

[11] **Patent Number:** 6,127,945

[45] **Date of Patent:** Oct. 3, 2000

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[21] Appl. No.: **08/544,553**  
[22] Filed: **Oct. 18, 1995**

[57] **ABSTRACT**

- [51] **Int. Cl.**<sup>7</sup> ..... **G08G 1/123**
- [52] **U.S. Cl.** ..... **340/988; 340/539; 342/457;**  
701/300
- [58] **Field of Search** ..... 340/988, 989,  
340/990, 995, 539, 573; 342/457; 364/449.2,  
449.3, 449.5, 449.7; 701/207, 208, 209,  
211, 213, 215, 300

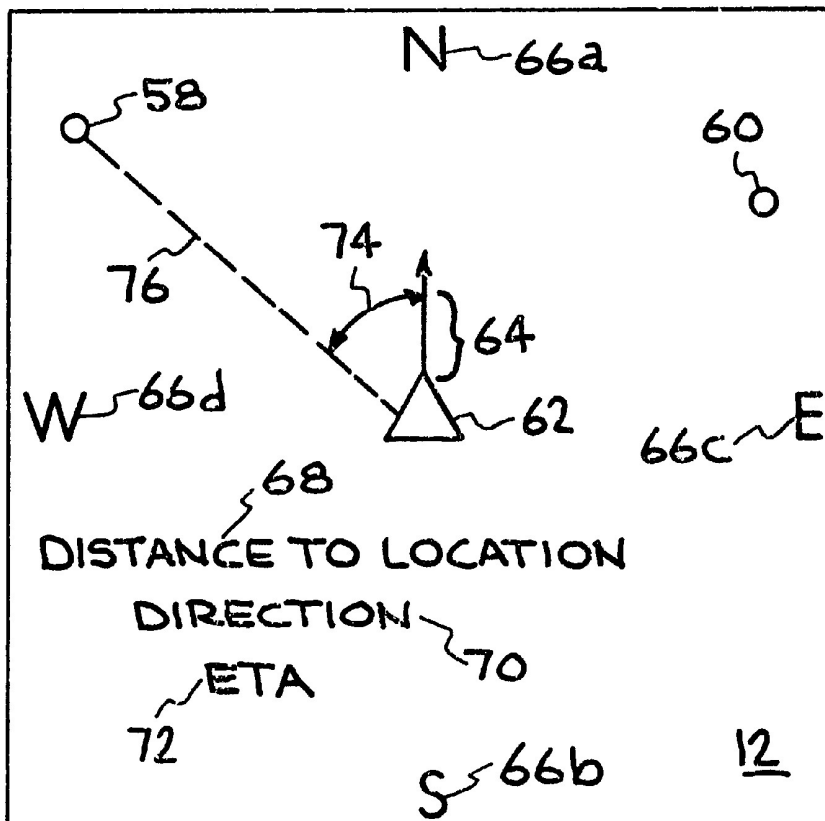
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A personal navigation device and method for providing location information. In one embodiment, the present invention is comprised of a portable hand-held unit. The portable unit contains a communication system adapted to receive data at and transmit data from the portable unit. The portable unit also contains a position determining system which determines the geographic location of the portable unit. The position determining system is connected to the communication system. A graphic display located on the portable unit is also connected to the position determining system. The graphic display displays a representation of the current location of the portable unit with respect to a previously selected location. In one embodiment, the representation of the current location also includes a representation of the speed and the heading of the portable unit with respect to the previously selected location.

