



US 20050163081A1

(19) **United States**

(12) **Patent Application Publication**
Aoki et al.

(10) **Pub. No.: US 2005/0163081 A1**

(43) **Pub. Date: Jul. 28, 2005**

(54) **WIRELESS TRANSMITTING AND RECEIVING DEVICE AND METHOD**

(76) Inventors: **Tsuguhide Aoki**, Kawasaki-shi (JP);
Daisuke Takeda, Tokyo (JP); **Takahiro Kobayashi**, Kawasaki-shi (JP);
Yasuhiko Tanabe, Kawasaki-shi (JP)

Correspondence Address:
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
1940 DUKE STREET
ALEXANDRIA, VA 22314 (US)

(21) Appl. No.: **11/018,251**

(22) Filed: **Dec. 22, 2004**

(30) **Foreign Application Priority Data**

Dec. 26, 2003 (JP) 2003-433347
Dec. 9, 2004 (JP) 2004-357097

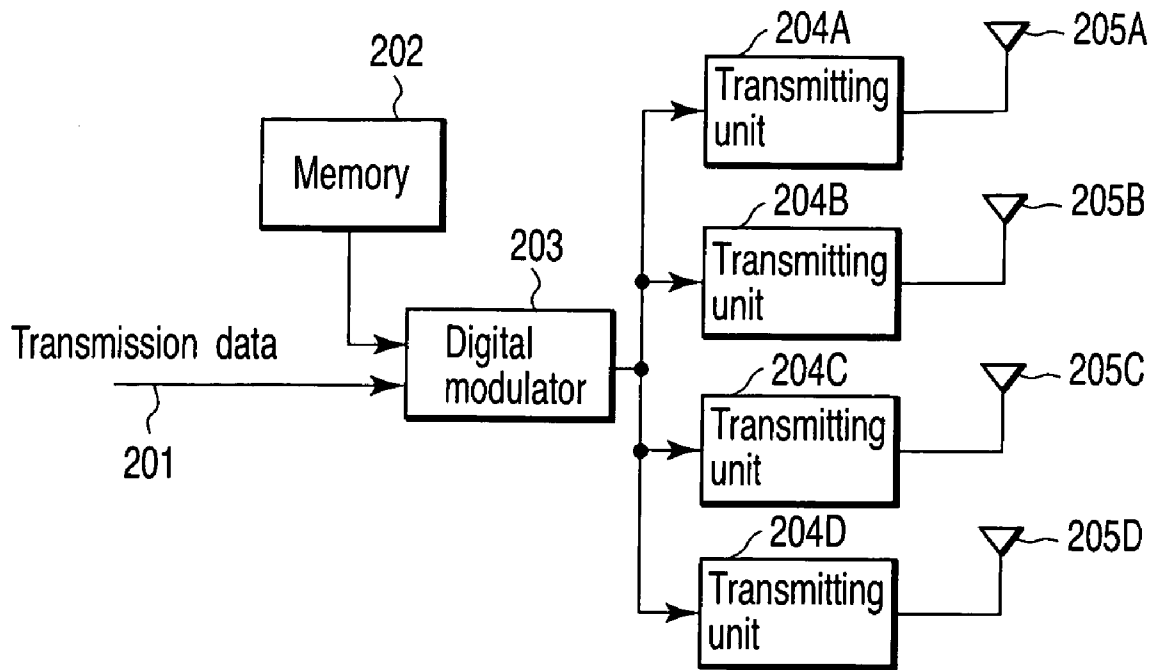
Publication Classification

(51) **Int. Cl.⁷ H04Q 7/00**

(52) **U.S. Cl. 370/334**

(57) **ABSTRACT**

A wireless device, method, and signal for use in communication of a wireless packet between transmitting device and a wireless receiving device via a plurality of antennas, wherein a signal generator generates wireless packet including a short-preamble sequence used for a first automatic gain control (AGC), a first long-preamble sequence, a signal field used for conveying a length of the wireless packet, an AGC preamble sequence used for a second AGC to be performed after the first AGC, a second long-preamble sequence, and a data field conveying data. The AGC preamble sequence is transmitted in parallel by the plurality of antennas.



