

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2003/0199950 A1 Stolz et al. (43) **Pub. Date:**

Oct. 23, 2003

(54) IMPLANTABLE LEAD WITH ISOLATED **CONTACT COUPLING**

(76) Inventors: **Brian Stolz**, Bloomington, MN (US); Mary Lee Cole, St. Paul, MN (US); Xavier E. Pardo, Minneapolis, MN (US)

Correspondence Address: MEDTRONIC, INC. 710 MEDTRONIC PARKWAY NE MS-LC340 **MINNEAPOLIS, MN 55432-5604 (US)**

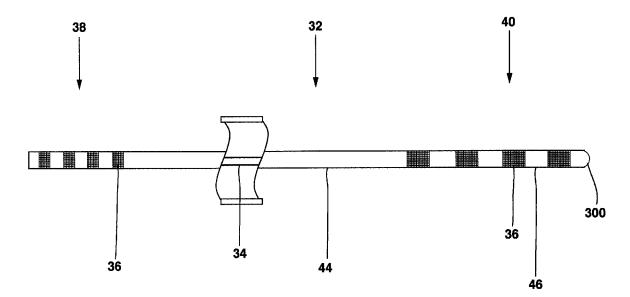
10/128,883 (21) Appl. No.:

(22) Filed: Apr. 22, 2002

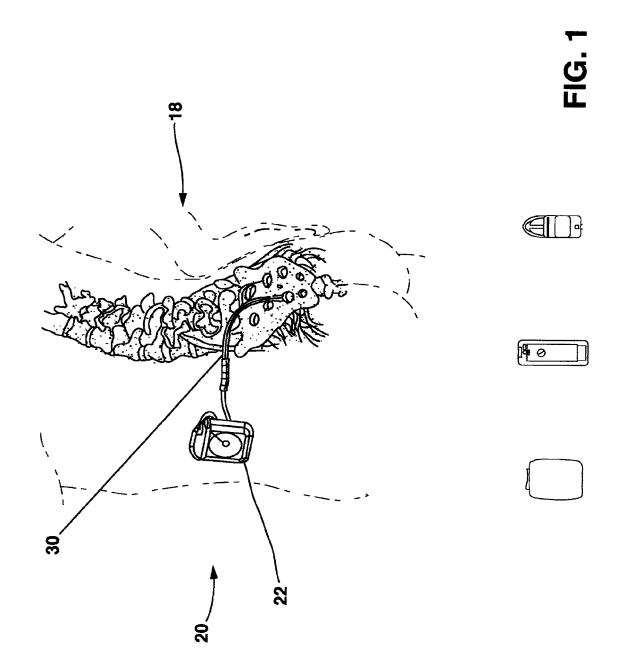
Publication Classification

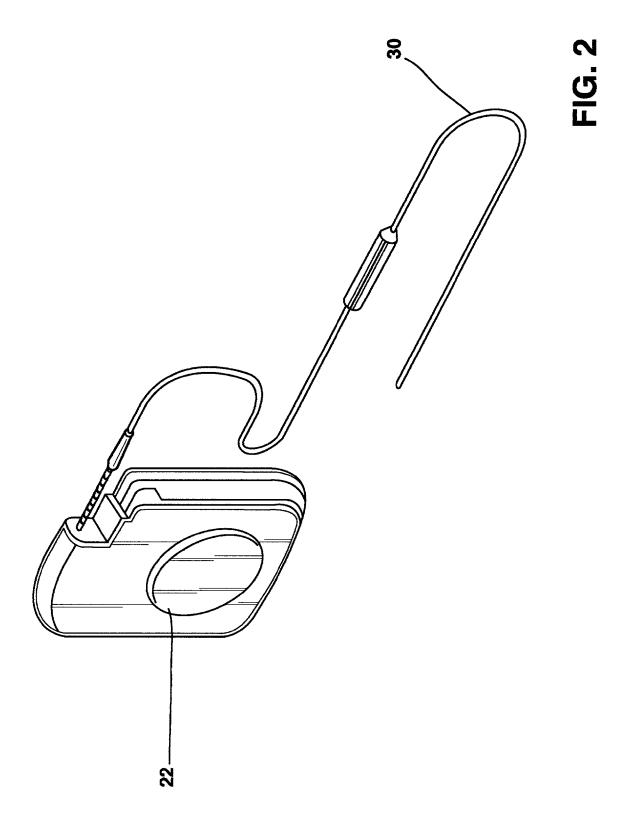
ABSTRACT (57)

