

Title (en)

WATER-BORNE VEHICLE HAVING A POWER SUPPLY UNIT

Title (de)

WASSERGEBUNDENES FAHRZEUG MIT EINER ENERGIEVERSORGUNGSEINRICHTUNG

Title (fr)

VÉHICULE MARIN ÉQUIPÉ D'UN DISPOSITIF D'ALIMENTATION EN ÉNERGIE

Publication

EP 3685484 A1 20200729 (DE)

Application

EP 18839812 A 20181220

Priority

- DE 102018200485 A 20180112
- EP 2018086330 W 20181220

Abstract (en)

[origin: WO2019137787A1] The invention relates to a water-borne vehicle comprising a power supply unit (24), said power supply unit (24) comprising fuel cell modules (1) and DC-to-DC converters (16). The DC-to-DC converters (16) are electrically connected, in series, to a DC bus (25). The DC-to-DC converters (16) have a galvanic isolation (18). The DC-to-DC converters (16) supply electricity, in series, to a DC bus (25).

IPC 8 full level

H02J 1/10 (2006.01); **H02J 1/00** (2006.01); **H02M 1/00** (2006.01)

CPC (source: EP KR)

B60F 3/00 (2013.01 - KR); **H02J 1/10** (2013.01 - EP KR); **H02M 1/0077** (2021.05 - KR); **H02M 1/325** (2021.05 - KR); **H02M 3/04** (2013.01 - KR); **H02J 2300/30** (2020.01 - EP KR); **H02J 2310/42** (2020.01 - EP KR); **H02M 1/0077** (2021.05 - EP); **H02M 1/325** (2021.05 - EP); **H02M 3/04** (2013.01 - EP); **Y02T 90/40** (2013.01 - EP KR)

Citation (examination)

- US 2016241079 A1 20160818 - ADEST MEIR [IL], et al
- PALMA L ET AL: "A Modular Fuel Cell, Modular DC-DC Converter Concept for High Performance and Enhanced Reliability", IEEE TRANSACTIONS ON POWER ELECTRONICS, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, USA, vol. 24, no. 6, 1 June 2009 (2009-06-01), pages 1437 - 1443, XP011257755, ISSN: 0885-8993
- See also references of WO 2019137787A1

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 2019137787 A1 20190718; AU 2018401946 A1 20200625; AU 2018401946 B2 20210624; DE 102018200485 A1 20190718; EP 3685484 A1 20200729; KR 20200105715 A 20200908

DOCDB simple family (application)

EP 2018086330 W 20181220; AU 2018401946 A 20181220; DE 102018200485 A 20180112; EP 18839812 A 20181220; KR 20207022878 A 20181220