

Title (en)

METHOD FOR REVERSIBLY STORING HYDROGEN ON THE BASIS OF ALKALI METALS AND ALUMINIUM

Title (de)

VERFAHREN ZUR REVERSIBLEN SPEICHERUNG VON WASSERSTOFF AUF DER BASIS VON ALKALIMETALLEN UND ALUMINIUM

Title (fr)

PROCEDE D'ACCUMULATION REVERSIBLE D'HYDROGENE FONDE SUR L'UTILISATION DE METAUX ALCALINS ET D'ALUMINIUM

Publication

**EP 1263676 A1 20021211 (DE)**

Application

**EP 01931491 A 20010302**

Priority

- DE 10012794 A 20000316
- EP 0102363 W 20010302

Abstract (en)

[origin: DE10012794A1] Process for the reversible storage of hydrogen comprises using reversible hydrogen-storage materials containing mixtures of aluminum metal with alkali metals and/or alkali metal hydrides and/or transition metal and/or rare earth metal catalysts.

IPC 1-7

**C01B 3/00**

IPC 8 full level

**F17C 11/00** (2006.01); **B01J 20/04** (2006.01); **B01J 20/34** (2006.01); **B22F 1/00** (2006.01); **C01B 3/00** (2006.01); **C22C 21/00** (2006.01); **C22C 24/00** (2006.01)

CPC (source: EP US)

**C01B 3/0031** (2013.01 - EP US); **Y02E 60/32** (2013.01 - EP US)

Citation (search report)

See references of WO 0168515A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**DE 10012794 A1 20010920**; CA 2403403 A1 20021017; EP 1263676 A1 20021211; JP 2003527280 A 20030916; US 2003053948 A1 20030320; US 6814782 B2 20041109; WO 0168515 A1 20010920

DOCDB simple family (application)

**DE 10012794 A 20000316**; CA 2403403 A 20010302; EP 0102363 W 20010302; EP 01931491 A 20010302; JP 2001567622 A 20010302; US 22146602 A 20020912