

Title (en)

METHOD FOR DETERMINING MECHANICAL STRESSES IN A TRACTION ENERGY STORE

Title (de)

TECHNIK ZUR BESTIMMUNG MECHANISCHER SPANNUNGEN IN EINEM TRAKTIONSENERGIESPEICHER

Title (fr)

PROCÉDÉ DE DÉTERMINATION DE CONTRAINTES MÉCANIQUES DANS UN ACCUMULATEUR D'ÉNERGIE DE TRACTION

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Application

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Abstract (en)

[origin: WO2022008157A1] The invention relates to a method for determining mechanical stresses (200) in an electrical traction energy store (110) of a motor vehicle (1100). According to one aspect of the device, a device (100) comprises a traction energy store (110) for storing electrical energy having at least one cell module (120), which comprises in each case a housing (122) and a plurality of secondary cells (300) which are arranged in the housing (122) and are electrically conductively connected to a power interface (124) of the cell module (120). The device (100) also comprises at least one determination unit (130) which is designed to determine, on the basis of an internal resistance of the secondary cells (300) in the at least one cell module (120), a mechanical stress (200) in the secondary cells (300) at different times, a first value of the internal resistance corresponding to a first state of the mechanical stress (200) and a second value of the internal resistance, which is greater than the first value of the internal resistance, corresponding to a second state of the mechanical stress (200) which is greater than the mechanical stress (200) in the first state.

IPC 8 full level

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Citation (search report)

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