

Title (en)
PLUG-IN HIGH-CURRENT POLE-CONTACTING MEANS FOR BATTERY CELLS

Title (de)
STECKBARE HOCHSTROMFÄHIGE POLKONTAKTIERUNG FÜR BATTERIEZELLEN

Title (fr)
MOYENS DE MISE EN CONTACT DE PÔLES À FORT COURANT PAR BRANCHEMENT POUR ÉLÉMENTS DE BATTERIES

Publication
EP 4139988 A1 20230301 (DE)

Application
EP 21722125 A 20210422

Priority
• DE 102020111100 A 20200423
• EP 2021060485 W 20210422

Abstract (en)
[origin: WO2021214199A1] The present invention relates to a system (100) for connecting battery poles (101, 102) of stand-alone prismatic battery cells of a battery module which supplies more than 30A. An electrically conductive cell connector (110) is formed with a first fastening portion (111) and a second fastening portion (112), wherein the first fastening portion has a first through-opening for receiving a first battery pole (101), and wherein the second fastening portion has a second through-opening for receiving a second battery pole (102). The first fastening portion and the second fastening portion are arranged within an arrangement plane (201), wherein at least the first fastening portion has at the through-opening a clamping portion (160) with at least one elastically deformable clamping element (161), which has been bent out of the arrangement plane (201) and projects into the first through-opening such that, when the first battery pole (101) is introduced, the clamping element (161) can be prestressed in order to generate a clamping force and a clamping connection can be established between the first fastening portion (111) and at least one side wall (203) of the first battery pole (101).

IPC 8 full level
H01M 50/503 (2021.01); **H01M 50/507** (2021.01); **H01M 50/517** (2021.01)

CPC (source: EP)
H01M 50/503 (2021.01); **H01M 50/507** (2021.01); **H01M 50/517** (2021.01); **Y02E 60/10** (2013.01)

Citation (search report)
See references of WO 2021214199A1

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 102020111100 A1 20211028; EP 4139988 A1 20230301; WO 2021214199 A1 20211028

DOCDB simple family (application)
DE 102020111100 A 20200423; EP 2021060485 W 20210422; EP 21722125 A 20210422