

[54] **METHOD AND APPARATUS FOR DETERMINING DRIVER FITNESS IN REAL TIME**

4,101,870	7/1978	Ekman	180/272
4,168,499	9/1979	Matsumura et al.	180/272
4,500,868	2/1985	Tokitsu et al.	340/439
4,804,937	2/1989	Barbiaux et al.	340/425.5
5,325,082	6/1994	Rodridquez	340/439

[75] Inventors: **Paul J. Bouchard**, San Diego; **Jerry D. Woll**, Poway; **Bryan D. Woll**, Laguna Niguel; **Jimmie R. Asbury**, San Diego, all of Calif.

Primary Examiner—Glen Swann
Attorney, Agent, or Firm—Baker, Maxham, Jester & Meador

[73] Assignee: **Vorad Safety Systems, Inc.**, San Diego, Calif.

[21] Appl. No.: **106,407**

[22] Filed: **Aug. 13, 1993**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 930,066, Aug. 14, 1992, Pat. No. 5,302,956, and a continuation-in-part of Ser. No. 930,158, Aug. 14, 1992, abandoned.

[51] Int. Cl.⁶ **G08B 21/00**

[52] U.S. Cl. **340/576; 180/272; 340/425.5; 340/439**

[58] Field of Search **340/576, 439, 340/425.5; 180/272**

[57] **ABSTRACT**

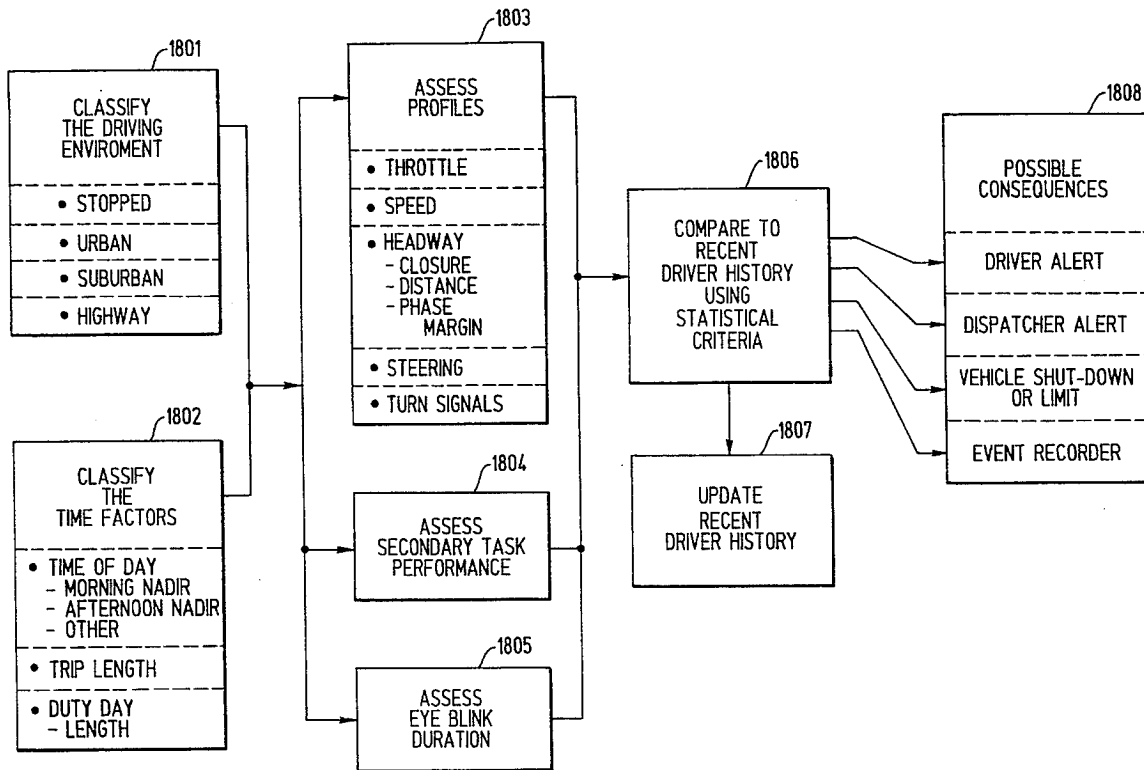
A method and apparatus for evaluating a driver's performance under actual real-time conditions and for using such evaluations to determine the driver's ability to safely operate a vehicle compares the information gathered by a radar system and other sensors with information previously stored in an event recording device. Conditions monitored are used to make a determination as to whether the driver is performing in conformity with normal driving standards and the driver's own past performance. The driver's performance is constantly monitored and compared to that driver's past performance to determine whether the driver's present performance is impaired, and if so, whether the impairment is detrimental to the driver's ability to safely operate the vehicle.

