

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2004/0104842 A1**

Drury et al. (43) **Pub. Date: Jun. 3, 2004**

(54) **DRIVER INFORMATION SYSTEM**

Publication Classification

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(51) **Int. Cl.⁷** **G01C 21/30**
 (52) **U.S. Cl.** **342/357.13; 701/208**

(57) **ABSTRACT**

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An information system for providing services including traffic and navigation services, as well as other information services to a driver. One versions of the system makes use of existing components of a wireless telephone system, for example, by using the input and output capabilities of a telephone handset. Another version is a portable system that includes multiple switches for initiating access to a remote server in one of a number of operating modes. For instance the system has switches for initiating traffic information, roadside assistance, personal information, or emergency modes. The system includes a positioning system for generating position data related to a geographic location of the system, and a wireless communication device. The system also includes an audio output device, such as a speaker for presenting the received information. The system can also include a storage for a unique identification of the information system. This identification is passed to the remote server through the wireless communication device. Another version of the system provides both autonomous and client-server based navigation services in which a removable database supports route planning in a limited area and a remote server supports route planning outside that area.

(73) Assignee: **Siemens VDO Automotive Corporation, a Delaware corporation**

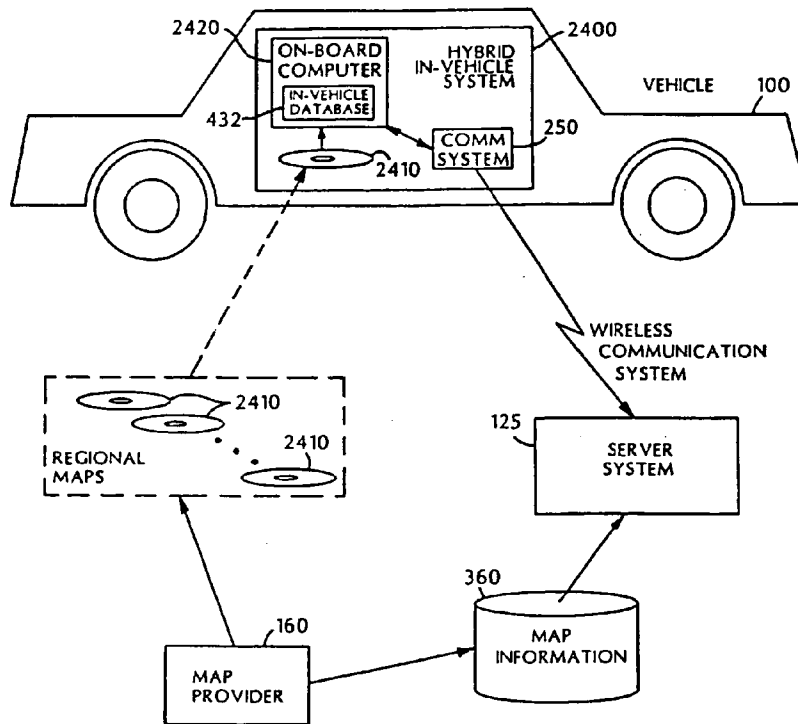
(21) Appl. No.: **10/706,456**

(22) Filed: **Nov. 12, 2003**

Related U.S. Application Data

(63) Continuation of application No. 09/252,432, filed on Feb. 18, 1999, now Pat. No. 6,707,421, and which is a continuation-in-part of application No. 09/136,868, filed on Aug. 19, 1998, now Pat. No. 6,680,694.

(60) Provisional application No. 60/104,275, filed on Oct. 14, 1998. Provisional application No. 60/056,150, filed on Aug. 19, 1997.



