

Title (en)

HYDROGEN STORAGE TANK COMPRISING METAL HYDRIDES WITH HEAT EXCHANGES

Title (de)

WASSERSTOFFSPEICHERTANK MIT METALLHYDRIDEN MIT WÄRMESPEICHERN

Title (fr)

RESERVOIR DE STOCKAGE D'HYDROGENE A HYDRURES METALLIQUES A ECHANGES THERMIQUES

Publication

**EP 3084287 A1 20161026 (FR)**

Application

**EP 14812543 A 20141216**

Priority

- FR 1362782 A 20131217
- EP 2014078064 W 20141216

Abstract (en)

[origin: WO2015091550A1] The invention relates to a tank intended for storing hydrogen by absorption in a hydrogen storage material, including a ferrule (4) with a longitudinal axis (X) closed off at both of the longitudinal ends thereof, a supply of hydrogen, an outlet for the released hydrogen and at least one heat-transfer element (8) mounted transversely in the ferrule (4) and in contact with the inner surface of the ferrule (4), said heat-transfer element having an outer peripheral edge formed by a tab in resilient contact with the inner surface of the ferrule (4) such that the contact between the heat-transfer element (8) and the ferrule (4) is maintained during temperature variations throughout the hydrogen loading and discharging phases, said heat-transfer element (8) being intended for ensuring heat transfers from and towards the storage material intended for being contained in the tank.

IPC 8 full level

**F17C 11/00** (2006.01)

CPC (source: EP US)

**F17C 11/005** (2013.01 - EP US); **F17C 2201/0104** (2013.01 - US); **F17C 2221/012** (2013.01 - US); **F17C 2227/03** (2013.01 - US); **Y02E 60/32** (2013.01 - EP US)

Citation (search report)

See references of WO 2015091550A1

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Designated extension state (EPC)

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DOCDB simple family (publication)

**FR 3014998 A1 20150619**; **FR 3014998 B1 20160122**; CA 2934404 A1 20150625; EP 3084287 A1 20161026; JP 2017503135 A 20170126; US 2016327209 A1 20161110; WO 2015091550 A1 20150625

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