

c12) **United States Patent**
Martucci et al.

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(54) **PORTABLE POSITION DETERMINING DEVICE**
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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 300 days.
This patent is subject to a terminal disclaimer.

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US 2008/0055154 A1 Mar. 6, 2008

Related U.S. Application Data
(63) Continuation-in-part of application No. 11/063,254, filed on Feb. 22, 2005, now Pat. No. 7,209,075, which is a continuation of application No. 10/361,802, filed on Feb. 10, 2003, now Pat. No. 6,859,171, which is a continuation of application No. 09/862,569, filed on May 22, 2001, now Pat. No. 6,518,919, which is a continuation of application No. 09/362,789, filed on Jul. 28, 1999, now Pat. No. 6,236,358.

(60) Provisional application No. 60/140,040, filed on Jun. 18, 1999.

(51) **Int. Cl.**
G01S 1100 (2006.01)
G01S 1102 (2006.01)

(52) **U.S. Cl.** **342/357.1; 342/357.06; 342/357.08; 342/357.09**

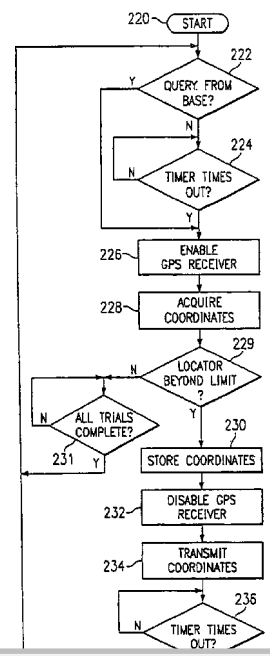
(58) **Field of Classification Search** **342/357.01, 342/357.06-357.09, 357.1, 357.13, 457, 342/463; 701/213, 215; 455/426.1, 435.1, 455/456.1**
See application file for complete search history.

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Primary Examiner-Dao L Phan
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(57) **ABSTRACT**
A position determining device is disclosed comprising a satellite navigation receiver for automatically providing computed position information, when the device has changed its position relative to a predetermined location, to a paging transmitter for transmission to a paging receiver for readout of the computed position information. The readout may be in the form of coordinates and may be accompanied by a message or alarm. The device may be configured as a portable unit of small size and economical manufacture.

