Title (en)

ALTERNATING CURRENT GENERATOR COMPRISING A STATOR AND A STATOR WINDING INSERTED IN STATOR GROOVES MADE OF WINDING ELEMENTS AND METHOD FOR PRODUCING AN INVENTIVE STATOR

Title (de)

WECHSELSTROMGENERATOR MIT EINEM STÄNDER UND EINER IN STÄNDERNUTEN EINLIEGENDEN STÄNDERWICKLUNG AUS WICKLUNGSELEMENTEN SOWIE EIN VERFAHREN ZUR HERSTELLUNG EINES ERFINDUNGSGEMÄSSEN STÄNDERS

Title (fr)

GÉNÉRATEUR DE COURANT ALTERNATIF COMPRENANT UN STATOR ET UN ENROULEMENT STATORIQUE, INCLUS DANS DES ENCOCHES STATORIQUES, CONSTITUÉ D'ÉLÉMENTS D'ENROULEMENT AINSI QU'UN PROCÉDÉ POUR LA FABRICATION D'UN STATOR SELON LA PRÉSENTE INVENTION

Publication

EP 2106632 A2 20091007 (DE)

Application

EP 08701205 A 20080102

Priority

- EP 2008050018 W 20080102
- DE 102006062594 A 20061229

Abstract (en)

[origin: WO2008081020A2] The invention relates to an alternating current generator, particularly a three-phase current generator for a motor vehicle, comprising a rotor (20) with north and south poles, particularly with claw pole fingers (24, 25) extending in the axial direction, wherein the fingers alternate on the circumference of the rotor (20) as north and south poles, a stator (16), which has a magnetic core, particularly a laminated core (17), grooves (15), and a stator winding (18) disposed in the grooves (15) of the magnetic core. The stator winding (18) comprises end windings (45, 46), which can be cooled by a substantially radial air flow, which is produced by at least one fan (30) provided on the rotor (20), wherein the stator (16) is disposed opposite of the rotor (20) and wherein the stator (16) and the rotor (20) have defined positions in relation to one another. The multi-phase stator winding (18) is made of winding elements (60, 61, 62, 63, 64, 65, 66, 67), wherein at least one winding element has more than two sections inserted in grooves, and wherein at least one winding element (60, 61, 62, 63, 64, 65, 66, 67) has more than one reversal section, which brings about a change in the radial position.

IPC 8 full level

H02K 3/28 (2006.01); **H02K 9/06** (2006.01)

CPC (source: EP US)

H02K 3/28 (2013.01 - EP US); **H02K 15/045** (2013.01 - EP US); H02K 9/06 (2013.01 - EP US); Y10T 29/49009 (2015.01 - EP US)

Citation (search report)

See references of WO 2008081020A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008081020 A2 20080710; **WO 2008081020 A3 20090723**; EP 2106632 A2 20091007; JP 2010531127 A 20100916; JP 5537952 B2 20140702; US 2011043059 A1 20110224; US 8878413 B2 20141104

DOCDB simple family (application)

EP 2008050018 W 20080102; EP 08701205 A 20080102; JP 2009543487 A 20080102; US 52160708 A 20080102