

Title (en)

ROTOR OF AN ELECTRIC MOTOR AND METHOD FOR PRODUCING THE ROTOR

Title (de)

ROTOR EINES ELEKTROMOTORS UND VERFAHREN ZUR HERSTELLUNG DES ROTORS

Title (fr)

ROTOR DE MOTEUR ÉLECTRIQUE ET PROCÉDÉ DE FABRICATION DU ROTOR

Publication

EP 2923432 A1 20150930 (DE)

Application

EP 13792013 A 20131118

Priority

- DE 102012221422 A 20121123
- EP 2013074024 W 20131118

Abstract (en)

[origin: WO2014079794A1] The invention relates to a rotor of an electric motor, comprising a laminated armature core (1), a shaft, magnets (3) arranged on the circumference of the laminated armature core (1), and a plastic overmold (4). The laminated armature core (1) has at least one associated channel (9) on the circumference of the laminated armature core for each magnet (3), wherein the channels (9) extend parallel to the shaft, and the laminated armature core (1) has radially oriented webs (8) on the circumference, wherein the webs (8) extend parallel to the shaft and a magnet (9) is arranged between each pair of webs (8), and the plastic overmold (4) encloses the laminated armature core (1) and the magnets (3) to such an extent that only the radial outer face of the magnets (3) is free of plastic (4).

IPC 8 full level

H02K 1/27 (2006.01); **H02K 15/03** (2006.01)

CPC (source: CN EP US)

H02K 1/278 (2013.01 - CN EP US); **H02K 1/28** (2013.01 - US); **H02K 15/03** (2013.01 - CN EP US); **H02K 15/10** (2013.01 - US); **H02K 15/12** (2013.01 - US)

Citation (search report)

See references of WO 2014079794A1

Citation (examination)

JP S62247745 A 19871028 - MATSUSHITA SEIKO KK

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)

DE 102012221422 A1 20140528; CN 104798289 A 20150722; EP 2923432 A1 20150930; JP 2016502389 A 20160121; KR 102216971 B1 20210218; KR 20150086484 A 20150728; US 10224772 B2 20190305; US 2015303752 A1 20151022; WO 2014079794 A1 20140530

DOCDB simple family (application)

DE 102012221422 A 20121123; CN 201380060321 A 20131118; EP 13792013 A 20131118; EP 2013074024 W 20131118; JP 2015543400 A 20131118; KR 20157014576 A 20131118; US 201314443868 A 20131118