Title (en)

METHOD FOR ARRANGING A PILE OF ELECTRODES/SEPARATORS INCLUDING THE ADDITION OF THE ELECTROLYTE FOR APPLICATION IN A ELECTROCHEMICAL ENERGY CELL

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES ELEKTRODEN/SEPARATORENSTAPELS INKLUSIVE BEFÜLLUNG MIT EINEM ELEKTROLYTEN ZUM EINSATZ IN EINER ELEKTROCHEMISCHEN ENERGIESPEICHERZELLE

Title (fr)

PROCÉDÉ DE FABRICATION D'UN EMPILEMENT D'ÉLECTRODES/DE SÉPARATEURS AVEC REMPLISSAGE D'UN ÉLECTROLYTE POUR L'UTILISATION DANS UN ÉLÉMENT D'ACCUMULATEUR D'ÉNERGIE ÉLECTROCHIMIQUE

Publication

EP 2647078 A1 20131009 (DE)

Application

EP 11788776 A 20111123

Priority

- DE 102010052843 A 20101129
- EP 2011005938 W 20111123

Abstract (en)

[origin: WO2012072220A1] A method for producing an electrochemical energy storage cell, which has a stack 1 of sheets 2, in particular electrode and/or separator sheets 2, and a liquid electrolyte 4, has the following steps: producing interspaces between a large number of adjacent sheets 2 in the stack 1 (step S1), bringing the stack 1 into contact with the electrolyte 4 (step S2), removing the interspaces produced in step S1 between the large number of adjacent sheets 2 in the stack 1 (step S3). As a result, the electrolyte 4 can be distributed quickly and uniformly over the surfaces of the large number of sheets 2. In a particularly preferred embodiment of the method, step S1 has the following substeps: fixing a large number of sheets 2 in the stack 1 relative to one another at at least one point (step S1.1, optional), bending the stack 1, wherein the sheets 2 in the stack 1 are at least partially movable with respect to one another (step S1.2), fixing a large number of sheets 2 in the bent stack 1 relative to one another, with the result that the large number of sheets 2 are fixed in each case relative to one another at at least two points (step S1.3), returning the bent stack 1 to a shape which approximately corresponds to the initial shape of the stack 1, whilst maintaining the fixings from step S1.1 and/or S1.3 (step S1.4).

IPC 8 full level

H01M 2/02 (2006.01); **H01M 2/18** (2006.01); **H01M 2/36** (2006.01); **H01M 10/04** (2006.01); **H01M 10/0585** (2010.01); **H01M 50/105** (2021.01); **H01M 50/463** (2021.01); **H01M 50/609** (2021.01)

CPC (source: EP KR US)

H01M 10/0413 (2013.01 - EP KR US); **H01M 10/0436** (2013.01 - KR); **H01M 10/0585** (2013.01 - EP US); **H01M 50/105** (2021.01 - EP US); **H01M 50/46** (2021.01 - KR); **H01M 50/463** (2021.01 - EP KR US); **H01M 50/609** (2021.01 - EP KR US); Y02E 60/10 (2013.01 - EP KR); Y02P 70/50 (2015.11 - EP); Y10T 29/49108 (2015.01 - EP US)

Citation (search report)

See references of WO 2012072220A1

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

DOCDB simple family (publication)

DE 102010052843 A1 20120531; CN 103370824 A 20131023; EP 2647078 A1 20131009; JP 2014502016 A 20140123; KR 20130122647 A 20131107; US 2013323584 A1 20131205; WO 2012072220 A1 20120607

DOCDB simple family (application)

DE 102010052843 A 20101129; CN 201180057071 A 20111123; EP 11788776 A 20111123; EP 2011005938 W 20111123; JP 2013540268 A 20111123; KR 20137016978 A 20111123; US 201113990285 A 20111123