

Title (en)
STATOR FOR A HOUSING-FREE DYNAMOELECTRIC ROTARY MACHINE

Title (de)
STATOR FÜR EINE GEHÄUSELOSE DYNAMOELEKTRISCHE ROTATORISCHE MASCHINE

Title (fr)
STATOR POUR UNE MACHINE ROTATIVE DYNAMO-ÉLECTRIQUE SANS BOÎTIER

Publication
EP 4140017 A1 20230301 (DE)

Application
EP 21718050 A 20210401

Priority
• EP 20186687 A 20200720
• EP 2021058574 W 20210401

Abstract (en)
[origin: WO2022017653A1] The invention relates to a stator (2) for a housing-free dynamoelectric rotary machine (1). The stator (2) has a material layer structure (8), wherein the material layer structure (8) has a plurality of material layers (6), and the material layers (6) are arranged in a row along a rotational axis. The material layer structure (8) has a plurality of thickened areas (9, 10) and a plurality of grooves (5, 7), one groove (5, 7) being arranged between two thickened areas (9, 10). The invention additionally relates to a housing-free dynamoelectric rotary machine (1), having such a stator (2), wherein an end element (14) is arranged at at least one axial end (50, 51) of the stator (2), and the end element (14) is connected to the stator (2) by means of at least one connection element (16).

IPC 8 full level
H02K 1/16 (2006.01); **H02K 1/20** (2006.01); **H02K 5/15** (2006.01); **H02K 5/18** (2006.01)

CPC (source: EP US)
H02K 1/16 (2013.01 - EP); **H02K 1/18** (2013.01 - US); **H02K 1/20** (2013.01 - EP US); **H02K 5/15** (2013.01 - EP US); **H02K 5/18** (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)
EP 3944465 A1 20220126; CN 116210136 A 20230602; EP 4140017 A1 20230301; US 12003138 B2 20240604; US 2023275475 A1 20230831; WO 2022017653 A1 20220127

DOCDB simple family (application)
EP 20186687 A 20200720; CN 202180060139 A 20210401; EP 2021058574 W 20210401; EP 21718050 A 20210401; US 202118016937 A 20210401