

Title (en)

METHOD FOR PRODUCING A PRISMATIC BATTERY CELL

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER PRISMATISCHEN BATTERIEZELLE

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN ÉLÉMENT DE BATTERIE PRISMATIQUE

Publication

EP 3172783 A1 20170531 (DE)

Application

EP 15739637 A 20150723

Priority

- DE 102014214716 A 20140725
- EP 2015066942 W 20150723

Abstract (en)

[origin: WO2016012568A1] The invention relates to a method for producing a prismatic battery cell (10), said prismatic battery cell (10) comprising a cathode layer, an anode layer and two separator layers. The method comprises the following steps: winding an initial arrangement comprising the cathode layer, the anode layer and the two separator layers around a winding axis to produce a battery winding (12), the cathode layer and the anode layer each having longitudinal sides and transverse sides and being wound with the transverse sides parallel to the winding axis, inserting the battery winding (12) in a cell housing, contacting contact surfaces (36, 38) of the cathode layer and the anode layer with current collectors (42, 44), filling the cell housing with a liquid electrolyte and closing the cell housing. The cathode layer and the anode layer, on one of their longitudinal sides, are cut to size during their supply to the initial arrangement to form contact surfaces (36, 38). The invention further relates to a prismatic battery cell (10) and to a vehicle having a battery which comprises said prismatic battery cell (10).

IPC 8 full level

H01M 10/052 (2010.01); **H01M 10/0525** (2010.01); **H01M 10/0587** (2010.01); **H01M 10/647** (2014.01); **H01M 50/538** (2021.01)

CPC (source: CN EP US)

H01M 10/052 (2013.01 - CN EP US); **H01M 10/0525** (2013.01 - US); **H01M 10/0587** (2013.01 - CN EP US); **H01M 50/538** (2021.01 - CN EP US); **H01M 2220/20** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US)

Citation (search report)

See references of WO 2016012568A1

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 102014214716 A1 20160128; CN 106537649 A 20170322; EP 3172783 A1 20170531; JP 2017525112 A 20170831; US 2017237125 A1 20170817; WO 2016012568 A1 20160128

DOCDB simple family (application)

DE 102014214716 A 20140725; CN 201580040309 A 20150723; EP 15739637 A 20150723; EP 2015066942 W 20150723; JP 2017503997 A 20150723; US 201515328165 A 20150723