8 Claims, 19 Drawing Sheets



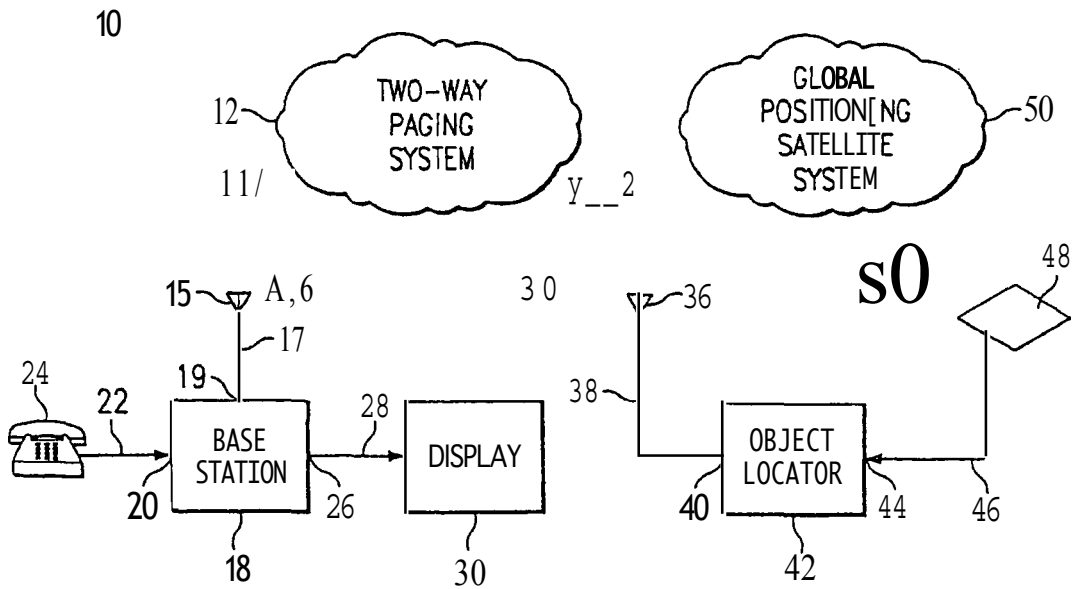


FIG. 1

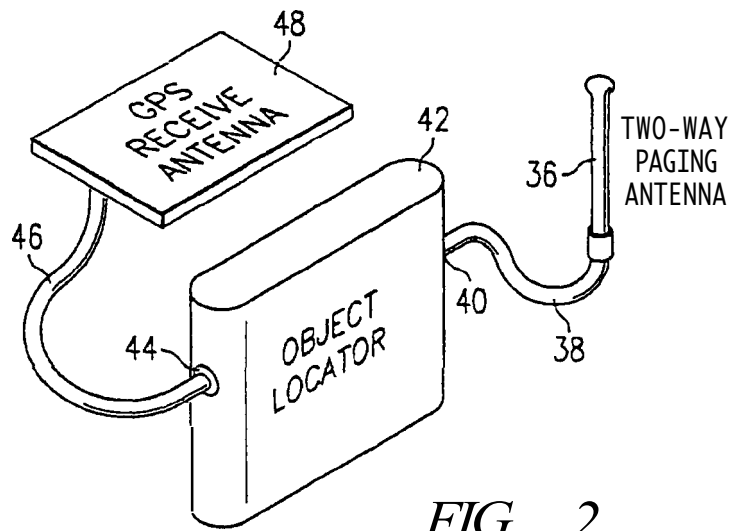
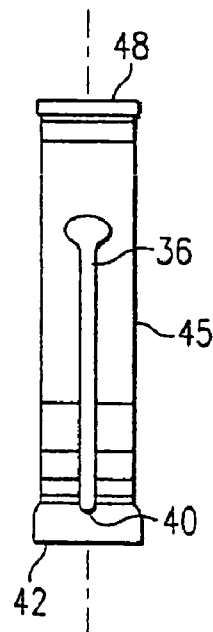
