



US007278966B2

(12) **United States Patent**
Hjelt et al.

(10) **Patent No.:** **US 7,278,966 B2**
(45) **Date of Patent:** **Oct. 9, 2007**

(54) **SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR MANAGING PHYSIOLOGICAL INFORMATION RELATING TO A TERMINAL USER**

5,989,200 A 11/1999 Yoshimura et al.
6,122,960 A 9/2000 Hutchings et al.
6,356,856 B1 3/2002 Damen et al.
6,396,416 B1 5/2002 Kuusela et al.

(75) Inventors: **Kari Hjelt**, Espoo (FI); **Santtu Naukkarinen**, Espoo (FI); **Jukka Nihtilä**, Espoo (FI); **Tapani Ryhänen**, Helsinki (FI); **Timo Vitikainen**, Espoo (FI)

(Continued)

FOREIGN PATENT DOCUMENTS

EP 1 027 860 A1 8/2000

(73) Assignee: **Nokia Corporation**, Espoo (FI)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(Continued)

OTHER PUBLICATIONS

(21) Appl. No.: **10/853,702**

Nokia 5140 mobile phone adds mobility to Outdoor Adventure, Sport and Fitness; Feb. 2, 2004; Nokia.com Press Releases; available at <http://press.nokia.com/PR/200402/932564_5/html> (visited Feb. 2, 2004).

(22) Filed: **May 25, 2004**

(65) **Prior Publication Data**
US 2005/0171410 A1 Aug. 4, 2005

Primary Examiner—Max F. Hindenburg
Assistant Examiner—Michael C Astorino
(74) *Attorney, Agent, or Firm*—Alston & Bird LLP

Related U.S. Application Data

(60) Provisional application No. 60/540,607, filed on Jan. 31, 2004.

(57) **ABSTRACT**

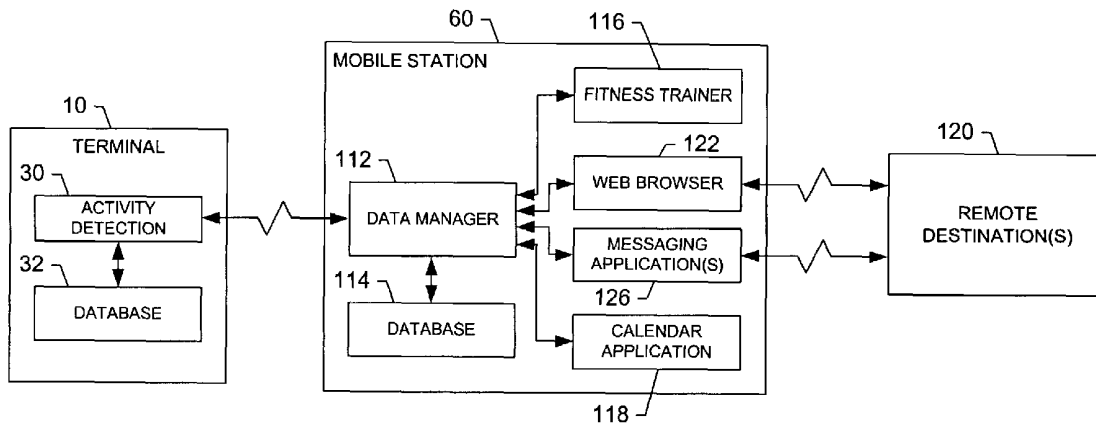
(51) **Int. Cl.**
A61B 5/00 (2006.01)
(52) **U.S. Cl.** **600/300**; 600/301; 128/920; 482/8
(58) **Field of Classification Search** 600/300-301, 600/401, 595; 128/903-905, 920-921; 705/2-4; 340/573.12; 482/4, 8-9
See application file for complete search history.

A system for managing physiological information includes a mobile terminal and at least one destination. The terminal is capable of transferring physiological information relating to a terminal user. The destination(s), in turn, are capable of receiving the physiological information and performing at least one operation based upon the physiological information. The destinations can return content to the terminal, where the content is selected based upon the operation(s) performed by the destination(s). Upon receiving the content, then, the terminal is also capable of performing at least one operation based upon the content. The system can also include a mobile station for facilitating the transfer of physiological information and content between the terminal and the destination(s).

