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United States Patent [19] Lepkofker

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[54] INDIVIDUAL LOCATION SYSTEM

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abandoned.

[51] Int. Cl.⁶ **G08B 23/00**

[52] U.S. Cl. **340/573; 128/690; 340/407.1;**
340/539; 340/574; 342/357; 342/419; 342/450;
379/38; 395/900; 455/88; 455/38.4; 455/404;
455/521

[58] Field of Search **340/573, 574,**
340/539, 407.1, 825.08; 455/100, 88-90,
53.1, 54.1; 128/690, 689, 687; 342/42,
44, 350, 352, 357, 450, 451, 458; 395/900;
379/37, 38

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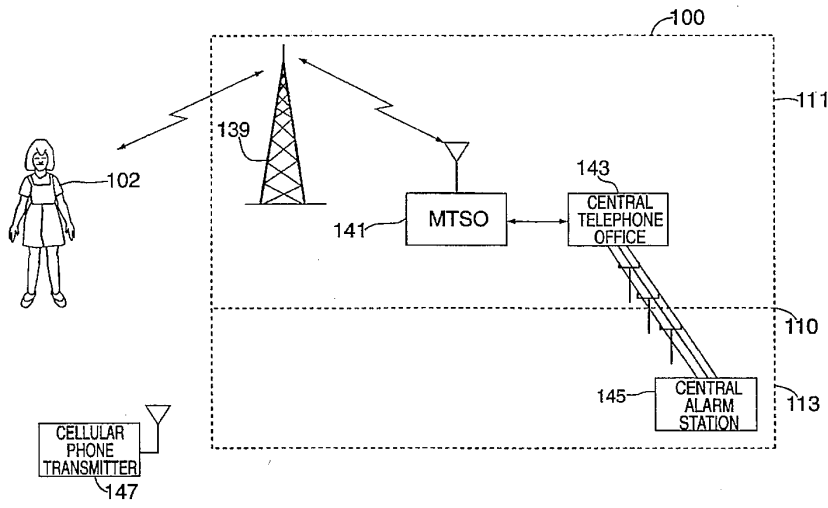
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[57] ABSTRACT

An interactive individual location and monitoring system includes a central monitoring system for maintaining health, location, and other data with respect to an individual. A watch unit carried by the individual receives medical and other information selected by and inputted directly from the individual. The watch unit broadcasts the medical and other information locally by radio in a region near the individual. A belt worn pod unit is worn by the individual, including a transponder for receiving the information from the watch unit. The pod unit transmits the information to the central monitoring system. The pod unit tracks the location of the individual and transmits the location to the central monitoring system. The pod unit includes a triaxial accelerometer for gathering acceleration data for transmission of the data to the central monitoring station for analysis at a later time. The central monitoring system broadcasts alerts and queries directed to the individual and the transponder pod unit receives and rebroadcasts the alerts and queries locally. The watch unit receives the alerts and queries, and the watch unit includes a vibratory annunciator which alerts the individual of an inquiry signal from the pod unit.

