

Title (en)

METHOD FOR FORMING A STATOR WINDING, FULL METAL STATOR, AND ELECTRIC MOTOR

Title (de)

VERFAHREN ZUR AUSBILDUNG EINER STATORWICKLUNG, VOLLBLECHSTATOR UND ELEKTROMOTOR

Title (fr)

PROCÉDÉ POUR FORMER UN ENROULEMENT DE STATOR, STATOR EN TÔLE PLEINE ET MOTEUR ÉLECTRIQUE

Publication

EP 4331082 A1 20240306 (DE)

Application

EP 22730718 A 20220519

Priority

- DE 102021205242 A 20210521
- EP 2022063545 W 20220519

Abstract (en)

[origin: WO2022243422A1] The aim of the invention is to design a stator winding of a full metal stator (1) for an electric motor. This is achieved in that a stator laminated core (2) of the full metal stator (1) is equipped with an insulating end plate (14) according to a method. Stator teeth (6) protruding in the radial direction are wound with a winding wire (10). After a specified number of stator teeth (6), the winding wire (10) is guided away from the stator laminated core (2) and then back to the stator laminated core, thereby forming an at least U-shaped loop (24), and the loop (24) is then used to contact a motor electronic unit.

IPC 8 full level

H02K 1/14 (2006.01); **H02K 3/52** (2006.01); **H02K 15/00** (2006.01); **H02K 15/095** (2006.01)

CPC (source: EP US)

H02K 1/146 (2013.01 - EP); **H02K 3/20** (2013.01 - US); **H02K 3/522** (2013.01 - EP); **H02K 15/0068** (2013.01 - EP); **H02K 15/095** (2013.01 - EP US); **H02K 2203/06** (2013.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102021205242 A1 20221124; CN 117426043 A 20240119; EP 4331082 A1 20240306; US 2024097539 A1 20240321; WO 2022243422 A1 20221124

DOCDB simple family (application)

DE 102021205242 A 20210521; CN 202280035040 A 20220519; EP 2022063545 W 20220519; EP 22730718 A 20220519; US 202318515586 A 20231121