

Title (en)

HIGH POWER NICKEL-METAL HYDRIDE BATTERIES AND HIGH POWER ALLOYS/ELECTRODES FOR USE THEREIN

Title (de)

HOCHLEISTUNGS-NICKEL-METALL-HYDRIDBATTERIEN UND IN DIESE VERWENDETE HOCHLEISTUNGS-LEGIERUNGEN/ELEKTRODEN

Title (fr)

BATTERIES HYBRIDES NICKEL-METAL A PUISSANCE ELEVEE ET ALLIAGES/ELECTRODES A PUISSANCE ELEVEE DESTINES A CELLES-CI

Publication

EP 1315843 A4 20050629 (EN)

Application

EP 01964070 A 20010816

Priority

- US 0125620 W 20010816
- US 64056300 A 20000816

Abstract (en)

[origin: WO0214567A1] A negative electrode alloy material including no noble metals, and having a high discharge capacity at high discharge rates. The alloy comprises in atomic percentage, 15-19 % Zr, 14-18 % Ti, 8-12 % V, 6-10 % Cr, 16-20 % Mn, and 28-33 % Ni.

IPC 1-7

C22C 19/03; **H01M 4/38**

IPC 8 full level

C22C 19/00 (2006.01); **C22C 19/03** (2006.01); **H01M 4/38** (2006.01); **H01M 4/66** (2006.01); **H01M 4/70** (2006.01)

CPC (source: EP)

H01M 4/383 (2013.01); **H01M 4/661** (2013.01); **H01M 4/70** (2013.01); **Y02E 60/10** (2013.01)

Citation (search report)

- [A] WO 0038253 A2 20000629 - OVONIC BATTERY CO [US]
- [A] US 5840440 A 19981124 - OVSHINSKY STANFORD R [US], et al
- [AD] US 4728586 A 19880301 - VENKATESAN SRINI [US], et al
- [A] EP 0552790 A1 19930728 - HITACHI MAXELL [JP]
- [A] DE 19610523 A1 19960919 - SAMSUNG DISPLAY DEVICES CO LTD [KR]
- [A] EP 0761833 A1 19970312 - MITSUBISHI MATERIALS CORP [JP]
- [A] US 5330861 A 19940719 - FETCENKO MICHAEL A [US], et al
- [A] US 5506069 A 19960409 - OVSHINSKY STANFORD R [US], et al
- [A] US 5006328 A 19910409 - HONG KUOCHIH [US]
- [AD] CHUANG H J ET AL: "STUDY OF THE PERFORMANCE OF TI-ZR BASED HYDROGEN STORAGE ALLOYS", JOURNAL OF POWER SOURCES, ELSEVIER SEQUOIA S.A. LAUSANNE, CH, vol. 77, 2 February 1999 (1999-02-02), pages 159 - 163, XP002949097, ISSN: 0378-7753
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 04 30 April 1997 (1997-04-30)
- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 604 (C - 1275) 17 November 1994 (1994-11-17)
- See references of WO 0214567A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 0214567 A1 20020221; AU 8496501 A 20020225; CA 2423529 A1 20020221; EP 1315843 A1 20030604; EP 1315843 A4 20050629; JP 2004506813 A 20040304; JP 4990473 B2 20120801

DOCDB simple family (application)

US 0125620 W 20010816; AU 8496501 A 20010816; CA 2423529 A 20010816; EP 01964070 A 20010816; JP 2002519689 A 20010816