Title (en)

EXOTHERMIC COMPONENT, ELECTRODE CONSTRUCTION, ELECTRICAL ENERGY CELL AND CELL ARRANGEMENT, AND PRODUCTION METHOD AND DRIVING METHOD

Title (de)

EXOTHERMES BAUELEMENT, ELEKTRODENAUFBAU, ELEKTROENERGIEZELLE UND ZELLENANORDNUNG, SOWIE VERFAHREN ZUR HERSTELLUNG UND VERFAHREN ZUR ANSTEUERUNG

Title (fr)

COMPOSANT EXOTHERMIQUE, STRUCTURE D'ÉLECTRODE, CELLULE PRODUISANT DE L'ÉNERGIE ÉLECTRIQUE, AGENCEMENT DE CELLULES, LEUR PROCÉDÉ DE PRODUCTION ET LEUR PROCÉDÉ DE COMMANDE

Publication

EP 2666205 A1 20131127 (DE)

Application

EP 12700303 A 20120103

Priority

- DE 102011008706 A 20110117
- EP 2012000015 W 20120103

Abstract (en)

[origin: WO2012097956A1] An exothermic component has a reactive multilayer arranged in grid-shape fashion on a carrier. The exothermic component can be incorporated in an electrode construction of a galvanic cell comprising electrode layers, a separator layer and current collecting layers. In addition, a matrix-like sensor arrangement can be provided in the electrode construction. Defect locations in the electrode construction can be identified on the basis of output signals of the sensor arrangement. By igniting selected regions of the reactive multilayer grid, which react exothermically, it is possible to destroy the defect locations in a targeted manner.

IPC 8 full level

H01M 10/48 (2006.01); B23K 31/02 (2006.01); H01M 10/42 (2006.01)

CPC (source: EP KR US)

B23K 31/02 (2013.01 - KR); H01M 8/02 (2013.01 - KR); H01M 10/0413 (2013.01 - KR); H01M 10/0436 (2013.01 - KR); H01M 10/4207 (2013.01 - EP US); H01M 10/425 (2013.01 - KR); H01M 10/4257 (2013.01 - US); H01M 10/48 (2013.01 - KR); H01M 10/482 (2013.01 - EP US); H01M 10/486 (2013.01 - KR); H01M 10/615 (2015.04 - KR); H01M 10/657 (2015.04 - KR); Y02E 60/10 (2013.01 - EP KR); Y02E 60/50 (2013.01 - EP); Y02P 70/50 (2015.11 - EP); Y10T 29/49108 (2015.01 - EP US)

Citation (search report)

See references of WO 2012097956A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

DE 102011008706 A 20110117; CN 201280013443 A 20120103; EP 12700303 A 20120103; EP 2012000015 W 20120103; JP 2013548776 A 20120103; KR 20137021015 A 20120103; US 201213979942 A 20120103