



(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0032386 A1**

Sackner et al.

(43) **Pub. Date: Mar. 14, 2002**

(54) **SYSTEMS AND METHODS FOR
AMBULATORY MONITORING OF
PHYSIOLOGICAL SIGNS**

(57) **ABSTRACT**

(76) Inventors: **Marvin A. Sackner**, Miami Beach, FL (US); **Dana Michael Inman**, Miami, FL (US)

The present invention relates to the field of ambulatory and non-invasive monitoring of a plurality of physiological parameters of a monitored individual. The invention includes a physiological monitoring apparatus with an improved monitoring apparel worn by a monitored individual, the apparel having attached sensors for monitoring parameters reflecting pulmonary function, or parameters reflecting cardiac function, or parameters reflecting the function of other organ systems, and the apparel being designed and tailored to be comfortable during the individual's normal daily activities. The apparel is preferably also suitable for athletic activities. The sensors preferably include one or more ECG leads and one of more inductive plethysmographic sensor with conductive loops positioned closely to the individual to preferably monitor at least basic cardiac parameters, basic pulmonary parameters, or both. The monitoring apparatus also includes a unit for receiving data from the sensors, and for storing the data in a computer-readable medium. The invention also includes systems comprising a central data repository for receiving, storing, and processing data generated by a plurality of physiological monitored apparatus, and for making stored data available to the individual and to health care providers.

Correspondence Address:
**PENNIE & EDMONDS LLP
COUNSELLORS AT LAW
1155 Avenue of the Americas
New York, NY 10036-2711 (US)**

(21) Appl. No.: **09/836,384**

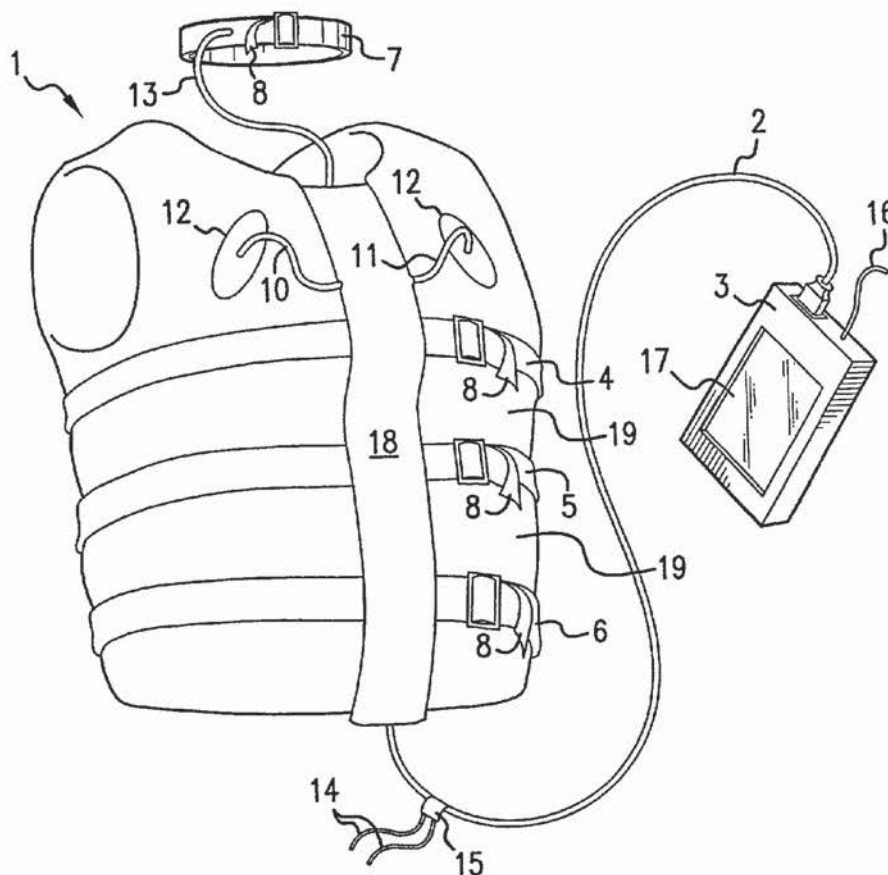
(22) Filed: **Apr. 17, 2001**

Related U.S. Application Data

(63) Non-provisional of provisional application No. 60/197,589, filed on Apr. 17, 2000.

