

Title (en)

APPARATUS AND METHOD FOR PRODUCING ELECTROCHEMICAL CELLS

Title (de)

APPARATUR UND VERFAHREN ZUR HERSTELLUNG VON ELEKTROCHEMISCHEN ZELLEN

Title (fr)

APPAREILLAGE ET PROCÉDÉ DE FABRICATION D'ÉLÉMENTS ÉLECTROCHIMIQUES

Publication

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Application

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Abstract (en)

[origin: WO2014079725A1] The invention relates to an apparatus and a method for producing electrochemical cells, preferably lithium-ion cells. The apparatus comprises at least one storage placement position (13, 15, 17, 19), at least one assembly placement position (2, 4), a robot system (3) having a gripper (150), a pipetting machine (5) having a cleaning station, a tool for closing cell stacks, and at least one storage tray having recesses for accommodating components, wherein the total number of recesses is greater than or equal to two, preferably greater than or equal to four, and especially preferably greater than or equal to six. In order to assemble the cells, the individual components E1 to E5 in storage trays are placed onto the storage placement positions and from there are automatically moved to the assembly area and positioned by a gripper. The areas between components E2 and E3 and between E3 and E4 are filled with electrolyte. The characteristic features of the apparatus include the extremely flexible use in regard to the variation of different method parameters, the high throughput, and the low scrap rate of the produced lithium-ion cells.

IPC 8 full level

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Citation (search report)

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