An implantable lead for a medical device with an isolated contact connection for connecting a conductor to a contact reduces the opportunity for conductor material to migrate to a contact or into a patient. The implantable lead comprises a lead body having a proximal end and a distal end, at least one conductor, at least one contact carried on the proximal end, at least one contact carried on the distal end, at least one coupling. The lead has an exterior surface. The conductor is contained in the lead body and extends from the lead proximal end to the distal end. The conductor is electrically insulated. The contact carried on the proximal end is electrically connected to the conductor. The coupling has a conductor coupling and a contact coupling. The conductor coupling is placed over the conductor and attached to the conductor. The contact coupling exits the lead body and has a weld to connect the contact coupling to the contact. There is an isolation space created between the conductor and the contact to prevent the weld from containing conductor material.

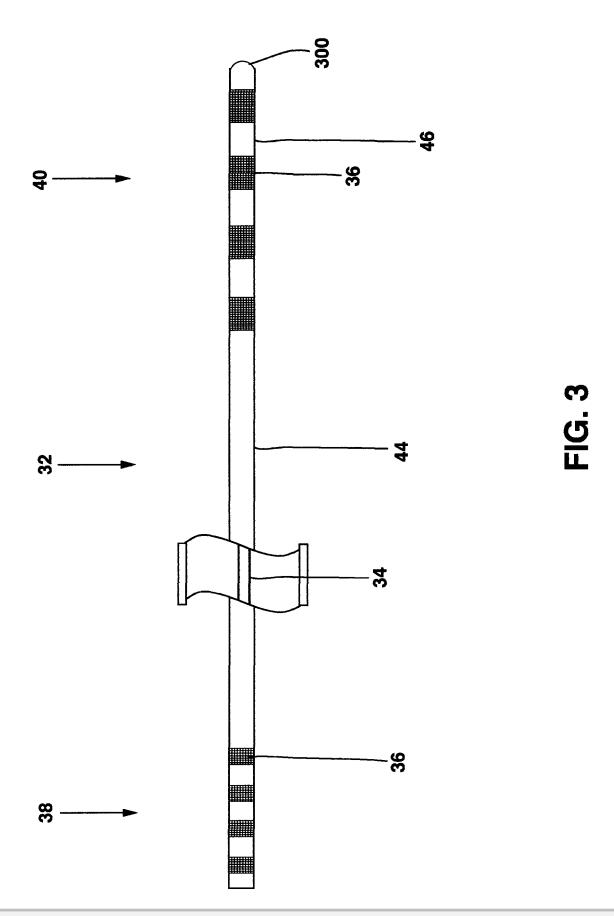




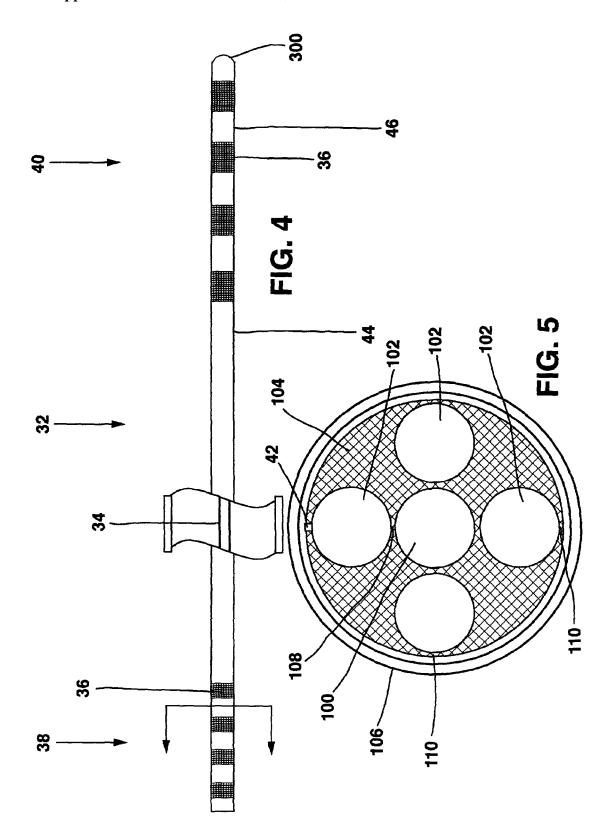














DOCKET

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.

