

Title (en)

BATTERY FOR HYBRID VEHICLES WITH A SAFETY DEVICE FOR INTERRUPTING A HIGH-VOLTAGE CIRCUIT

Title (de)

AKKUMULATOR FÜR HYBRID-FAHRZEUGE MIT EINER SICHERHEITSEINRICHTUNG ZUM UNTERBRECHEN EINES HOCHSPANNUNGSKREISES

Title (fr)

ACCUMULATEUR POUR VÉHICULES HYBRIDES AVEC UN AGENCEMENT DE SÉCURITÉ POUR LA COUPURE D'UN CIRCUIT À HAUTE TENSION

Publication

EP 2274801 A1 20110119 (DE)

Application

EP 09741797 A 20090406

Priority

- EP 2009002525 W 20090406
- DE 102008022840 A 20080508

Abstract (en)

[origin: WO2009135578A1] In a battery for hybrid vehicles comprising a) a housing (1), b) a plurality of galvanic cells disposed in the housing (1), said cells connected electrically to one another and forming a high-voltage circuit, c) a high voltage socket (6) disposed at the housing (1), said socket comprising two electrical pins (8), wherein the high voltage socket (6) can be connected to a high voltage plug (2), d) a latch (7) disposed at the high voltage socket (6), said latch cooperating with a locking element (4) disposed at the high voltage plug for the purposes of locking the high voltage plug (2) to the high voltage socket (6), e) a low voltage circuit, f) at least one contactor integrated into the low voltage circuit for interrupting and closing the high voltage circuit, the high voltage circuit can be switched on non-energetically without risk if the circuit comprises a service plug connector (3) for closing and opening the low voltage circuit, wherein the service plug connector (3) cooperates with the high voltage plug in such a way that the high voltage plug can only be pulled from the high voltage socket (6) after the service plug connector (3) has been removed from the battery.

IPC 8 full level

H01R 13/639 (2006.01); **H01M 50/517** (2021.01)

CPC (source: EP US)

B60K 6/28 (2013.01 - EP US); **B60K 6/405** (2013.01 - EP US); **B60L 3/0069** (2013.01 - EP US); **B60L 3/04** (2013.01 - EP US); **H01R 13/639** (2013.01 - EP US); **H01M 50/517** (2021.01 - EP US); **H01M 2200/00** (2013.01 - EP US); **H01R 13/7032** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

See references of WO 2009135578A1

Citation (examination)

US 4867699 A 19890919 - ODA KENZO [JP], et al

Cited by

EP2267821A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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