

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1297 days.

(21) Appl. No.: **10/875,111**

(22) Filed: **Jun. 23, 2004**

(65) **Prior Publication Data**

US 2005/0286404 A1 Dec. 29, 2005

(51) **Int. Cl.**
H04Q 7/00 (2006.01)

(52) **U.S. Cl.** **370/334; 375/267; 455/562.1**

(58) **Field of Classification Search** 370/477,
370/478, 480, 498, 343, 345, 203, 208, 252-254,
370/310, 328, 334, 447; 375/299, 347, 260,
375/267; 455/562.1, 561

See application file for complete search history.

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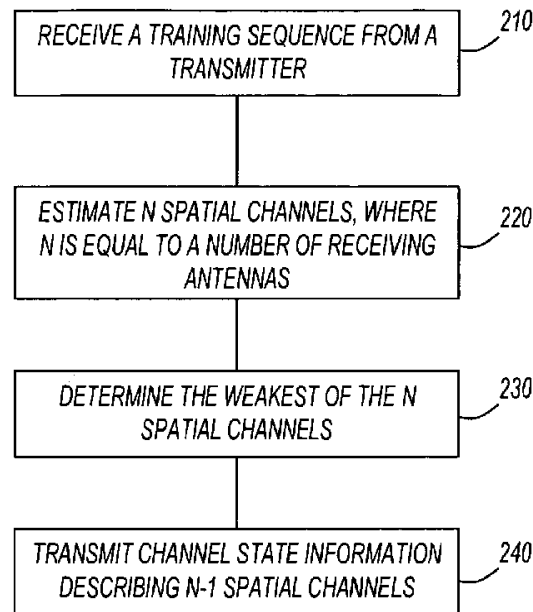
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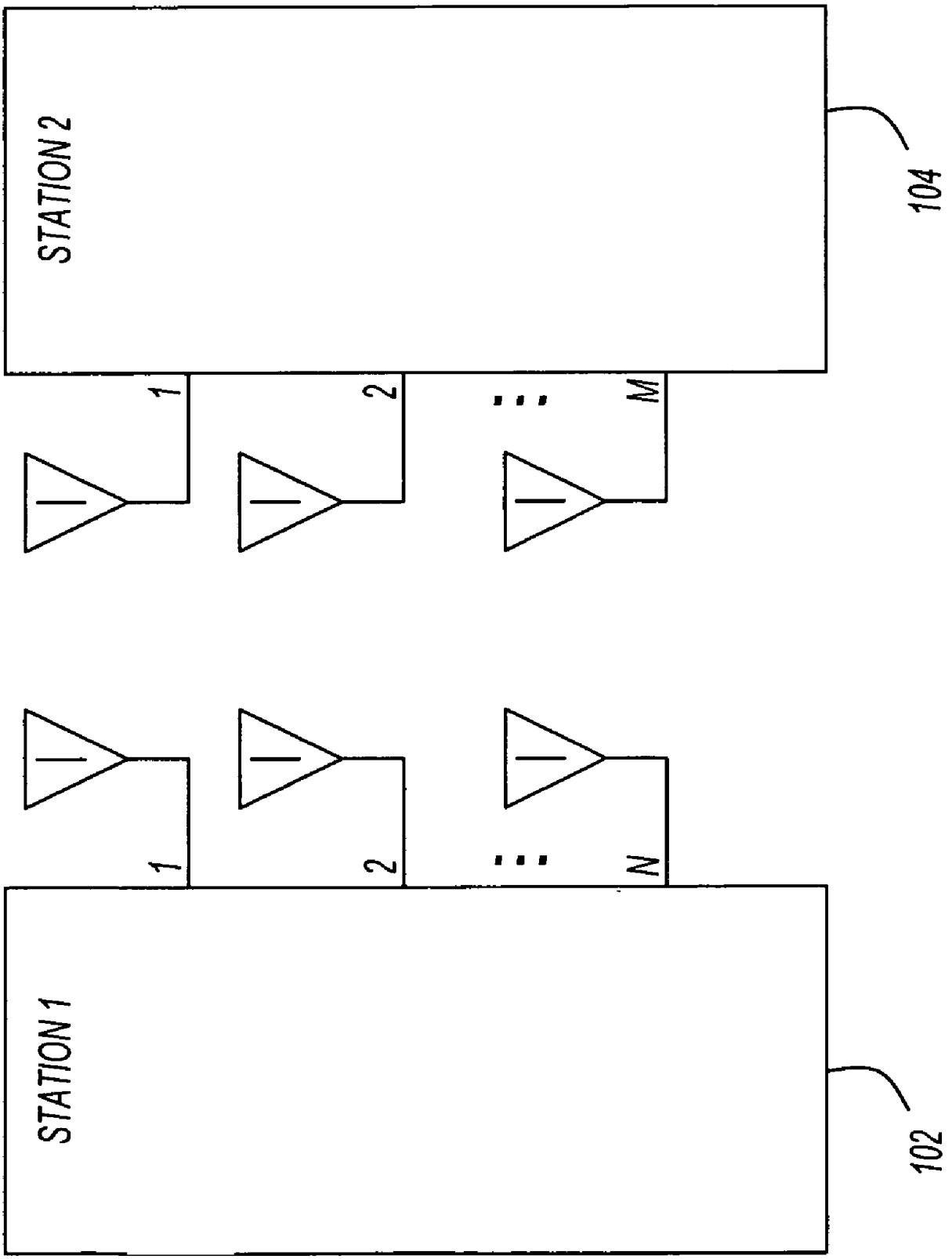
(57) **ABSTRACT**

