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Gargano et al.

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[54] PERSONAL TRACKING AND RECOVERY SYSTEM

[75] Inventors: **Paul A. Gargano**, 154 Clifton St., Belmont, Mass. 02178; **David H. Gilmore**, Cayman Kai, Cayman Islands; **Frank A. Pace**, Ballston Spa, N.Y.; **Lee Weinstein**, Somerville, Mass.

[73] Assignee: **Paul A. Gargano**, Belmont, Mass.

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[52] **U.S. Cl.** **340/573**; 128/903; 340/539; 340/825.49; 342/357; 455/100

[58] **Field of Search** 340/573, 574, 340/572, 539, 825.49; 455/100; 379/37–38; 342/450, 357, 44, 42, 51; 128/774, 903, 653.1, 696

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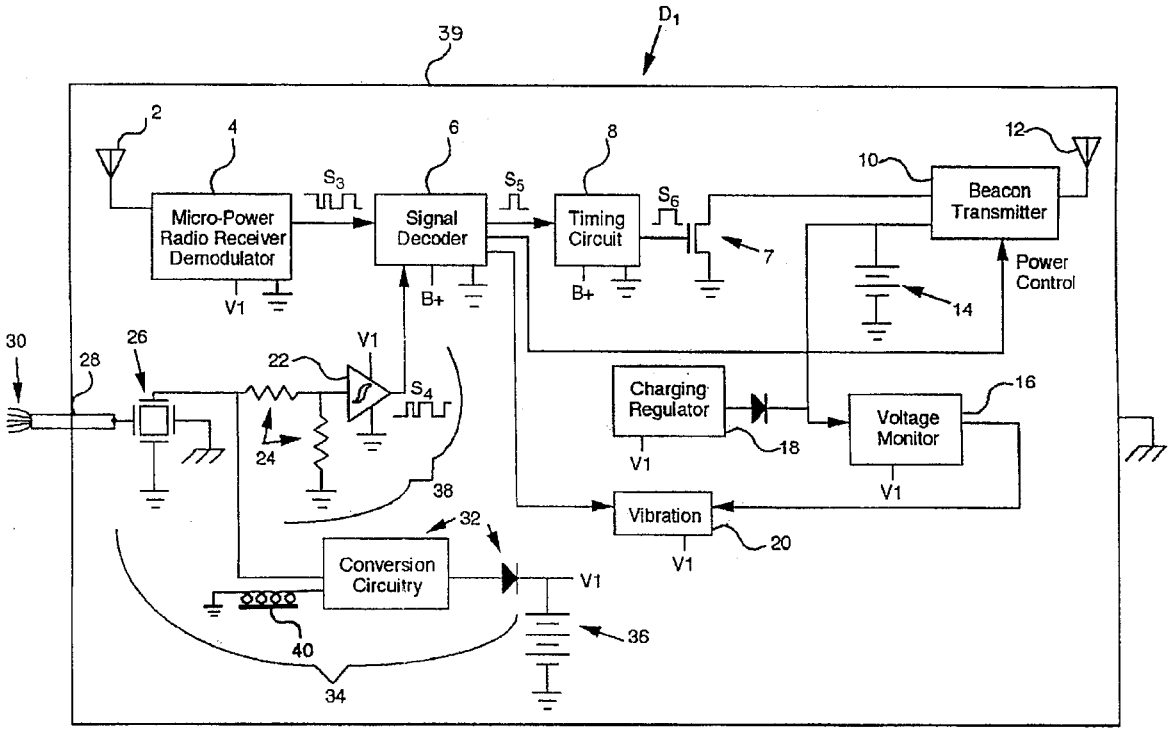
Primary Examiner—Thomas Mullen

Attorney, Agent, or Firm—Hamilton, Brook, Smith & Reynolds, P.C.

[57] **ABSTRACT**

Apparatus for tracking and recovering humans utilizes an implantable transceiver incorporating a power supply and actuation system allowing the unit to remain implanted and functional for years without maintenance. The implanted transmitter may be remotely actuated, or actuated by the implantee. Power for the remote-activated receiver is generated electromechanically through the movement of body muscle. The device is small enough to be implanted in a child, facilitating use as a safeguard against kidnapping, and has a transmission range which also makes it suitable for wilderness sporting activities. A novel biological monitoring feature allows the device to be used to facilitate prompt medical dispatch in the event of heart attack or similar medical emergency. A novel sensation-feedback feature allows the implantee to control and actuate the device with certainty.

19 Claims, 2 Drawing Sheets