



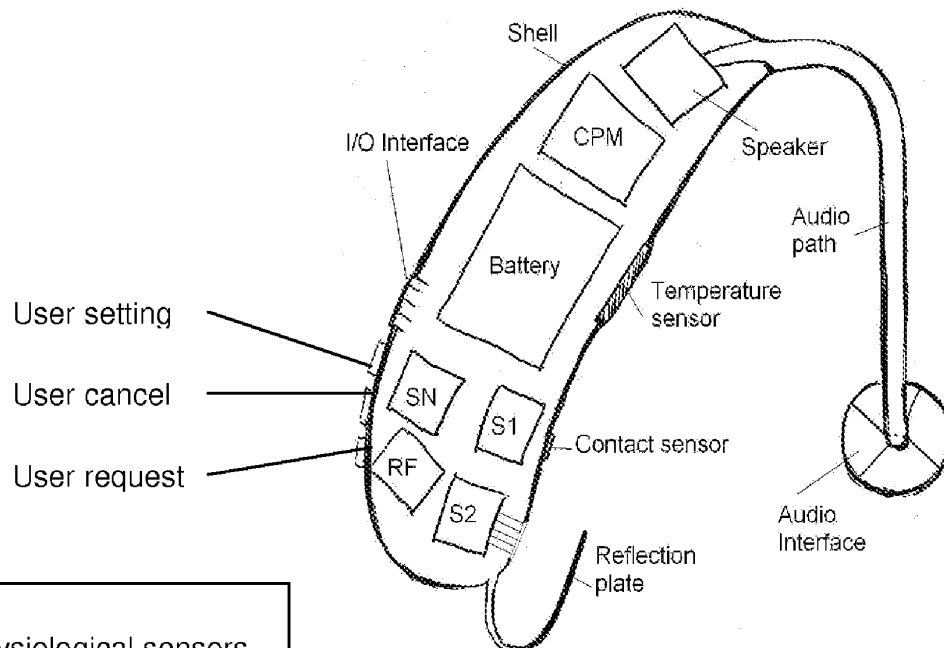
US 20080200774A1

(19) **United States**(12) **Patent Application Publication**  
**Luo**(10) **Pub. No.: US 2008/0200774 A1**(43) **Pub. Date: Aug. 21, 2008**(54) **WEARABLE MINI-SIZE INTELLIGENT  
HEALTHCARE SYSTEM**(75) Inventor: **Hongyue Luo**, Waterloo (CA)

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**A61B 5/00** (2006.01)(52) **U.S. Cl.** ..... **600/301**(57) **ABSTRACT**

A system and method for the wearable mini-size intelligent healthcare system, comprising one or multiple vital signal sensors, activity sensors, a real-time detection and analyzing module for continuous health monitoring, adjustable user setting mode with the adaptive optimization, data-collecting capability to record important health information, smart audio outputs of audio beep and speech advice to the user through audio path and audio interface, preset and user confirmable alarm conditions via wireless communications network to the appropriate individual for prompt and necessary assistance. The system uses noninvasive monitoring technology for continuous, painless and bloodless health state monitoring. The system also works through the short range RF link with carry-on PDA or cell phone for displaying health information, making urgent contact to support center, doctor or individual, or for information transmission with a healthcare center.

