

Title (en)

ELECTRIC MACHINE COMPRISING A WINDING SYSTEM WITH COIL GROUPS

Title (de)

ELEKTRISCHE MASCHINE MIT EINEM WICKLUNGSSYSTEM MIT SPULENGRUPPEN

Title (fr)

MOTEUR ELECTRIQUE POURVU D'UN SYSTEME D'ENROULEMENTS COMPORTANT DES GROUPES DE BOBINES

Publication

EP 1882293 A1 20080130 (DE)

Application

EP 06755200 A 20060516

Priority

- EP 2006062325 W 20060516
- DE 102005022548 A 20050517

Abstract (en)

[origin: WO2006122927A1] Disclosed is an electric machine (1) comprising a stator (2) that encompasses a winding system (10) with three winding branches, and a certain number of effective pole pairs. Each winding branch is provided with at least one coil group, each of which contains an even number of serially connected individual coils (11) that generate an individual magnetic field, respectively. Two respective individual coils (11) of a coil group are offset relative to each other in a circumferential direction of the stator (2) in such a way that the associated individual magnetic fields are provided with an offset electrical angle relative to one another at the sixth harmonic of the number of effective pole pairs, said offset electrical angle being equal to an odd multiple of 180°.

IPC 8 full level

H02K 3/28 (2006.01); **H02K 1/14** (2006.01)

CPC (source: EP US)

H02K 3/28 (2013.01 - EP US); **H02K 21/16** (2013.01 - EP US)

Citation (search report)

See references of WO 2006122927A1

Citation (examination)

HANSELMAN, DUANE C.: "Brushless permanent magnet motor design 2nd Edition", 2003, THE WRITERS' COLLECTIVE, CRANSTON RHODE ISLAND, United States of America, ISBN: 1-932133-63-1

Citation (third parties)

Third party :

- DR. DUANE HANSELMAN: "Brushless permanent magnet motor design, 2nd ed.", 2003, THE WRITER'S COLLECTIVE, USA, ISBN: 1932133631, article "Chapter 10 - Examples", XP003021433
- HUTH G., QIAN K.: "Permanentmagneterregte AC-servomotoren mit vereinfachten Wicklungssystemen", pages 7 PG-S, XP003021434

Designated contracting state (EPC)

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