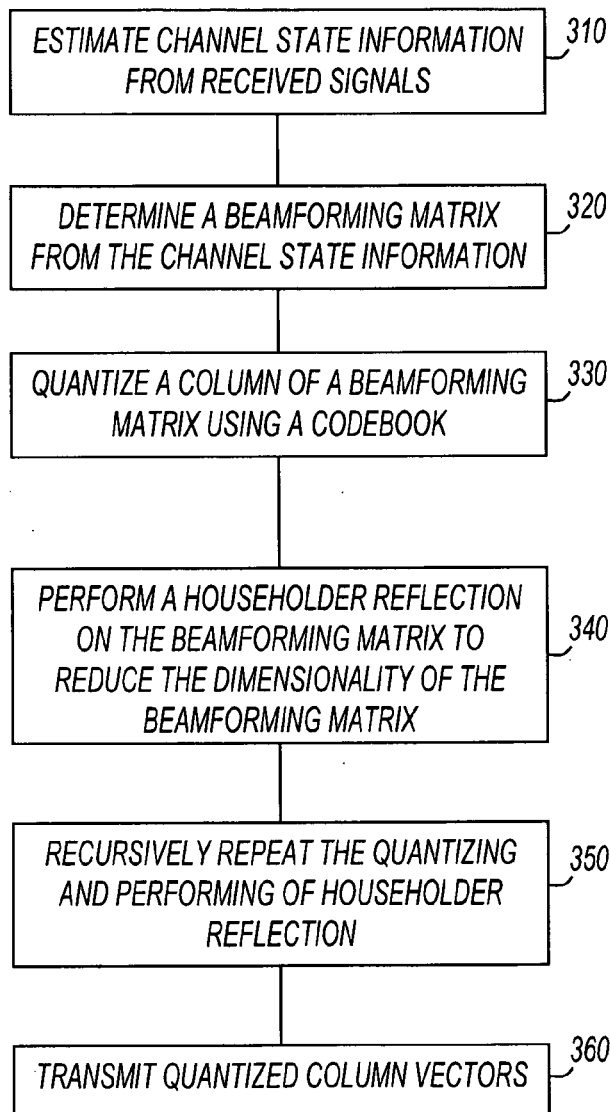
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Correspondence Address:
LeMoine Patent Services, PLLC
c/o PortfolioIP
P.O. Box 52050
Minneapolis, MN 55402 (US)