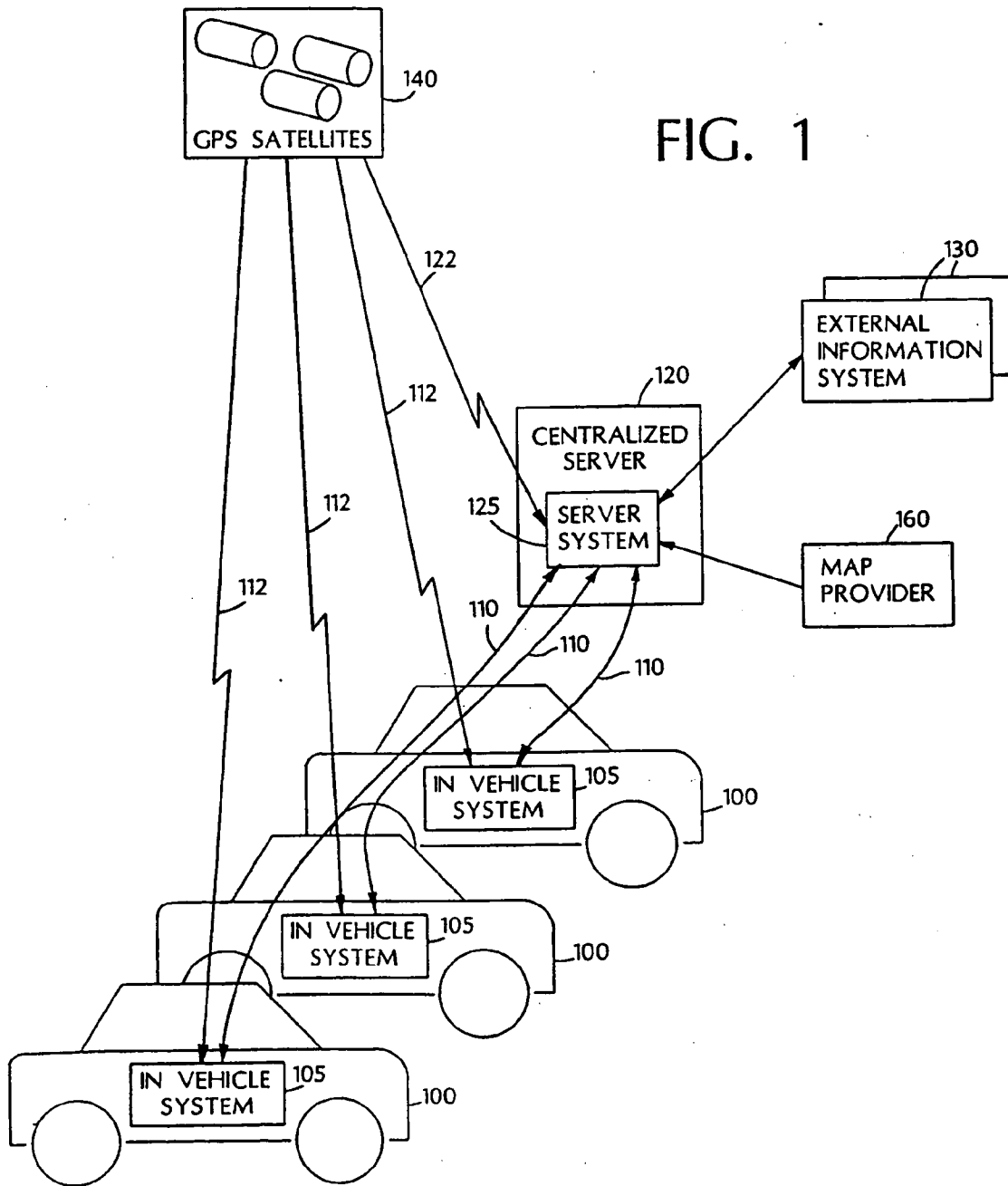


FIG. 1

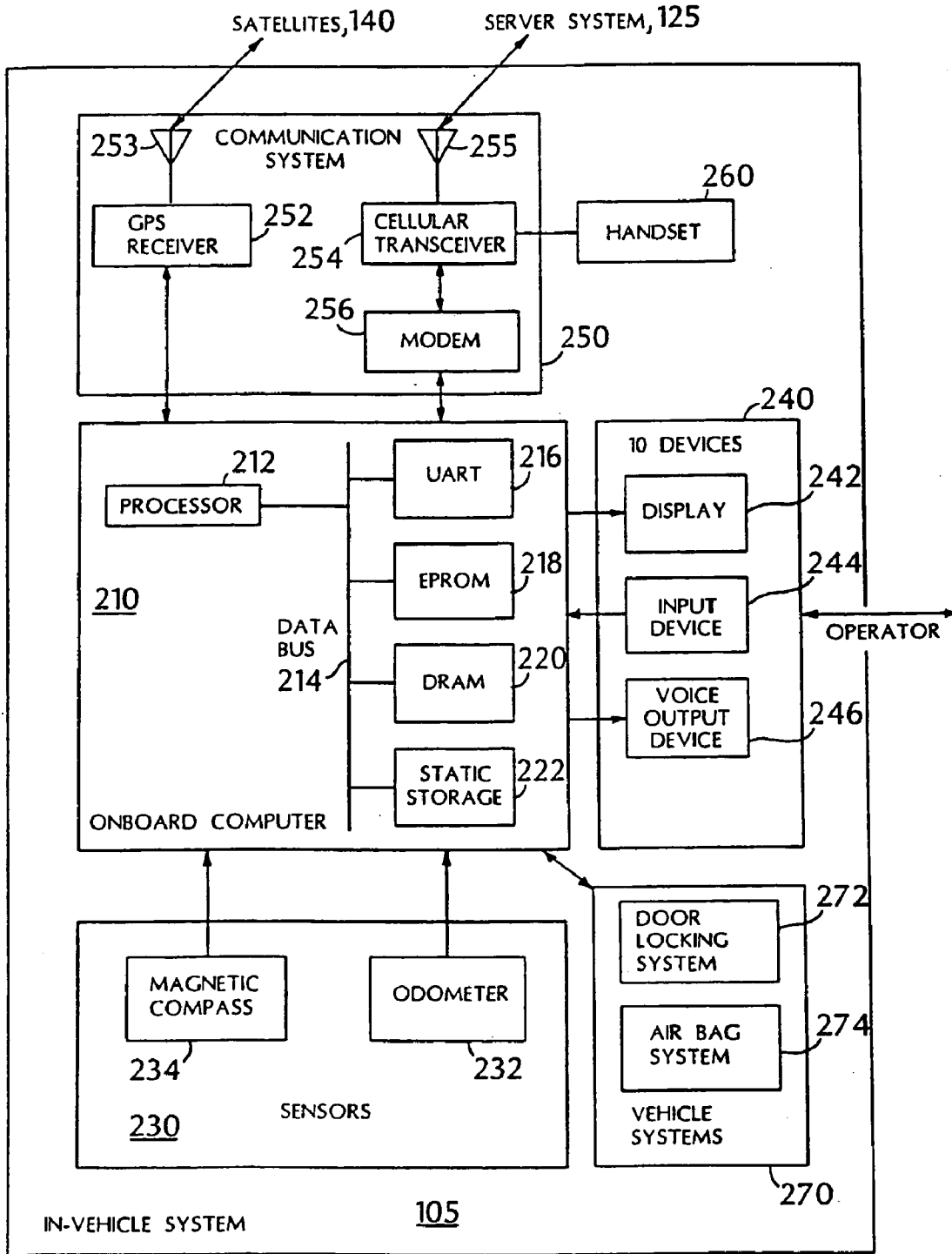


