

Title (en)

BATTERY BOX WITH REINFORCEMENT ELEMENT

Title (de)

BATTERIEKASTEN MIT VERSTÄRKUNGSELEMENT

Title (fr)

BOÎTIER DE BATTERIE À ÉLÉMENT DE RENFORCEMENT

Publication

EP 3811435 A1 20210428 (DE)

Application

EP 19756116 A 20190801

Priority

- DE 102018120268 A 20180821
- EP 2019070799 W 20190801

Abstract (en)

[origin: WO2020038698A1] The invention relates to a battery box for a motor vehicle for receiving battery cells, having a structural frame with at least two structural components joined to one another at the end face. Each structural component has at least one profile segment that is partially hollow and has a substantially L-shaped cross-section. A reinforcement element for absorbing collision energy in the event of a collision is arranged within at least one of the profile segments. The reinforcement element is a moulded part having a plurality of open cells, which are arranged adjacent to one another and with their longitudinal extent substantially parallel to one another. When the battery box is mounted in the motor vehicle, the open cells are oriented with their longitudinal extent substantially parallel to the transverse direction of the vehicle.

IPC 8 full level

B60K 1/04 (2019.01); **H01M 50/209** (2021.01); **H01M 50/242** (2021.01); **H01M 50/249** (2021.01); **H01M 50/262** (2021.01)

CPC (source: EP US)

B60K 1/04 (2013.01 - EP US); **B62D 21/15** (2013.01 - US); **B62D 25/20** (2013.01 - US); **H01M 50/209** (2021.01 - EP US); **H01M 50/24** (2021.01 - US); **H01M 50/242** (2021.01 - EP US); **H01M 50/249** (2021.01 - EP US); **H01M 50/262** (2021.01 - EP US); **B60K 2001/0438** (2013.01 - EP US); **B60Y 2306/01** (2013.01 - EP US); **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)

DE 102018120268 A1 20200227; CN 112585805 A 20210330; CN 112585805 B 20240305; EP 3811435 A1 20210428; US 11518227 B2 20221206; US 2021170853 A1 20210610; WO 2020038698 A1 20200227

DOCDB simple family (application)

DE 102018120268 A 20180821; CN 201980054583 A 20190801; EP 19756116 A 20190801; EP 2019070799 W 20190801; US 201917268627 A 20190801