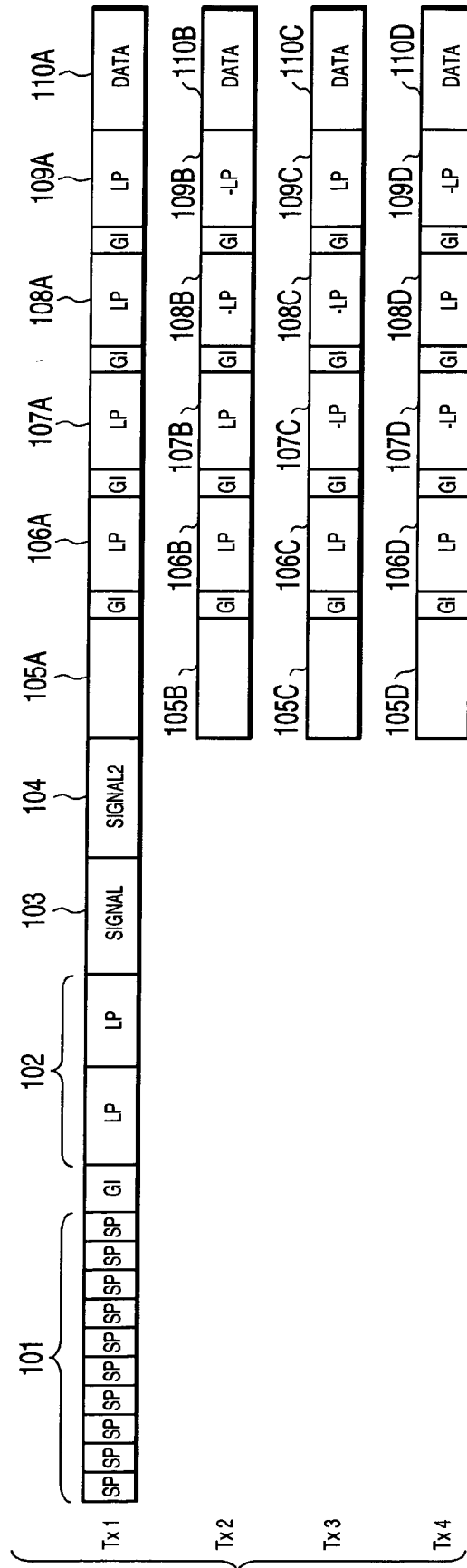


FIG. 1

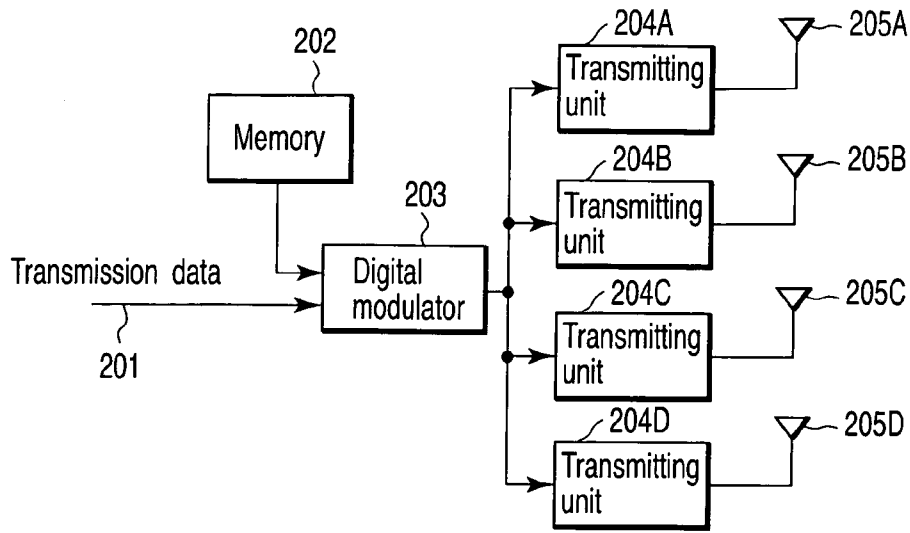


FIG. 2

