



US 20050189910A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2005/0189910 A1**

Hui (43) **Pub. Date: Sep. 1, 2005**

(54) **PLANAR INDUCTIVE BATTERY CHARGER**

Nov. 18, 2002 (GB)..... 0226893.6

Mar. 10, 2003 (GB)..... 0305428.5

(76) Inventor: **Shu-yuen Ron Hui, Hong Kong (HK)**

Publication Classification

Correspondence Address:

**HESLIN ROTHENBERG FARLEY & MESITI
PC
5 COLUMBIA CIRCLE
ALBANY, NY 12203 (US)**

(51) **Int. Cl.⁷ H02J 7/00**

(52) **U.S. Cl. 320/108**

(57) **ABSTRACT**

(21) Appl. No.: **11/009,478**

(22) Filed: **Dec. 10, 2004**

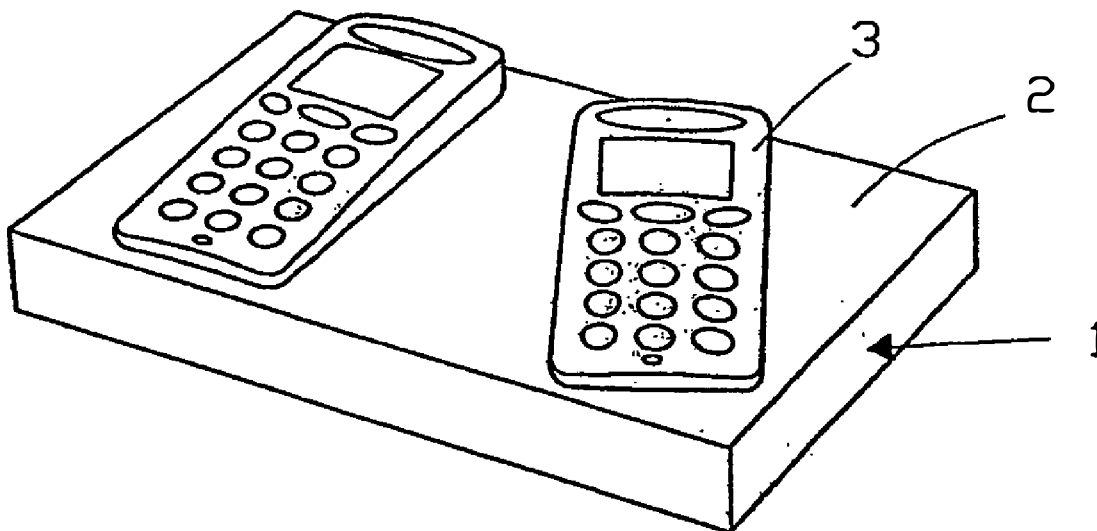
Related U.S. Application Data

(63) Continuation of application No. PCT/AU03/00721, filed on Jun. 10, 2003.

(30) **Foreign Application Priority Data**

Jun. 10, 2002 (GB)..... 0213374.2

There is provided a planar inductive battery charging system designed to enable electronic devices to be recharged. The system includes a planar charging module having a charging surface on which a device to be recharged is placed. Within the charging module and parallel to the charging surface is at least one and preferably an array of primary windings that couple energy inductively to a secondary winding formed in the device to be recharged. The invention also provides secondary modules that allow the system to be used with conventional electronic devices not formed with secondary windings.



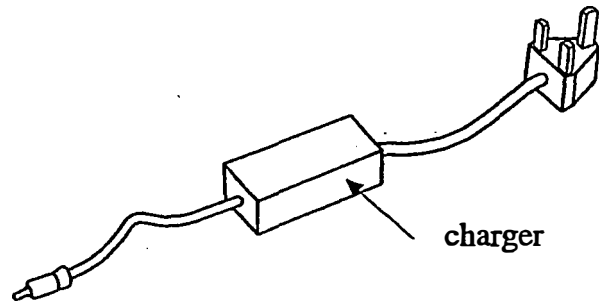


FIG. 1 (PRIOR ART)

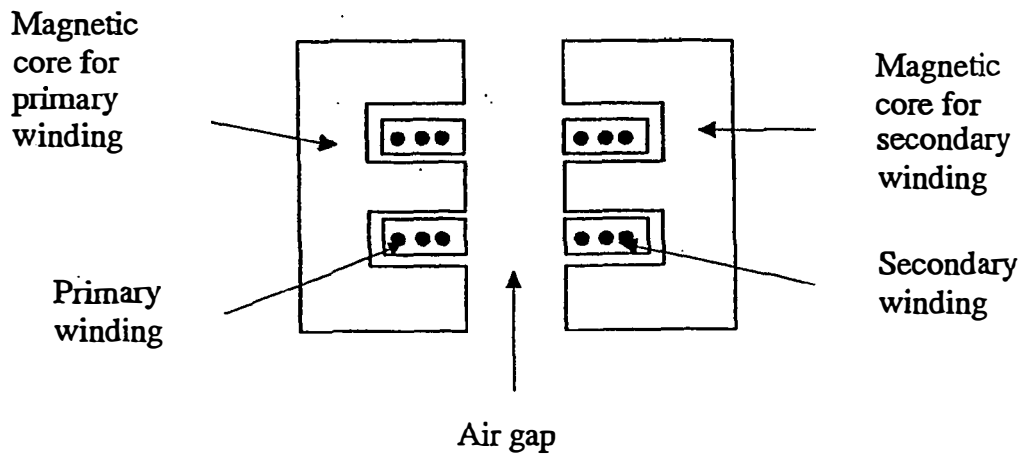


FIG. 2 (PRIOR ART)

