

(54) **SYSTEM FOR REMOTE MONITORING OF PERSONNEL**

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(51) **Int. Cl.**⁷ **G08B 25/10**

(52) **U.S. Cl.** **340/573.1; 340/539; 340/825.15; 340/825.36; 340/825.54; 364/551.01**

(58) **Field of Search** **340/573, 539, 340/825.06, 825.15, 825.36, 825.49, 825.54, 573.1; 364/551.01**

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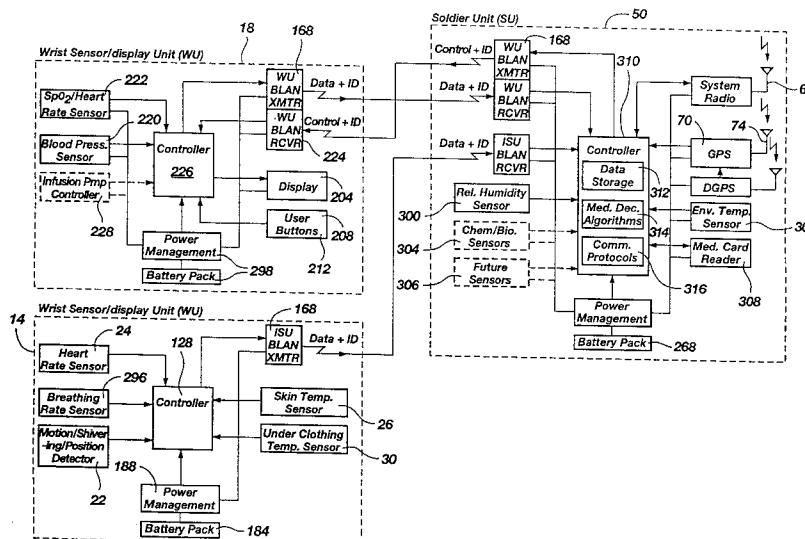
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(57) **ABSTRACT**

A system for remotely monitoring personnel status includes a plurality of sensors disposable on a soldier or other person for developing signals which may be used to determine the physiological status. The sensors communicate with a soldier unit which can process the information to ensure that the sensor data falls within acceptable ranges and communicate with remote monitors. The soldier unit also includes a global positioning system. By using the sensor data and the global positioning system, leaders and medics can quickly and accurately track and treat casualties in battle. The system enables more rapid location of the casualty, as well as remote triage/initial diagnosis, thereby assuring that those who are most in need of treatment are attended to first. Typically, the system monitors both body surface and ambient temperature, heart rate, shivering, motion status and body condition. Additional sensors can be provided to supply information on other physiological parameter which may be desired for more thorough diagnosis. The physiological information may be stored and kept with the soldier to enable improved care as the soldier is moved to higher levels of care.

