

Title (en)

DEVICE FOR TESTING AND MAINTAINING A HIGH VOLTAGE BATTERY AND USES THEREOF

Title (de)

VORRICHTUNG ZUM TESTEN UND WARTEN EINER HOCHVOLT-BATTERIE UND VERWENDUNGEN DIESER VORRICHTUNG

Title (fr)

DISPOSITIF POUR LE TEST ET L'ENTRETIEN D'UNE BATTERIE HAUTE TENSION ET UTILISATION DUDIT DISPOSITIF

Publication

**EP 2923429 A1 20150930 (DE)**

Application

**EP 13771138 A 20130930**

Priority

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- EP 2013070340 W 20130930

Abstract (en)

[origin: WO2014079616A1] The invention relates to a device (10) for maintaining and servicing a high voltage battery (20) which can be connected to the device (10), wherein the high voltage battery (20) is designed as a group of single battery cells or as a group of battery modules (21) and a high voltage positive pole connection (22), a high voltage negative pole connection (24) and a battery management system (28) having a data transmission connection (26) for bidirectional transmission of battery management system data between the battery management system (28) and an external unit (75) which processes information in respect of the high voltage battery (20). The device (10) comprises two or three apparatuses, which are selected from a group comprising the following: a high voltage battery charging apparatus (40), a high voltage battery discharging apparatus (60) and a high voltage battery diagnostics apparatus (80). A high voltage battery charging apparatus (40) is designed to bring a high voltage battery (20) connected to the device into a higher charge state and comprises a high voltage positive connection (42), which is designed to be connected to a high voltage positive pole connection (22) of the high voltage battery (20), and a high voltage negative connection (44), which is designed to be connected to a high voltage negative pole connection (24) of the high voltage battery (20). A high voltage battery diagnostics device (80) is designed to examine a high voltage battery (20) connected to the device (10) and the device (10) for the presence of internal errors and to indicate identified internal errors and preferably to generate diagnostics data in respect of the state of the high voltage battery (20) and to trigger functions which are directed to bringing the device (10) and/or the high voltage battery (20) safely into an additional state, to operating the device (10) and/or the high voltage battery (20) and/or to testing the device (10) and/or the high voltage battery (20), and comprises an information-processing unit (75) having a data transmission connection (86) for bidirectional transmission of battery management system data between the information-processing unit (75) and the battery management system (28) of a connected high voltage battery (20). A high voltage battery discharging apparatus (60) is designed to bring a high voltage battery (20) connected to the device into a lower charge state and comprises a high voltage positive connection (62), which is designed to be connected to the high voltage positive pole connection (22) of the high voltage battery (20), and a high voltage negative connection (64), which is designed to be connected to the high voltage negative pole connection (24) of the high voltage battery (20).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2014079616A1

Citation (examination)

EP 0905855 A2 19990331 - TOYOTA MOTOR CO LTD [JP]

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Designated extension state (EPC)

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DOCDB simple family (application)

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