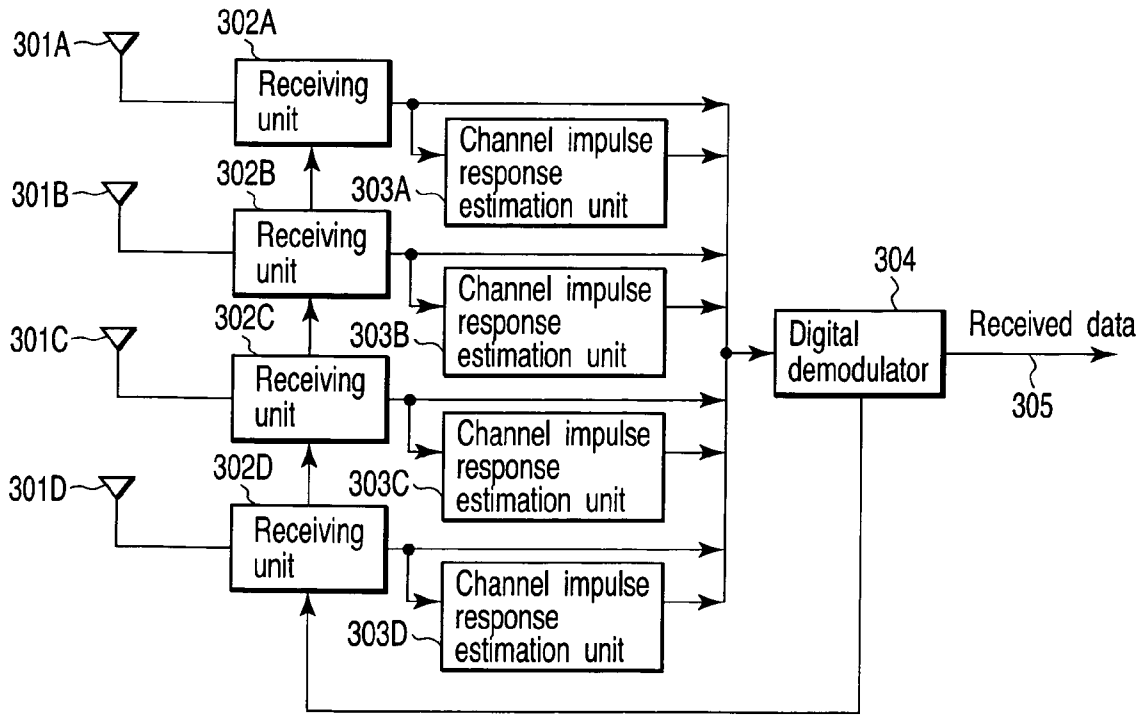


FIG. 3

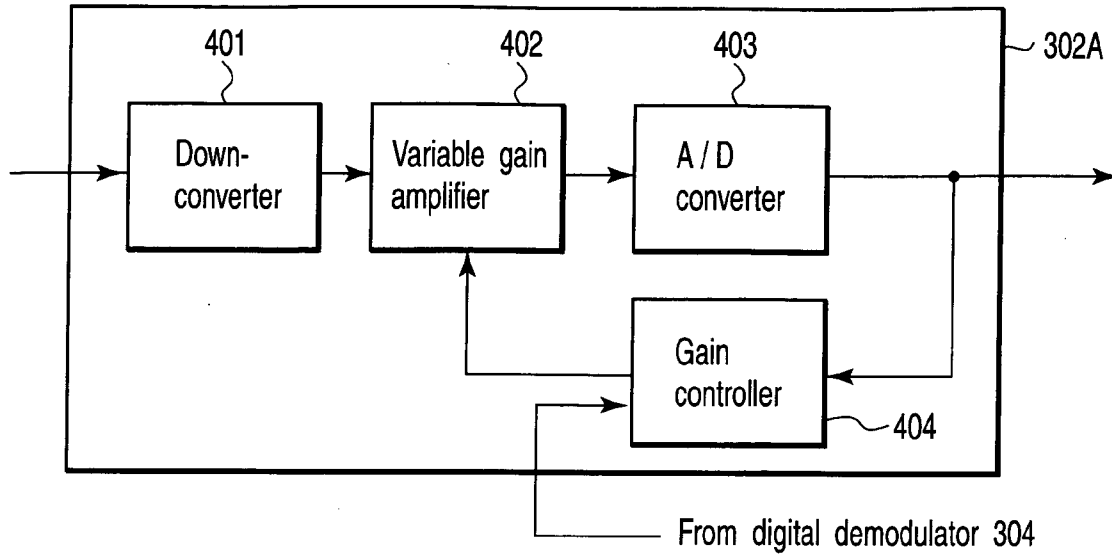


FIG. 4

