

Title (en)

HIGH-VOLTAGE BATTERY SYSTEM HAVING A SAFETY DEVICE

Title (de)

EIN HOCHVOLT-BATTERIESYSTEM MIT SICHERUNGSEINRICHTUNG

Title (fr)

SYSTÈME DE BATTERIE À HAUTE TENSION DOTÉE D'UN DISPOSITIF DE SÉCURITÉ

Publication

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Application

EP 17729051 A 20170531

Priority

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- EP 2017063137 W 20170531

Abstract (en)

[origin: WO2018015057A1] The invention is based on the idea that an electromechanical contactor is replaced by an irreversible disconnecting element, which does not have an aging problem. An irreversible disconnecting element has, for example, a pyrotechnic switch. However, the irreversible disconnecting element may only be activated in the event that an all-pole disconnection has to take place, or if the emergency disconnection site is disconnected by rescue workers. The irreversible disconnecting element must not be activated if the low-voltage on-board electrical system fails in the vehicle service, or if the emergency disconnection site is not connected. According to the invention, a battery system is proposed, in particular for an electric vehicle, wherein the battery system has a high-voltage battery, a control unit, and a safety device for disconnecting the high-voltage battery from a high-voltage on-board electrical system of the electric vehicle. The battery system according to the invention is characterized in that the control unit has two conductor loops, and that the control unit carries out a monitoring of the two conductor loops; and in that based on the monitoring, the control unit activates the safety device such that the safety device separates the high-voltage battery from the high-voltage vehicle electrical system of the electric vehicle, wherein the safety device has an irreversible separating element.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2018015057A1

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