

Title (en)

DEVICE AND METHOD FOR DETERMINING A STATE PARAMETER OF A BATTERY

Title (de)

VORRICHTUNG UND VERFAHREN ZUM BESTIMMEN EINES ZUSTANDSPARAMETERS EINER BATTERIE

Title (fr)

PROCÉDÉ ET DISPOSITIF PERMETTANT DE DÉTERMINER UN PARAMÈTRE D'ÉTAT D'UNE BATTERIE

Publication

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Application

**EP 12721470 A 20120508**

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Abstract (en)

[origin: WO2012156233A2] The invention relates to a device (100) for determining a state parameter (122) of a battery, comprising a voltage detector (110) and a processor (120). The voltage detector (110) measures a terminal voltage (U<sub>mess</sub>) of the battery. The processor (120) calculates a plurality of current samples based on a plurality of known samples (102) of an earlier probability distribution of a state indicator of the battery and a plurality of error probability samples of an error probability distribution. Moreover, the processor (120) determines a plurality of weighting factors for the plurality of current samples based on the plurality of current samples and the measured terminal voltage (U<sub>mess</sub>, SOC, ? SOC). The processor (120) further calculates the state parameter (122) of the battery based on the plurality of current samples and the plurality of weighting factors.

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