

US007054664B2

(12) United States Patent

Nagaraj

(10) Patent No.: US 7,054,664 B2

(45) **Date of Patent:**

May 30, 2006

(54) METHOD AND APPARATUS FOR PROVIDING USER SPECIFIC DOWNLINK BEAMFORMING IN A FIXED BEAM NETWORK

- (75) Inventor: Shirish Nagaraj, Middletown, NJ (US)
- (73) Assignee: Lucent Technologies Inc., Murray Hill,

NJ (US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 256 days.

- (21) Appl. No.: 10/696,930
- (22) Filed: Oct. 30, 2003
- (65) **Prior Publication Data**

US 2005/0096090 A1 May 5, 2005

(51) **Int. Cl.**

H04Q 7/20 (2006.01)

See application file for complete search history.

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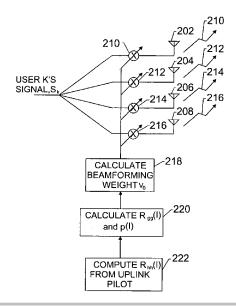
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Primary Examiner—William Trost Assistant Examiner—James D. Ewart

(57) ABSTRACT

The disclosed embodiments relate to a system and method for providing user specific beams in a fixed beam network, the fixed beam network comprising a plurality of fixed beams, each of the plurality of fixed beams being defined by a plurality of fixed beam correlation coefficients. The system may comprise a device that computes reception correlation data for a received signal, and a beamformer that is adapted to determine transmission weighting coefficients to be applied to a return signal based on the difference between the reception correlation data and the fixed beam weighting coefficients associated with at least one of the plurality of fixed beams.

19 Claims, 4 Drawing Sheets





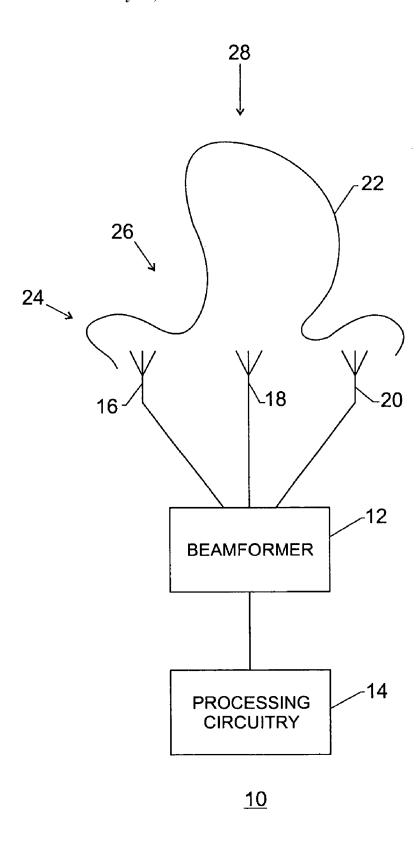
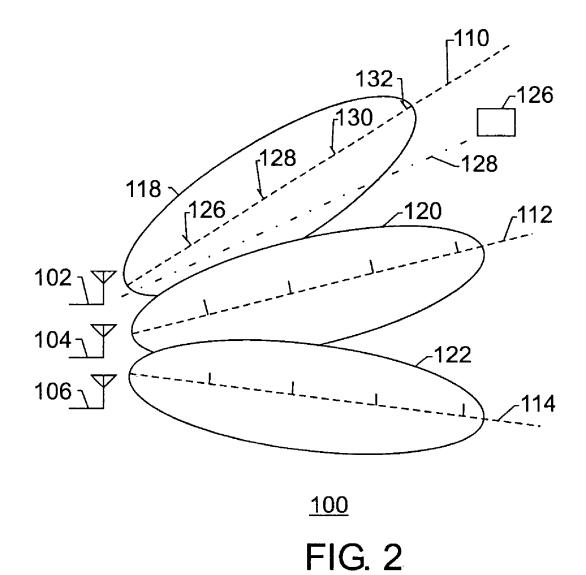


FIG. 1





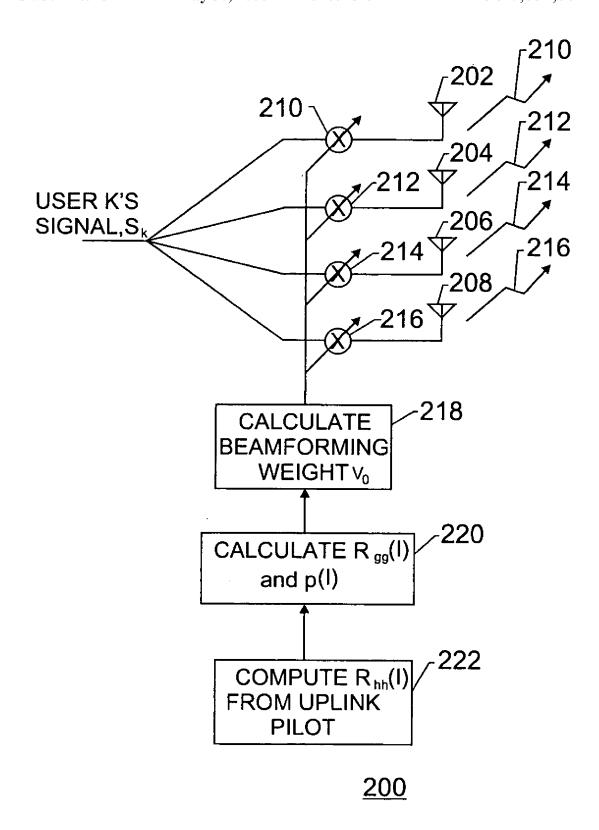
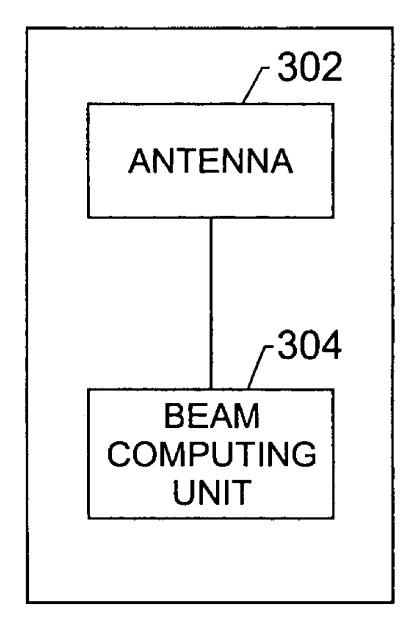


FIG 3





300

FIG. 4



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