

Title (en)

METHOD FOR DETERMINING THE STATE OF HEALTH OF A LITHIUM-ION BATTERY

Title (de)

VERFAHREN ZUR BESTIMMUNG DES GESUNDHEITZUSTANDS EINER LITHIUM-IONEN-BATTERIE

Title (fr)

PROCÉDÉ DE DÉTERMINATION DE L'ÉTAT DE SANTÉ D'UNE BATTERIE LITHIUM-ION

Publication

**EP 4038399 A1 20220810 (FR)**

Application

**EP 20780712 A 20200930**

Priority

- FR 1910857 A 20191001
- EP 2020077381 W 20200930

Abstract (en)

[origin: CA3156639A1] The invention relates to a method for determining the state of health (SOH) of a lithium-ion battery (1), comprising: - a first step (E1) of determining a function (f) of the incremental capacity of the battery, - a second step (E2) of identifying peaks (P1, P2, P3) of the function (f) determined during the first step (E1), - a third step (E3) of determining voltage values (U1, U2, U3) at the terminals of the battery (1) for which the peaks (P1, P2, P3) are obtained, - a fourth step (E4) of determining the amplitudes of the peaks (P1, P2, P3), - a sixth step (E6) of determining the state of health (SOH) of the battery (1) according to a degradation mode of the battery and according to the amplitudes determined during the fourth step (E4).

IPC 8 full level

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CPC (source: EP US)

**G01R 31/3648** (2013.01 - EP); **G01R 31/367** (2018.12 - US); **G01R 31/3835** (2018.12 - EP US); **G01R 31/392** (2018.12 - EP US); **H01M 10/0525** (2013.01 - US); **H01M 10/44** (2013.01 - US); **H01M 10/48** (2013.01 - US); **H02J 7/005** (2020.01 - US); **H02J 7/007** (2013.01 - US); **H01M 4/505** (2013.01 - US); **H01M 4/525** (2013.01 - US); **H01M 4/5825** (2013.01 - US); **H01M 4/583** (2013.01 - US); **H01M 2004/027** (2013.01 - US); **H01M 2004/028** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

See references of WO 2021064030A1

Cited by

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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

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