(56) **References Cited**
U.S. PATENT DOCUMENTS

5,447,524 A 9/1995 Alt
5,524,637 A 6/1996 Erickson
5,749,372 A 5/1998 Allen et al.
5,976,083 A 11/1999 Richardson et al.

70 Claims, 16 Drawing Sheets



U.S. PATENT DOCUMENTS

6,478,736 B1* 11/2002 Mault 600/300
6,497,638 B1* 12/2002 Shea 482/8
6,501,386 B2 12/2002 Lehrman et al.
6,595,929 B2* 7/2003 Stivoric et al. 600/549
6,635,013 B2 10/2003 Pfeffer
2001/0049470 A1 12/2001 Mault et al.
2002/0019586 A1 2/2002 Teller et al.
2002/0072932 A1* 6/2002 Swamy 705/2
2002/0133378 A1 9/2002 Mault et al.
2003/0090389 A1 5/2003 Maeda et al.
2003/0208110 A1 11/2003 Mault et al.

2004/0002634 A1 1/2004 Nihtila
2004/0002662 A1 1/2004 Hjelt et al.
2004/0081110 A1 4/2004 Koskimies

FOREIGN PATENT DOCUMENTS

EP 1 138 259 A2 10/2001
EP 1 193 494 A1 4/2002
EP 1 374 766 A1 1/2004
WO WO 02/00111 A1 1/2002
WO WO 03/055389 A1 7/2003

* cited by examiner

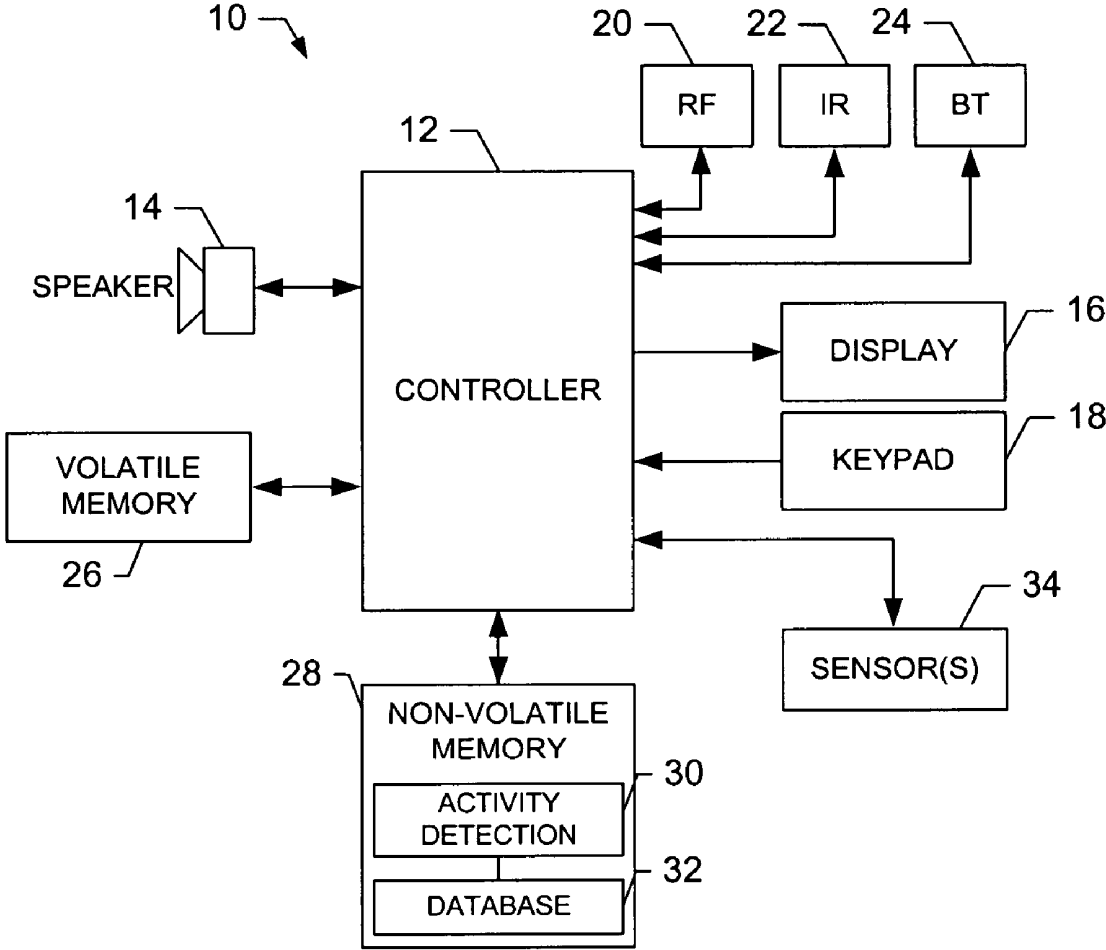


FIG. 1.

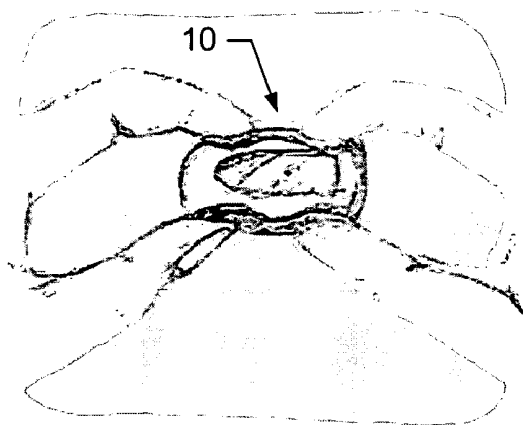


FIG. 2A.

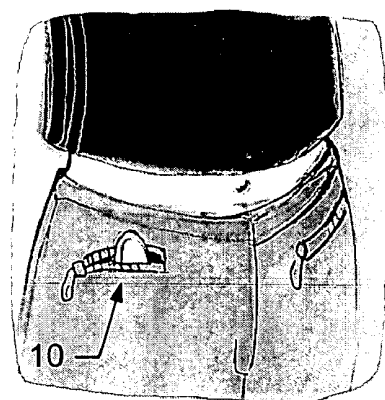


FIG. 2B.

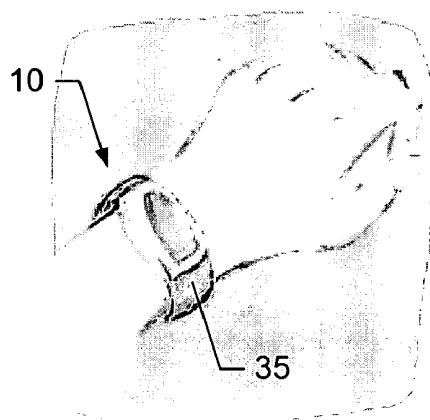


FIG. 2C.



FIG. 2D.

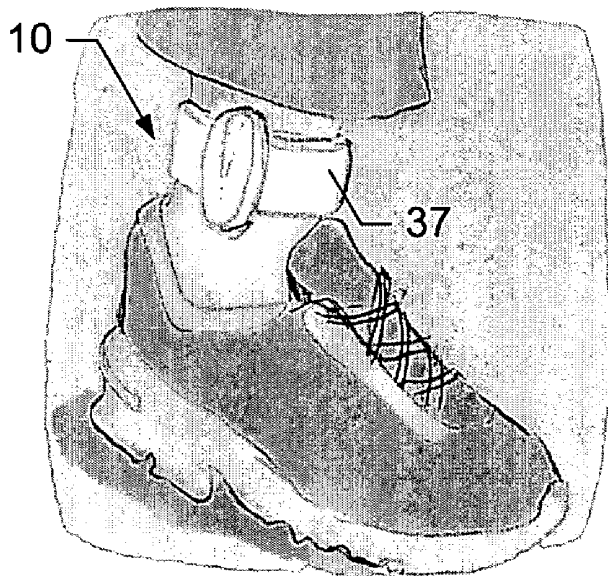


FIG. 2E.

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.