

Title (en)

DEVICE AND METHOD FOR CHECKING THE LEAK-TIGHTNESS OF AN ELECTROCHEMICAL ENERGY ACCUMULATOR

Title (de)

VORRICHTUNG UND VERFAHREN ZUR DICHTHEITSÜBERPRÜFUNG EINES ELEKTROCHEMISCHEN ENERGIESPEICHERS

Title (fr)

DISPOSITIF ET PROCÉDÉ DE CONTRÔLE DE L'ÉTANCHÉITÉ D'UN ACCUMULATEUR ÉLECTROCHIMIQUE D'ÉNERGIE

Publication

EP 2695228 A2 20140212 (DE)

Application

EP 12716237 A 20120404

Priority

- DE 102011016527 A 20110408
- EP 2012001487 W 20120404

Abstract (en)

[origin: WO2012136357A2] The invention relates to a device and to a method for checking the leak-tightness of an electrochemical energy accumulator, which is formed as an individual battery cell (2) or as a battery (1) having a plurality of individual battery cells (2) connected to one another in parallel and/or in series, wherein at least one detector unit (4) is provided, by means of which a gas concentration in a housing can be detected. According to the invention the housing is designed as a battery housing (3) and can be closed, wherein the detector unit (4) is a metal oxide sensor that is connected to an evaluation unit (5), and, depending on the detected gas concentration, a control signal can be generated automatically by means of the evaluation unit (5) for switching off the electrochemical energy accumulator and/or for triggering a binder release unit (6).

IPC 8 full level

H01M 6/50 (2006.01); **H01M 10/42** (2006.01)

CPC (source: EP US)

H01M 6/5083 (2013.01 - EP US); **H01M 10/4228** (2013.01 - EP US); **H01M 10/4235** (2013.01 - EP US); **H01M 10/4285** (2013.01 - EP US); **H01M 6/5044** (2013.01 - EP US); **H01M 2200/00** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

See references of WO 2012136357A2

Citation (examination)

- DE 102009028271 A1 20110210 - BOSCH GMBH ROBERT [DE]
- EP 1841002 A1 20071003 - SONY DEUTSCHLAND GMBH [DE], et al
- GB 2286680 A 19950823 - EVEREADY BATTERY INC [US]
- DE 3826262 A1 19900208 - SIEMENS AG [DE]

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 102011016527 A1 20121011; CN 103460471 A 20131218; EP 2695228 A2 20140212; JP 2014512004 A 20140519; US 2014038006 A1 20140206; WO 2012136357 A2 20121011; WO 2012136357 A3 20130103

DOCDB simple family (application)

DE 102011016527 A 20110408; CN 201280017241 A 20120404; EP 12716237 A 20120404; EP 2012001487 W 20120404; JP 2014503023 A 20120404; US 201214110205 A 20120404