**1 Claim, 5 Drawing Sheets**



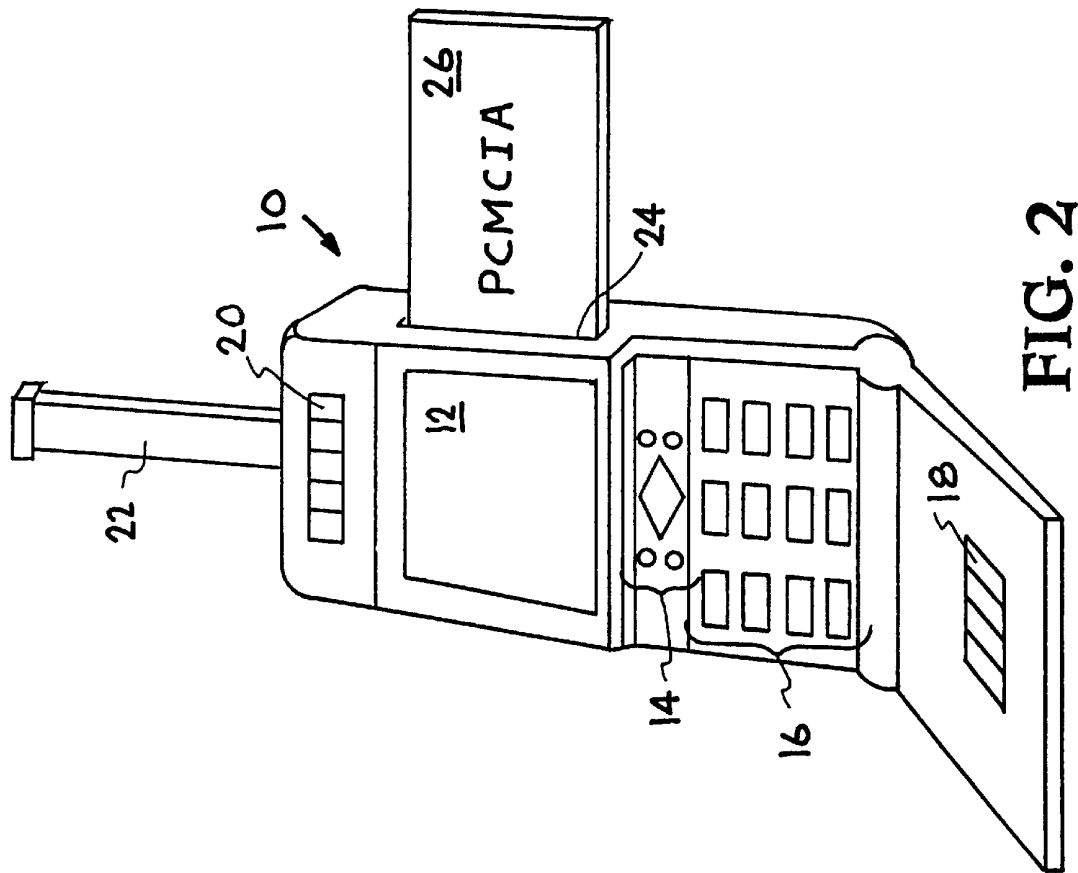