**Note:**

S1: Physiological sensors

S2: Activity sensors

SN: New sensors

RF: Wireless link

**System Overview**Apple Inc.  
APL1055

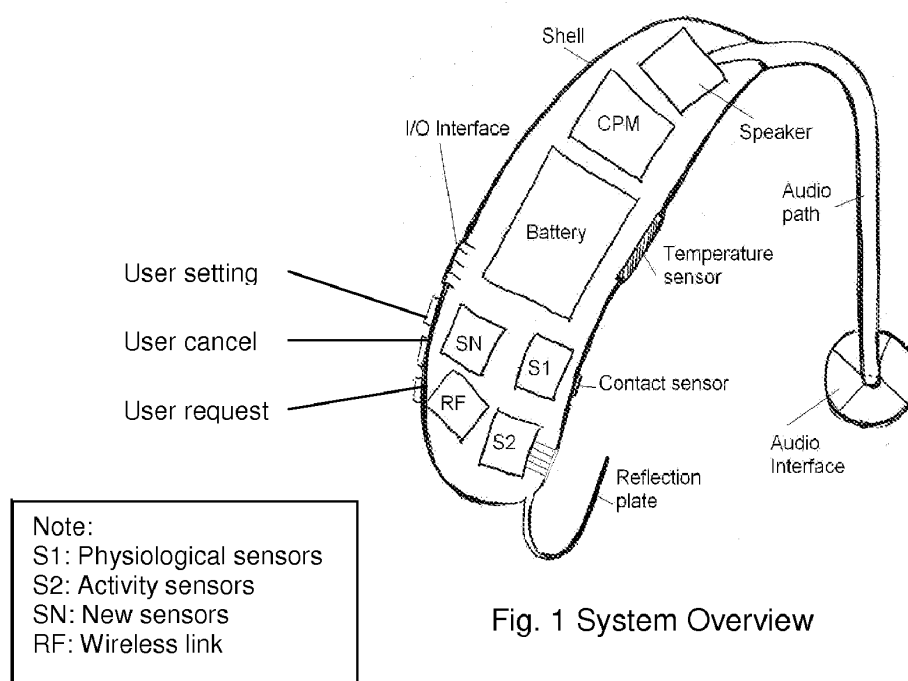


Fig. 1 System Overview

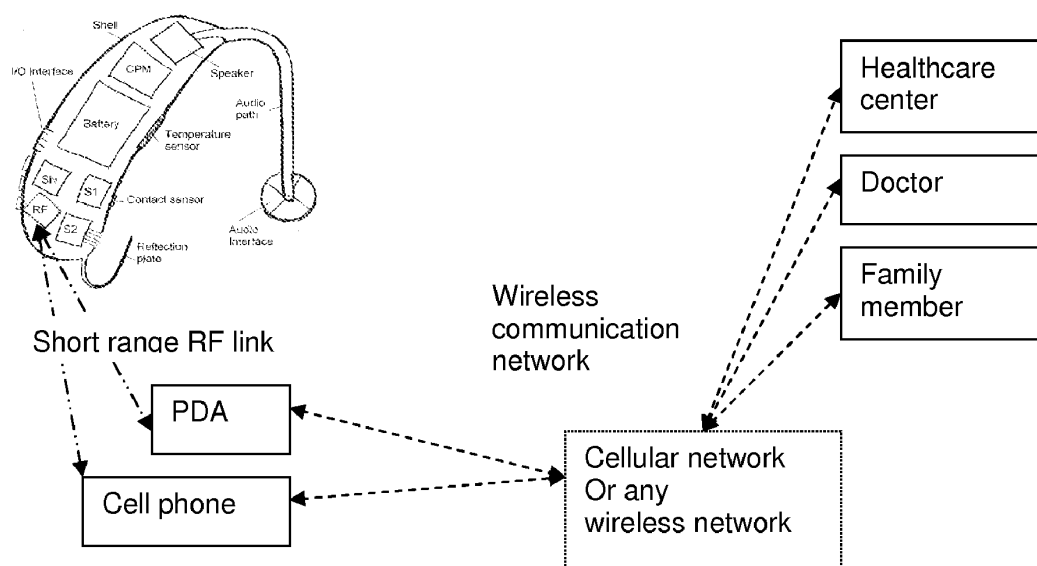


Fig. 2 System application overview

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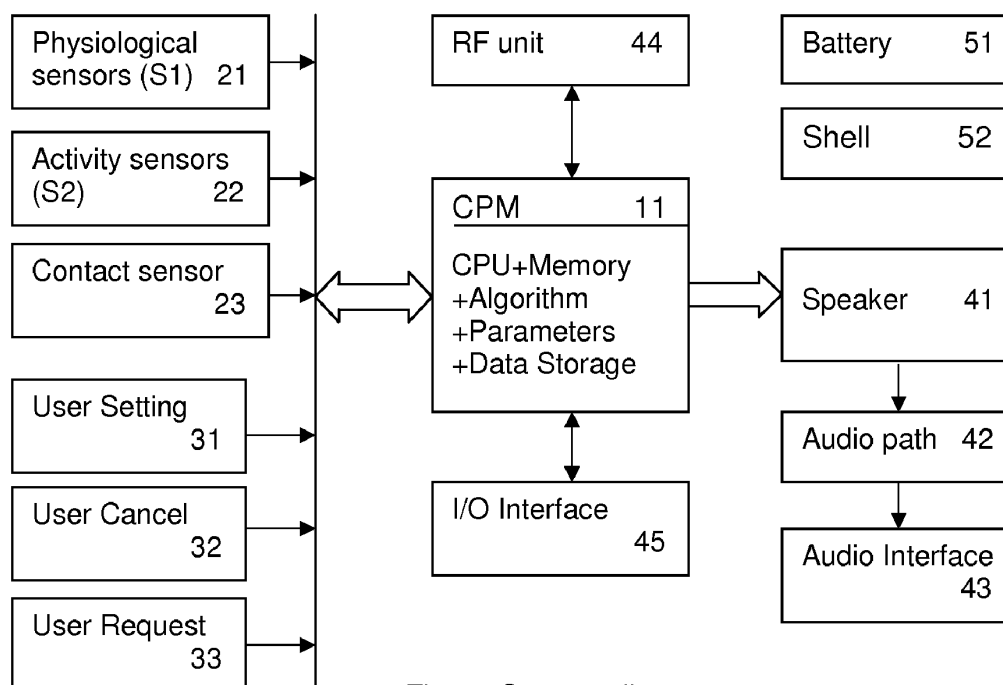


