

Title (en)

MOTOR VEHICLE EQUIPPED WITH AN IMPACT PROTECTION DEVICE FOR UNDERFLOOR ELEMENTS

Title (de)

KRAFTFAHRZEUG MIT EINER AUFPRALLSCHUTZVORRICHTUNG FÜR UNTERBODENELEMENTE

Title (fr)

VÉHICULE AUTOMOBILE ÉQUIPÉ D'UN DISPOSITIF DE PROTECTION CONTRE LES CHOCS DES ÉLÉMENTS SOUS PLANCHER

Publication

EP 3934940 A1 20220112 (FR)

Application

EP 20709275 A 20200205

Priority

- FR 1902308 A 20190307
- FR 2020050190 W 20200205

Abstract (en)

[origin: WO2020178493A1] The invention concerns a motor vehicle comprising an impact protection device for a battery (1) mounted under the floor of said vehicle and separated from an exhaust silencer (2) by an intermediate heat shield (3), characterised in that said device comprises a cushion (4) fastened opposite the battery (1) on said heat shield (3), the cushion (4) being able to deform when the silencer (2) moves forwards contacting the battery (1), in order to absorb the kinetic energy resulting from an impact on the vehicle.

IPC 8 full level

B60R 13/08 (2006.01); **B60K 13/04** (2006.01); **H01M 10/658** (2014.01)

CPC (source: EP US)

B60K 1/04 (2013.01 - EP US); **B60K 13/04** (2013.01 - EP); **B60R 13/0869** (2013.01 - EP); **B60R 13/0876** (2013.01 - EP);
F01N 3/00 (2013.01 - EP); **H01M 10/658** (2015.04 - EP); B60K 13/04 (2013.01 - US); **B60K 2001/0416** (2013.01 - EP);
B60K 2001/0438 (2013.01 - US); B60R 13/0869 (2013.01 - US); **B60R 13/0876** (2013.01 - US); **B60Y 2306/01** (2013.01 - EP);
F01N 2260/20 (2013.01 - EP); **Y02E 60/10** (2013.01 - EP); **Y02T 10/12** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP)

Citation (search report)

See references of WO 2020178493A1

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 2020178493 A1 20200910; CN 113557175 A 20211026; EP 3934940 A1 20220112; FR 3093481 A1 20200911; FR 3093481 B1 20210219;
US 11299025 B2 20220412; US 2022080819 A1 20220317

DOCDB simple family (application)

FR 2020050190 W 20200205; CN 202080019245 A 20200205; EP 20709275 A 20200205; FR 1902308 A 20190307;
US 202017435336 A 20200205