

**BATTERY CHARGER FOR
PORTABLE RECHARGEABLE BATTERIES**

ABSTRACT

The method of charging a portable rechargeable battery produces an electrical signal representing the battery output voltage. Rapid charging of the battery is initiated by supplying a high charging current to the battery when a signal representing the battery output voltage drops below a preselected lower threshold. The battery voltage at this lower threshold is high enough to maintain the operation of a device powered by the battery. The rapid charging of the battery is terminated after the signal representing the battery output voltage rises to a preselected upper threshold. The battery voltage at the upper threshold is substantially below the output voltage of a battery that is charged to 100% of its nominal capacity.

This Sheet Has Been Replaced