FIG. 2

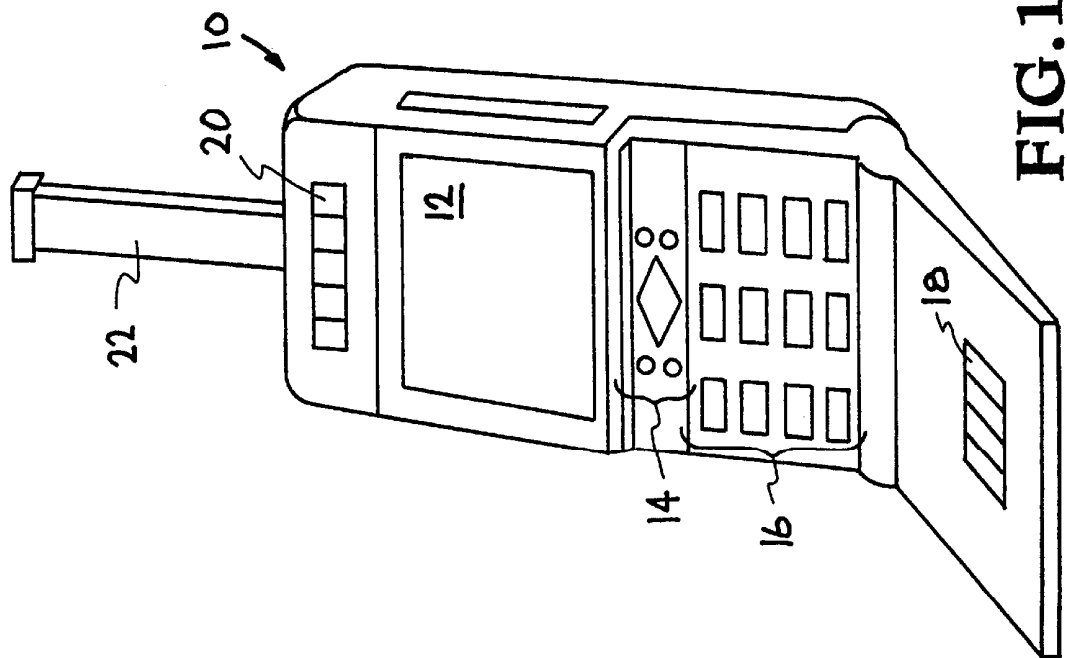