Fig. 3: System diagram

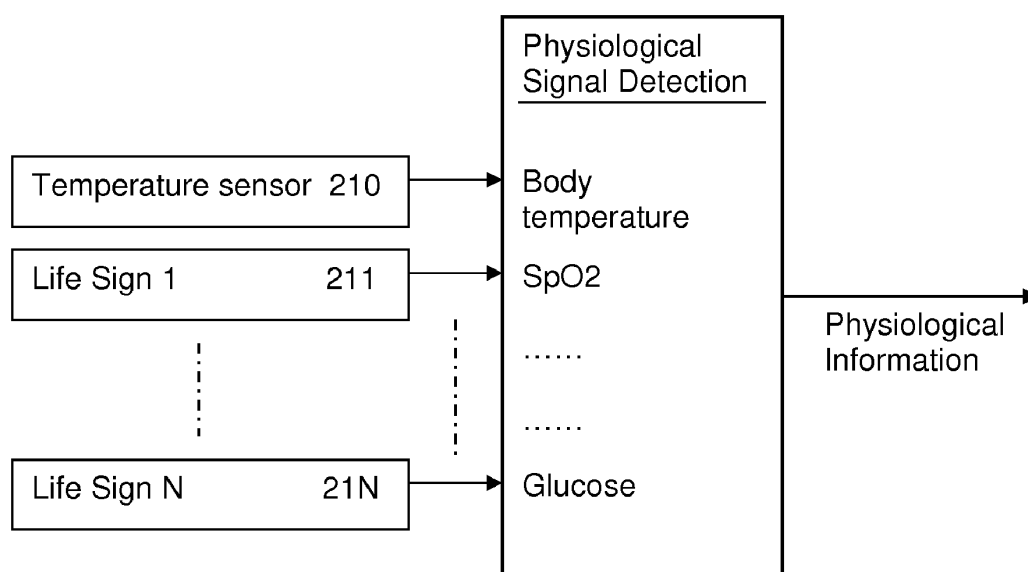


Fig. 4: Physiological Signal Monitoring

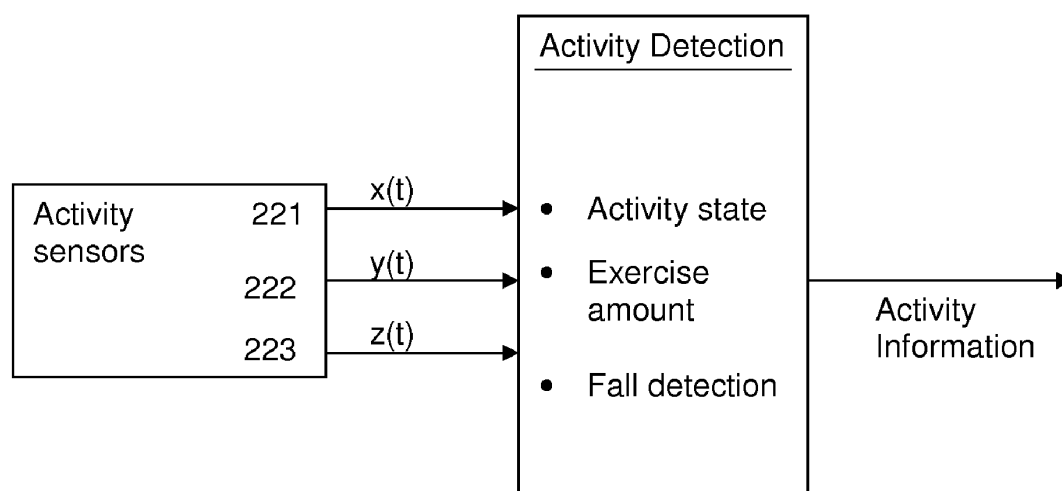