FIG. 2

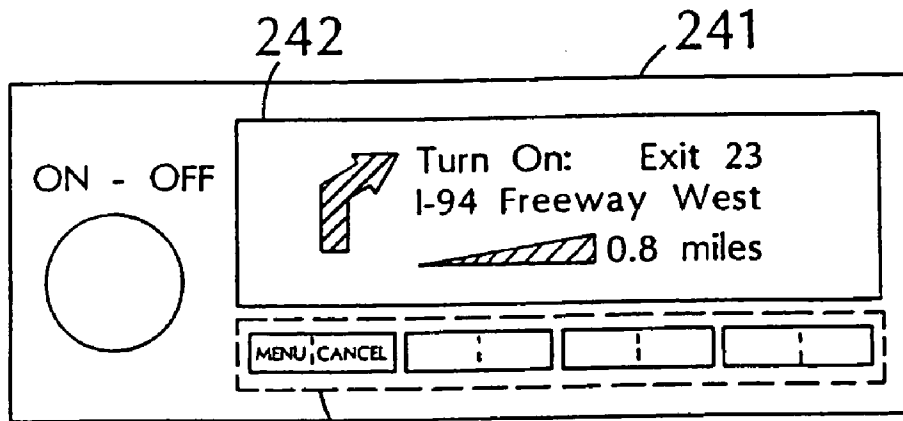


FIG. 2A 244

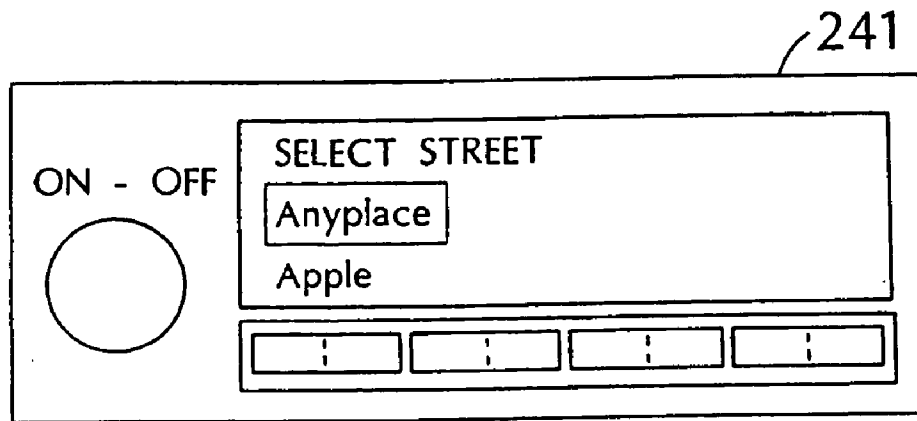


