

Title (en)

COMPONENT SUPPORT FOR CELL CONNECTORS

Title (de)

KOMPONENTENTRÄGER FÜR ZELLVERBINDER

Title (fr)

SUPPORT DE COMPOSANTS POUR CONNECTEURS D'ÉLÉMENTS DE BATTERIES

Publication

EP 4139987 A1 20230301 (DE)

Application

EP 21722122 A 20210422

Priority

- DE 102020111098 A 20200423
- EP 2021060477 W 20210422

Abstract (en)

[origin: WO2021214196A1] The present invention relates to a system (100) for connecting battery poles (101, 102) of individual prismatic battery cells (151) of a battery module (150), which system has in particular a capacity of more than 500 Wh. The system (100) has a first electrically conductive cell connector (110), which is designed for fastening and electrically connecting two spaced-apart battery poles (101, 102), and a second electrically conductive cell connector (120), which is designed for fastening and electrically connecting two further spaced-apart battery poles. Furthermore, the system (100) has an electrically insulating support element (130) to which the first cell connector (110) and the second cell connector (120) are fastened in order, by means of the support element (130), to provide a supporting structure for the first cell connector (110) and the second cell connector (120), wherein, for the fastening of the first cell connector (110) and of the second cell connector (120) to the support element (130), the first cell connector (110) and the second cell connector (120) are embedded exclusively in regions in the support element (130) such that surface regions of the first cell connector (110) and of the second cell connector (120) are free from covering by the support element (130). A signal line (105) is coupled at least to one of the first and second cell connectors (120).

IPC 8 full level

H01M 10/48 (2006.01); **H01M 50/503** (2021.01); **H01M 50/507** (2021.01)

CPC (source: EP)

H01M 10/48 (2013.01); **H01M 50/503** (2021.01); **H01M 50/507** (2021.01); **Y02E 60/10** (2013.01)

Citation (search report)

See references of WO 2021214196A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102020111098 A1 20211028; EP 4139987 A1 20230301; WO 2021214196 A1 20211028

DOCDB simple family (application)

DE 102020111098 A 20200423; EP 2021060477 W 20210422; EP 21722122 A 20210422