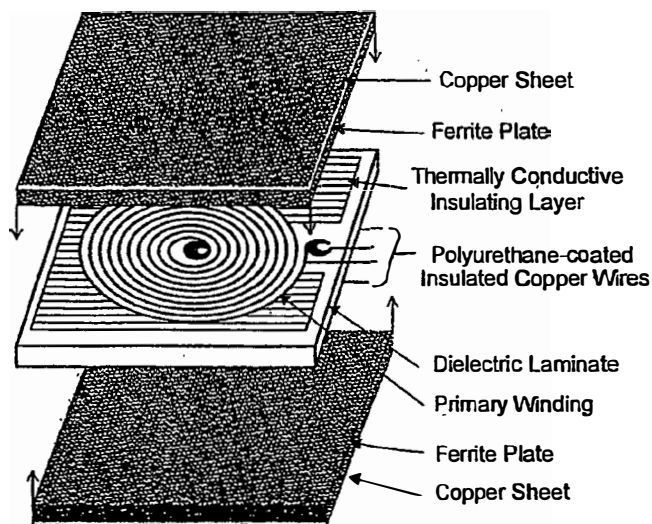


FIG.3 (PRIOR ART)

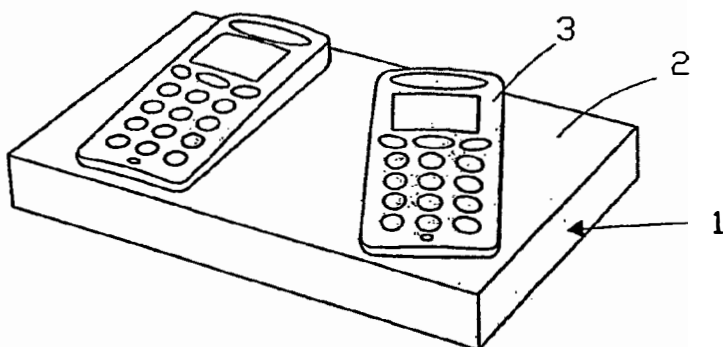


FIG.4(a)

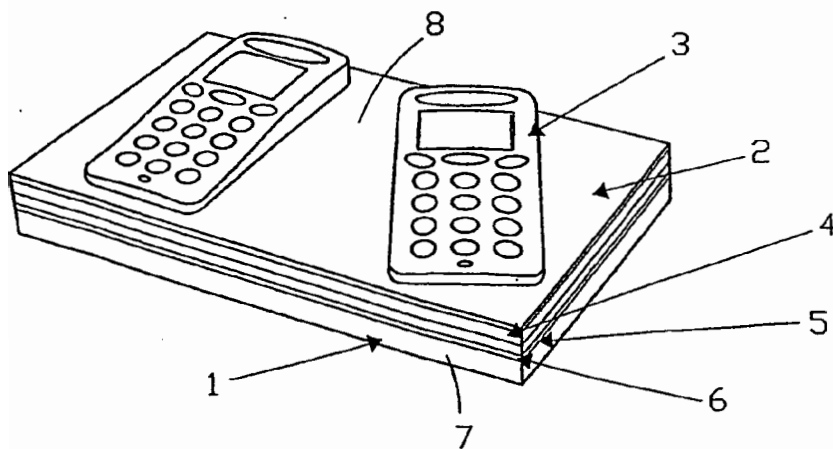


FIG.4(b)

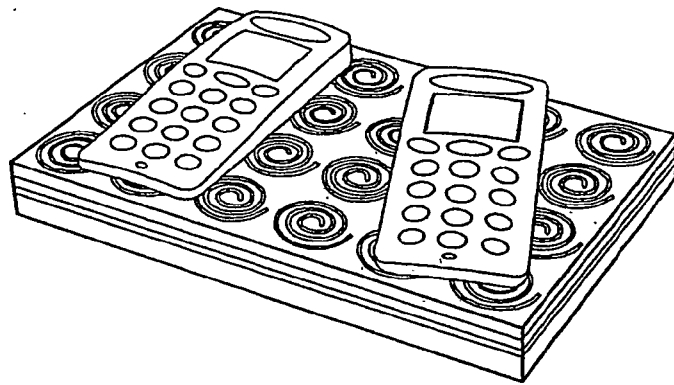


FIG. 4(c)

