

Title (en)

ALTERNATOR FOR MOTOR VEHICLES

Title (de)

WECHSELSTROMGENERATOR FÜR KRAFTFAHRZEUGE

Title (fr)

GENERATEUR DE COURANT ALTERNATIF POUR VEHICULES AUTOMOBILES

Publication

EP 2030305 A1 20090304 (DE)

Application

EP 07729841 A 20070604

Priority

- EP 2007055453 W 20070604
- DE 102006026402 A 20060607

Abstract (en)

[origin: WO2007141230A1] An alternator is proposed for motor vehicles, having a rotor (20) whose poles (32) are in the form of claw-type poles. In order to improve the design options for the stator of the machine, its polyphase winding is in the form of a fractional-slot winding, thus creating a large number of additional options in particular for selection of the number of slots (N), thus not only considerably simplifying and reducing the cost of manufacture, but also at the same time making it possible to improve the electrical characteristics.

IPC 8 full level

H02K 3/28 (2006.01); **H02K 19/22** (2006.01)

CPC (source: EP US)

H02K 3/28 (2013.01 - EP US)

Citation (search report)

See references of WO 2007141230A1

Citation (examination)

- JP 2000341890 A 20001208 - DENSO CORP
- DE 19511920 A1 19960926 - SIEMENS AG [DE]
- US 5654602 A 19970805 - WILLYOUNG DAVID M [US]
- JP S60131042 A 19850712 - TOSHIBA KK
- SPOONER E ET AL: "Direct coupled, permanent magnet generators for wind turbine applications", IEE PROCEEDINGS: ELECTRIC POWER APPLICATIONS, INSTITUTION OF ELECTRICAL ENGINEERS, GB, vol. 143, no. 1, 8 January 1996 (1996-01-08), pages 1 - 8, XP006006369, ISSN: 1350-2352, DOI: 10.1049/IP-EPA:19960099

Designated contracting state (EPC)

DE FR IT SI

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

DE 102006026402 A1 20071213; CN 101467332 A 20090624; EP 2030305 A1 20090304; JP 2009540781 A 20091119; JP 5558813 B2 20140723; US 2010156230 A1 20100624; US 8354770 B2 20130115; WO 2007141230 A1 20071213

DOCDB simple family (application)

DE 102006026402 A 20060607; CN 200780021228 A 20070604; EP 07729841 A 20070604; EP 2007055453 W 20070604; JP 2009513660 A 20070604; US 30409807 A 20070604