

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)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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