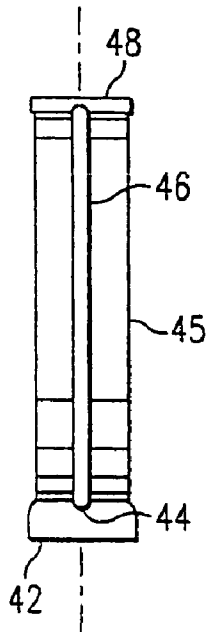
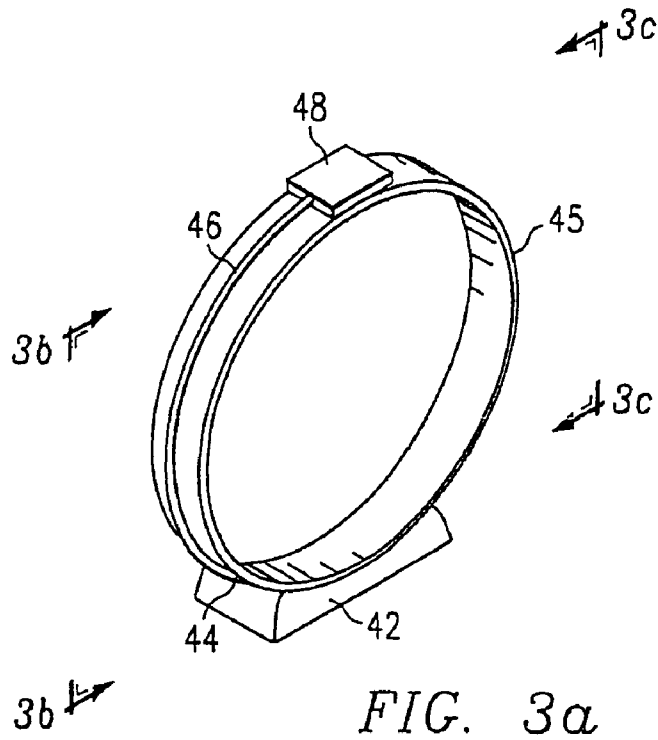
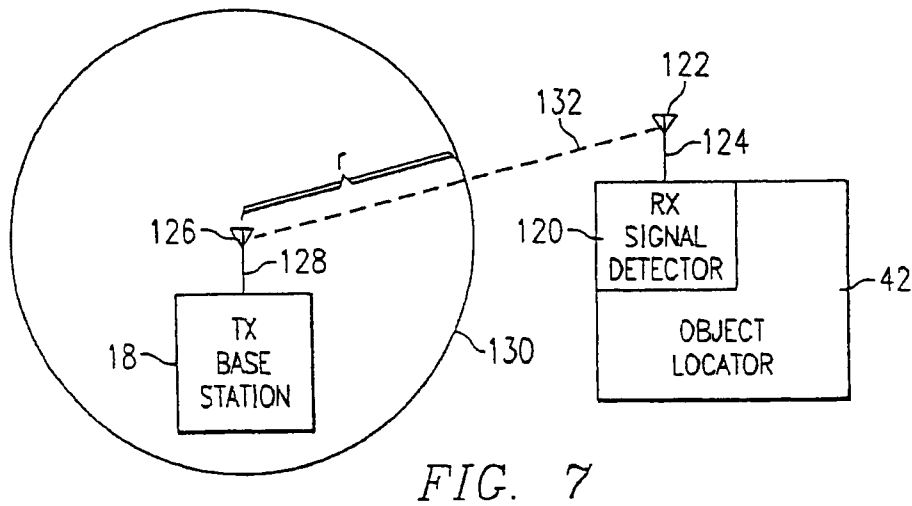
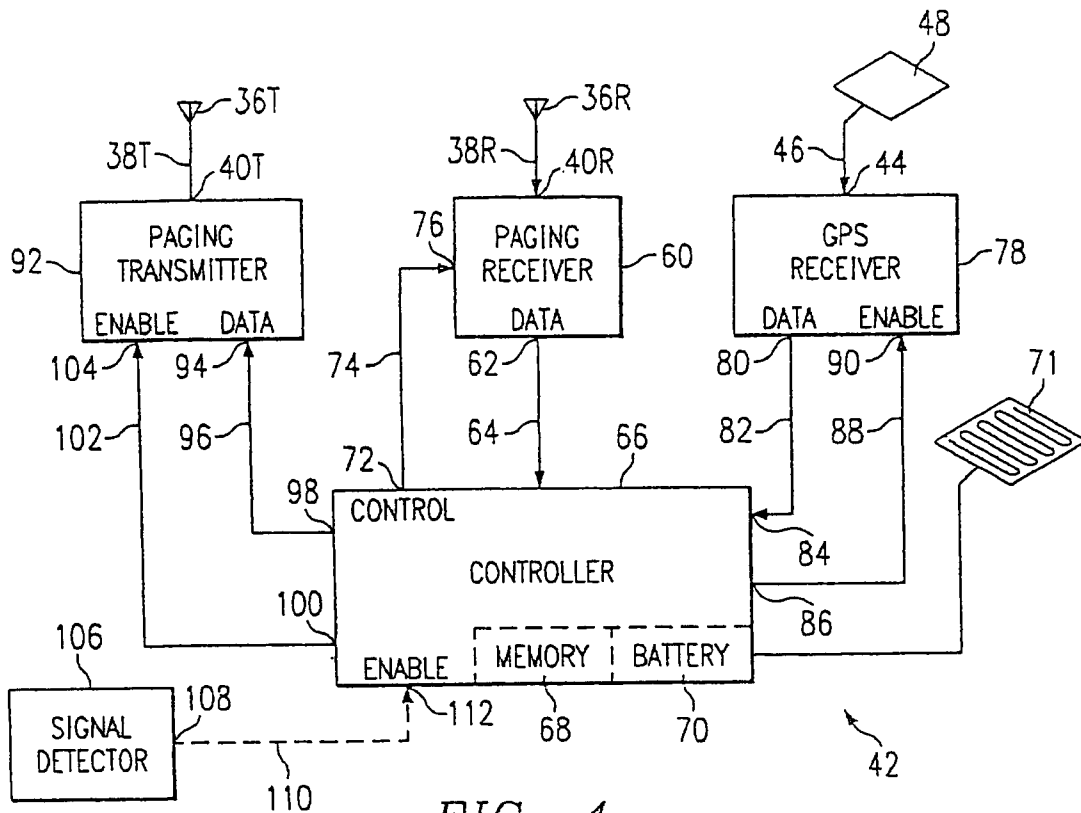