(57) **ABSTRACT**

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

(21) Appl. No.: **10/937,097**



200

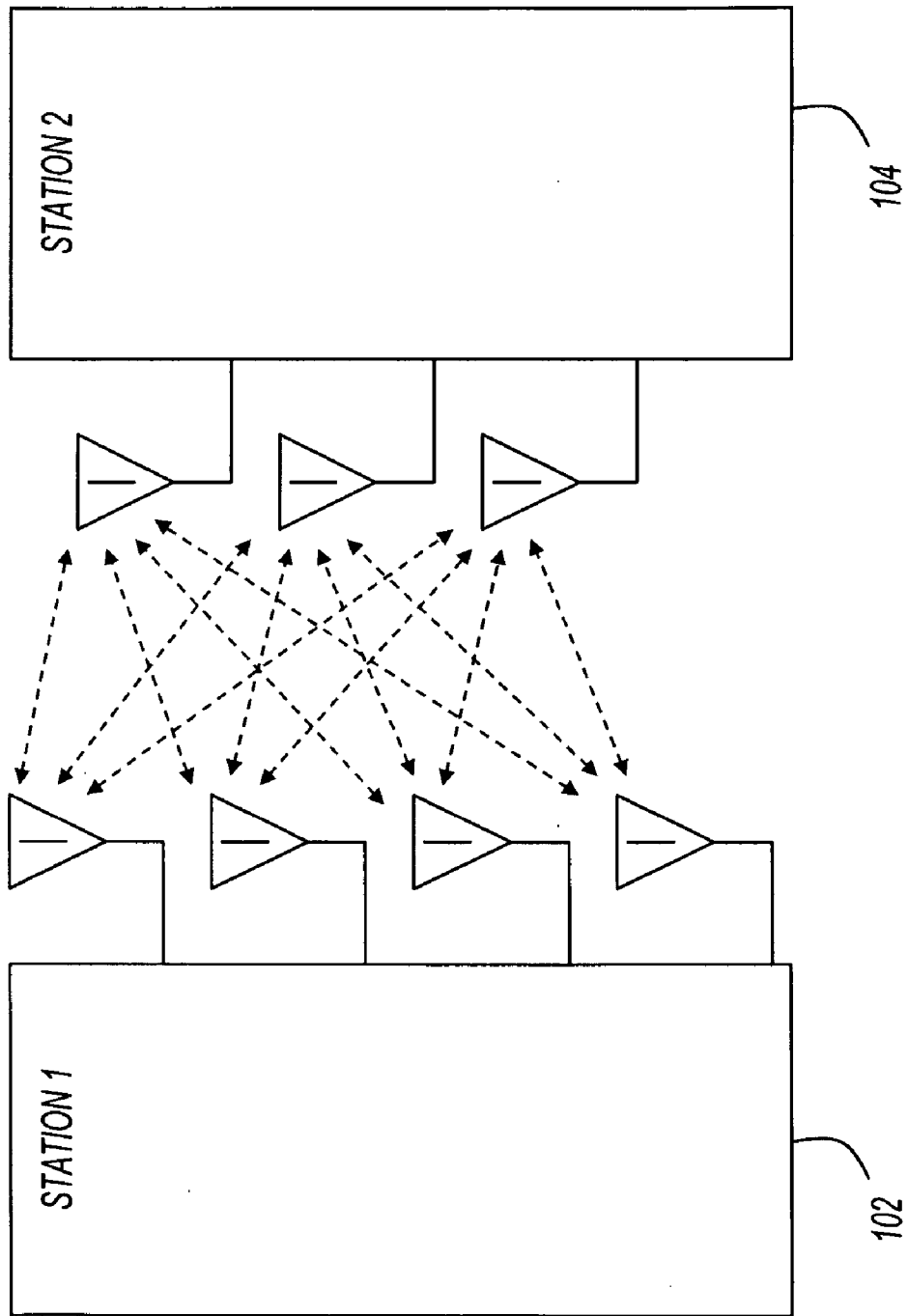


FIG. 1

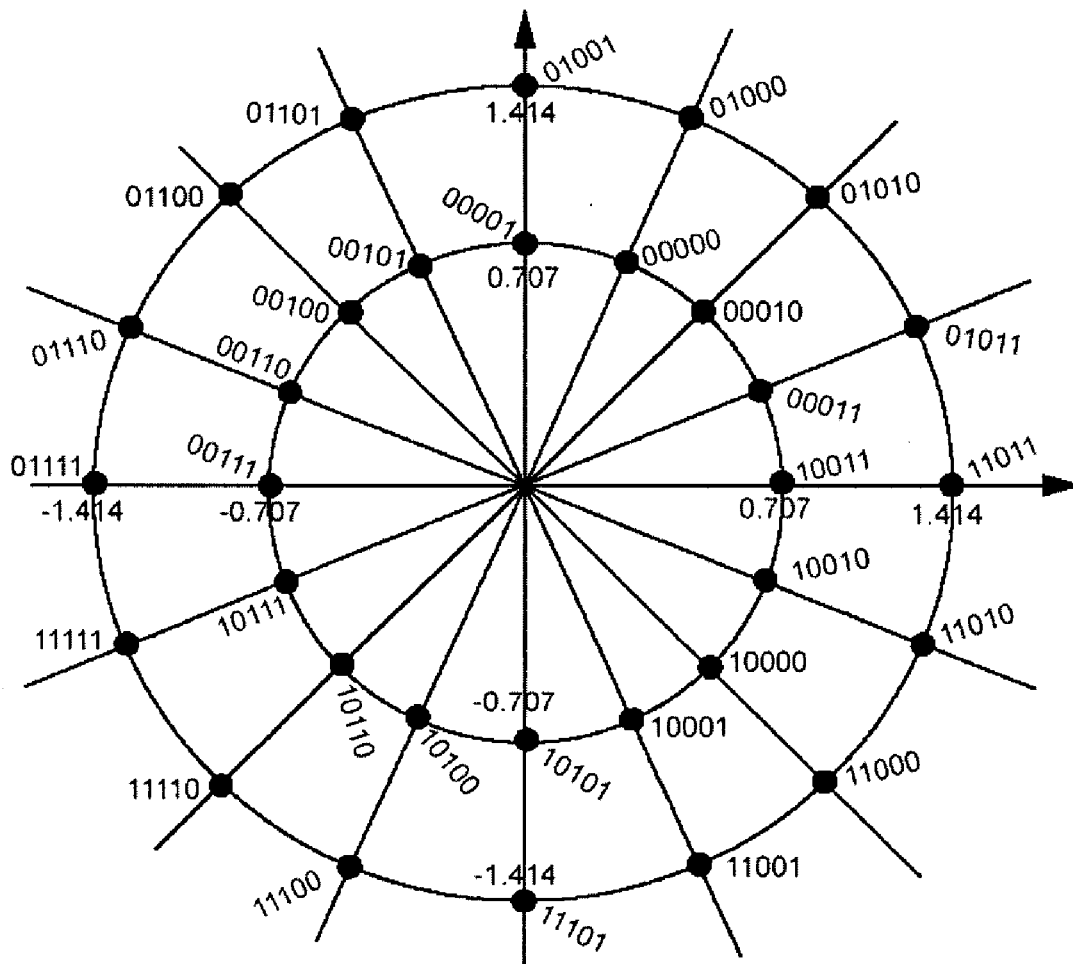


FIG. 2

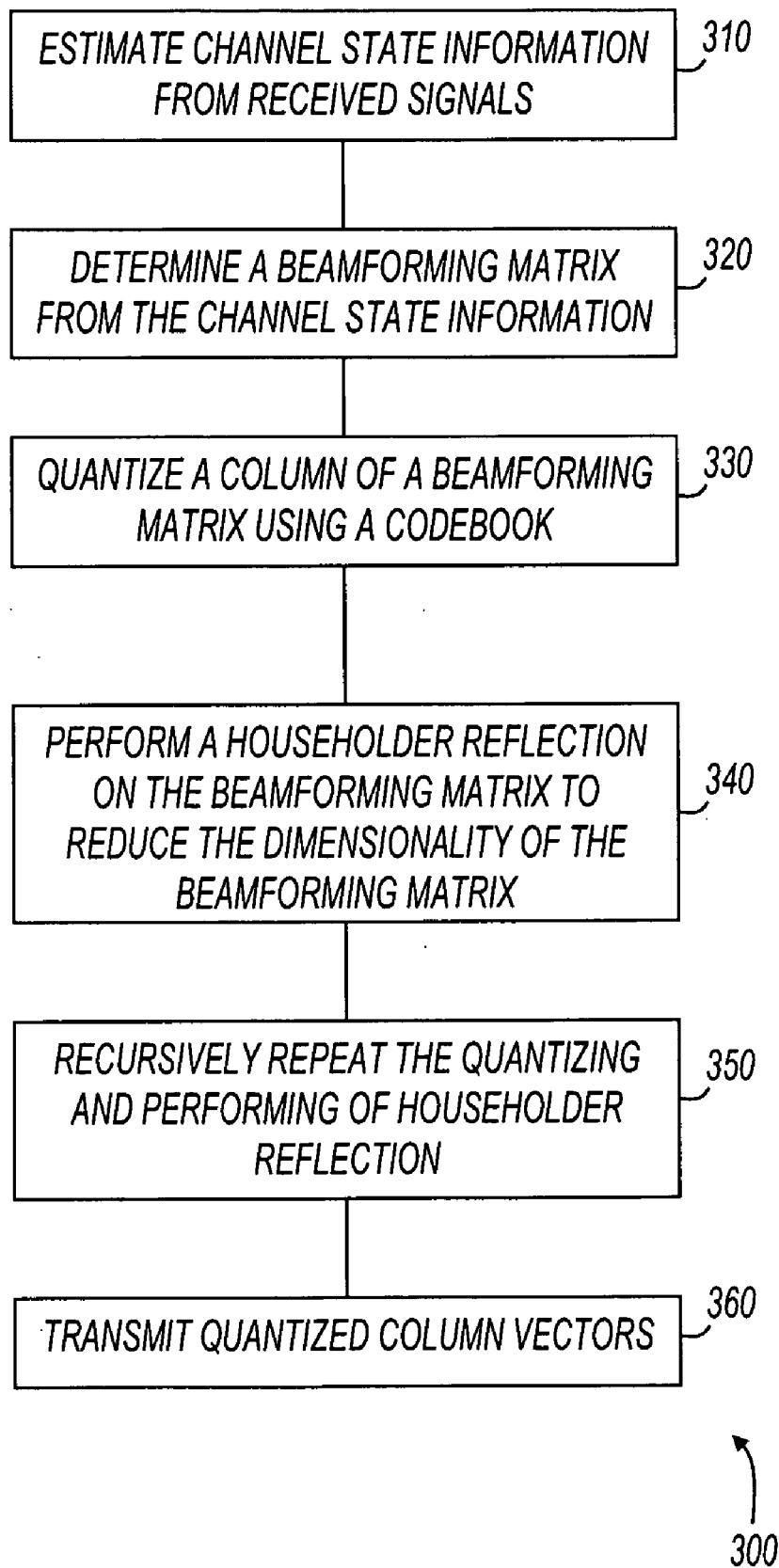