FIG. 2B

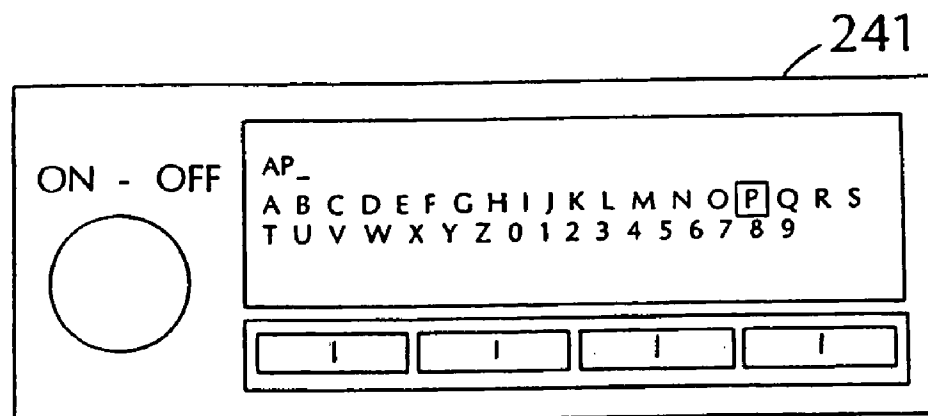


FIG. 2C