19 Claims, 16 Drawing Sheets



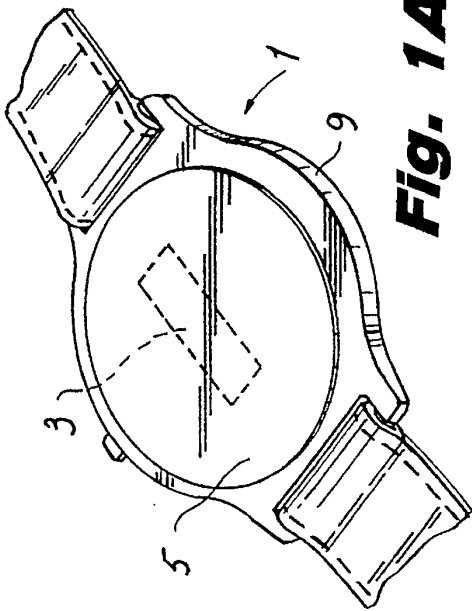


Fig. 1A

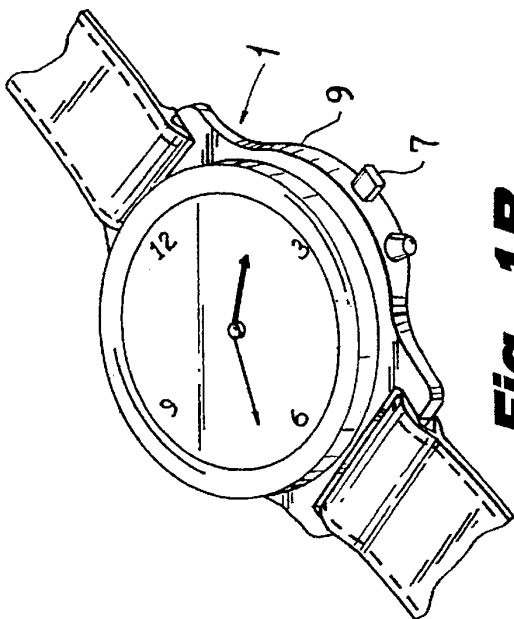


Fig. 1B

