

(12) International Application Status Report

Received at International Bureau: 16 December 2019 (16.12.2019)

Information valid as of: 04 May 2020 (04.05.2020)

Report generated on: 19 September 2020 (19.09.2020)

(10) Publication number:

WO2020/108509

(43) Publication date:

04 June 2020 (04.06.2020)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/CN2019/121142

(22) Filing Date:

27 November 2019 (27.11.2019)

(25) Filing language:

English (EN)

(31) Priority number(s):

201811429653.6 (CN)

(31) Priority date(s):

27 November 2018 (27.11.2018)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

H02H 3/10 (2006.01); *H02H 1/06* (2006.01)

(71) Applicant(s):

FOSHAN ICHIKOH VALEO AUTO LIGHTING SYSTEMS CO., LTD. [CN/CN]; No.7 Huabaonan Road, Chengxi Industrial Park, Foshan National Hi-Tech Industrial Zone Chancheng District Foshan, Guangdong 528000 (CN) *(for all designated states)*

(72) Inventor(s):

GONG, Tianxun; No.7 Huabaonan Road, Chengxi Industrial Park, Foshan National Hi-Tech Industrial Zone Chancheng District Foshan, Guangdong 528000 (CN)

LIANG, Jintao; No.7 Huabaonan Road, Chengxi Industrial Park, Foshan National Hi-Tech Industrial Zone Chancheng District Foshan, Guangdong 528000 (CN)

YVON, Sylvain; 34 Rue Saint Andre 93012 Bobigny (FR)

YUAN, Peiliang; No.7 Huabaonan Road, Chengxi Industrial Park, Foshan National Hi-Tech Industrial Zone Chancheng District Foshan, Guangdong 528000 (CN)

FANG, Shangye; No.7 Huabaonan Road, Chengxi Industrial Park, Foshan National Hi-Tech Industrial Zone Chancheng District Foshan, Guangdong 528000 (CN)

ZHANG, Zhenyu; No.7 Huabaonan Road, Chengxi Industrial Park, Foshan National Hi-Tech Industrial Zone Chancheng District Foshan, Guangdong 528000 (CN)

(54) Title (EN): PROTECTION CIRCUIT, CIRCUIT AND OPERATION METHOD THEREFOR, AND CORRESPONDING VEHICLE LIGHT AND VEHICLE

(54) Title (FR): CIRCUIT DE PROTECTION, CIRCUIT ET SON PROCÉDÉ DE FONCTIONNEMENT, ET LAMPE DE VÉHICULE CORRESPONDANTE ET VÉHICULE

(57) Abstract:

(EN): 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).

(FR): L'invention concerne un circuit de protection (100) pour la protection contre les courts-circuits à la masse, le circuit (100) comprenant : un circuit à haute conduction (110) destiné à contrôler l'alimentation en puissance électrique pour circuit fonctionnel (1000), le circuit fonctionnel (1000) ayant une fonction élévatrice ; et un sous-circuit de charge (120) destiné à contrôler, sur la base d'une tension d'entrée d'une source d'énergie d'entrée du circuit de protection (100) et d'une tension de sortie du circuit fonctionnel (1000), l'activation ou la désactivation du circuit à haute conduction (110) ; et un circuit accumulateur d'énergie (130) destiné à accumuler la puissance électrique de la source d'énergie d'entrée afin de transmettre la puissance électrique au circuit fonctionnel (1000).

International search report:

Received at International Bureau: 04 March 2020 (04.03.2020) [CN]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM