Title (en)

TORQUE CONTROL FOR AC MOTORS

Title (de)

DREHMOMENTSTEUERUNG FÜR WECHSELSTROMMOTOREN

Title (fr)

COMMANDE DE COUPLE POUR DES MOTEURS À COURANT ALTERNATIF

Publication

EP 2156546 A4 20140723 (EN)

Application

EP 08748040 A 20080606

Priority

- AU 2008000807 W 20080606
- AU 2007903111 A 20070608

Abstract (en)

[origin: WO2008148160A1] A system for controlling the torque of a polyphase alternating current (AC) induction motor, including: a triggerable bi-directional electronic switch (50) for conducting an AC current, when the switch is triggered, to the AC induction motor (28); a pulse width modulated (PWM) signal generator (46) for generating a PWM signal; and zero cross circuitry (58, 60, 62) for detecting zero cross points of an AC power supply (44) which occur during pulses of the PWM signal, the zero cross circuitry generating an output pulse for triggering the bi-directional electronic switch at each detected zero cross point, wherein the duty cycle of the PWM signal is set to control the average torque of the AC induction motor.

IPC 8 full level

H02P 6/08 (2006.01); **H02M 5/257** (2006.01); **H02P 27/06** (2006.01); **H02P 27/18** (2006.01)

CPC (source: EP)

B65B 13/06 (2013.01); **B65B 13/22** (2013.01); **B65B 13/32** (2013.01); **B65B 65/02** (2013.01); **H02M 5/2576** (2013.01); **H02P 27/18** (2013.01)

Citation (search report)

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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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008148160 A1 20081211; EP 2156546 A1 20100224; EP 2156546 A4 20140723; JP 2010529822 A 20100826

DOCDB simple family (application)

AU 2008000807 W 20080606; EP 08748040 A 20080606; JP 2010510613 A 20080606