

Title (en)

METHOD AND CIRCUIT ARRANGEMENT FOR RECORDING A CURRENT OF A PULSE-WIDTH MODULATION-CONTROLLED ELECTRIC MOTOR

Title (de)

VERFAHREN UND SCHALTUNGSANORDNUNG ZUR ERFASSUNG DES STROMES EINES DURCH PULSWEITENMODULATION GESTEUERTEN ELEKTROMOTORS

Title (fr)

PROCEDE ET CIRCUIT POUR DETECTER LE COURANT D'UN MOTEUR ELECTRIQUE COMMANDE PAR MODULATION D'IMPULSIONS EN LARGEUR

Publication

EP 1851849 A1 20071107 (DE)

Application

EP 05821651 A 20051214

Priority

- EP 2005056770 W 20051214
- DE 102005006503 A 20050214

Abstract (en)

[origin: WO2006084520A1] The invention relates to a method and a circuit arrangement for recording a current of a pulse-width modulation-controlled electric motor (10) which is powered by a constant voltage supply network and connectable thereto by means of a semiconductor switching device (18) and a shunt device (20), wherein the controll of the semiconductor switching device is modifiable by a voltage drop. According to said invention, the recording and adjustment of the motor current (I_{SH}) are carried out by detecting the voltage drop (U_{SH}) of the shunt device (20) with the aid of a scanning and holding element (T2, 26) and by deactivating the semiconductor switching device with respect to the scanning and holding element at least in a time-delay manner in such a way that a measurement value proportional to the actual current quantity (I_1) of the motor is recorded and the adjustment is based thereon

IPC 8 full level

H02P 7/29 (2006.01)

CPC (source: EP)

H02P 7/29 (2013.01); **H02P 27/08** (2013.01); **H02M 1/0009** (2021.05)

Citation (search report)

See references of WO 2006084520A1

Designated contracting state (EPC)

DE ES FR IT SE

DOCDB simple family (publication)

WO 2006084520 A1 20060817; DE 102005006503 A1 20060824; EP 1851849 A1 20071107

DOCDB simple family (application)

EP 2005056770 W 20051214; DE 102005006503 A 20050214; EP 05821651 A 20051214