

Title (en)

METHOD AND DEVICE FOR OPTIMIZING SPACE VECTOR PULSE WIDTH MODULATION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR OPTIMIERUNG EINER RAUMZEIGERPULSWEITENMODULATION

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR L'OPTIMISATION D'UNE MODULATION DE LARGEUR D'IMPULSION À VECTEUR SPATIAL

Publication

**EP 2297845 A2 20110323 (DE)**

Application

**EP 09772248 A 20090529**

Priority

- EP 2009056599 W 20090529
- DE 102008040144 A 20080703

Abstract (en)

[origin: WO2010000548A2] The invention relates to a method for optimizing space-vector pulse width modulation. A voltage (U<sub>z</sub>) is connected to a load (1) by combining discrete switching states of a plurality of switches (T1, T2, T3, T4, T5, T6) to control the load (1), the load (1) being switched zero voltage by two of the switching states (0, 7). The method according to the invention is characterized in that least one of the zero voltage switching states (0, 7) is omitted during a pulse width modulation period, thereby increasing the maximum control degree.

IPC 8 full level

**H02P 27/06** (2006.01)

CPC (source: EP US)

**H02P 27/06** (2013.01 - EP US); **H02P 27/08** (2013.01 - EP US)

Citation (search report)

See references of WO 2010000548A2

Citation (examination)

EP 1748543 A1 20070131 - BOSCH GMBH ROBERT [DE]

Cited by

DE102017206023A1; WO2018184814A1

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**DE 102008040144 A1 20100107**; CN 102084588 A 20110601; CN 102084588 B 20140730; EP 2297845 A2 20110323; US 2011149621 A1 20110623; US 8441818 B2 20130514; WO 2010000548 A2 20100107; WO 2010000548 A3 20110310

DOCDB simple family (application)

**DE 102008040144 A 20080703**; CN 200980125782 A 20090529; EP 09772248 A 20090529; EP 2009056599 W 20090529; US 73735209 A 20090529