Publication Classification

(51) **Int. Cl.⁷ A61B 5/08; A61B 5/02**
(52) **U.S. Cl. 600/536; 600/484; 600/509**



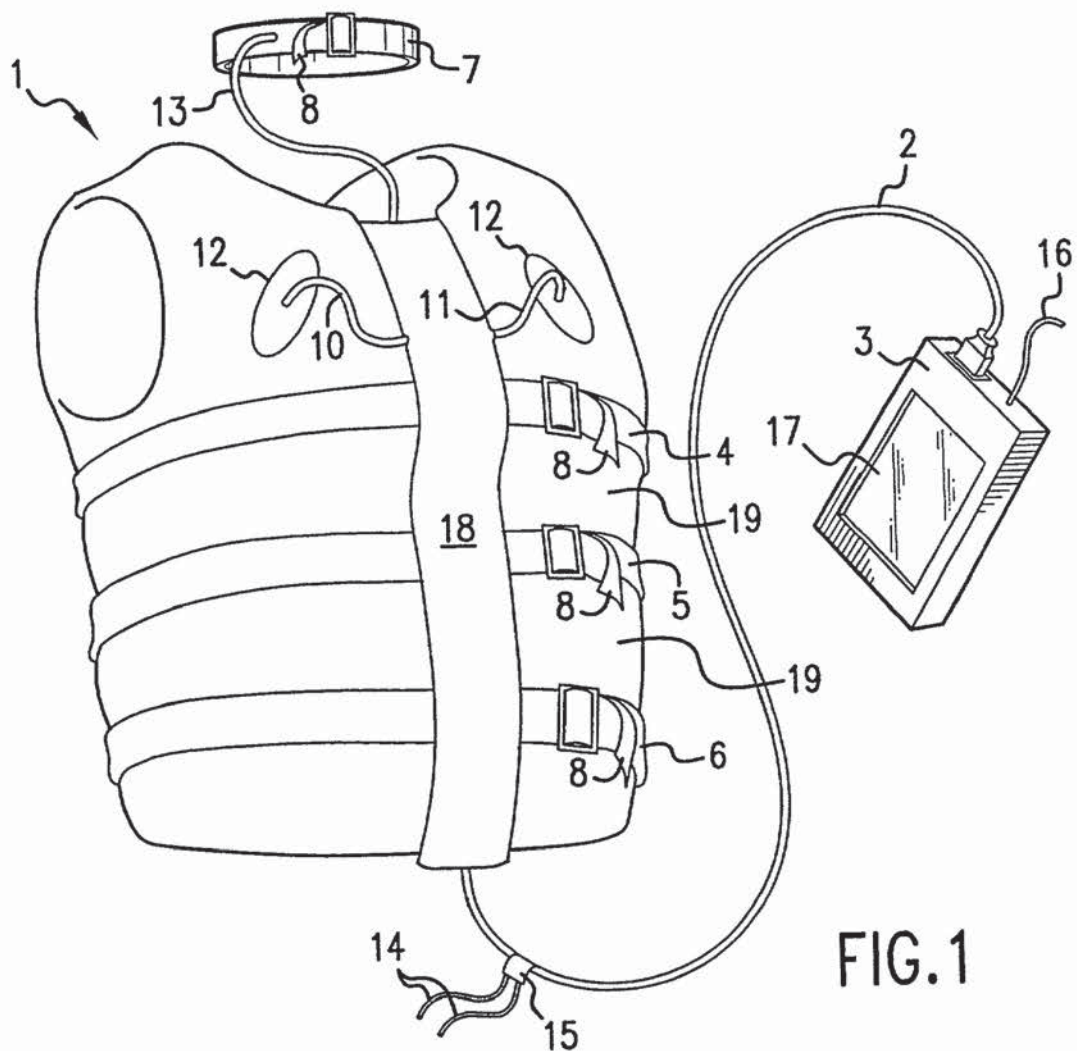


FIG. 1

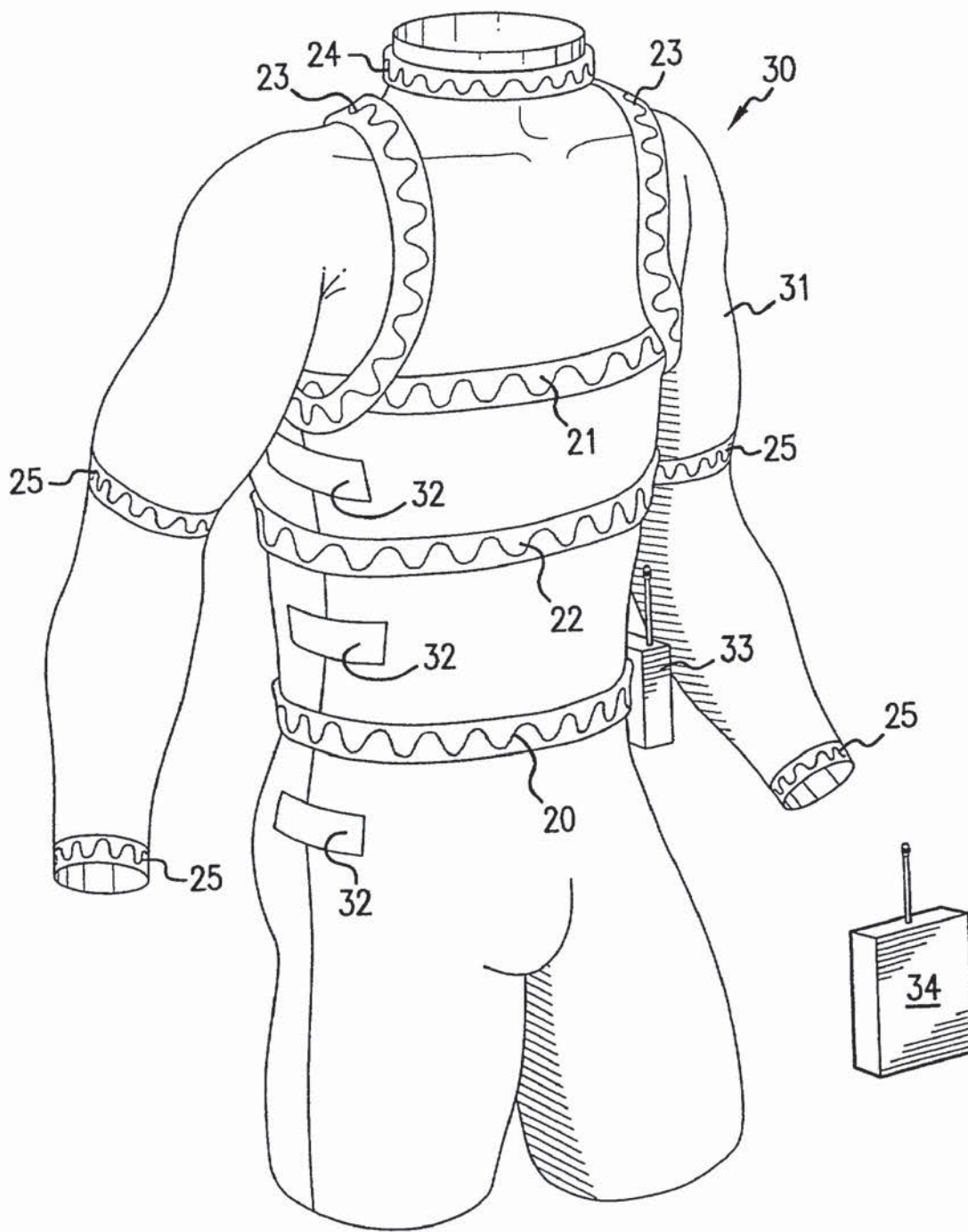


