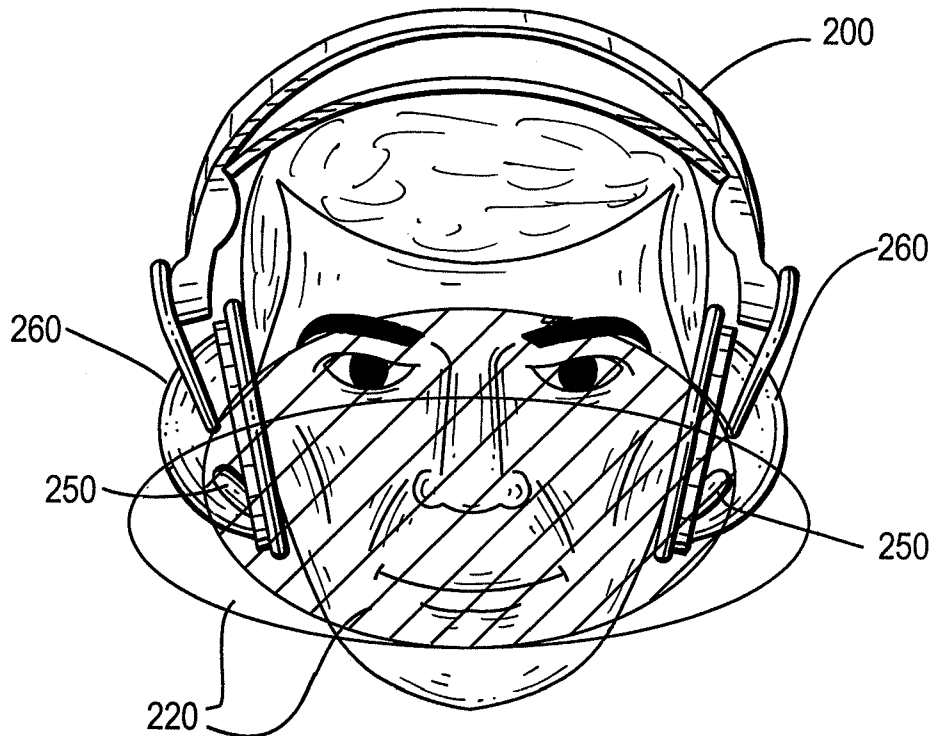




US 20090268931A1

(19) **United States**(12) **Patent Application Publication**
ANDREA et al.(10) **Pub. No.: US 2009/0268931 A1**(43) **Pub. Date: Oct. 29, 2009**(54) **HEADSET WITH INTEGRATED STEREO
ARRAY MICROPHONE****Publication Classification**(76) Inventors: **Douglas ANDREA**, Sag Harbor,
NY (US); **Qunsheng Liu**, Queens,
NY (US); **John Probst**, Hauppauge,
NY (US)(51) **Int. Cl.**
H04R 5/02 (2006.01)
H04B 15/00 (2006.01)(52) **U.S. Cl.** **381/311; 381/94.1; 381/309**Correspondence Address:
FROMMER LAWRENCE & HAUG
745 FIFTH AVENUE- 10TH FL.
NEW YORK, NY 10151 (US)(21) Appl. No.: **12/429,623**(22) Filed: **Apr. 24, 2009****Related U.S. Application Data**(60) Provisional application No. 61/048,142, filed on Apr.
25, 2008.(57) **ABSTRACT**

The invention relates to a noise canceling audio transmitting/receiving device; a stereo headset with an integrated array of microphones utilizing an adaptive beam forming algorithm. The invention also relates to a method of using an adaptive beam forming algorithm that may be incorporated into a stereo headset. The sensor array used herein has adaptive filtering capabilities.



