

Title (en)

VOLTAGE CONVERTER ON BOARD A MOTOR VEHICLE AND ASSOCIATED ELECTRIC CHARGER

Title (de)

SPANNUNGSWANDLER AN BORD EINES KRAFTFAHRZEUGS UND ZUGEHÖRIGES ELEKTRISCHES LADEGERÄT

Title (fr)

CONVERTISSEUR DE TENSION EMBARQUE SUR UN VÉHICULE AUTOMOBILE ET CHARGEUR ÉLECTRIQUE ASSOCIE

Publication

EP 3682536 A1 20200722 (FR)

Application

EP 18782780 A 20180911

Priority

- FR 1758387 A 20170911
- FR 2018052214 W 20180911

Abstract (en)

[origin: WO2019048806A1] The invention relates to a voltage converter (200) on board a motor vehicle, for converting a first voltage into a second voltage different from the first voltage, comprising: - a plurality of cells (C), each comprising an arm of transistors (T3, T4) controlled as a chopper to generate the second voltage; - at least one isolation transistor (K3-R); and - a circuit (210) for controlling the transistors, the control circuit (210) being configured to be able to selectively keep said at least one isolation transistor (K3-R) open so as to decouple a cell of the plurality of cells and to use the arm (K5, K6) of said cell to supply a third output voltage.

IPC 8 full level

H02M 3/158 (2006.01); **B60L 1/00** (2006.01); **H02J 1/12** (2006.01); **H02M 1/00** (2006.01)

CPC (source: EP)

B60L 3/04 (2013.01); **B60L 53/22** (2019.01); **H02J 1/12** (2013.01); **H02M 3/1582** (2013.01); **H02M 3/1584** (2013.01); **B60L 3/0092** (2013.01); **B60L 2210/10** (2013.01); **H02M 1/008** (2021.05); **H02M 1/009** (2021.05); **H02M 3/1586** (2021.05)

Citation (search report)

See references of WO 2019048806A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019048806 A1 20190314; CN 111316550 A 20200619; EP 3682536 A1 20200722; FR 3071109 A1 20190315; JP 2020533935 A 20201119; JP 2022110111 A 20220728

DOCDB simple family (application)

FR 2018052214 W 20180911; CN 201880072079 A 20180911; EP 18782780 A 20180911; FR 1758387 A 20170911; JP 2020514583 A 20180911; JP 2022081899 A 20220518