FIG. 2





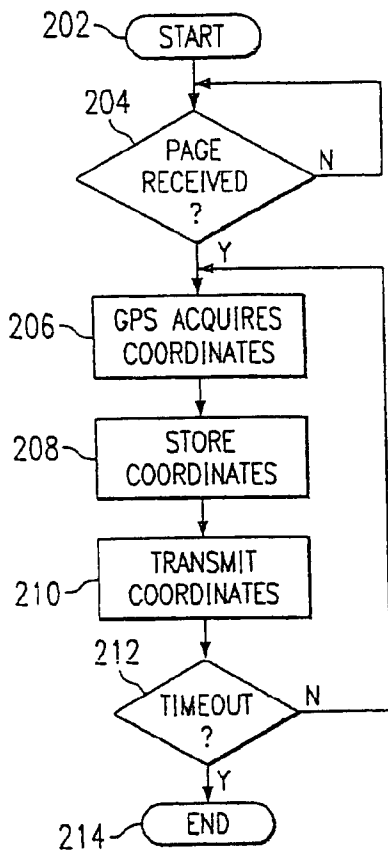


FIG. 5

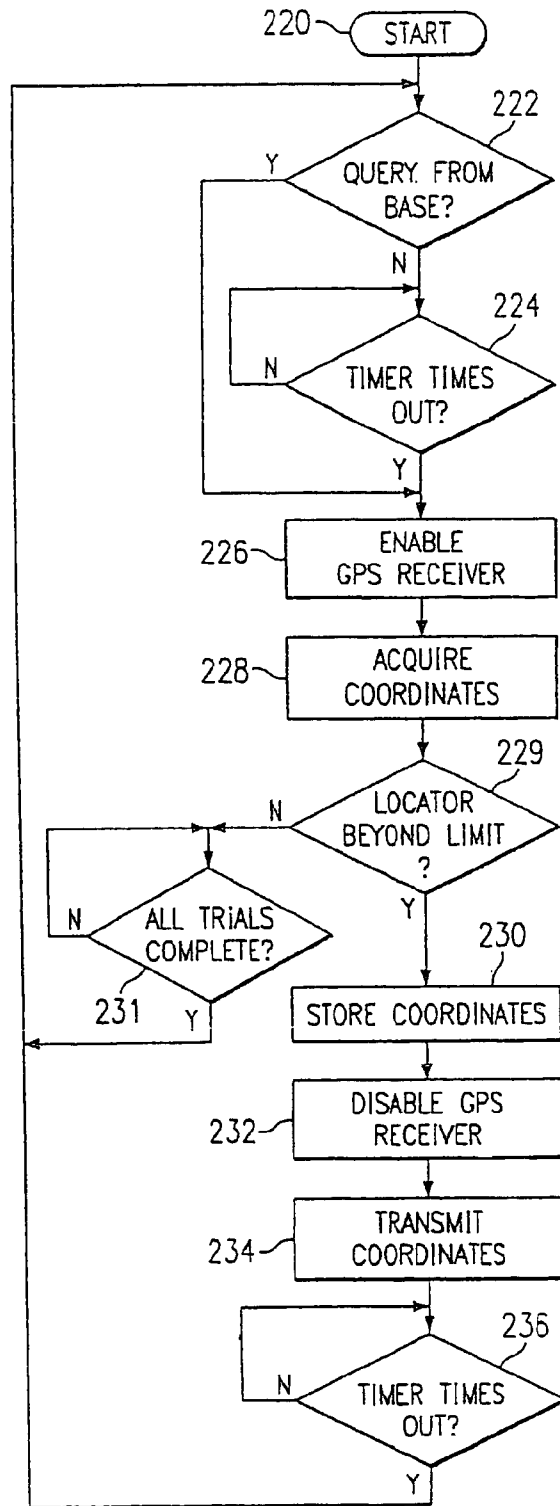


FIG. 6

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