Title (en)

ROTOR, ELECTRICAL MACHINE AND METHOD FOR PRODUCING A ROTOR

Title (de)

ROTOR, ELEKTRISCHE MASCHINE UND VERFAHREN ZUR HERSTELLUNG EINES ROTORS

Title (fr)

ROTOR, MOTEUR ÉLECTRIQUE ET PROCÉDÉ DE FABRICATION D'UN ROTOR

Publication

EP 3408923 A1 20181205 (DE)

Application

EP 17700253 A 20170111

Priority

- DE 102016201048 A 20160126
- EP 2017050499 W 20170111

Abstract (en)

[origin: WO2017129407A1] According to the invention, in order to construct a rotor (100) of an electrical machine (101) in a simple and cost-effective manner and, in the process, achieve low skin effect losses and a high tilting moment using low tooth tip distribution, the rotor (100) is to be constructed with a substantially cylindrical laminated core (102) comprising axially (A) layered metal sheets, wherein substantially axially (A) extending grooves (103) are formed in the laminated core (102) along a circumferential surface (104) of the laminated core (102), of which grooves some are configured to be open to the circumferential surface (104) via a respective scattering slit (108) extending radially (R) outwards from the groove (103) to said circumferential surface (104), and wherein the electrically and magnetically non-conductive closure elements (110) are accommodated in the scattering slits (108), extending in the axial direction (A) thereof and at least partially interlockingly locking the grooves (103) to the circumferential surface (104). The invention also relates to an electrical machine (101) comprising a rotor (100) of this type and a method for producing a rotor (100) of this type.

IPC 8 full level

H02K 3/487 (2006.01); **H02K 15/00** (2006.01); **H02K 17/16** (2006.01)

CPC (source: EP)

H02K 3/487 (2013.01); **H02K 15/00** (2013.01); **H02K 15/0012** (2013.01); **H02K 15/0018** (2013.01); **H02K 17/16** (2013.01)

Citation (search report)

See references of WO 2017129407A1

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 102016201048 A1 20170727; CN 108496295 A 20180904; EP 3408923 A1 20181205; WO 2017129407 A1 20170803

DOCDB simple family (application)

DE 102016201048 A 20160126; CN 201780008373 A 20170111; EP 17700253 A 20170111; EP 2017050499 W 20170111