Title (en)

AMORPHOUS METAL STATOR FOR A RADIAL-FLUX ELECTRIC MOTOR

Title (de)

STATOR AUS AMORPHEM METALL FÜR EINEN ELEKTRISCHEN MOTOR MIT RADIAL-FLUSS

Title (fr)

STATOR EN METAL AMORPHE POUR MOTEUR ELECTRIQUE A FLUX RADIAL

Publication

EP 1088382 A1 20010404 (EN)

Application

EP 99930379 A 19990617

Priority

- US 9913732 W 19990617
- US 9978698 A 19980618

Abstract (en)

[origin: WO9966624A1] An amorphous metal stator for a high efficiency radial-flux electric motor has a plurality of segments, each of which includes a plurality of layers of amorphous metal strips. The plural segments are arranged to form a generally cylindrical stator having a plurality of teeth sections or poles protruding radially inward from the inner surface of the stator. In a first embodiment, the stator back-iron and teeth are constructed such that radial flux passing through the stator crosses just one air gap when traversing each segment of the stator. In a second embodiment, the stator back-iron and teeth are constructed such that radial flux passing through the stator traverses each segment without crossing an air gap.

IPC 1-7

H02K 1/14; H02K 15/02

IPC 8 full level

C22C 45/02 (2006.01); **H01F 3/04** (2006.01); **H02K 1/02** (2006.01); **H02K 1/14** (2006.01); **H02K 1/18** (2006.01); **H02K 15/02** (2006.01)

CPC (source: EP KR)

H02K 1/14 (2013.01 - KR); **H02K 1/141** (2013.01 - EP); **H02K 1/148** (2013.01 - EP); **H02K 15/022** (2013.01 - EP); H02K 1/02 (2013.01 - EP)

Citation (search report)

See references of WO 9966624A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9966624 A1 19991223; AU 4693099 A 20000105; BR 9911296 A 20011002; CA 2334662 A1 19991223; CN 1305656 A 20010725; EP 1088382 A1 20010404; JP 2002518975 A 20020625; JP 2013039030 A 20130221; JP 5122702 B2 20130116; KR 20010052968 A 20010625

DOCDB simple family (application)

US 9913732 W 19990617; AU 4693099 A 19990617; BR 9911296 A 19990617; CA 2334662 A 19990617; CN 99807491 A 19990617; EP 99930379 A 19990617; JP 2000555351 A 19990617; JP 2012195322 A 20120905; KR 20007014354 A 20001216