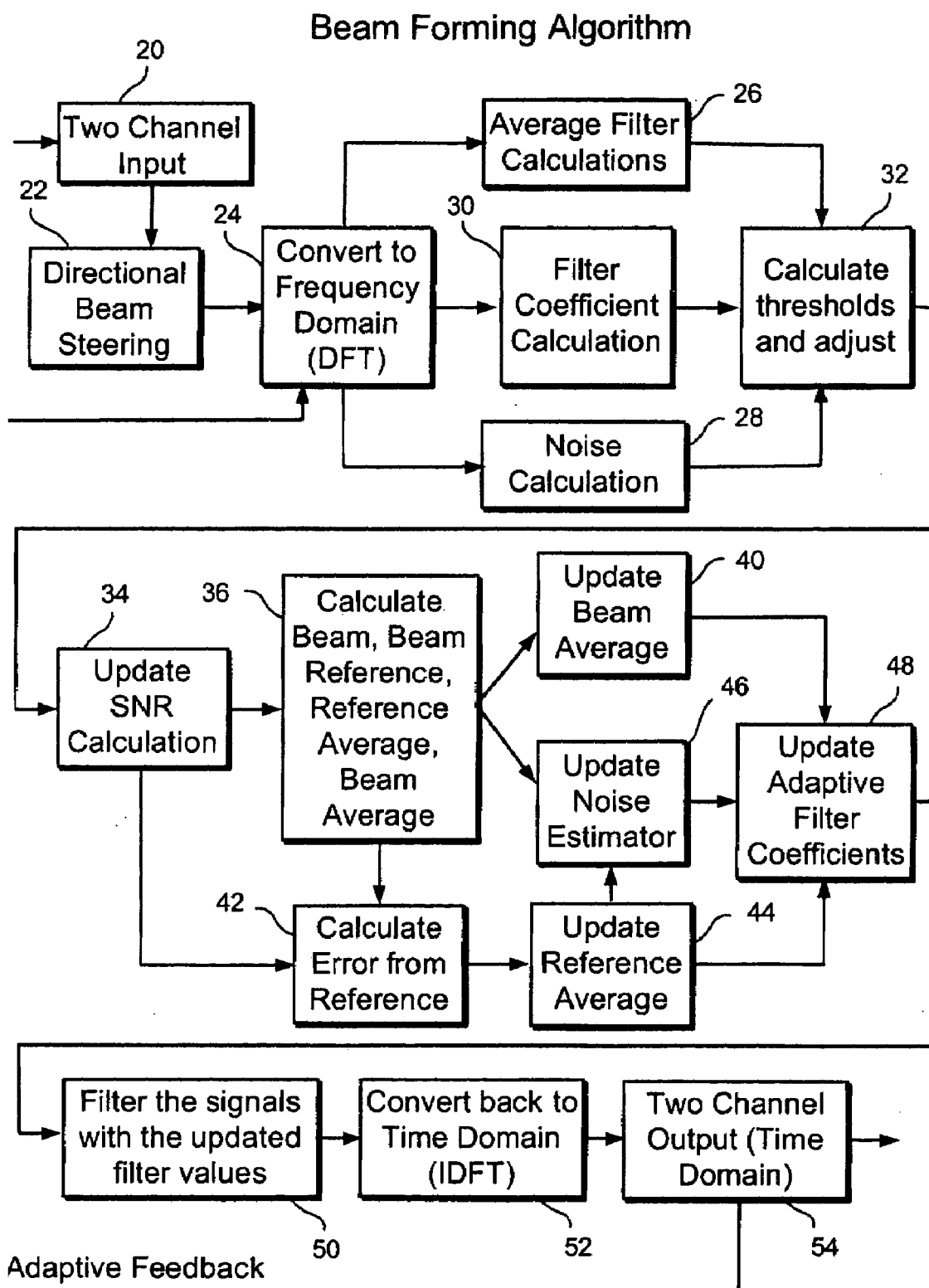


FIG. 1

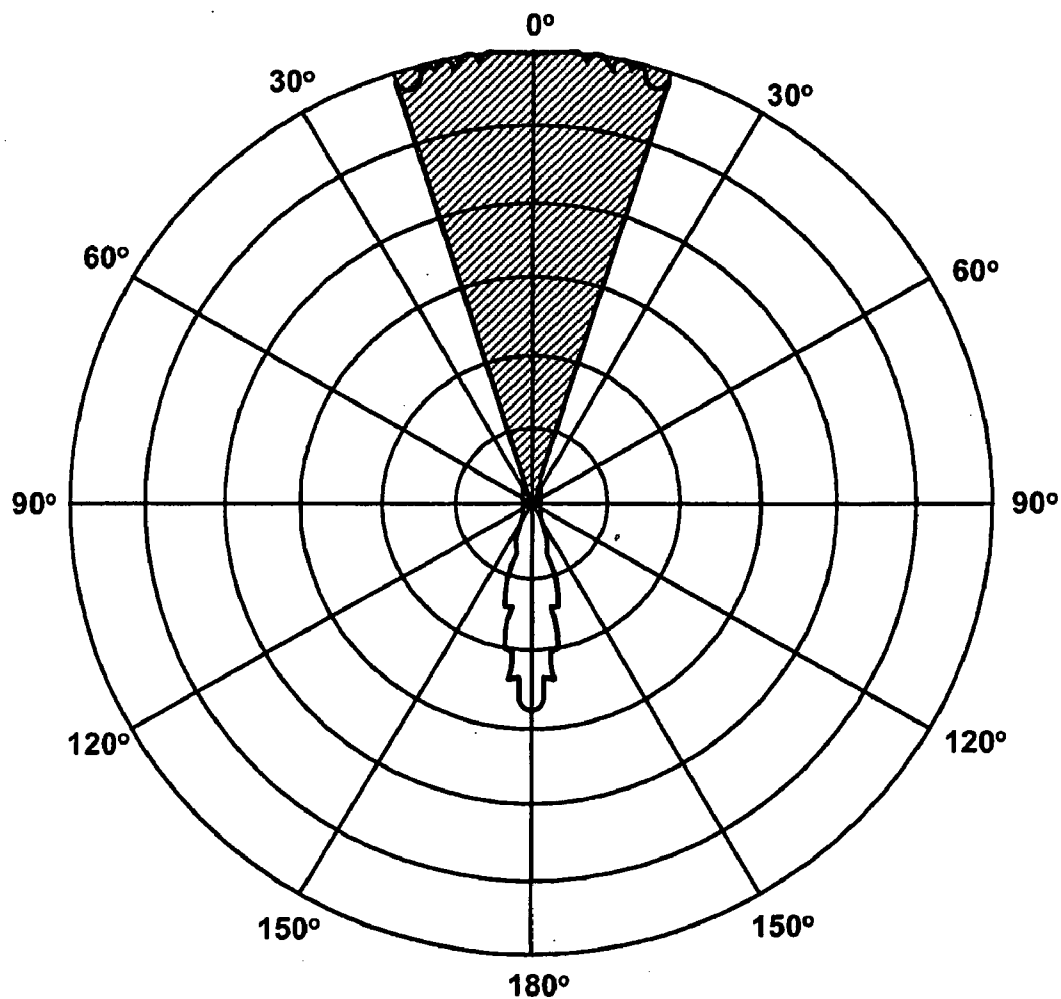


