

Title (en)

METHOD AND APPARATUS FOR PRODUCING AN ELECTRODE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINER ELEKTRODE

Title (fr)

PROCÉDÉ ET APPAREIL DE PRODUCTION D'UNE ÉLECTRODE

Publication

**EP 4305684 A1 20240117 (DE)**

Application

**EP 22708535 A 20220223**

Priority

- DE 102021105458 A 20210308
- EP 2022054495 W 20220223

Abstract (en)

[origin: WO2022189144A1] The invention relates to a method for producing an electrode for a battery cell, wherein the electrode at least partly has a coating, comprising the following steps: first mechanical compacting of the electrode to form a first compacted state of the electrode by using a first compacting arrangement for compacting the coating; supplying at least one coated portion of the electrode with thermal energy by using at least one device with a thermal-energy source, to reduce mechanical stresses in the electrode, the step of supplying with thermal energy being performed before and/or after the first mechanical compaction.

IPC 8 full level

**H01M 4/04** (2006.01); **B05C 5/00** (2006.01); **B05C 5/02** (2006.01); **B05D 3/02** (2006.01)

CPC (source: EP KR US)

**B05C 9/12** (2013.01 - KR); **B05C 9/14** (2013.01 - KR); **B05C 11/025** (2013.01 - KR); **B05D 3/0263** (2013.01 - EP KR); **B05D 3/0281** (2013.01 - EP KR); **B05D 3/12** (2013.01 - EP KR); **B05D 5/12** (2013.01 - KR); **B05D 7/14** (2013.01 - KR); **H01M 4/04** (2013.01 - EP KR); **H01M 4/0404** (2013.01 - US); **H01M 4/0435** (2013.01 - EP KR); **H01M 4/0471** (2013.01 - EP KR US); **H01M 4/13** (2013.01 - KR); **H01M 10/05** (2013.01 - KR); **H01M 10/0525** (2013.01 - US); **B05C 9/12** (2013.01 - EP); **B05C 9/14** (2013.01 - EP); **B05C 11/025** (2013.01 - EP); **B05D 5/12** (2013.01 - EP); **B05D 7/14** (2013.01 - EP); **B05D 2252/02** (2013.01 - EP); **H01M 4/13** (2013.01 - EP); **H01M 10/05** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP KR)

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 102021105458 A1 20220908**; CN 116918087 A 20231020; EP 4305684 A1 20240117; JP 2024509213 A 20240229; KR 20230132522 A 20230915; US 2024145667 A1 20240502; WO 2022189144 A1 20220915

DOCDB simple family (application)

**DE 102021105458 A 20210308**; CN 202280018786 A 20220223; EP 2022054495 W 20220223; EP 22708535 A 20220223; JP 2023553723 A 20220223; KR 20237027486 A 20220223; US 202218280795 A 20220223