

US007278966B2

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

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

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

Helsinki (FI); Timo Vitikainen, Espoo

(FI)

(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.

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

(22) Filed: May 25, 2004

(65) Prior Publication Data

US 2005/0171410 A1 Aug. 4, 2005

#### Related U.S. Application Data

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

(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.

## (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.

## (10) Patent No.: US 7,278,966 B2

Oct. 9, 2007

(45) Date of Patent:

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.

#### (Continued)

### FOREIGN PATENT DOCUMENTS

EP 1 027 860 A1 8/2000

#### (Continued)

#### OTHER PUBLICATIONS

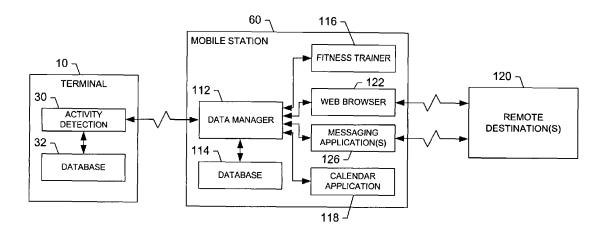
Nokia 5140 mobile phone adds mobility to Outdoor Adventure, Sport and Fitness; Feb. 2, 2004; Nokia.com Press Releases; available at <a href="http://press.nokia.com/PR/200402/932564\_5/html">http://press.nokia.com/PR/200402/932564\_5/html</a> (visited Feb. 2, 2004).

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

#### (57) ABSTRACT

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).

## 70 Claims, 16 Drawing Sheets





## US 7,278,966 B2

Page 2

| U.S. PATE             | NT DOCUMENTS              | 2004/0002634<br>2004/0002662 |              | Nihtila<br>Hjelt et al. |
|-----------------------|---------------------------|------------------------------|--------------|-------------------------|
| 6,478,736 B1* 11/20   | 02 Mault 600/300          | 2004/0002002                 |              | Koskimies               |
| 6,497,638 B1* 12/20   | 02 Shea 482/8             | 200 11 000 11 10             |              | Trobanines              |
| 6,501,386 B2 12/20    | 02 Lehrman et al.         | FOI                          | REIGN PATE   | NT DOCUMENTS            |
| 6,595,929 B2 * 7/20   | 03 Stivoric et al 600/549 |                              |              |                         |
| 6,635,013 B2 10/20    | 03 Pfeffer                | EP                           | 1 138 259 A2 | 10/2001                 |
| 2001/0049470 A1 12/20 | 01 Mault et al.           | EP                           | 1 193 494 A1 | 4/2002                  |
| 2002/0019586 A1 2/20  | 02 Teller et al.          | EP                           | 1 374 766 A1 | 1/2004                  |
| 2002/0072932 A1* 6/20 | 02 Swamy 705/2            | WO WO                        | 02/00111 A1  | 1/2002                  |
| 2002/0133378 A1 9/20  | 02 Mault et al.           | WO WO                        | 03/055389 A1 | 7/2003                  |
| 2003/0090389 A1 5/20  | 03 Maeda et al.           |                              |              |                         |
| 2003/0208110 A1 11/20 | 03 Mault et al.           | * cited by exar              | miner        |                         |



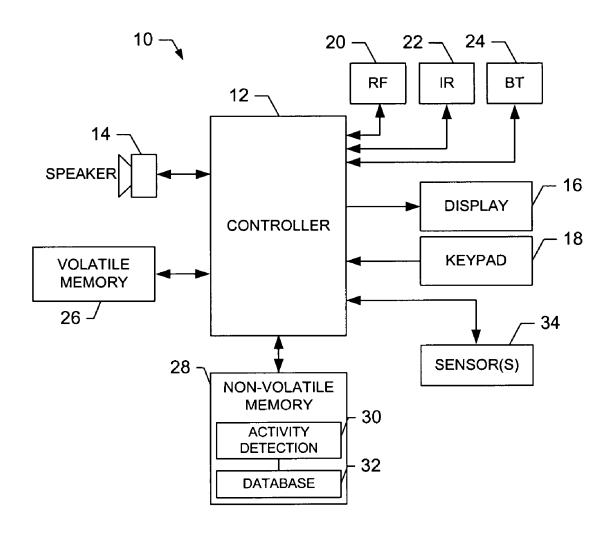


FIG. 1.



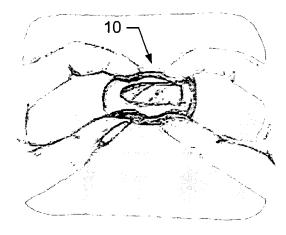


FIG. 2A.

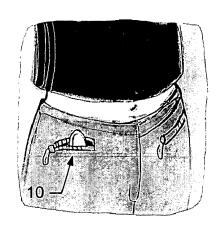


FIG. 2B.

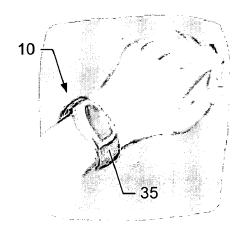


FIG. 2C.



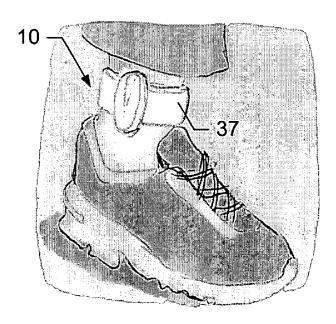


FIG. 2E.



# DOCKET

## 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.