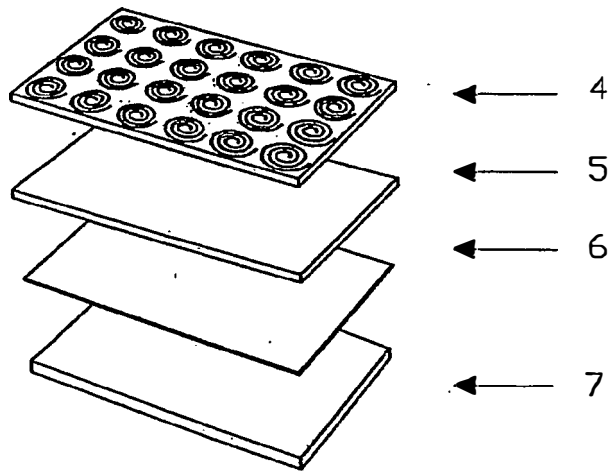


FIG. 5(a)

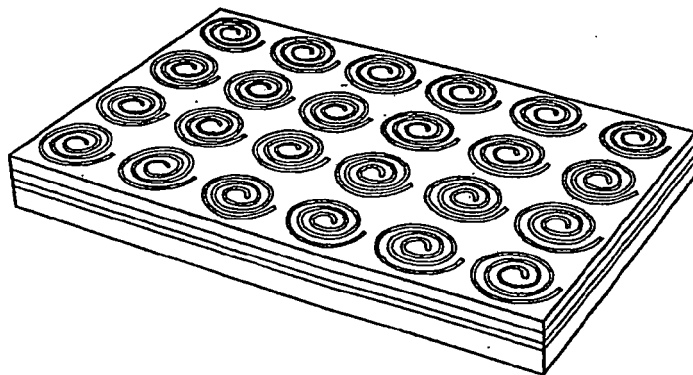


FIG. 5(b)

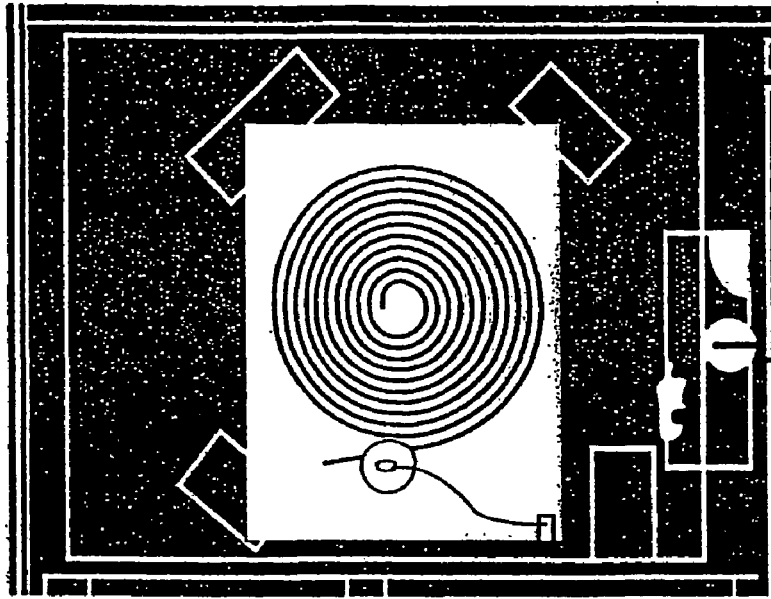


FIG. 6(a)

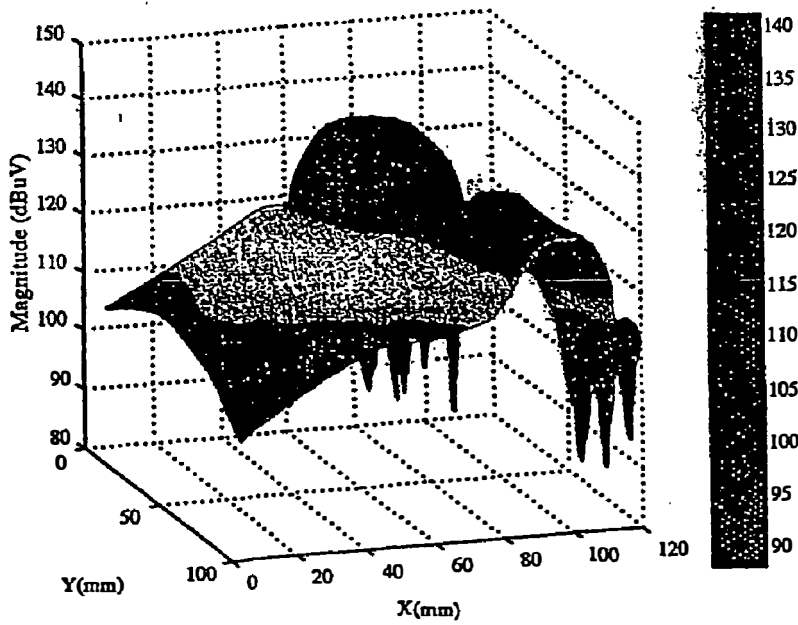


FIG. 6(b)

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.