

Title (en)

HEATING DEVICE FOR INSTALLATION IN A VEHICLE TANK FOR REDUCING AGENT AND VEHICLE TANK

Title (de)

HEIZVORRICHTUNG ZUM EINBAU IN EINEN FAHRZEUGTANK FÜR REDUKTIONSMITTEL UND FAHRZEUGTANK

Title (fr)

DISPOSITIF DE CHAUFFAGE DESTINÉ À ÊTRE MONTÉ DANS UN RÉSERVOIR DE VÉHICULE POUR UN AGENT DE RÉDUCTION ET RÉSERVOIR DE VÉHICULE

Publication

EP 3861202 A1 20210811 (DE)

Application

EP 19782575 A 20191001

Priority

- DE 102018216929 A 20181002
- EP 2019076575 W 20191001

Abstract (en)

[origin: WO2020070117A1] The invention relates to a heating device (1) for installation in a vehicle tank (11) for reducing agent (14) which can be introduced into an exhaust gas system of a motor vehicle for exhaust gas aftertreatment. The heating device (1) comprises at least one electrical heating element (2) and a heat distribution body (4), the at least one electrical heating element (2) comprising a PTC heating element (3), and the PTC heating element (3) being arranged in heat-conducting contact with the heat distribution body (4). According to the invention, the heat distribution body (4) has a heat conducting device (6) which is designed to distribute heat from the PTC heating element (3) in a targeted manner within the heat distribution body (4). The invention further relates to a vehicle tank (11) having such a heating device (1).

IPC 8 full level

F01N 3/20 (2006.01); **H05B 3/82** (2006.01)

CPC (source: EP KR US)

F01N 3/2066 (2013.01 - EP KR US); **F24H 1/009** (2013.01 - US); **F24H 1/202** (2013.01 - US); **F24H 9/1827** (2013.01 - US); **H05B 3/82** (2013.01 - EP KR); **F01N 2610/02** (2013.01 - EP KR); **F01N 2610/10** (2013.01 - EP KR US); **F01N 2610/1406** (2013.01 - EP KR US); **F24H 2250/04** (2013.01 - US); **H05B 2203/02** (2013.01 - EP); **H05B 2203/021** (2013.01 - EP KR); **Y02A 50/20** (2017.12 - EP KR); **Y02T 10/12** (2013.01 - EP KR)

Citation (search report)

See references of WO 2020070117A1

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 102018216929 A1 20200402; CN 112789397 A 20210511; EP 3861202 A1 20210811; KR 102498925 B1 20230210; KR 20210064313 A 20210602; US 2021215080 A1 20210715; WO 2020070117 A1 20200409

DOCDB simple family (application)

DE 102018216929 A 20181002; CN 201980065208 A 20191001; EP 19782575 A 20191001; EP 2019076575 W 20191001; KR 20217012122 A 20191001; US 202117213531 A 20210326