91 Claims, 11 Drawing Sheets



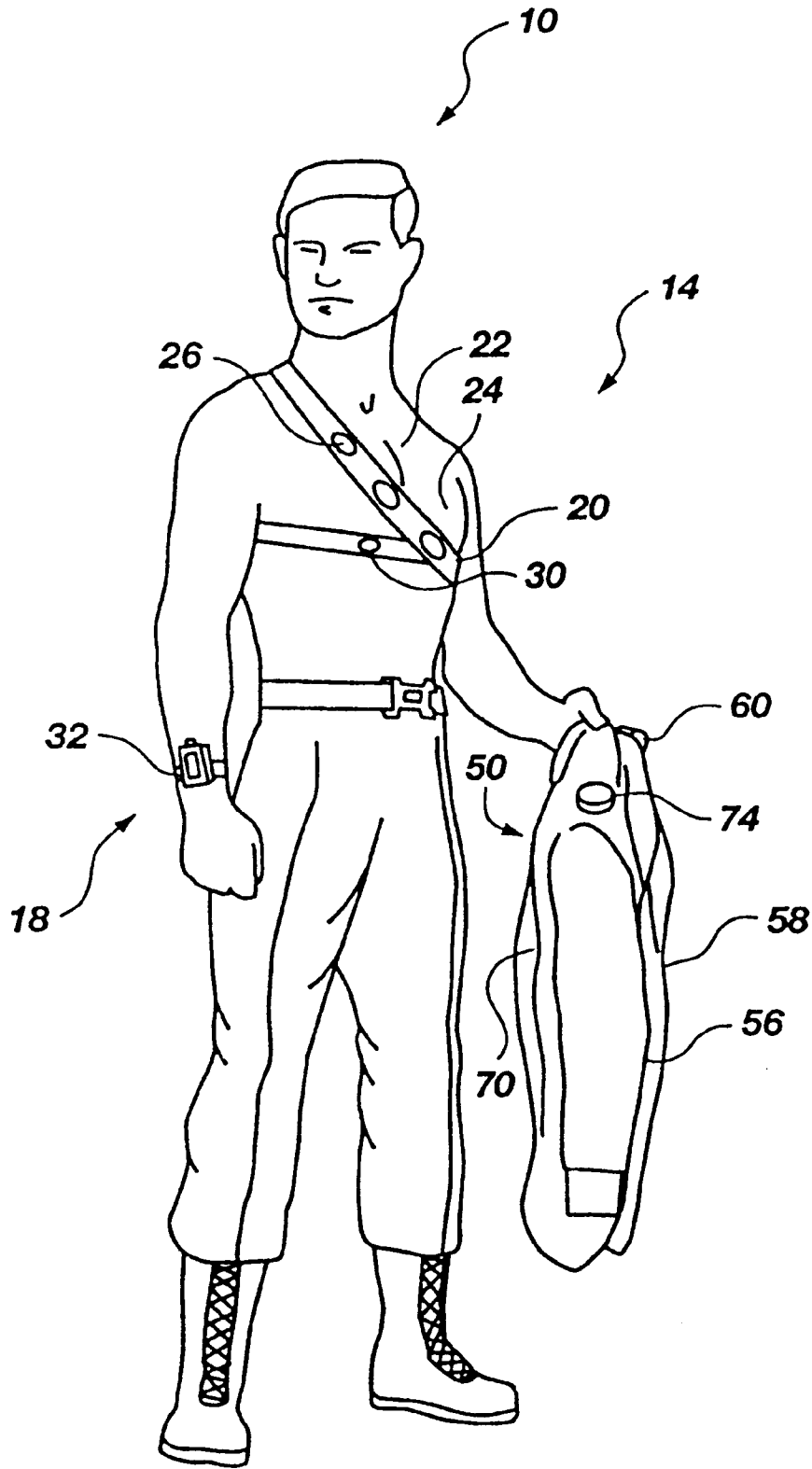


Fig. 1

