

Title (en)

ON-BOARD POWER SYSTEM FOR A MOTOR VEHICLE, AND METHOD FOR OPERATING AN ON-BOARD POWER SYSTEM

Title (de)

BORDNETZ FÜR EIN KRAFTFAHRZEUG SOWIE VERFAHREN ZUM BETREIBEN EINES BORDNETZES

Title (fr)

RÉSEAU DE BORD POUR UN VÉHICULE À MOTEUR ET PROCÉDÉ POUR FAIRE FONCTIONNER UN RÉSEAU DE BORD

Publication

**EP 4147325 A1 20230315 (DE)**

Application

**EP 21723197 A 20210430**

Priority

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Abstract (en)

[origin: WO2021224120A1] The invention relates to an on-board power system (B) for a motor vehicle. The motor vehicle in this case comprises at least one battery cell unit (10), in the form of what is known as a smart cell. The on-board power system (B) additionally comprises a control device (20) in order to operate the battery cell unit (10). In order to be able to be supplied with electrical energy, the control device (20) comprises a supply connection (V) for the delivery of a supply voltage (UV). The supply voltage (UV) is usually delivered in this case by way of an energy supply device (30) of the on-board power system (B) that is able to be coupled to the control device (20) via a first connecting line (A1). In order to allow a redundant energy supply to the control device (20), a second connecting line (A2) is also provided in addition to the first connecting line (A1) and is able to be used to couple a battery cell (11) of the respective battery cell unit (10) to the supply connection (V). The supply voltage (UV) is thus able to be delivered either via the first connecting line (A1) or via the second connecting line (A2) depending on the operating state of the energy supply device (30).

IPC 8 full level

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