FIG.2

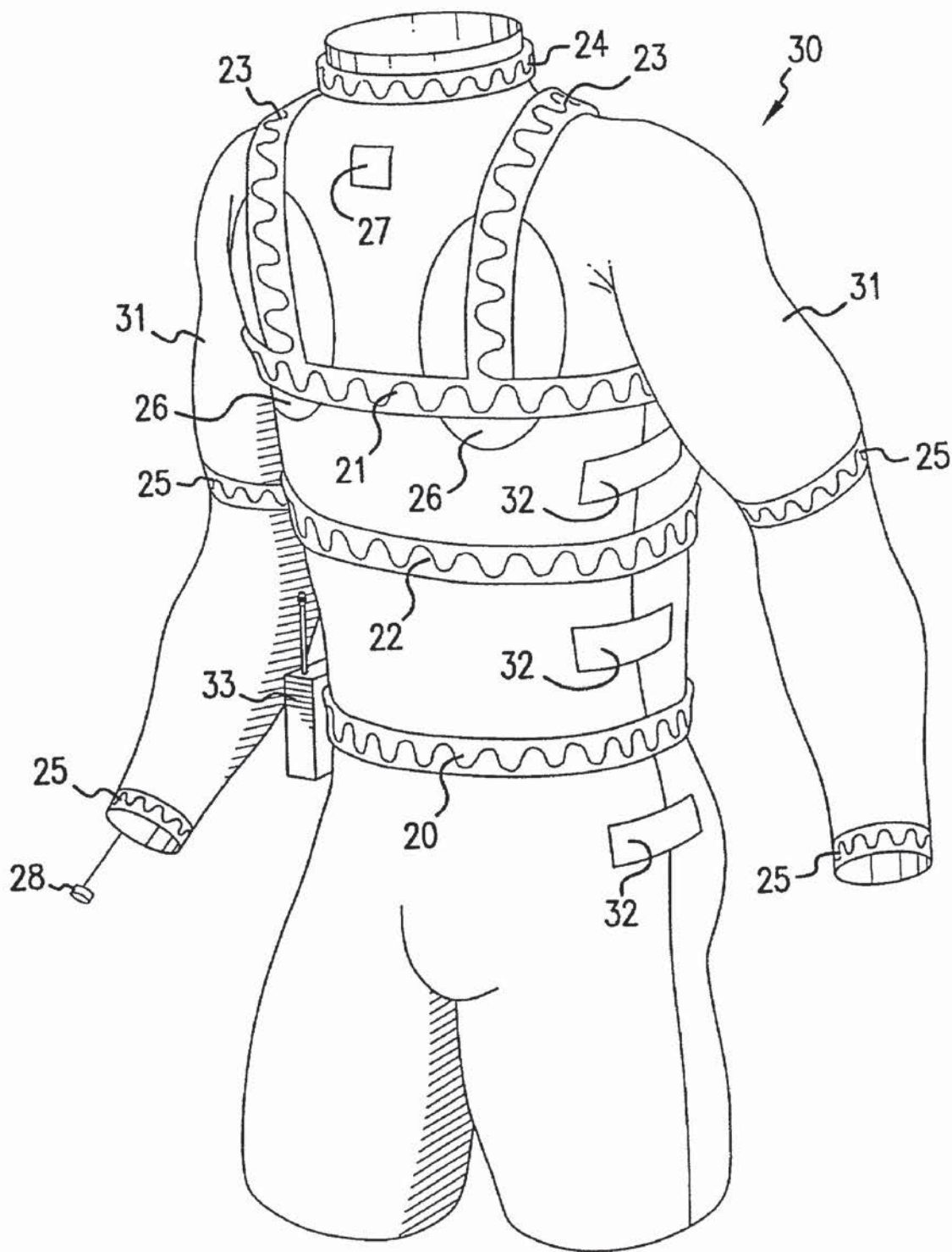
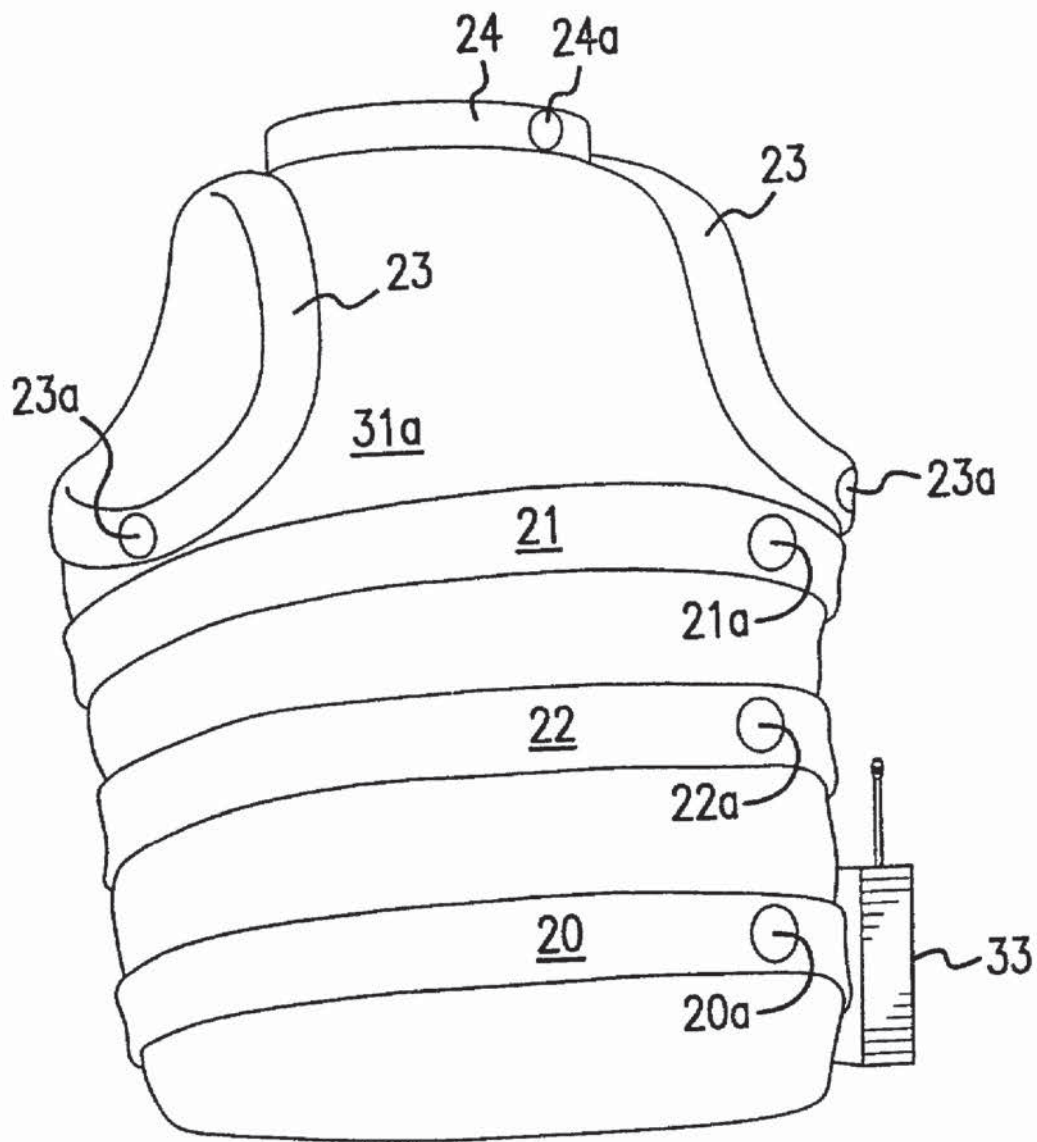


FIG.3



30a

FIG. 4

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.