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(21) International Application Number: PCT/US98/01946 (22) International Filing Date: 29 January 1998 (29.01.98) (30) Priority Data: 08/792,359 31 January 1997 (31.01.97) US (71) Applicant: OVONIC BATTERY COMPANY, INC. [US/US]; 1707 Northwood, Troy, MI 48084 (US). (72) Inventors: REICHMAN, Benjamin; 3740 Macnichol Trail, West Bloomfield, MI 48323 (US). VENKATESAN, Srinivasan; 30115 Woodgate Drive, Southfield, MI 48076 (US). OVSHINSKY, Stanford, R.; 2700 Squirrel Road, Bloomfield Hills, MI 48013 (US). FETCENKO, Michael, A.; 426 Daylily Drive, Rochester Hills, MI 48307 (US). (74) Agents: SCHUMAKER, David, W. et al.; Energy Conversion Devices, Inc., 1675 W. Maple Road, Troy, MI 48084 (US).		(81) Designated States: AU, BR, CA, FI, JP, KR, MX, NO, RU, SG, UA, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: NICKEL-METAL HYDRIDE BATTERIES HAVING HIGH POWER ELECTRODES AND LOW-RESISTANCE ELECTRODE CONNECTIONS (57) Abstract Nickel-metal hydride batteries and electrodes capable of increased power output and recharge rates. The positive and negative electrodes (1) may be formed by pressing powdered metal hydride active materials into porous metal substrates. The porous metal substrates are formed from copper, copper-plated nickel, or a copper-nickel alloy. The electrode tabs (2) are directly attached to the porous metal substrate via a connection which includes welding, brazing, or soldering.		