

Title (en)
DC-DC CONVERTER FOR CONTROLLING AN AIRCRAFT FAN INVERTER, AND ASSOCIATED CONTROL METHOD AND FAN

Title (de)
GLEICHSPANNUNGSWANDLER ZUR STEUERUNG EINES FLUGZEUGGEBLÄSEWECHSELRICHTERS UND ZUGEHÖRIGES STEUERUNGSVERFAHREN UND GEBLÄSE

Title (fr)
CONVERTISSEUR CONTINU-CONTINU POUR LE PILOTAGE D'UN ONDULEUR DE VENTILATEUR D'AÉRONEF, PROCÉDÉ DE COMMANDE ET VENTILATEUR ASSOCIÉS

Publication
EP 3308455 A1 20180418 (FR)

Application
EP 16731243 A 20160607

Priority
• FR 1555330 A 20150611
• FR 2016051361 W 20160607

Abstract (en)
[origin: WO2016198783A1] The invention concerns a DC-DC power converter, suitable for being powered by a primary voltage source and for powering an electronic control system of a three-phase inverter, said three-phase inverter being configured to control a fan of an aircraft ventilation system. The DC-DC converter is characterised in that it comprises a transformer (16), a primary circuit (12) comprising two loops forming a push-pull configuration, at least one secondary circuit (14) comprising a secondary winding (LS), suitable for supplying, to the inverter, an output voltage equal to double the peak voltage at the terminals of the secondary winding (LS), and, to a branch of the circuit suitable for supplying the inverter, an output voltage equal to the opposite of the peak voltage at the terminals of the secondary winding (LS), and in that the controllable transistors (M1, M2) are suitable for each being switched to zero voltage.

IPC 8 full level
H02M 3/337 (2006.01); **H02M 1/38** (2007.01); **H02M 7/10** (2006.01)

CPC (source: EP US)
H02M 1/083 (2013.01 - US); **H02M 3/337** (2013.01 - EP US); **B64D 13/00** (2013.01 - US); **H02M 1/0058** (2021.05 - EP US); **H02M 1/0067** (2021.05 - US); **H02M 1/007** (2021.05 - US); **H02M 1/008** (2021.05 - EP US); **H02M 1/38** (2013.01 - EP US); **H02M 7/103** (2013.01 - EP US); **Y02B 70/10** (2013.01 - EP US)

Citation (search report)
See references of WO 2016198783A1

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 2016198783 A1 20161215; CN 107852097 A 20180327; EP 3308455 A1 20180418; FR 3037453 A1 20161216; FR 3037453 B1 20170602; US 10396650 B2 20190827; US 2018138800 A1 20180517

DOCDB simple family (application)
FR 2016051361 W 20160607; CN 201680038689 A 20160607; EP 16731243 A 20160607; FR 1555330 A 20150611; US 201615580155 A 20160607