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(54) Title: HIGH POWER NICKEL-METAL HYDRIDE BATTERIES AND HIGH POWER ELECTRODES FOR USE THEREIN

(57) Abstract

Nickel-metal hydride batteries and electrodes are capable of increased power output and recharge rates. The electrodes and batteries produced therefrom exhibit increased internal conductance. The positive and negative electrodes may be formed by pressing powdered metal hydride active materials into the porous metal substrates. The substrates are formed from copper, copper-plated nickel, or a copper-nickel alloy, and additionally may be plated with a material which is electrically conductive and resistant to corrosion in the battery environment, such as nickel. The positive electrodes can also include high-conductivity regions on the substrate. These regions have a higher electrical conductivity than the rest of the substrate. Each electrode (1) may include a tab (2), which may be made of nickel, or nickel-plated copper.