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,005,398 1/1977 Inoue et al. 340/576

7 Claims, 18 Drawing Sheets



**Liberty Mutual
Exhibit 1022**

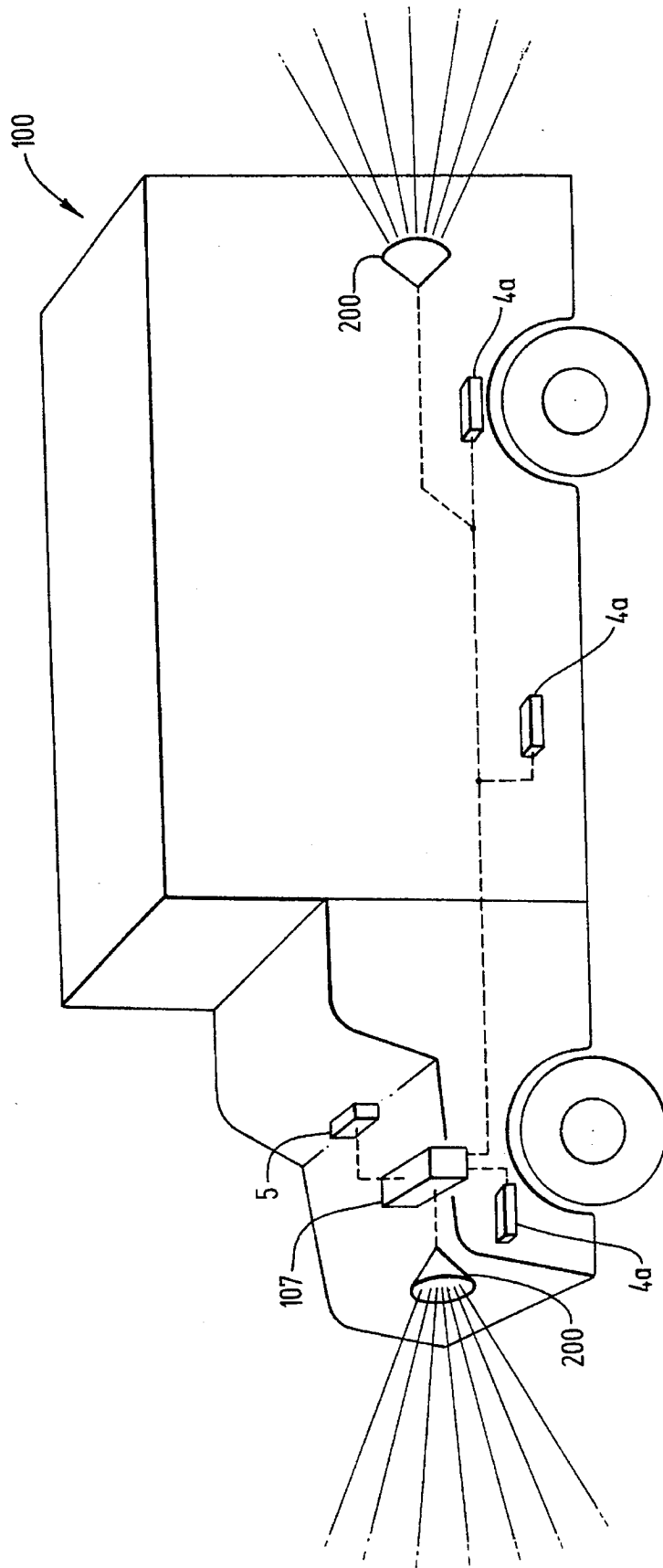


FIG. 1

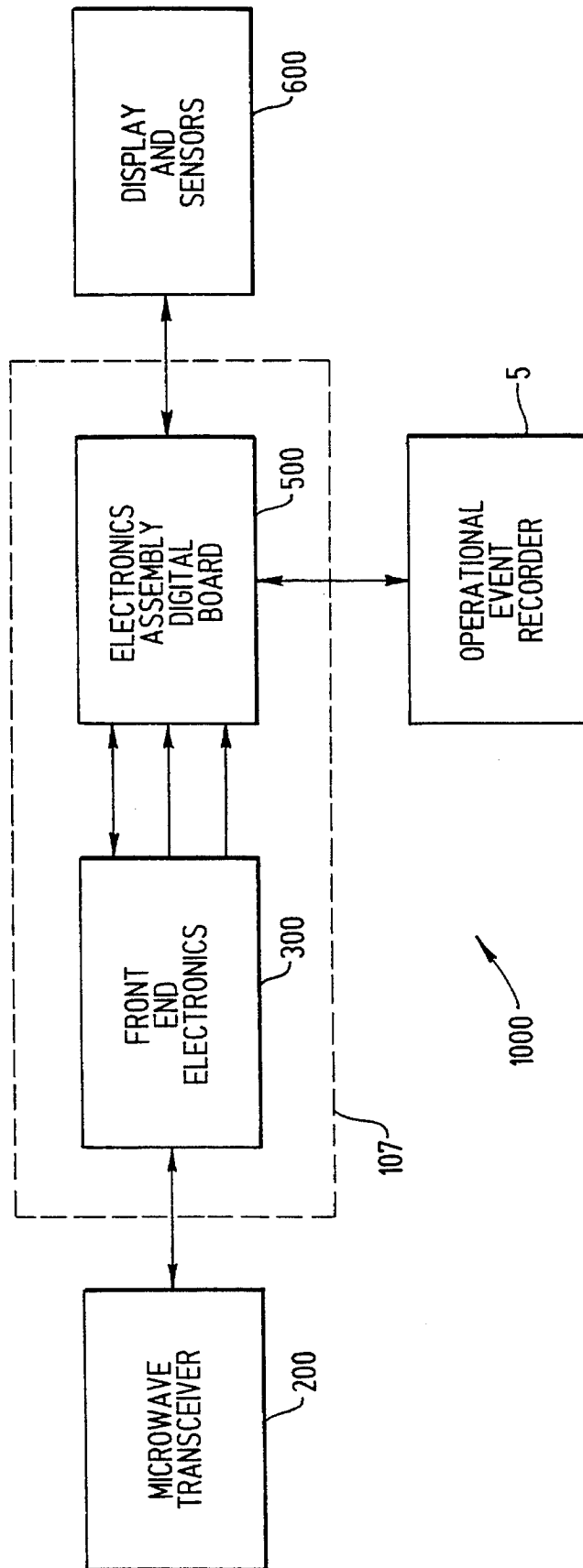


FIG. 2

