

Title (en)

ELECTRIC DRIVE SYSTEM WITH AN ELECTRONICALLY COMMUTED D.C. MOTOR IN ORDER TO REDUCE TORQUE IRREGULARITIES

Title (de)

ELEKTRISCHE ANTRIEBSANORDNUNG MIT EINEM ELEKTRONISCH KOMMUTIERTEN GLEICHSTROMMOTOR ZUR VERMINDERUNG DER DREHMOMENTSWELLIGKEIT

Title (fr)

SYSTEME D'ENTRAINEMENT ELECTRIQUE A MOTEUR A COURANT CONTINU COMMUTE ELECTRONIQUEMENT POUR REDUIRE L'ONDULATION DE COUPLE

Publication

**EP 1112614 A1 20010704 (DE)**

Application

**EP 00954521 A 20000717**

Priority

- DE 19933156 A 19990720
- EP 0006809 W 20000717

Abstract (en)

[origin: DE19933156A1] The invention relates to an electric drive system comprising a d.c. motor (2) with a control circuit provided with an electronic commutator (3). The invention is characterized in that it provides for a derivation of the adjustment signal ( $V_{i\_ref}$ ) originating from the induced motor voltage ( $E_{sample}$ ) detected by a measuring device and from a reference value ( $V_{i\_av}$ ) which is used to regulate the speed of the d.c. motor. The invention is further characterized in that the derived adjustment signal ( $V_{i\_ref}$ ) is used to produce a substantially constant torque for said d.c.motor (2) by adjusting the motor currents ( $i_a$ ,  $i_b$ ,  $i_c$ ).

IPC 1-7

**H02P 6/10**

IPC 8 full level

**G11B 19/28** (2006.01); **H02P 6/08** (2016.01); **H02P 6/10** (2006.01)

CPC (source: EP KR US)

**H02P 6/085** (2013.01 - EP US); **H02P 6/10** (2013.01 - EP KR US)

Citation (search report)

See references of WO 0106633A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**DE 19933156 A1 20010125**; CN 1318221 A 20011017; EP 1112614 A1 20010704; JP 2003506002 A 20030212; KR 20010079870 A 20010822; US 6408130 B1 20020618; WO 0106633 A1 20010125

DOCDB simple family (application)

**DE 19933156 A 19990720**; CN 00801440 A 20000717; EP 0006809 W 20000717; EP 00954521 A 20000717; JP 2001510971 A 20000717; KR 20017003565 A 20010320; US 78745601 A 20010319