

Title (en)  
METHOD FOR POWERING A POLYPHASED ELECTRIC MOTOR WITH ELECTRONIC SWITCHING, AND SUPPLY CIRCUIT FOR IMPLEMENTING SAME

Title (de)  
VERFAHREN ZUR SPEISUNG EINES MEHRPHASIGEN, ELEKTRONISCH KOMMUTIERTEN MOTORS UND SCHALTKREIS ZU SEINER ANWENDUNG

Title (fr)  
PROCEDE POUR ALIMENTER UN MOTEUR ELECTRIQUE POLYPHASE A COMMUTATION ELECTRONIQUE, ET CIRCUIT D'ALIMENTATION POUR SA MISE EN OEUVRE

Publication  
**EP 1082808 A1 20010314 (FR)**

Application  
**EP 99925055 A 19990528**

Priority  
• FR 9901259 W 19990528  
• FR 9807117 A 19980605

Abstract (en)  
[origin: FR2779587A1] The invention concerns a method for powering a polyphased electric motor with electronic switching (M) from a live power source (A), comprising a passive electrical filtering downstream of the power source (A), a conversion of the voltage supplied by the source (A) for powering the motor (M) phases, using a set of controllable switches presenting either an on-state, or an off-state, each combination of switch states defining a conversion configuration, regulating feeding current based on a current set value (I<sub>cons</sub>), and a sequence of magnetisation and demagnetisation cycles of the engine (M) initiated by set values for magnetising or demagnetising the phases. Said method further comprises, for at least a cycle sequencing period, several conversion configuration couples so that the supply average current best observes the current set value (I<sub>cons</sub>). The invention is useful for powering electrical household appliances.

IPC 1-7  
**H02P 7/05**

IPC 8 full level  
**H02P 6/08** (2006.01); **F01M 11/00** (2006.01); **F02B 77/13** (2006.01); **H02P 6/00** (2006.01)

CPC (source: EP US)  
**F01M 11/0004** (2013.01 - EP US); **F02B 77/13** (2013.01 - EP US); **H02P 6/00** (2013.01 - EP); **H02P 6/28** (2016.02 - EP US); **H02P 6/34** (2016.02 - EP US)

Citation (search report)  
See references of WO 9965139A1

Designated contracting state (EPC)  
CH DE DK ES GB IE IT LI NL

DOCDB simple family (publication)  
**FR 2779587 A1 19991210; FR 2779587 B1 20000818**; AU 4147799 A 19991230; CN 1311916 A 20010905; EP 1082808 A1 20010314; JP 2002518971 A 20020625; KR 20010052601 A 20010625; TR 200100304 T2 20010521; US 6459221 B1 20021001; WO 9965139 A1 19991216

DOCDB simple family (application)  
**FR 9807117 A 19980605**; AU 4147799 A 19990528; CN 99809368 A 19990528; EP 99925055 A 19990528; FR 9901259 W 19990528; JP 2000554048 A 19990528; KR 20007013799 A 20001205; TR 200100304 T 19990528; US 70183201 A 20010207