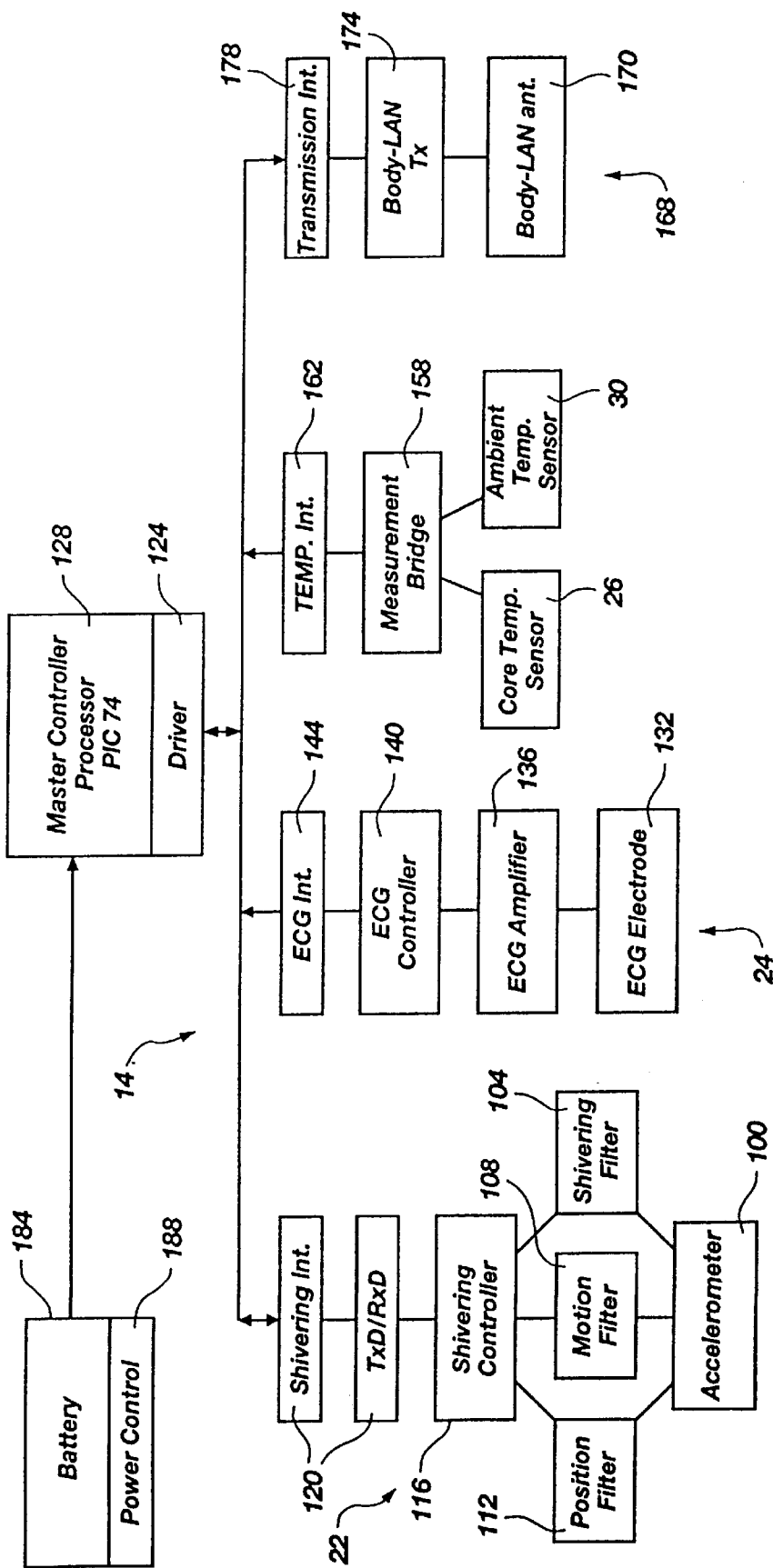


Fig. 2

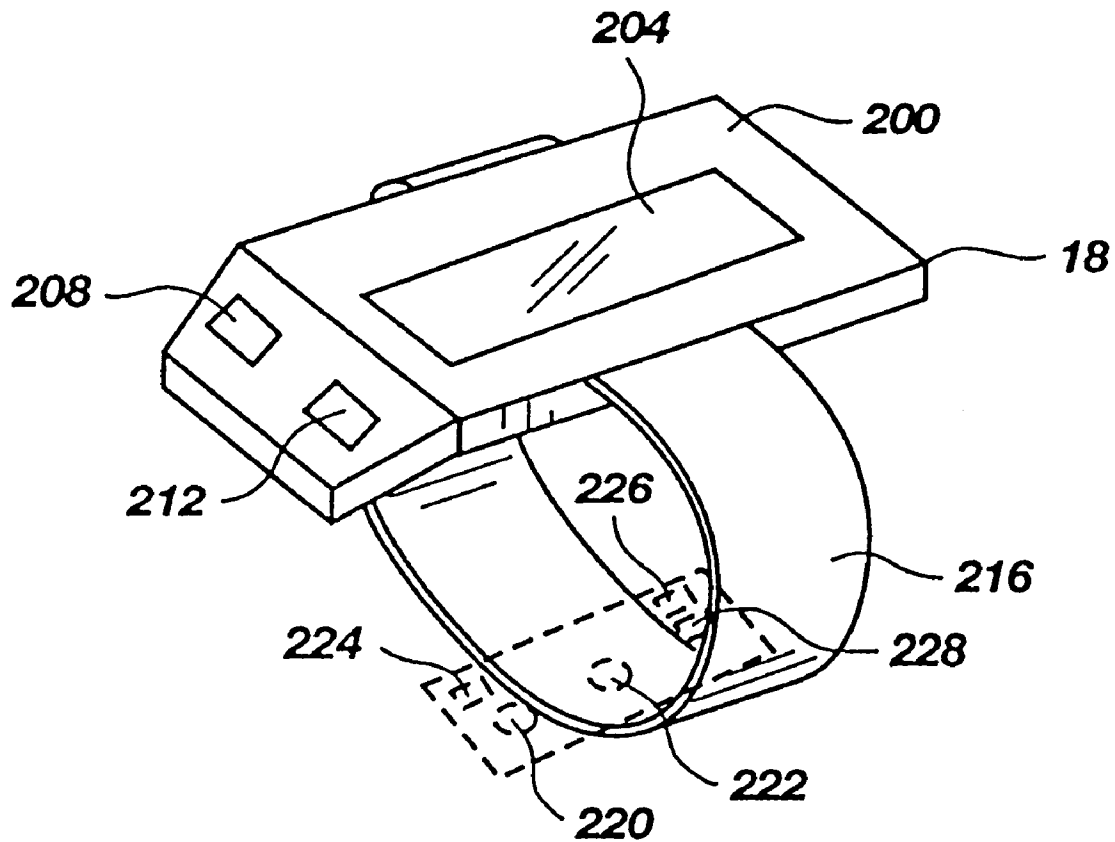


Fig. 3

