

Title (en)

PROTECTION CIRCUIT, CIRCUIT AND OPERATION METHOD THEREFOR, AND CORRESPONDING VEHICLE LIGHT AND VEHICLE

Title (de)

SCHUTZSCHALTUNG, SCHALTUNG UND BETRIEBSVERFAHREN DAFÜR UND ZUGEHÖRIGE FAHRZEUGLAMPE UND FAHRZEUG

Title (fr)

CIRCUIT DE PROTECTION, CIRCUIT ET SON PROCÉDÉ DE FONCTIONNEMENT, ET LAMPE DE VÉHICULE CORRESPONDANTE ET VÉHICULE

Publication

**EP 3888209 A4 20221221 (EN)**

Application

**EP 19890310 A 20191127**

Priority

- CN 201811429653 A 20181127
- CN 2019121142 W 20191127

Abstract (en)

[origin: WO2020108509A1] A protection circuit(100) for ground short circuit protection, the circuit(100) comprising: a high conduction circuit(110) for controlling the supply of electric power for a functional circuit(1000), wherein the functional circuit(1000) has a boost function; and a charging subcircuit(120) for controlling, based on an input voltage of an input power source of the protection circuit(100) and an output voltage from the functional circuit(1000), the high conduction circuit(110) to be turned on or turned off; and an energy storage circuit(130) for storing electric power from the input power source so as to provide electric power for the functional circuit(1000).

IPC 8 full level

**H02H 1/06** (2006.01); **H02H 3/087** (2006.01); **H02H 3/10** (2006.01); **H02H 3/16** (2006.01); **H02H 7/12** (2006.01)

CPC (source: CN EP)

**H02H 1/06** (2013.01 - CN); **H02H 3/087** (2013.01 - EP); **H02H 3/10** (2013.01 - EP); **H02H 3/105** (2013.01 - CN); **H02H 3/16** (2013.01 - EP); **H02H 7/1213** (2013.01 - EP)

Citation (search report)

- [XAI] US 2003218845 A1 20031127 - CHEN TSUNG-TA [TW]
- [A] US 2018248353 A1 20180830 - CREECH MARK D [US]
- [AP] US 2019190255 A1 20190620 - ILLING ROBERT [AT], et al
- See references of WO 2020108509A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2020108509 A1 20200604**; CN 111224373 A 20200602; CN 111224373 B 20230106; EP 3888209 A1 20211006; EP 3888209 A4 20221221

DOCDB simple family (application)

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