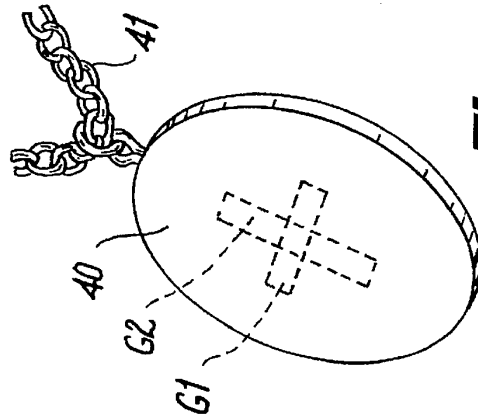


Fig. 1D

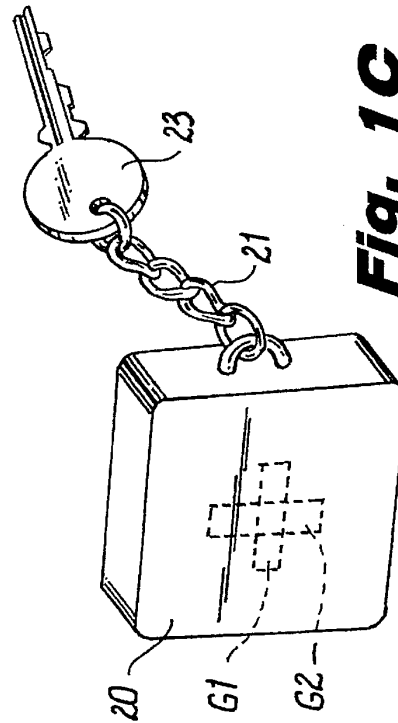


Fig. 1C

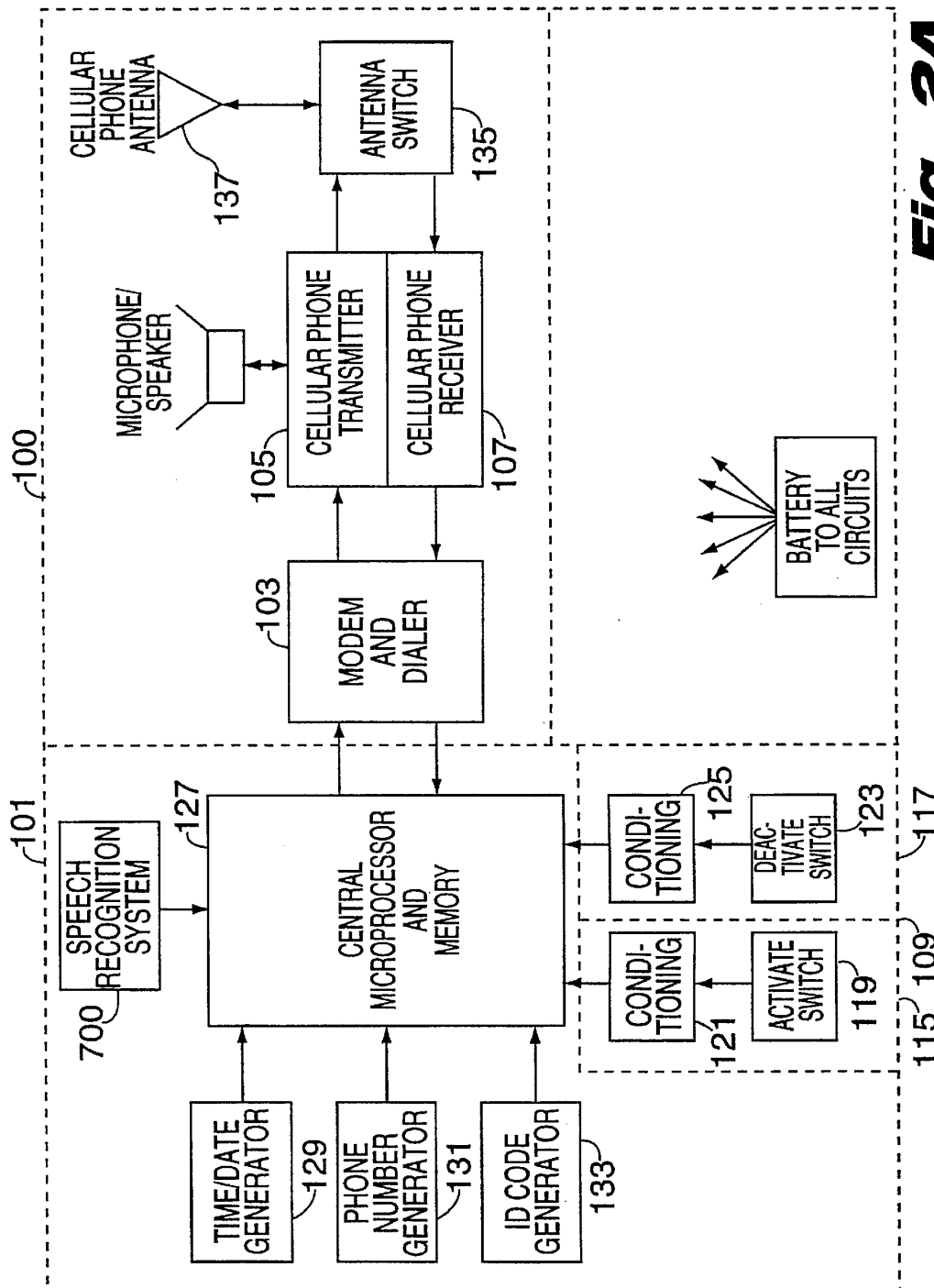


Fig. 2A

