

Title (en)

DEVICE FOR FUELLING MOTOR VEHICLES WITH LIQUEFIED GAS

Title (de)

EINRICHTUNG ZUM BETANKEN VON KRAFTFAHRZEUGEN MIT VERFLÜSSIGTEM GAS

Title (fr)

DISPOSITIF DE RAVITAILLEMENT DE VÉHICULES À MOTEUR EN GAZ LIQUÉFIÉ

Publication

EP 3371506 A1 20180912 (DE)

Application

EP 16788660 A 20161026

Priority

- DE 102015118830 A 20151103
- EP 2016075730 W 20161026

Abstract (en)

[origin: WO2017076706A1] The invention relates to a device for fuelling land vehicles and watercraft with a liquefied gas, in particular liquid natural gas (LNG), serving as a fuel. A line (5) configured as a corrugated pipe is arranged between a respective fuelling device, configured as a filling point, which is correspondingly equipped in a manner known per se for the various types of motor vehicles. The line (5) has a media-channelling central pipeline (6) as medium pipe through which the fuel can be delivered from a storage tank to the respective fuelling device. The central pipeline (6) is concentrically enclosed by two further media-channelling pipelines (7, 8), with the result that two media-channelling annular spaces (9, 10) are obtained. Finally, there is additionally provided an outer jacket pipe (11) as outer pipe which encloses an annular insulating material (12) between the outer annular space (10) and the jacket pipe (11) so as to thermally insulate the line (5). Since the central pipeline (6) and the two media-channelling annular spaces (9, 10) are separated only by the wall surface of the respective pipelines (6, 7), but not thermally insulated, heat is removed from the medium channelled in the annular spaces (9, 10) by the fuel channelled in the central pipeline (6) and said medium is correspondingly cooled.

IPC 8 full level

F17C 5/04 (2006.01)

CPC (source: EP US)

B67D 7/0478 (2013.01 - US); **B67D 7/54** (2013.01 - US); **B67D 7/78** (2013.01 - US); **F17C 5/04** (2013.01 - EP US); **F17C 2205/0355** (2013.01 - EP US); **F17C 2205/0358** (2013.01 - EP US); **F17C 2205/0361** (2013.01 - EP US); **F17C 2205/0364** (2013.01 - EP US); **F17C 2221/033** (2013.01 - EP US); **F17C 2223/0123** (2013.01 - EP US); **F17C 2223/0161** (2013.01 - EP US); **F17C 2260/036** (2013.01 - EP US); **F17C 2260/038** (2013.01 - EP US); **F17C 2265/032** (2013.01 - EP US); **F17C 2265/065** (2013.01 - EP US)

Citation (search report)

See references of WO 2017076706A1

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)

DE 102015118830 A1 20170504; EP 3371506 A1 20180912; EP 3371506 B1 20201216; EP 3371506 B8 20210317; PL 3371506 T3 20211011; US 10793417 B2 20201006; US 2018312390 A1 20181101; WO 2017076706 A1 20170511

DOCDB simple family (application)

DE 102015118830 A 20151103; EP 16788660 A 20161026; EP 2016075730 W 20161026; PL 16788660 T 20161026; US 201615771093 A 20161026