

Title (en)
ESTIMATION METHOD

Title (de)
SCHÄTZVERFAHREN

Title (fr)
METHODE D'ESTIMATION

Publication
EP 1609232 A1 20051228 (EN)

Application
EP 04720782 A 20040315

Priority
• SE 2004000374 W 20040315
• US 45431403 P 20030314

Abstract (en)
[origin: WO2004082105A1] A field current estimator for estimating the field current in a brushless excited synchronous apparatus comprising an exciter having a stator part and an rotor part comprising a rectifier, and a machine having a stator part and a rotor part and a field winding. The field current estimator comprises: a first calculating unit, calculating the voltages (Vra,Vrb,Vrc) of the exciter rotor part based on measured values of the current (is) and voltage (us) of the exciter stator part, by means of a mathematical model of the exciter, a second calculating unit, calculating the voltage (vff) of the field winding based on the calculated voltage (Vra,Vrb,Vrc) of the exciter rotor part, by means of a mathematical model of the rectifier, and a third calculating unit, calculating the field current (iff) of the field winding based on the calculated voltage (vff) of the field winding, by means of a mathematical model of the field winding.

IPC 1-7
H02K 19/38; **H02P 21/00**

IPC 8 full level
H02P 21/14 (2006.01); **H02P 23/14** (2006.01)

CPC (source: EP)
H02P 23/14 (2013.01); **H02P 2207/05** (2013.01)

Citation (search report)
See references of WO 2004082105A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004082105 A1 20040923; BR PI0408343 A 20060321; CA 2518953 A1 20040923; EP 1609232 A1 20051228

DOCDB simple family (application)
SE 2004000374 W 20040315; BR PI0408343 A 20040315; CA 2518953 A 20040315; EP 04720782 A 20040315