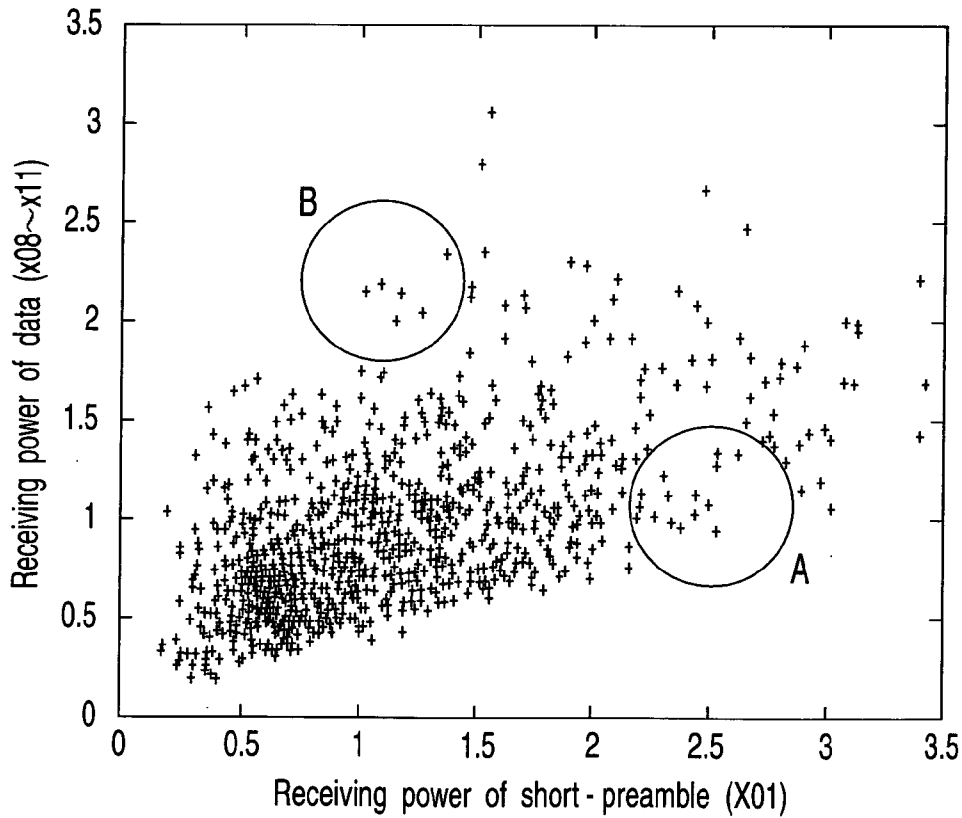


FIG. 5

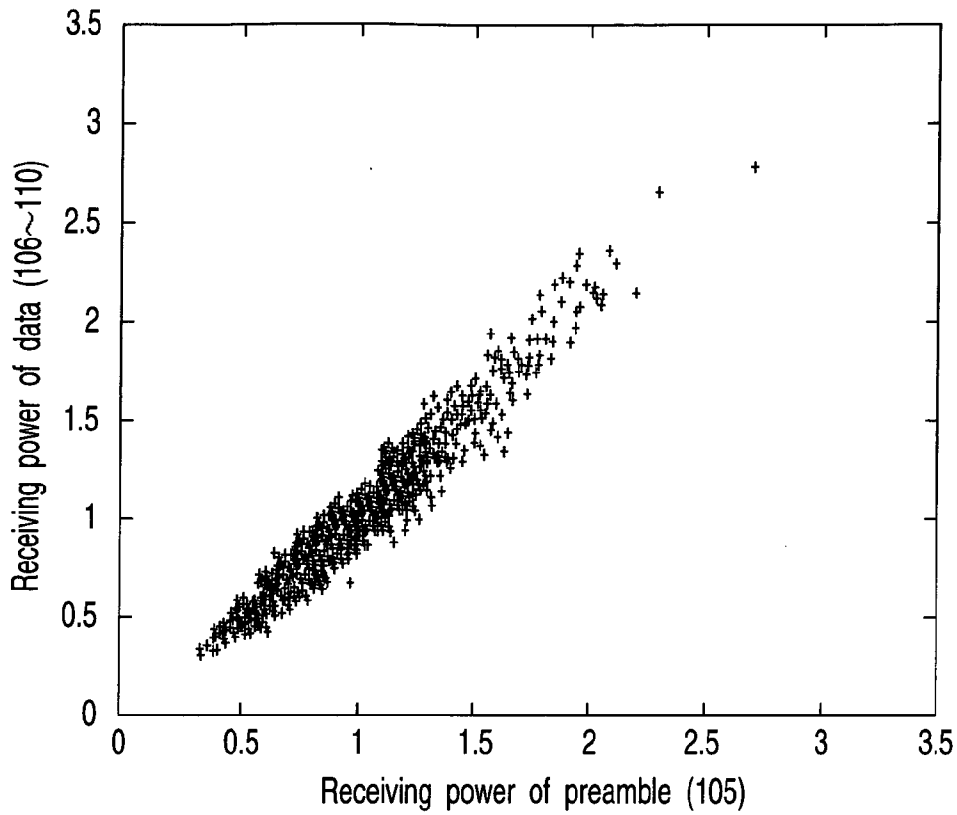


FIG. 6

