

Title (en)
DETERMINATION OF THE INTERNAL RESISTANCE OF A BATTERY CELL OF A TRACTION BATTERY WHILE USING RESISTIVE CELL
BALANCING

Title (de)
ERMITTLUNG DES INNENWIDERSTANDS EINER BATTERIEZELLE EINER TRAKTIONSBATTERIE BEI EINSATZ VON RESISTIVEM
ZELLBALANCING

Title (fr)
DÉTERMINATION DE LA RÉSISTANCE INTERNE D'UN ÉLÉMENT D'UNE BATTERIE DE TRACTION EN CAS D'ÉQUILIBRAGE RÉSISTIF DES
ÉLÉMENTS

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Application
EP 10705870 A 20100225

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Abstract (en)
[origin: WO2010118909A1] The invention relates to a method and a device for determining the internal resistance of a battery cell (1a) of a battery (1), in particular a traction battery, characterized in that said method can be used either during charging processes or discharging processes and in phases in which the battery (1) including the battery cell (1a) does not supply or receive any electrical power, wherein resistive cell balancing for balancing the charging states of the battery cells (1a) is carried out in the battery (1), whereby energy is removed from the battery cell (1a) via a resistor (2). According to the invention, a first control module (3) is provided for determining a first voltage applied to the battery cell (1a) and a first current flowing from or to the battery cell at a first time during removal or supply of the charge and for determining a second voltage applied to the battery cell (1a) and a second current flowing from or to the battery cell (1a) at a second time during removal or supply of the charge. Further provided is a calculating unit (4) for calculating the internal resistance of the battery cell (1a) on the basis of the quotients of the difference of the second voltage and the first voltage and the difference of the second current and the first current.

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