

Title (en)

AC/AC CONVERTER FOR CONVERSION BETWEEN THREE PHASE AND SINGLE PHASE POWER SUPPLIES

Title (de)

AC/AC-WANDLER ZUM WECHSELN ZWISCHEN DREIPHASIGER UND EINPHASIGER STROMVERSORGUNG

Title (fr)

CONVERTISSEUR CA/CA POUR CONVERSION ENTRE ALIMENTATIONS ÉLECTRIQUES TRIPHASÉE ET MONOPHASÉE

Publication

EP 3011665 A4 20170426 (EN)

Application

EP 14814235 A 20140620

Priority

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- IN 2014000414 W 20140620

Abstract (en)

[origin: WO2014203282A2] A bi-directional AC/AC converter is designed to provide improved AC/AC power conversion along with reduced switching losses, reduced harmonic distortion and improved power factor. The converter is characterized by bi-directional switches comprising IGBTs that are selectively turned ON to generate an output AC voltage having a frequency in the range of 50 Hz to 30 kHz. The conduction of IGBTs for each phase of a three phase supply is controlled by a control circuit provided therein.

IPC 8 full level

H02M 1/00 (2007.01); **H01P 1/00** (2006.01); **H02M 5/00** (2006.01); **H03K 17/00** (2006.01)

CPC (source: EP)

H02M 5/293 (2013.01); **H02M 5/14** (2013.01)

Citation (search report)

- [X] US 2012300511 A1 20121129 - ITOH JUNICHI [JP], et al
- [X] EP 2120319 A1 20091118 - MEIDENSHA ELECTRIC MFG CO LTD [JP]
- [X] WO 2013035782 A1 20130314 - NISSAN MOTOR [JP], et al & EP 2755313 A1 20140716 - NISSAN MOTOR [JP], et al
- [A] EP 2017947 A1 20090121 - DAIKIN IND LTD [JP]
- See references of WO 2014203282A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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