

Title (en)

CAP ASSEMBLY FOR A BATTERY CELL HAVING ELECTRONIC SAFETY FUNCTIONALITY

Title (de)

KAPPENANORDNUNG FÜR EINE BATTERIEZELLE MIT ELEKTRONISCHER SICHERHEITSFUNKTIONALITÄT

Title (fr)

ENSEMBLE CAPUCHON POUR UNE CELLULE DE BATTERIE AYANT UNE FONCTIONNALITÉ DE SÉCURITÉ ÉLECTRONIQUE

Publication

EP 3894262 A1 20211020 (EN)

Application

EP 18830161 A 20181211

Priority

EP 2018084392 W 20181211

Abstract (en)

[origin: WO2020119897A1] A cap assembly (10, 20) for a battery cell (30) having electronic safety functionality comprises a cap plate (100) being electro-conductive, a first terminal (110a) to be coupled to a first electrode (60) of the battery cell (30), and a second terminal (110b) to be coupled to a second electrode (80) of the battery cell (30). The cap assembly (10, 20) further comprises an electrical device (120) having a variable electrical conductivity. The first terminal (110a) is coupled to the cap plate (100) by the electrical device (120), and the second terminal (110b) is electro-conductively connected to the cap plate (100). The electrical device (120) is configured such that an electrical conductivity of the electrical device (120) is dependent on a voltage between the first terminal (110a) and the second terminal (110b).

IPC 8 full level

B60L 3/00 (2019.01); **B60L 3/04** (2006.01); **B60L 50/64** (2019.01); **B60L 58/15** (2019.01); **H01M 10/42** (2006.01); **H01M 50/155** (2021.01); **H01M 50/176** (2021.01); **H01M 50/55** (2021.01); **H01M 50/553** (2021.01); **H01M 50/564** (2021.01); **H02J 7/00** (2006.01)

CPC (source: EP US)

B60L 3/0046 (2013.01 - EP); **B60L 3/04** (2013.01 - EP); **B60L 50/64** (2019.02 - EP); **B60L 58/15** (2019.02 - EP); **H01M 10/0431** (2013.01 - EP); **H01M 50/155** (2021.01 - EP US); **H01M 50/169** (2021.01 - EP); **H01M 50/176** (2021.01 - EP US); **H01M 50/55** (2021.01 - EP US); **H01M 50/553** (2021.01 - EP US); **H01M 50/564** (2021.01 - EP US); **H01M 50/581** (2021.01 - EP); **H01M 50/15** (2021.01 - EP); **H01M 2200/103** (2013.01 - EP); **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 2020119897 A1 20200618; EP 3894262 A1 20211020

DOCDB simple family (application)

EP 2018084392 W 20181211; EP 18830161 A 20181211