

Title (en)

METAL HYDRIDE BED, METAL HYDRIDE CONTAINER, AND METHOD FOR THE MAKING THEREOF

Title (de)

METALLHYDRIDBETT, METALLHYDRIDBEHÄLTER UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

LIT D'HYDRURE MÉTALLIQUE, RÉCIPIENT D'HYDRURE MÉTALLIQUE, ET LEUR PROCÉDÉ DE FABRICATION

Publication

EP 3152475 A1 20170412 (EN)

Application

EP 15806940 A 20150608

Priority

- ZA 201404205 A 20140609
- IB 2015054321 W 20150608

Abstract (en)

[origin: WO2015189758A1] A metal hydride which is disposed in a metal hydride container which includes a mixture of powdered hydride forming material which is able to form hydride when interacting with gaseous hydrogen at pressure higher than the atmospheric pressure at the ambient temperature, and a binder which combines high thermal conductivity, plasticity and high porosity under hydrostatic pressure; and a plurality of heat conductive fins which are disposed in the inner space of a gas-tight containment of the metal hydride container filled with the mixture and have a firm thermal contact with the inner surface of the said space.

IPC 8 full level

B01J 8/02 (2006.01); **F17C 1/00** (2006.01); **F17C 11/00** (2006.01); **F17C 13/00** (2006.01)

CPC (source: EP)

F17C 1/00 (2013.01); **F17C 11/00** (2013.01); **F17C 11/005** (2013.01); **F17C 13/00** (2013.01); **F28D 20/003** (2013.01); **Y02E 60/32** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2015189758 A1 20151217; CN 106687737 A 20170517; CN 106687737 B 20190503; EP 3152475 A1 20170412; EP 3152475 A4 20171220

DOCDB simple family (application)

IB 2015054321 W 20150608; CN 201580031137 A 20150608; EP 15806940 A 20150608