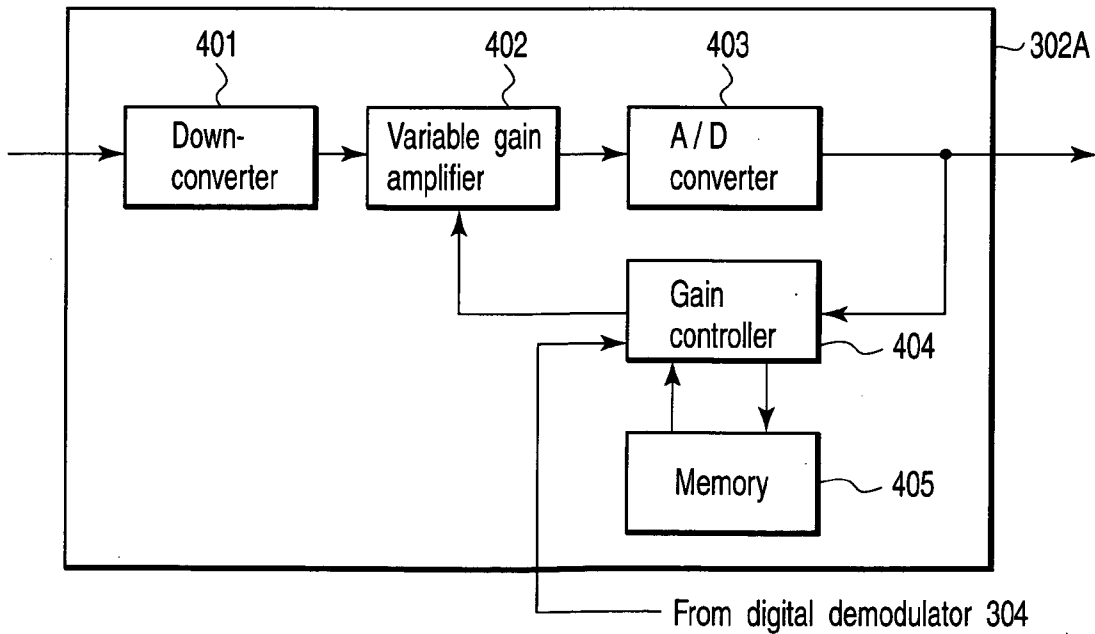


FIG. 7

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.