

US 20070188284A1

(19) United States (12) Patent Application Publication (10) Pub. No.: US 2007/0188284 A1 Dobbs

Aug. 16, 2007 (43) **Pub. Date:**

(54) SHIELDED POWER COUPLING DEVICE

(76) Inventor: John M. Dobbs, Beverly, MA (US)

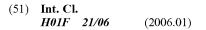
Correspondence Address: **MCDERMOTT WILL & EMERY LLP 28 STATE STREET** BOSTON, MA 02109-1775 (US)

- 11/699,529 (21) Appl. No.:
- (22) Filed: Jan. 29, 2007

Related U.S. Application Data

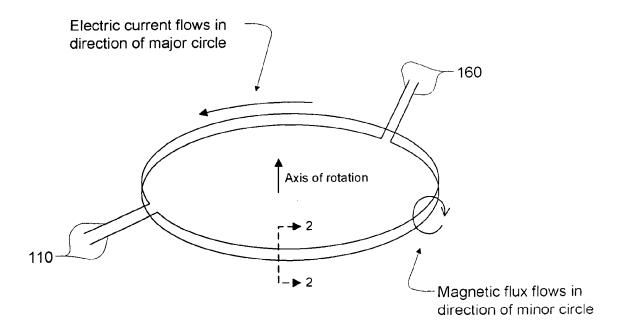
- (63) Continuation-in-part of application No. 10/787,270, filed on Feb. 26, 2004.
- (60) Provisional application No. 60/450,038, filed on Feb. 26, 2003.

Publication Classification



(57)ABSTRACT

Axisymmetric solid of revolution derivable from section at FIG. 5 is generally toroidal with electric current(s) in windings 110, 160 preferably flowing circumferentially along major circle(s) during power coupling device operation. Current(s) in windings 110, 160; current(s) in halfshields 120, 170; and the volume of space swept out by shield airgap(s) 101 emerge from plane of paper perpendicularly at FIG. 5 but as these emerge therefrom they curve to follow toroidal major circle(s). Cores 115, 165 preferably shunt and align magnetic flux such that magnetic field lines escape therefrom primarily only in region(s) of core airgap(s) and such that magnetic flux loops lie in planes of toroidal minor circle(s). Half-shield(s) 120, 170 preferably have electrically conductive material(s) distributed therein as is sufficient to substantially cancel magnetic flux lines impinging thereon before effects of such impinging magnetic flux lines would reach shield airgap(s) 101 and/or outer surface(s) of half-shields 120, 170.



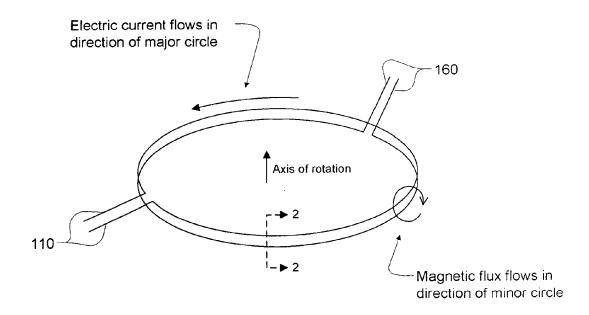
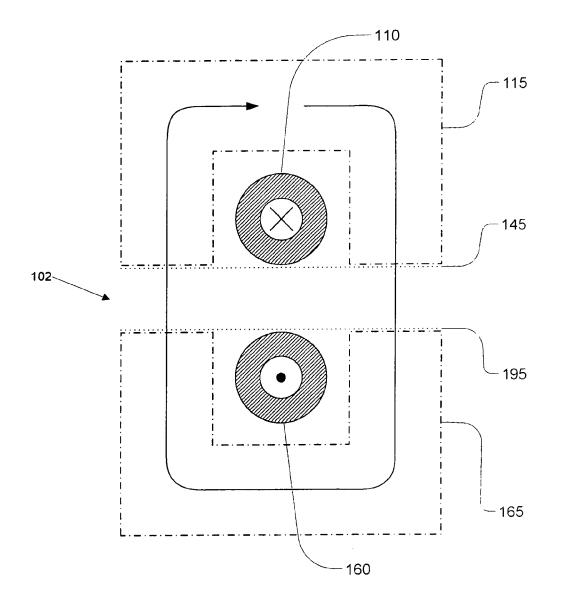


FIG. 1

DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>.





DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>. Ampere's Circuital Law

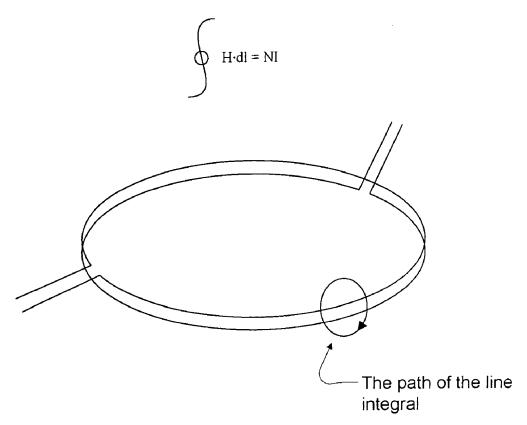


FIG. 3

DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

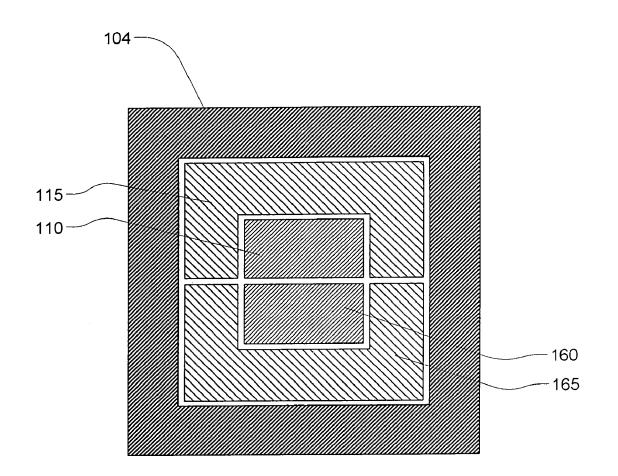


FIG. 4

DOCKET Α RM Α Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

DOCKET A L A R M



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.