

Title (en)

METHOD AND DEVICE FOR FILLING A HYDROGEN TANK

Title (de)

VERFAHREN UND VORRICHTUNG ZUM FÜLLEN EINES WASSERSTOFFTANKS

Title (fr)

PROCÉDÉ ET UN DISPOSITIF DE REMPLISSAGE DE RÉSERVOIR D'HYDROGÈNE

Publication

EP 3254015 A1 20171213 (FR)

Application

EP 16707847 A 20160128

Priority

- FR 1550847 A 20150204
- FR 2016050178 W 20160128

Abstract (en)

[origin: CA2975581A1] A method for filling a tank (1) with pressurised gaseous hydrogen from at least one source storage (2) containing pressurised gaseous hydrogen at a first defined temperature and at a defined pressure higher than the pressure in the tank (1) to be filled, in which hydrogen is transferred from the source storage (2) to the tank (1) by pressure balancing via a filling circuit (3) having an upstream end linked to the source storage (2) and a downstream end linked to the tank (1), and in which the at least one source storage (2) exchanges heat with a member (6) for heating the gas stored in the source storage (2), during at least a part of the transfer of hydrogen from the source storage (2) to the tank (1), the gas contained in the source storage (2) being heated to a second defined temperature that is higher than the first temperature.

IPC 8 full level

F17C 5/00 (2006.01); **F17C 5/06** (2006.01); **F17C 7/00** (2006.01)

CPC (source: CN EP US)

F17C 5/007 (2013.01 - CN EP US); **F17C 5/04** (2013.01 - US); **F17C 5/06** (2013.01 - CN EP US); **F17C 7/00** (2013.01 - CN EP US); **F17C 13/02** (2013.01 - US); **G05D 23/2033** (2013.01 - US); **F17C 2205/0326** (2013.01 - CN EP US); **F17C 2221/012** (2013.01 - CN EP US); **F17C 2223/0123** (2013.01 - CN EP US); **F17C 2223/036** (2013.01 - CN EP US); **F17C 2225/0123** (2013.01 - CN EP US); **F17C 2225/036** (2013.01 - CN EP US); **F17C 2227/0157** (2013.01 - CN EP US); **F17C 2227/0309** (2013.01 - CN EP US); **F17C 2227/0341** (2013.01 - CN EP US); **F17C 2227/0372** (2013.01 - CN EP US); **F17C 2227/0388** (2013.01 - CN EP US); **F17C 2250/032** (2013.01 - CN EP US); **F17C 2250/043** (2013.01 - CN EP US); **F17C 2250/0434** (2013.01 - CN EP US); **F17C 2250/0491** (2013.01 - CN EP US); **F17C 2250/0626** (2013.01 - CN EP US); **F17C 2250/0631** (2013.01 - CN EP US); **F17C 2250/0636** (2013.01 - CN EP US); **F17C 2250/072** (2013.01 - CN EP US); **F17C 2260/025** (2013.01 - CN EP US); **F17C 2265/065** (2013.01 - CN EP US); **F17C 2270/0139** (2013.01 - CN EP US); **Y02E 60/32** (2013.01 - EP US); **Y02P 90/45** (2015.11 - EP US)

Citation (search report)

See references of WO 2016124838A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3032257 A1 20160805; **FR 3032257 B1 20170714**; CA 2975581 A1 20160811; CN 107208840 A 20170926; CN 107208840 B 20190531; EP 3254015 A1 20171213; JP 2018505360 A 20180222; JP 6692824 B2 20200513; US 10451219 B2 20191022; US 2018023763 A1 20180125; WO 2016124838 A1 20160811

DOCDB simple family (application)

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