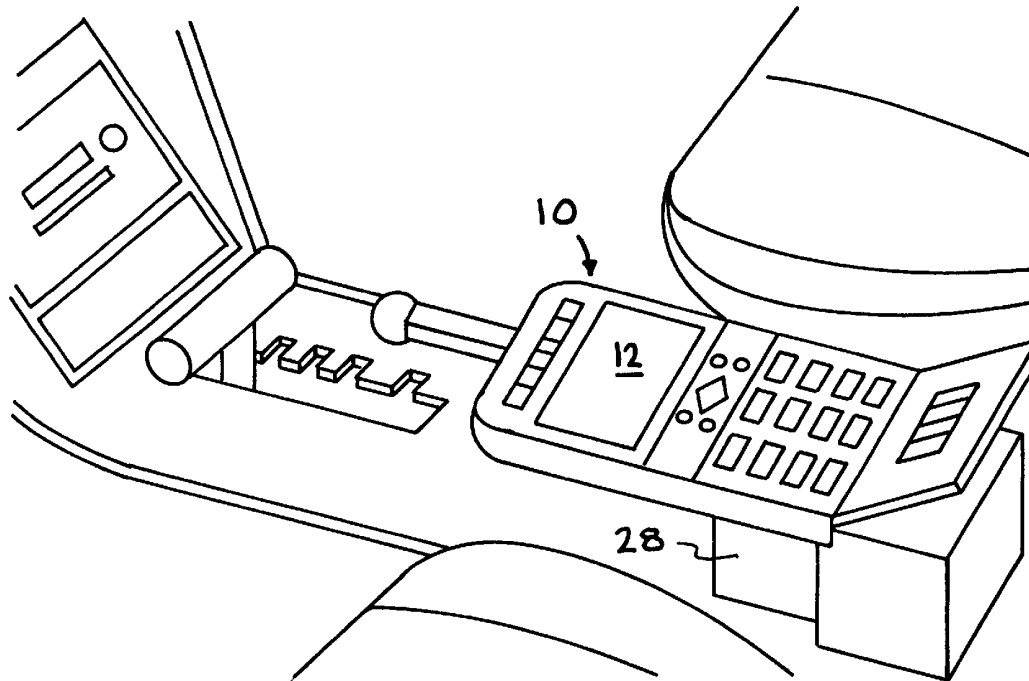
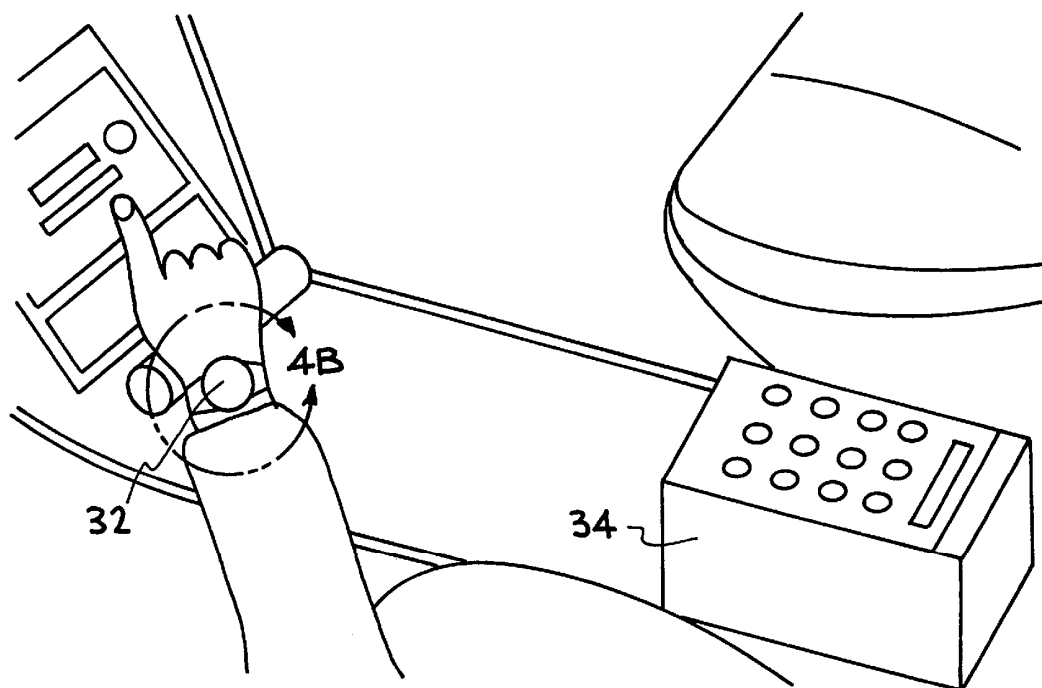