Stations in an N×N multiple-input-multiple-wireless network always puncture the weak nel. A receiving station determines channel s for N spatial channels and feeds back to station channel state information for only N nels. The channel state information may inclu ing matrix to cause the transmitting station spatial channels.

13 Claims, 6 Drawing Sheet



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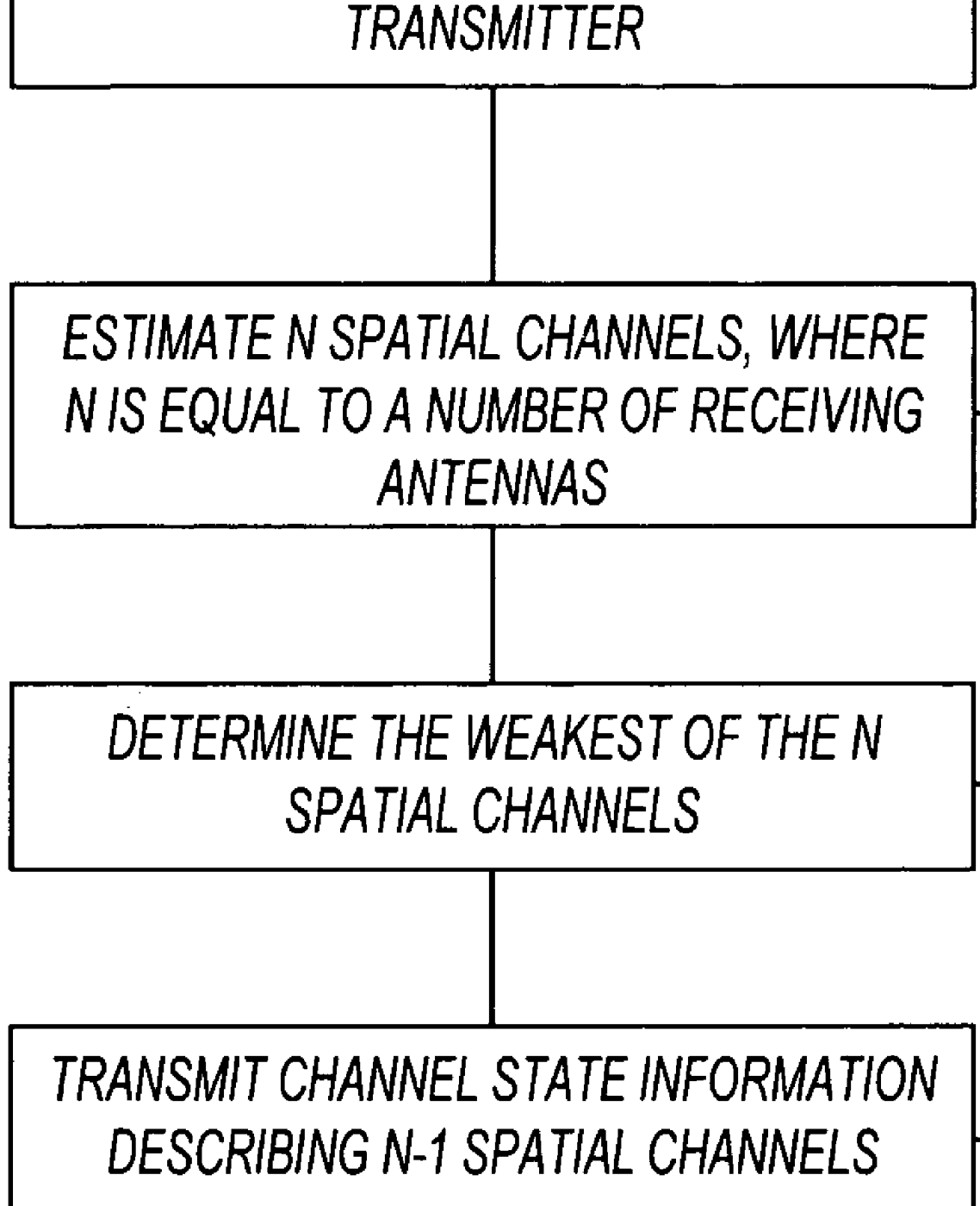


