

Title (en)
ON-BOARD ELECTRICAL SYSTEM, AND METHOD FOR OPERATING AN ON-BOARD ELECTRICAL SYSTEM

Title (de)
BORDNETZ UND VERFAHREN ZUM BETRIEB EINES BORDNETZES

Title (fr)
RÉSEAU DE BORD ET PROCÉDÉ POUR FAIRE FONCTIONNER UN RÉSEAU DE BORD

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Application
EP 15701024 A 20150123

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Abstract (en)
[origin: WO2015110591A1] The invention relates to an on-board electrical system (1) for a motor vehicle, wherein the on-board electrical system (1) has a low-voltage electrical subsystem (21) for at least one low-voltage load (29), and has a high-voltage electrical subsystem (20) for at least one high-voltage load (25), and has a starter generator (30), wherein the high-voltage electrical subsystem (20) is connected to the low-voltage electrical subsystem (21) by means of a coupling unit (33), wherein the on-board electrical system (1) has a battery (40) which is designed to generate the high voltage and to feed said high voltage into the high-voltage electrical subsystem (20), and which has at least two battery units (41) having individual voltage taps (42) which are routed to the coupling unit (33). In this case, provision is made for the coupling unit (33) to be designed to provide at least a first and a second operating state, wherein, in the first operating state, the high-voltage electrical subsystem (20) is fed from all of the battery units (41) of the battery (40) and the low-voltage electrical subsystem (21) is fed from one battery unit (41), and, in the second operating state, the high-voltage electrical subsystem (20) is fed from one battery unit (41) and the low-voltage electrical subsystem (21) is fed from at least one battery unit (41). The invention also relates to a method for operating an on-board electrical system (1) of this kind, and also to a motor vehicle comprising an on-board electrical system of this kind.

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See references of WO 2015110591A1

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