FIG. 3

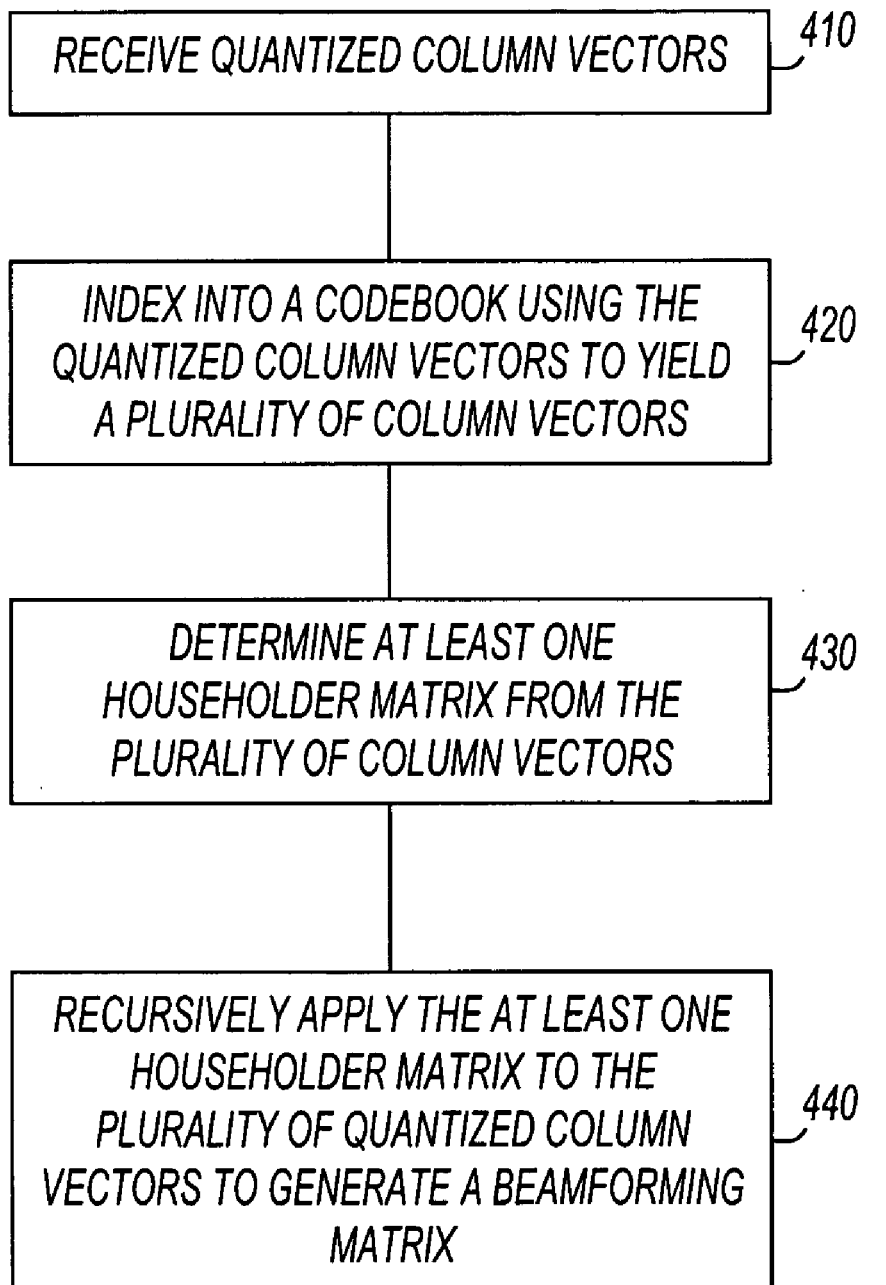


FIG. 4

400

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