

Title (en)

HIGH EFFICIENCY AC DC ELECTRIC MOTOR, ELECTRIC POWER GENERATING SYSTEM WITH VARIABLE SPEED, VARIABLE POWER, GEOMETRIC ISOLATION AND HIGH EFFICIENCY CONDUCTING ELEMENTS.

Title (de)

HOCHEFFIZIENTER WECHSELSTROM-/GLEICHSTROM-ELEKTROMOTOR, STROMERZEUGUNGSSYSTEM MIT VARIABLER GESCHWINDIGKEIT, MIT VARIABLER LEISTUNG, GEOMETRISCHER ISOLIERUNG UND LEITENDEN ELEMENTEN MIT HOHEM WIRKUNGSGRAD

Title (fr)

MOTEUR ÉLECTRIQUE CA/CC À HAUTE EFFICACITÉ, SYSTÈME DE GÉNÉRATION D'ÉLECTRICITÉ À VITESSE VARIABLE, PUISSANCE VARIABLE, ISOLATION GÉOTHERMIQUE ET ÉLÉMENTS CONDUCTEURS À HAUTE EFFICACITÉ

Publication

EP 2878072 A4 20170118 (EN)

Application

EP 13790424 A 20130521

Priority

- US 201261688669 P 20120518
- US 201261688668 P 20120518
- US 2012069449 W 20121213
- US 201361852304 P 20130315
- IB 2013054184 W 20130521

Abstract (en)

[origin: WO2013171728A2] A method and apparatus for reducing electromagnetic drag in an electric machine may include a laminated stator having wire slots disposed around the inner periphery spaced into sectors separated by a pole iron support structure. The slots contain induction windings. A series of wound lateral pole irons may be arranged around the inner periphery of the stator, the first ends of which extend into the slots in the sectors. A support structure supports the lateral pole irons by forming a circular opening concentric with the inner periphery of the stator. A rotor may be inserted into the circular opening of the lateral pole iron support structure and supported at the stator lateral pole iron ends by a support means. A plurality of rotor inserts may contain free- wheeling permanent magnet inserts spaced along an outer periphery of the rotor. The rotor may be inserted into the circular opening of the lateral pole iron support structure and the free- wheeling permanent magnet inserts may be inserted into cavities along the outer periphery of the rotor.

IPC 8 full level

H02K 53/00 (2006.01); **H02K 16/00** (2006.01); **H02N 11/00** (2006.01)

CPC (source: CN EP KR)

H02K 53/00 (2013.01 - CN EP KR)

Citation (search report)

- [A] WO 2011048463 A1 20110428 - HOLCOMB ROBERT RAY [US], et al
- See references of WO 2013171728A2

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2013171728 A2 20131121; WO 2013171728 A3 20140410; AP 2015008543 A0 20150630; AU 2013261039 A1 20150122; AU 2017202527 A1 20170511; BR 112014028772 A2 20190924; CA 2873973 A1 20131121; CL 2014003133 A1 20150828; CN 104662785 A 20150527; DO P2014000261 A 20150430; EP 2878072 A2 20150603; EP 2878072 A4 20170118; HK 1207215 A1 20160122; IL 235727 A0 20150129; IL 235727 B 20181129; IN 2979KON2014 A 20150508; JP 2015534423 A 20151126; KR 20150035712 A 20150407; MX 2014013945 A 20151113; MX 352151 B 20171110; PE 20150577 A1 20150527; PH 12014502559 A1 20150121; SG 11201407477R A 20141230; TN 2014000477 A1 20160330

DOCDB simple family (application)

IB 2013054184 W 20130521; AP 2015008543 A 20130521; AU 2013261039 A 20130521; AU 2017202527 A 20170418; BR 112014028772 A 20130521; CA 2873973 A 20130521; CL 2014003133 A 20141118; CN 201380035871 A 20130521; DO 2014000261 A 20141117; EP 13790424 A 20130521; HK 15107615 A 20150807; IL 23572714 A 20141117; IN 2979KON2014 A 20141218; JP 2015512190 A 20130521; KR 20147035680 A 20130521; MX 2014013945 A 20130521; PE 2014002037 A 20130521; PH 12014502559 A 20141117; SG 11201407477R A 20130521; TN 2014000477 A 20141113