FIG. 2

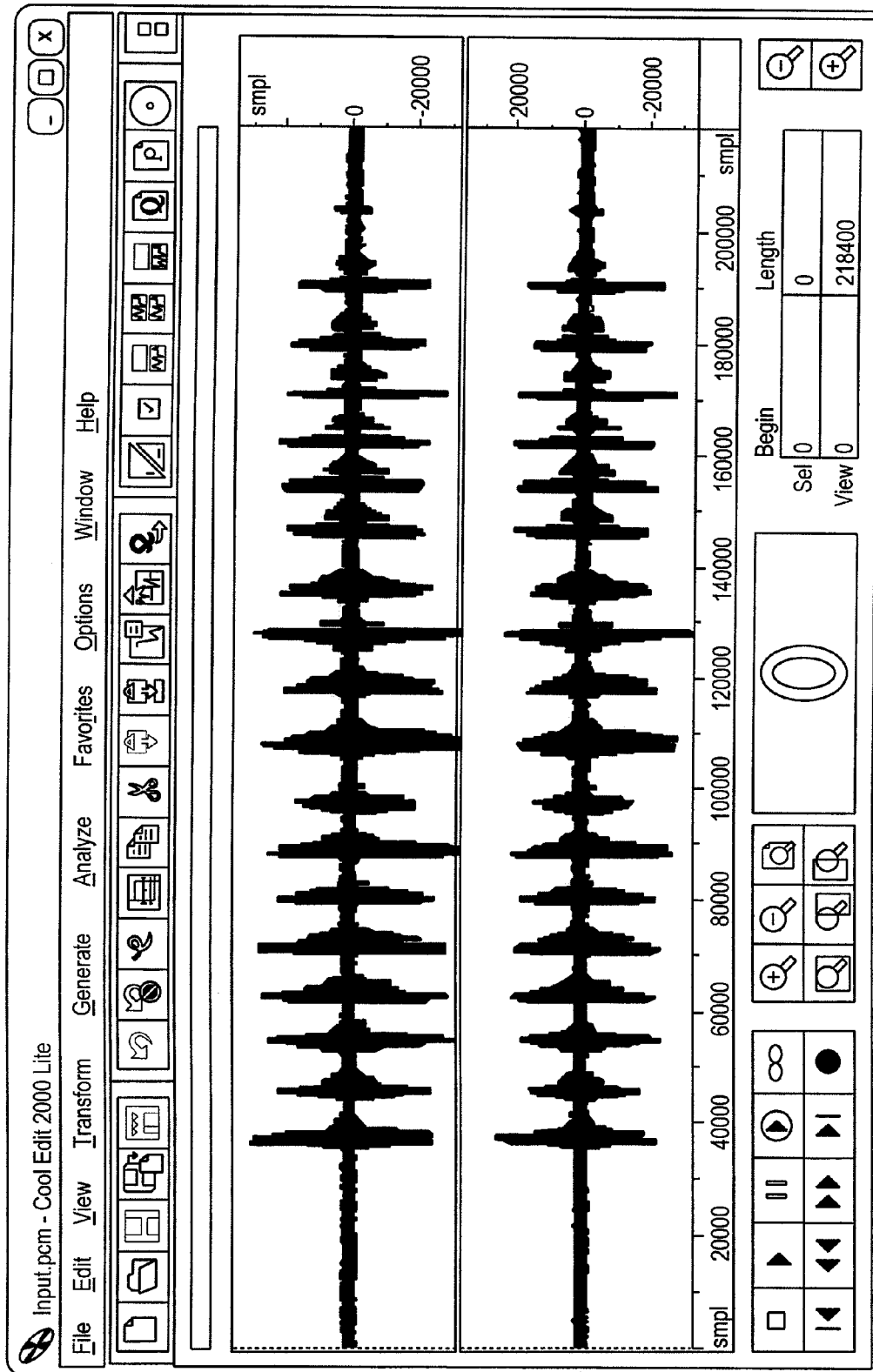


FIG. 3

