

Title (en)
BATTERY MODULE

Title (de)
BATTERIEMODUL

Title (fr)
MODULE DE BATTERIE

Publication
EP 3948972 A1 20220209 (DE)

Application
EP 20703369 A 20200121

Priority
• AT 502592019 A 20190326
• AT 2020060014 W 20200121

Abstract (en)
[origin: WO2020191419A1] A battery module is described with a main part (1) for receiving individual battery cells (4) arranged in parallel with respect to a joining axis (2), which main part forms a flow channel (6), extending transversely to the joining axis (2), for a temperature-control fluid flowing directly against the cell shells of the battery cells (4). In order not only to reduce the risk of thermal damage to individual battery cells (4) during peak loads, but also to prevent the spread of a chain reaction in the event of a thermal runaway failure, according to the invention, for each battery cell (4), a burst protection sleeve (7, 8) which surrounds the battery cell (4) circumferentially with a clearance, forming an air gap (10), is mounted upstream and downstream of the flow channel (6) in the direction of the joining axis (2), the flow channel (6) extending over a height of 28 - 60% of the battery cell (4) and each burst protection sleeve (7, 8) extending over a height of 20 - 36% of the battery cell (4).

IPC 8 full level
H01M 10/613 (2014.01); **H01M 50/213** (2021.01); **H01M 50/289** (2021.01); **H01M 50/503** (2021.01); **H01M 50/509** (2021.01);
H01M 50/529 (2021.01)

CPC (source: AT EP US)
H01M 10/60 (2015.04 - AT); **H01M 10/613** (2015.04 - EP); **H01M 10/643** (2015.04 - AT US); **H01M 10/6556** (2015.04 - US);
H01M 50/213 (2021.01 - AT EP US); **H01M 50/242** (2021.01 - US); **H01M 50/289** (2021.01 - AT EP US); **H01M 50/30** (2021.01 - AT US);
H01M 50/503 (2021.01 - AT EP US); **H01M 50/509** (2021.01 - AT EP US); **H01M 10/643** (2015.04 - EP); **H01M 10/6563** (2015.04 - EP);
H01M 50/529 (2021.01 - AT); **H01M 2200/00** (2013.01 - AT EP US); **Y02E 60/10** (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 2020191419 A1 20201001; AT 521705 A4 20200415; AT 521705 B1 20200415; CN 113614988 A 20211105; EP 3948972 A1 20220209;
JP 2022526294 A 20220524; JP 7495946 B2 20240605; US 12095064 B2 20240917; US 2022181717 A1 20220609

DOCDB simple family (application)
AT 2020060014 W 20200121; AT 502592019 A 20190326; CN 202080022635 A 20200121; EP 20703369 A 20200121;
JP 2021556455 A 20200121; US 202017598260 A 20200121