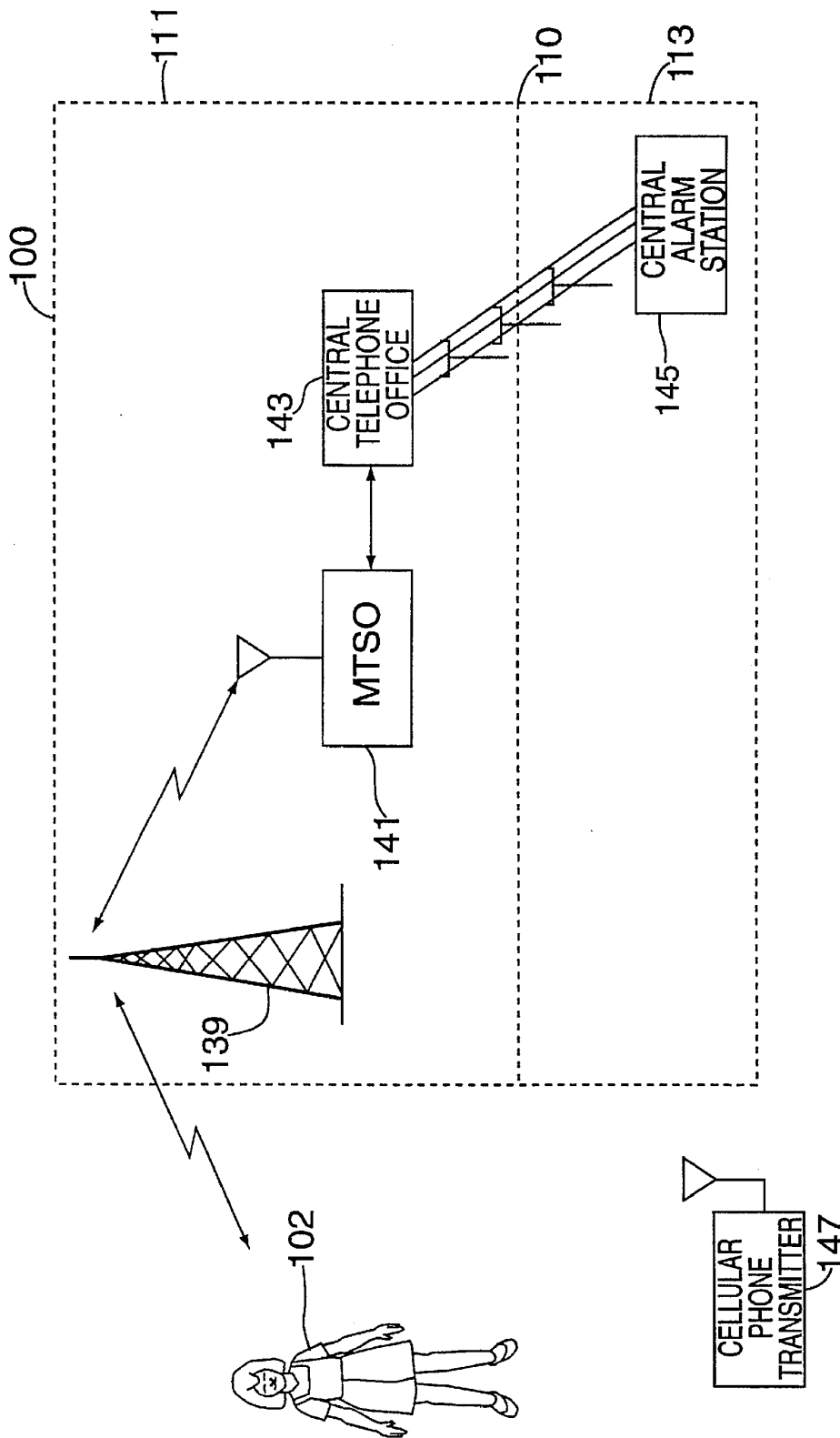


Fig. 2B

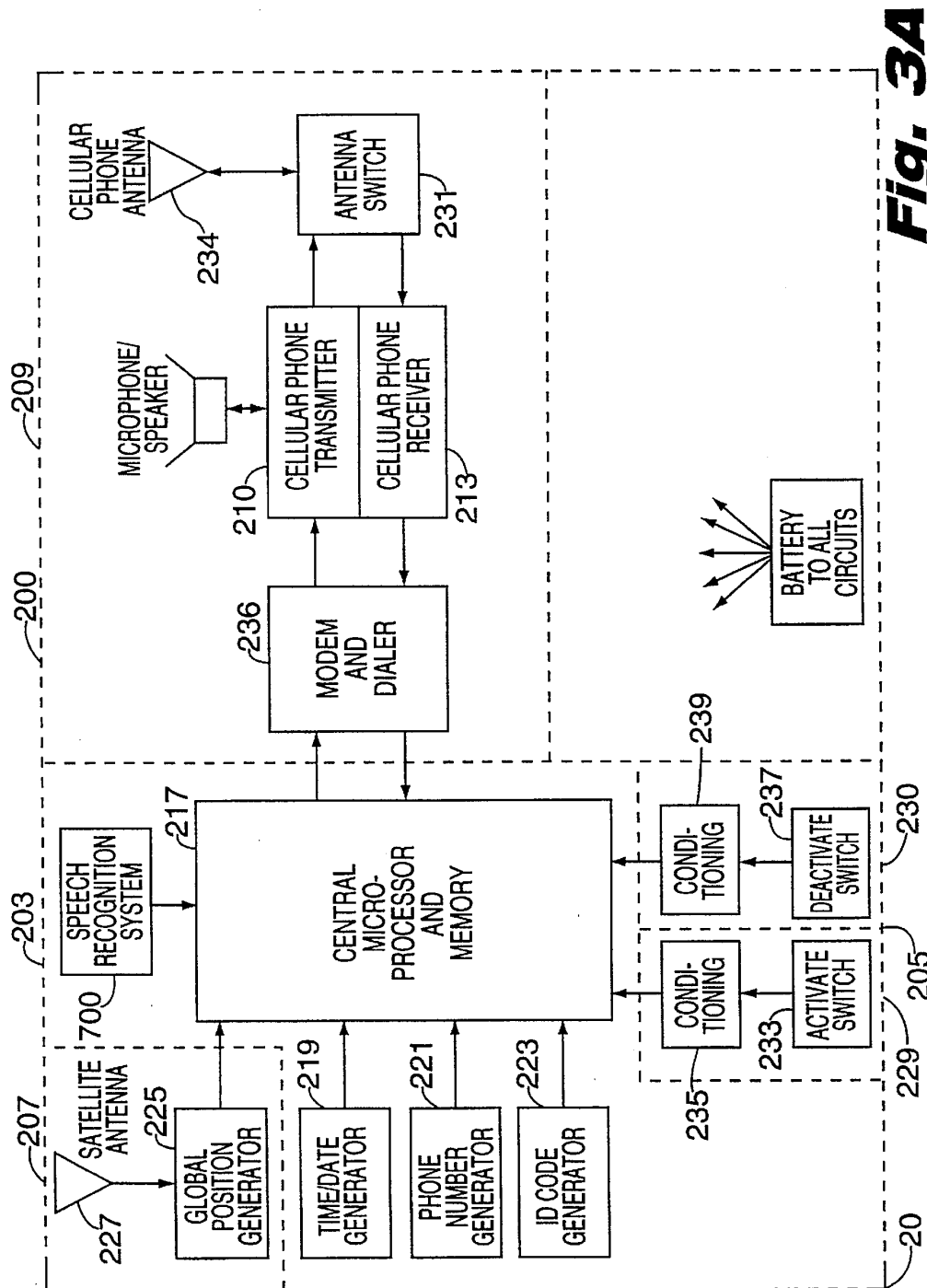


Fig. 3A

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