

Title (en)

BATTERY HOUSING ASSEMBLY WITH HEAT TRANSFER DEVICE, AND TRACTION BATTERY WITH BATTERY HOUSING ASSEMBLY

Title (de)

BATTERIEGEHÄUSEANORDNUNG MIT WÄRMEÜBERTRAGUNGSEINRICHTUNG UND TRAKTIONSBATTERIE MIT BATTERIEGEHÄUSEANORDNUNG

Title (fr)

AGENCEMENT DE BOÎTIER DE BATTERIE AYANT UN DISPOSITIF DE TRANSFERT THERMIQUE ET BATTERIE DE TRACTION AVEC AGENCEMENT DE BOÎTIER DE BATTERIE

Publication

EP 3959771 A1 20220302 (DE)

Application

EP 20710485 A 20200309

Priority

- DE 102019110613 A 20190424
- EP 2020056170 W 20200309

Abstract (en)

[origin: WO2020216516A1] The invention relates to a battery housing assembly (2), in particular in the form of a battery housing assembly (2) of a vehicle traction battery (1) which can be temperature-controlled using a fluid, comprising - a battery housing (4) which encloses an interior (5) for receiving a plurality of battery cells (3); and - a heat transfer device (6) which has an inlet (19), an outlet (20), and at least one fluid channel (7) arranged fluidically between the inlet and the outlet, wherein the fluid (8) can flow through the heat transfer device (6) from the inlet (19) to the outlet (20) via the at least one fluid channel (7), and - the at least one fluid channel (7) is arranged in the interior (5), and the contact side (10) of the fluid channel can be pressed against at least one contact element (9) for the battery cells (3) in order to transfer heat; and - at least one expansion element (11) which undergoes an expansion when the fluid (8) in the heat transfer device (6) is pressurized in order to press the at least one fluid channel (7) against the at least one contact element (9) by pressing on a support surface (16).

IPC 8 full level

H01M 10/6556 (2014.01); **H01M 10/6567** (2014.01); **H01M 50/204** (2021.01)

CPC (source: EP US)

H01M 10/613 (2015.04 - EP US); **H01M 10/625** (2015.04 - US); **H01M 10/6556** (2015.04 - US); **H01M 10/6557** (2015.04 - EP); **H01M 10/6567** (2015.04 - EP US); **H01M 50/204** (2021.01 - EP US); **H01M 10/625** (2015.04 - EP); **H01M 2220/20** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP)

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)

WO 2020216516 A1 20201029; CN 113728491 A 20211130; CN 113728491 B 20231222; DE 102019110613 A1 20201029; EP 3959771 A1 20220302; JP 2022530425 A 20220629; JP 7314308 B2 20230725; US 2022216538 A1 20220707

DOCDB simple family (application)

EP 2020056170 W 20200309; CN 202080031033 A 20200309; DE 102019110613 A 20190424; EP 20710485 A 20200309; JP 2021563092 A 20200309; US 202017605905 A 20200309