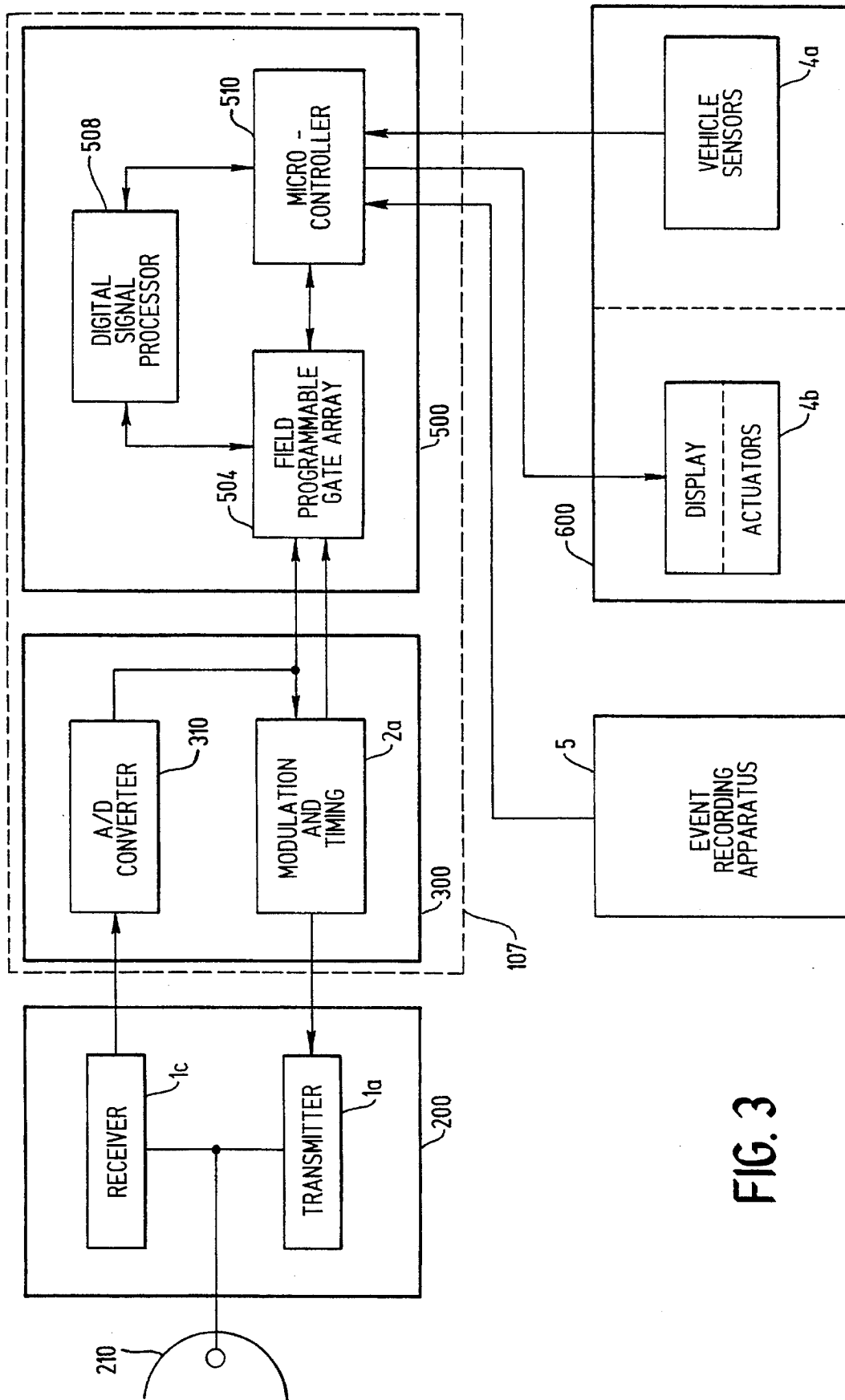


FIG. 3

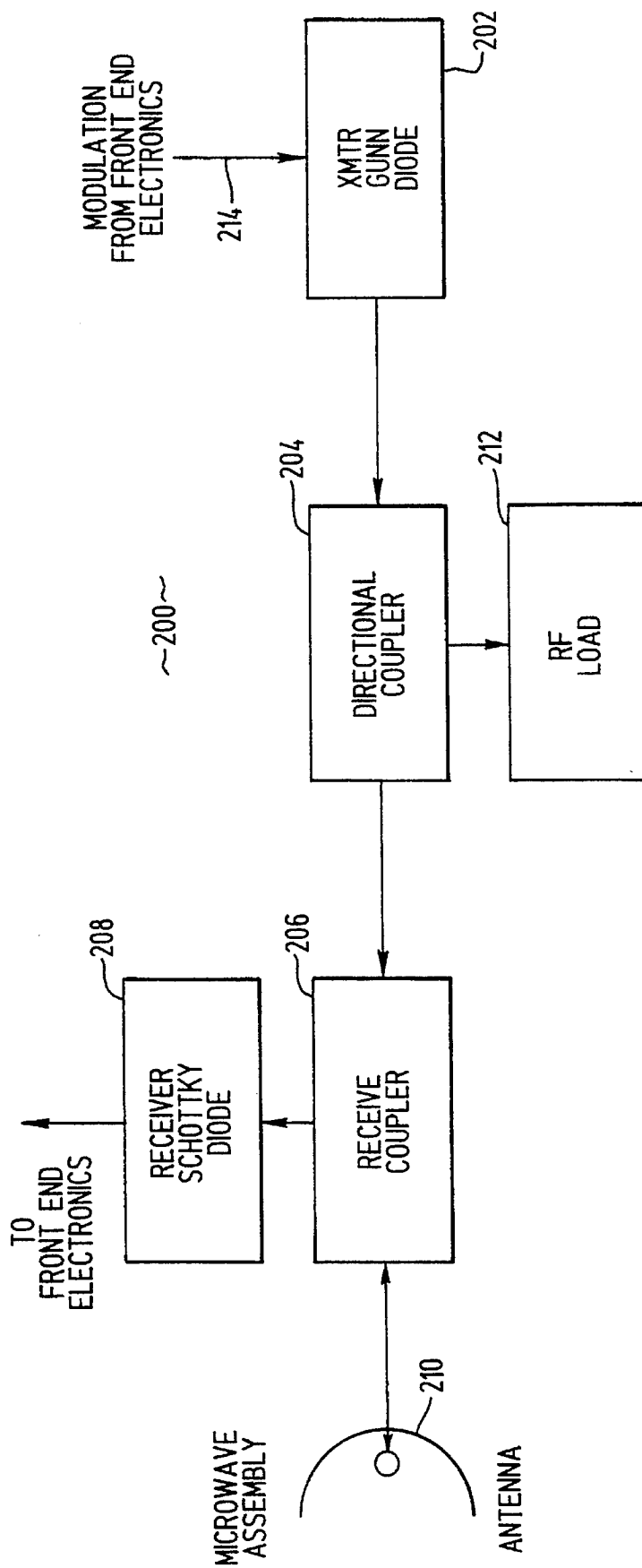


FIG. 4

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.