

short current spikes responds to a timing signal produced by an oscillator by opening and closing a switch to release charge stored in a charge storage device such as an inductor, the released charge comprising a current pulse for application to the battery.

5648715

**METHOD AND APPARATUS FOR
CURRENT COMPENSATION OF A
BATTERY IN A CHARGER**

Patino Joseph; Ford Robert B. Pembroke Pines, FL, UNITED STATES assigned to Motorola Inc

A battery charging system is capable of maintaining a fully charged battery without overcharging or undercharging the battery regardless of the operating mode of the radio. Charging system includes a charger which senses the capacity of the battery through a capacity resistor at a capacity sense terminal. The charger also senses the radio current through the same capacity sense terminal using a current sensing device. Charger continuously compensates for the current drain presented by the radio.

5648716

**POWER CONTROL CIRCUIT FOR A
BATTERY CHARGER**

Devilbiss Roger S; Quisenberry Tony. Dallas, TX, UNITED STATES

A power control circuit for improved charging of a battery. The circuit includes a rectifying device to provide rectified alternating current when receiving an input from an electrical power source; a comparator device; circuitry for providing a predetermined voltage to the inverting input of the comparator device; circuitry for providing a predetermined voltage to the non-inverting input of the comparator device; regulator circuitry whose output is connected to the battery; switching circuitry connected between the regulator circuitry and the rectifying device; and control circuitry which is coupled between the switching circuitry and the output of the comparator device. The control circuitry activates the switching circuitry for a predetermined

time, determined by the output from the comparator device, to allow the rectified alternating current to reach a desired voltage across the regulator circuitry, at which time the control circuitry deactivates the switching circuitry, wherein the value of the desired voltage is determined by the voltage inputs to the comparator device.

5648717

**BATTERY CHARGE GAUGE WITH
CURRENT INTEGRATOR AND METHOD
FOR GAUGING BATTERY CHARGE**

Uskali Bo. Schaumburg, IL, UNITED STATES assigned to Motorola Inc

A method for gauging battery charge in which current flowing from a battery is integrated and a charge counter counts charge. Voltage (V_b) across the battery is measured and compared with a voltage threshold. The counter is reset to a predetermined value when the measured voltage crosses the voltage threshold.

OTHER BATTERIES

5633097

ELECTROCHEMICAL CELLS

Miller William. Alloway, Ayr, UNITED KINGDOM

PCT No. PCT/GB94/00735 Sec. 371 Date Oct. 6, 1995 Sec. 102(e) Date Oct. 6, 1995 PCT Filed Apr. 6, 1994 PCT Pub. No. WO94/23465 PCT Pub. Date Oct. 13, 1994. A method of forming arrays of electrochemical cells, and improved arrays of cells formed thereby, in which layers of electrically conductive material, layers of cathode material and layers of anode material are applied to first and second flexible, electrically insulating surfaces in respective predetermined patterns such that the areas of applied anode and cathode material corresponding to anodes and cathodes of individual cells on each of said surfaces are formed in electrical connection with or isolation from one another by said