

Title (en)
FILLING DEVICE FOR HYDROGEN TANKS, HYDROGEN TANK HAVING THE FILLING DEVICE, AND METHOD FOR FILLING A HYDROGEN TANK

Title (de)
BEFÜLLVORRICHTUNG FÜR WASSERSTOFFTANKS, WASSERSTOFFTANK AUFWEISEND DIE BEFÜLLVORRICHTUNG SOWIE VERFAHREN ZUR BEFÜLLUNG EINES WASSERSTOFFTANKS

Title (fr)
DISPOSITIF DE REMPLISSAGE POUR RÉSERVOIRS D'HYDROGÈNE, RÉSERVOIR D'HYDROGÈNE DOTÉ DU DISPOSITIF DE REMPLISSAGE ET PROCÉDÉ DE REMPLISSAGE D'UN RÉSERVOIR D'HYDROGÈNE

Publication
EP 4285048 A1 20231206 (DE)

Application
EP 22751082 A 20220718

Priority
• DE 102021207716 A 20210720
• EP 2022070023 W 20220718

Abstract (en)
[origin: CN216591036U] The utility model relates to filling equipment, which is used for filling a storage container with compressed hydrogen and comprises a main body, a tube which is designed to extend in the axial direction of the storage container in a state of being introduced into the storage container and to introduce hydrogen into the storage container; a discharge nozzle provided at one end of the tube and for discharging hydrogen into the storage container; and at least one opening, which is introduced into the body and/or the tube and is designed to induce a suction action on the hydrogen already present in the storage container when the hydrogen flows into the storage container, whereby a circulation of the hydrogen present in the storage container can be produced. The utility model further relates to a storage container with the filling equipment.

IPC 8 full level
F17C 13/04 (2006.01)

CPC (source: EP)
F17C 13/04 (2013.01); **F17C 2205/0323** (2013.01); **F17C 2205/0326** (2013.01); **F17C 2205/0332** (2013.01); **F17C 2205/0335** (2013.01); **F17C 2205/0385** (2013.01); **F17C 2205/0394** (2013.01); **F17C 2221/012** (2013.01); **F17C 2223/0123** (2013.01); **F17C 2223/036** (2013.01); **F17C 2227/0114** (2013.01); **F17C 2250/03** (2013.01); **F17C 2250/043** (2013.01); **F17C 2250/0439** (2013.01); **F17C 2260/023** (2013.01); **F17C 2265/065** (2013.01); **F17C 2270/0178** (2013.01); **Y02E 60/32** (2013.01); **Y02P 90/45** (2015.11)

Citation (search report)
See references of WO 2023001744A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102021207716 A1 20230126; AU 2022315500 A1 20240201; CN 115638364 A 20230124; CN 216591036 U 20220524; EP 4285048 A1 20231206; WO 2023001744 A1 20230126

DOCDB simple family (application)
DE 102021207716 A 20210720; AU 2022315500 A 20220718; CN 202110976229 A 20210824; CN 202122006111 U 20210824; EP 2022070023 W 20220718; EP 22751082 A 20220718