

Title (en)

METHOD FOR PRODUCING A WINDING AROUND A PROJECTING POLE FOR A SYNCHRONOUS MOTOR

Title (de)

HERSTELLUNGSVERFAHREN EINER WICKLUNG UM EINEN AUSSPRINGENDEN POL FÜR EINE SYNCHRONMASCHINE

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ENROULEMENT AUTOUR D'UN PÔLE SAILLANT D'UNE MACHINE SYNCHRONE

Publication

EP 3257142 A1 20171220 (DE)

Application

EP 16700414 A 20160112

Priority

- EP 15163237 A 20150410
- EP 2016050431 W 20160112

Abstract (en)

[origin: WO2016162128A1] The invention relates to a method for producing a rotor (1) for a synchronous motor (29) which is suitable for a rotational speed of more than 1000 r.p.m. and comprises at least one field coil (2). The at least one field coil (2) has in each case at least two windings (3) which consist of a plurality of parallel electrically conductively connected rectangular sub-conductors (15). In order for the rotor to be produced cost-effectively and to be used at high speeds and at the high centrifugal force loads associated therewith, according to the invention the field coil (2) is produced by a continuous winding and soldering method. In the production method first of all a plurality of parallel rectangular sub-conductors (15) are joined together lengthwise loosely to form an entire conductor (16), then the entire conductor (16) is wound to form a field coil (2) and finally, directly after the winding, the sub-conductors (15) of the entire conductor (16) are soldered together continuously to form a solid field coil (2) with a rigid entire conductor (16).

IPC 8 full level

H02K 19/16 (2006.01); **H02K 3/18** (2006.01); **H02K 15/095** (2006.01)

CPC (source: CN EP US)

H02K 3/18 (2013.01 - CN EP US); **H02K 3/28** (2013.01 - CN US); **H02K 3/527** (2013.01 - CN); **H02K 15/064** (2013.01 - CN); **H02K 15/095** (2013.01 - EP US); **H02K 19/16** (2013.01 - EP US); **H02K 19/26** (2013.01 - US)

Citation (search report)

See references of WO 2016162128A1

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)

EP 3079242 A1 20161012; BR 112017020543 A2 20180717; CN 107210635 A 20170926; CN 107210635 B 20190802; EP 3257142 A1 20171220; US 2018102697 A1 20180412; WO 2016162128 A1 20161013

DOCDB simple family (application)

EP 15163237 A 20150410; BR 112017020543 A 20160112; CN 201680009230 A 20160112; EP 16700414 A 20160112; EP 2016050431 W 20160112; US 201615565014 A 20160112