FIG. 1

**FIG. 3****FIG. 4A**

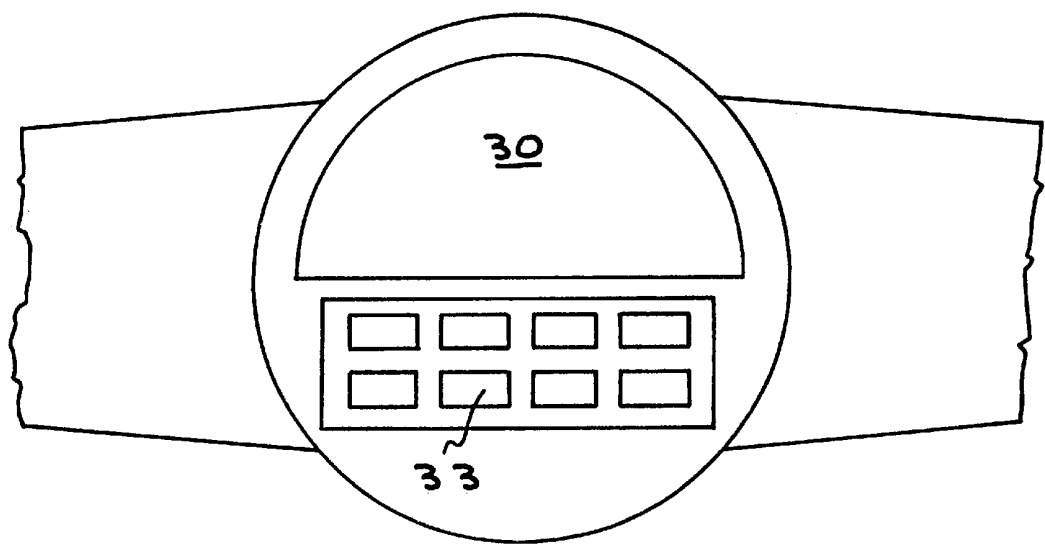


FIG. 4B

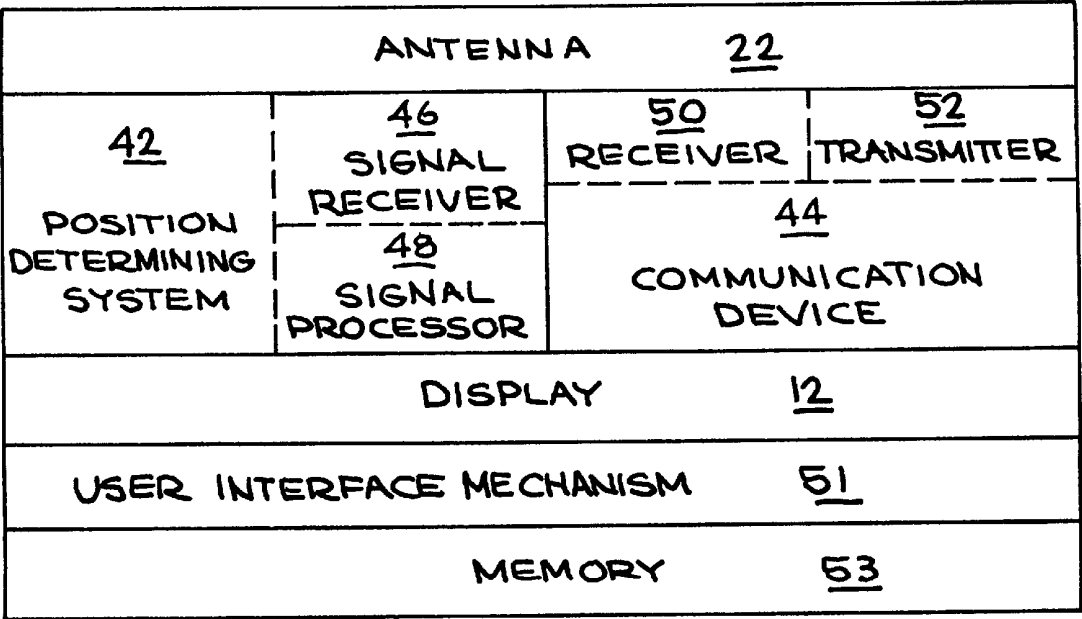


FIG. 5

