

Title (en)

POWER-CONVERSION METHOD AND DEVICE AND VEHICLE COMPRISING SUCH A DEVICE

Title (de)

STROMUMWANDLUNGSVERFAHREN UND -VORRICHTUNG SOWIE FAHRZEUG MIT SOLCH EINER VORRICHTUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF DE CONVERSION DE COURANT ET VÉHICULE COMPORTANT UN TEL DISPOSITIF

Publication

**EP 3243270 A1 20171115 (FR)**

Application

**EP 16702170 A 20160106**

Priority

- FR 1550045 A 20150106
- FR 2016050012 W 20160106

Abstract (en)

[origin: CA2972945A1] The present invention relates to a power-conversion method (10) for a vehicle comprising: a three-phase electric motor, - two three-phase inverters, each inverter being controlled via modulation of at least six spatial vectors, the output voltage of each inverter being given by a spatial vector referred to as "reference spatial vector". Said method comprises the following steps: - applying (11) an activation sequence to the spatial vectors of one inverter, - applying (12) an activation sequence to the spatial vectors of the other inverter, - subtracting (13) the reference spatial vector of one inverter from the reference spatial vector of the other inverter and - supplying (14) the electric motor with electric power, the voltage inducing the electric power being relative to the vector resulting from the subtraction.

IPC 8 full level

**H02P 27/08** (2006.01); **H02M 7/5387** (2007.01)

CPC (source: EP KR US)

**B60L 50/51** (2019.01 - EP KR US); **H02M 1/0058** (2021.05 - KR); **H02M 1/12** (2013.01 - KR US); **H02M 1/14** (2013.01 - KR US); **H02M 1/44** (2013.01 - US); **H02M 7/53873** (2013.01 - EP KR US); **H02M 7/5395** (2013.01 - KR US); **H02P 21/22** (2016.02 - KR US); **H02P 27/08** (2013.01 - EP KR US); **B60L 2210/44** (2013.01 - KR US); **B60L 2220/14** (2013.01 - KR US); **H02M 1/0058** (2021.05 - US); **Y02B 70/10** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP)

Citation (search report)

See references of WO 2016110643A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**FR 3031423 A1 20160708**; **FR 3031423 B1 20181130**; AU 2016205951 A1 20170706; CA 2972945 A1 20160714; CN 108124501 A 20180605; EP 3243270 A1 20171115; JP 2018506253 A 20180301; KR 20180020941 A 20180228; RU 2017127568 A 20190207; US 2018026567 A1 20180125; WO 2016110643 A1 20160714

DOCDB simple family (application)

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