Fig. 5: Activity Monitoring

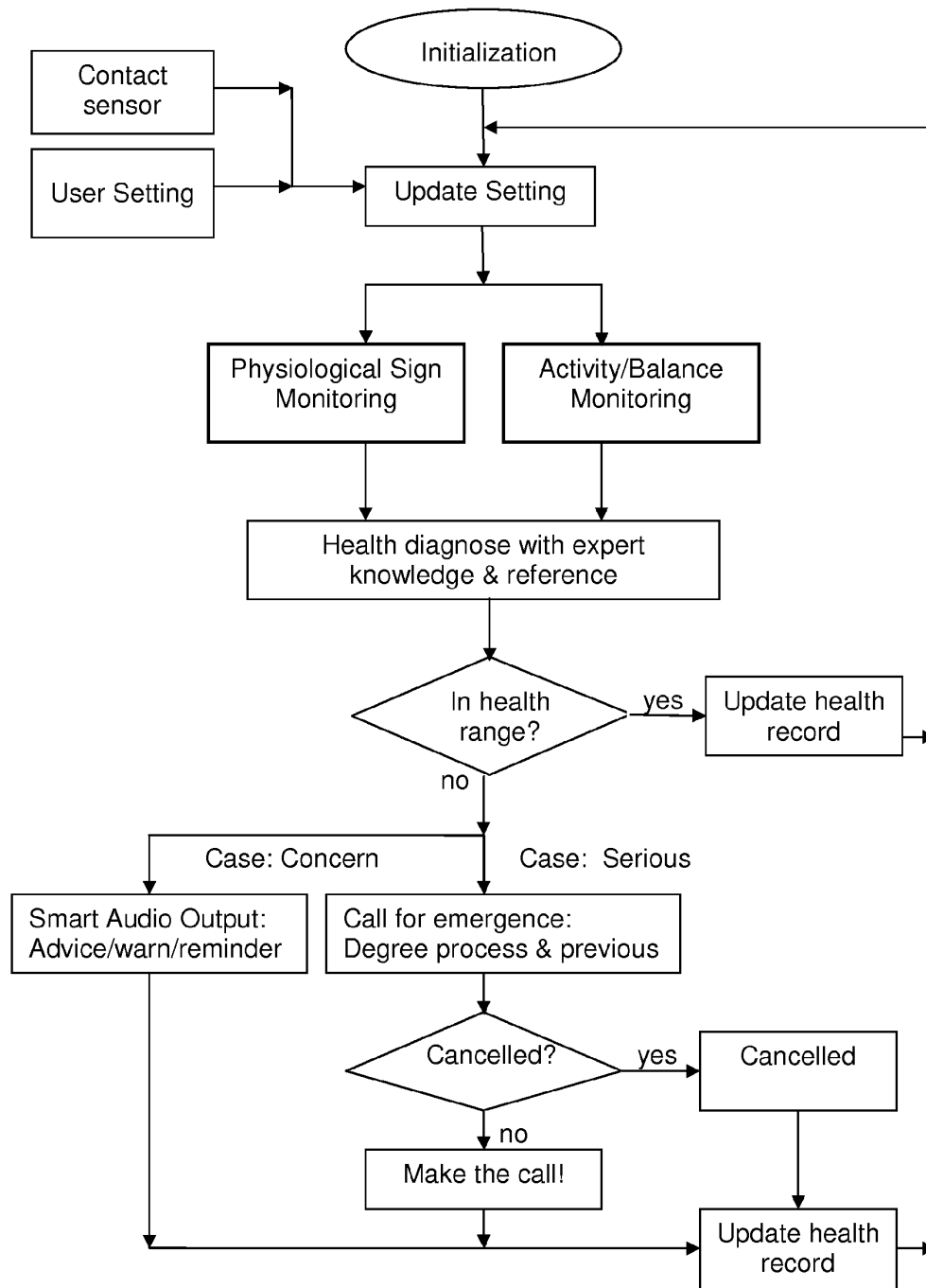


Fig. 6: System Principle

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