Title (en)

MULTIPHASE MOTOR VOLTAGE CONTROL FOR PHASE WINDINGS OF DIFFERENT WIRE GAUGES AND WINDING TURNS

Title (de)

MEHRPHASIGER MOTOR SPANNUNGSREGELUNG FÜR PHASENWICKLUNGEN DIE SICH IN ZAHL UND DURCHMESSER UNTERSCHEIDEN

Title (fr)

COMMANDE DE TENSION DE MOTEUR POLYPHASE POUR ENROULEMENTS DE PHASE PRESENTANT DIFFERENTES EPAISSEURS DE FIL ET DES SPIRES D'ENROULEMENT DIFFERENTES

Publication

EP 1588479 A2 20051026 (EN)

Application

EP 04706436 A 20040129

Priority

- US 2004002376 W 20040129
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- US 35289603 A 20030129

Abstract (en)

[origin: WO2004070882A2] A multiphase motor has a plurality of ferromagnetically isolated stator electromagnets distributed about an axis of rotation. Successive ranges of speed during which the motor can be expected to operate are defined. A specific subset of the electromagnets is associated for each speed range, each specific subset comprising a different combination of electromagnets. Respective voltage magnitudes to be applied to each phase winding for each defined speed range are predefined. The motor speed is sensed throughout motor operation. In each defined speed range, only the electromagnets of the associated subset are energized, each of the energized electromagnets having applied thereto a different predefined voltage magnitude.

IPC 1-7

H02P 6/00; H02P 6/08

IPC 8 full level

H02P 6/00 (2006.01); **H02P 6/08** (2006.01); **H02P 7/00** (2006.01)

IPC 8 main group level

H01R (2006.01)

CPC (source: EP KR US)

H02P 6/08 (2013.01 - EP KR); **H02P 6/32** (2016.02 - US); **H02P 7/00** (2013.01 - KR); **H02P 25/16** (2013.01 - EP)

Citation (search report)

See references of WO 2004070882A2

Designated contracting state (EPC)

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