

Title (en)

METHOD AND APPARATUS FOR EVALUATING THE STATE OF HEALTH OF A LITHIUM BATTERY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BEURTEILUNG DES GESUNDHEITZUSTANDES EINER LITHIUMBATTERIE

Title (fr)

PROCEDE ET APPAREIL D'EVALUATION DE L'ETAT DE SANTE D'UNE BATTERIE LITHIUM

Publication

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Application

EP 14780469 A 20141001

Priority

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Abstract (en)

[origin: WO2015049300A1] Method for evaluation of the state of health of a lithium battery comprising: • a) a first step of recharging said battery at constant current, until the voltage (U) at its terminals reaches a limit value (U_{cv}); then • b) a second step of recharging said battery at constant voltage equal to said limit value, until the charging current (I) drops below a threshold value (I_{min}), a plurality of charging current measurements being acquired during said second recharging step; and • c) a step of estimating the state of health of said battery using at least one characteristic parameter of said second step of recharging at constant voltage, such as the parameter describing the decrease of an exponential function interpolating the charging current measurements, the energy supplied to said battery during said second step of recharging at constant voltage or the duration of said charging step at constant voltage. The invention also relates to an apparatus for implementing such a method and a battery management system comprising such an apparatus.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2015049300A1

Cited by

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