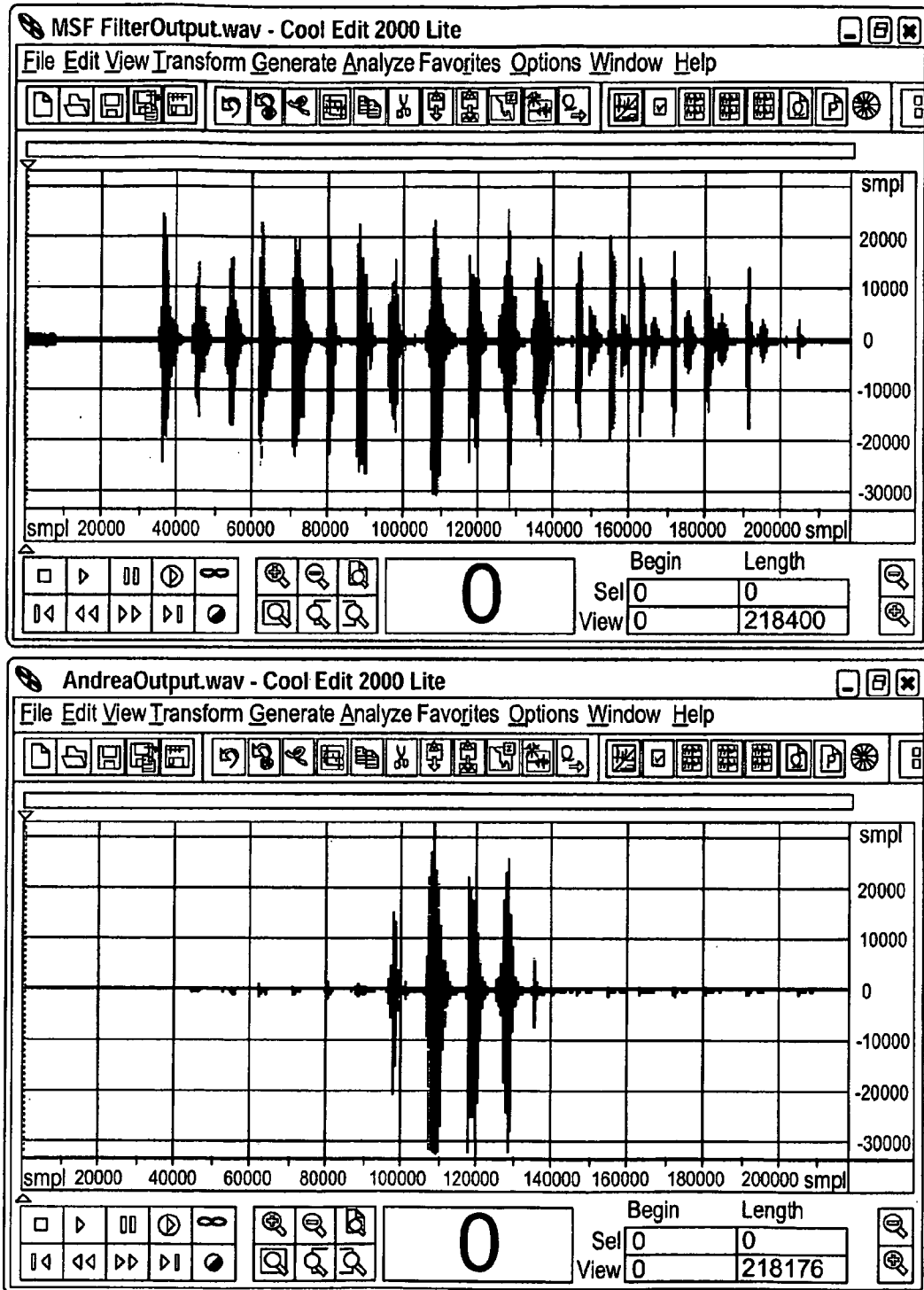


FIG. 4

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.