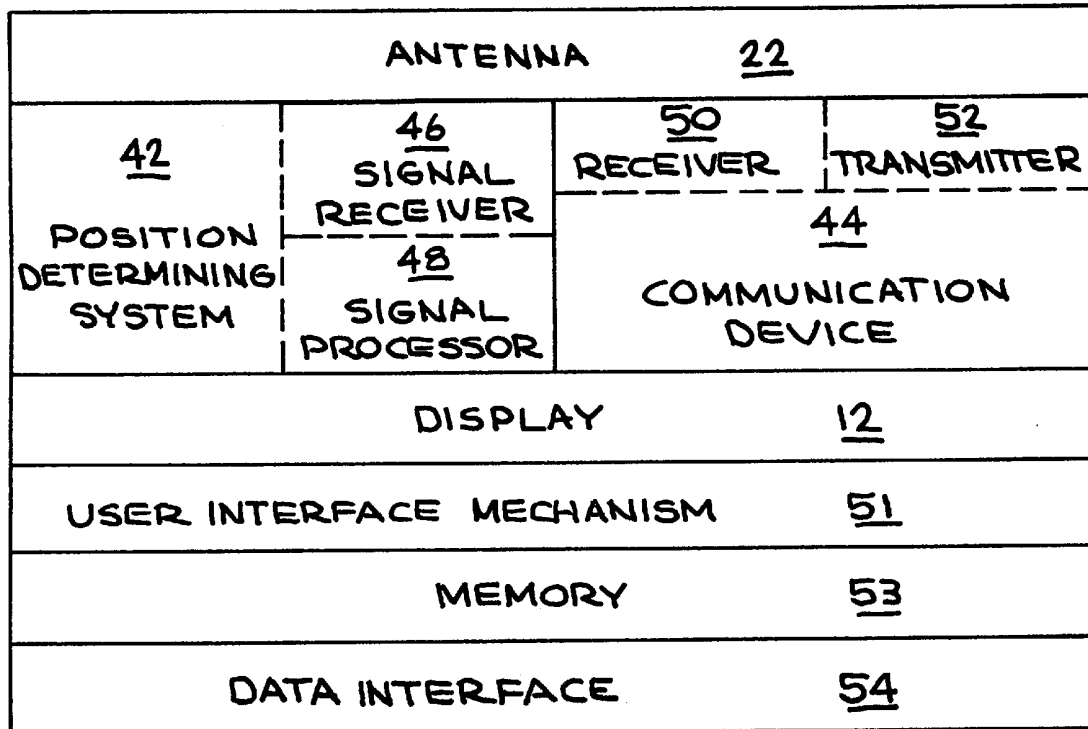


FIG. 6

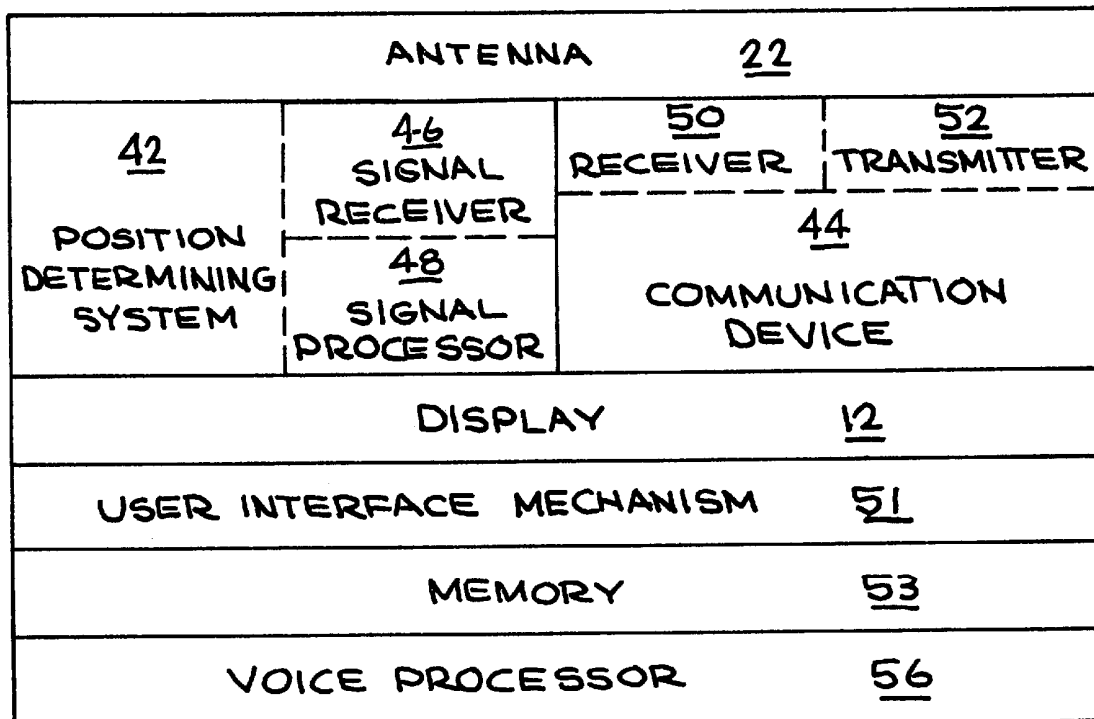


FIG. 7

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