FIG. 2

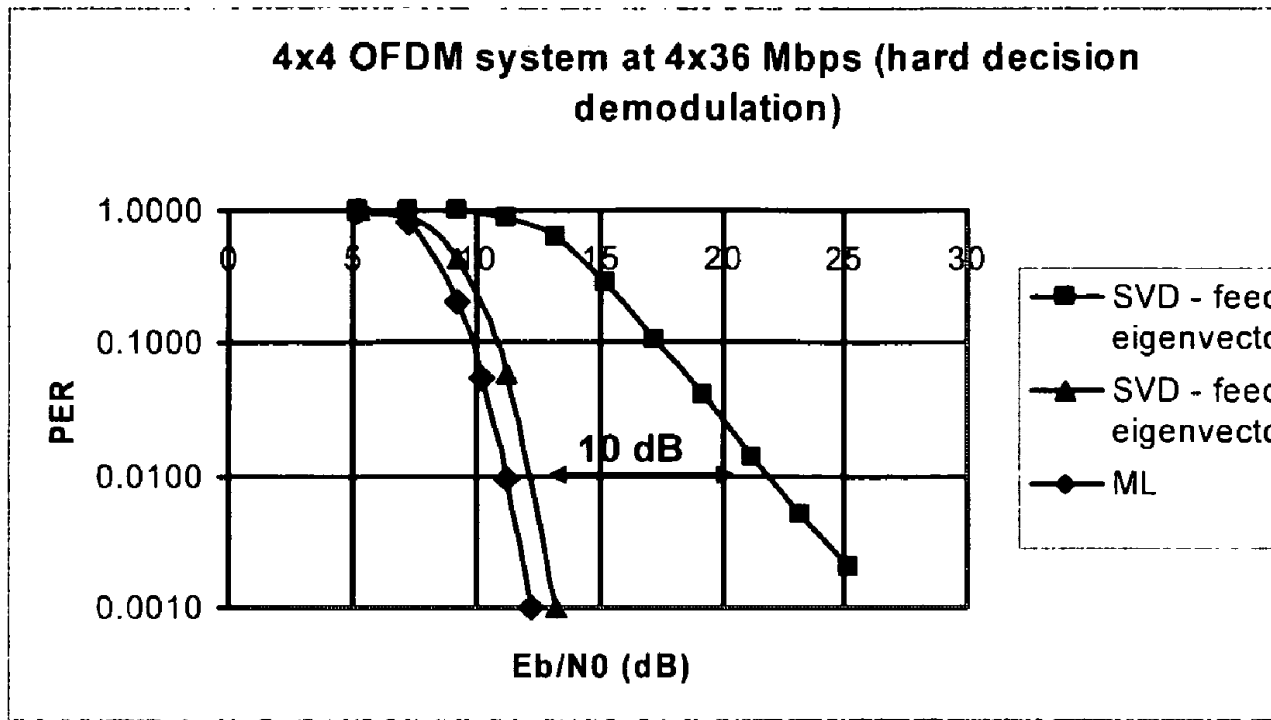


FIG. 3

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