

Title (en)

METHOD FOR ESTIMATING CHARACTERISTIC PHYSICAL QUANTITIES OF AN ELECTRIC BATTERY

Title (de)

VERFAHREN ZUR KALKULATION DER CHARAKTERISTISCHEN PHYSIKALISCHEN GRÖSSEN EINER ELEKTRISCHEN BATTERIE

Title (fr)

PROCEDE D'ESTIMATION DE GRANDEURS PHYSIQUES CARACTERISTIQUES D'UNE BATTERIE ELECTRIQUE

Publication

EP 3237919 A1 20171101 (FR)

Application

EP 15821150 A 20151216

Priority

- FR 1463162 A 20141222
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Abstract (en)

[origin: WO2016102823A1] The invention relates to a method for estimating characteristic physical quantities of an electric battery (BAT), which involves acquiring electric voltage values (U) at the terminals of the electric battery, as well as values of the intensity (I) of the current delivered by the battery, for a predetermined duration. According to the invention, the values of said physical quantities are obtained by solving a system of linear equations modelling the electrical behaviour of the electric battery: - in which the unknown factors are mathematically linked to said physical quantities, - and in which the coefficients are obtained beforehand, by integration of functions of the voltage or of functions of the intensity over the predetermined duration.

IPC 8 full level

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