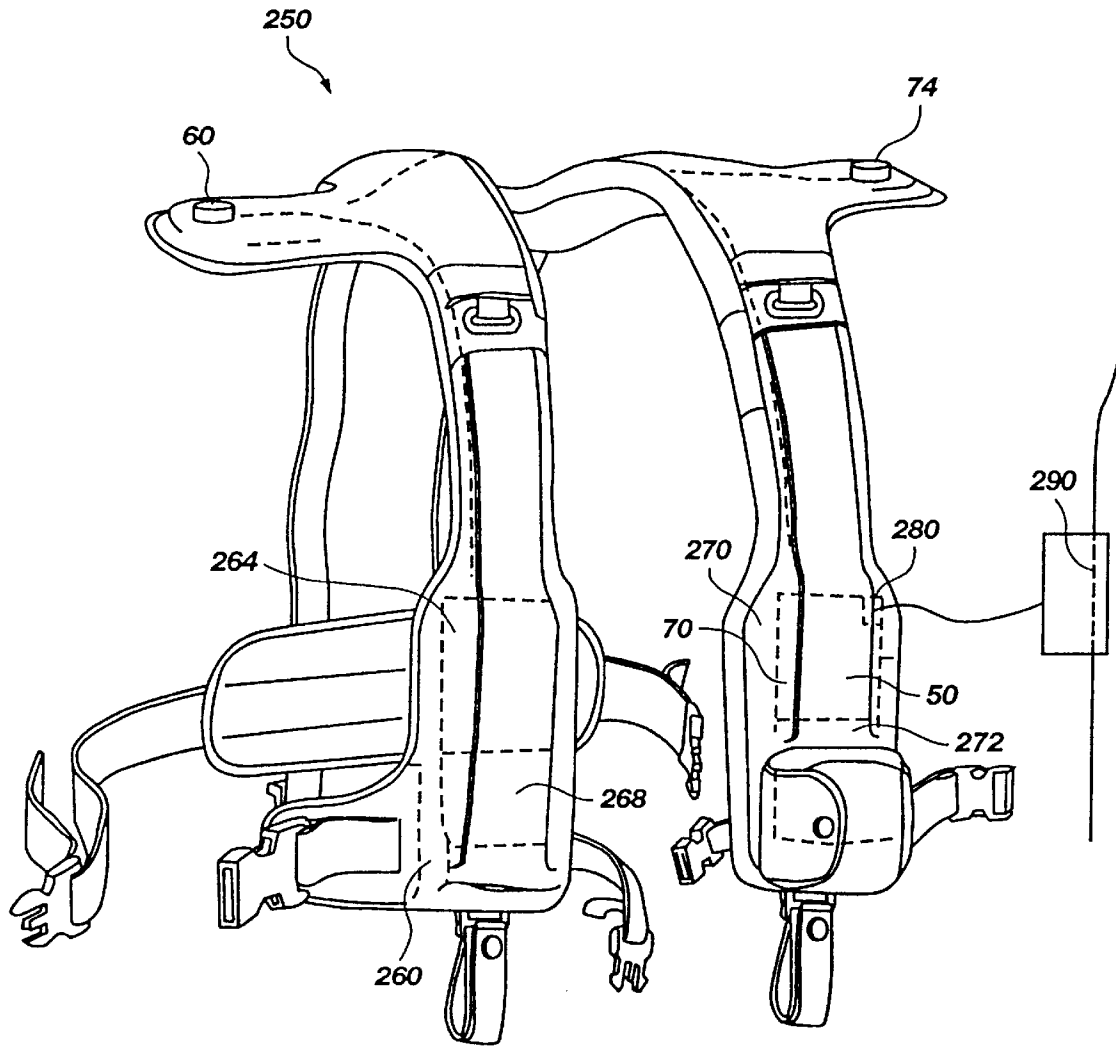


Fig. 4

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