

Title (en)
STATOR FOR AN ELECTRIC MACHINE

Title (de)
STATOR FÜR EINE ELEKTRISCHE MASCHINE

Title (fr)
STATOR POUR MACHINE ÉLECTRIQUE

Publication
EP 3577748 A1 20191211 (DE)

Application
EP 18700005 A 20180102

Priority
• DE 102017201533 A 20170131
• EP 2018050021 W 20180102

Abstract (en)
[origin: WO2018141492A1] The invention relates to a stator for an electric machine, comprising an annular laminated core (2) with a longitudinal axis (3) and multiple grooves (4), each of which extends along the longitudinal axis (3). The coil of the stator comprises at least three phases (U, V, W) with two respective sub-sections (13), said phases being distributed into multiple rings (20, 21, 22) in the radial direction. Coil wires (5) connected in series form a sub-section (13). Multiple wires (5) which are arranged in adjacent positions of the grooves (4) and form rings (20, 21, 22) form a power connection (9) for electrically connecting the stator (1). Each of the wires (5) is connected in pairs to an adjacent position in contacting regions (6) on the axial laminated core (2) end face, which is referred to as the contacting side (8). The power connections (9) are likewise arranged on said contacting side (8). The wires (5) have a hairpin shape for example, whereby the wires are closed on the ring side (11) opposite the contacting side (8).

IPC 8 full level
H02K 15/085 (2006.01); **H02K 3/12** (2006.01); **H02K 3/28** (2006.01)

CPC (source: EP US)
H02K 3/12 (2013.01 - US); **H02K 3/28** (2013.01 - EP US); **H02K 15/085** (2013.01 - EP US); **H02K 3/12** (2013.01 - EP)

Citation (search report)
See references of WO 2018141492A1

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 102017201533 A1 20180802; **DE 102017201533 B4 20230525**; CN 110235342 A 20190913; CN 110235342 B 20221202; EP 3577748 A1 20191211; US 11196325 B2 20211207; US 2020227985 A1 20200716; WO 2018141492 A1 20180809

DOCDB simple family (application)
DE 102017201533 A 20170131; CN 201880009046 A 20180102; EP 18700005 A 20180102; EP 2018050021 W 20180102; US 201816482097 A 20180102