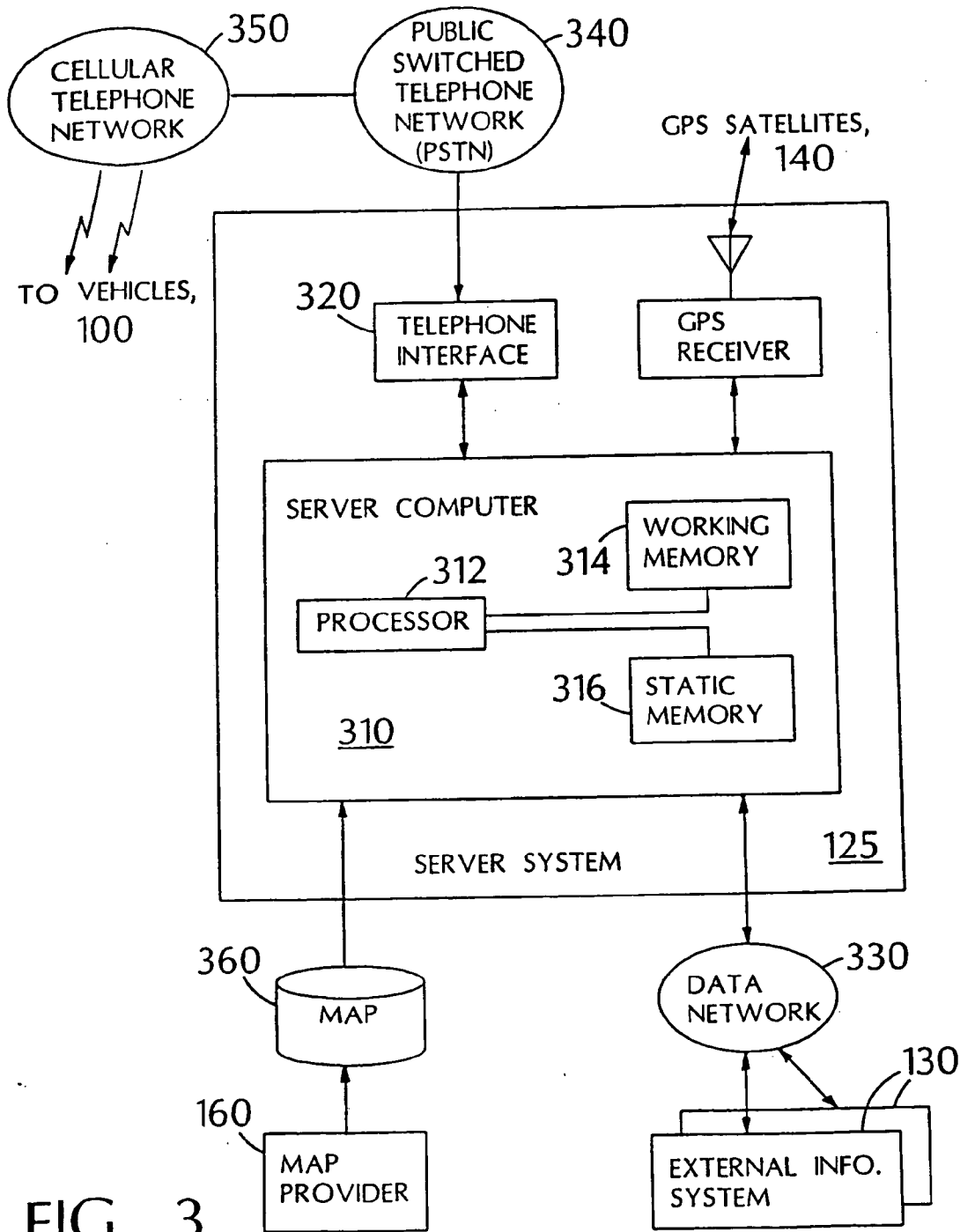


FIG. 3

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