

Title (en)

ROTOR FOR AN AXIAL FLUX ELECTROMAGNETIC MACHINE

Title (de)

ROTOR FÜR EINE ELEKTROMAGNETISCHE AXIALFLUSSMASCHINE

Title (fr)

ROTOR POUR MACHINE ELECTROMAGNETIQUE A FLUX AXIAL

Publication

EP 4115498 A1 20230111 (FR)

Application

EP 21709023 A 20210305

Priority

- FR 2002258 A 20200306
- EP 2021055594 W 20210305

Abstract (en)

[origin: WO2021176058A1] The invention relates to a rotor (100) for an axial flux electromagnetic machine, comprising a body (110) in the overall shape of a disc, with a peripheral edge having at least one slot (120) delimited by at least two edges (121), and at least one permanent magnet (130) which is situated in said slot and which has at least two edges (131) facing the at least two edges of the slot. According to the invention, one of the edges of the slot extends longitudinally along a mean line (D1) and has a cross section, at this mean line, the shape of which varies along the mean line so as to form at least one first relief (140), and a part of one of the edges of the permanent magnet has at least one second relief (141) of corresponding shape, in negative, so as to conform to the shape of said at least one first relief.

IPC 8 full level

H02K 1/27 (2022.01)

CPC (source: EP KR US)

H02K 1/2795 (2022.01 - EP KR US); **H02K 1/28** (2013.01 - KR); **H02K 21/24** (2013.01 - KR)

Citation (search report)

See references of WO 2021176058A1

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)

WO 2021176058 A1 20210910; CN 115210994 A 20221018; EP 4115498 A1 20230111; FR 3107999 A1 20210910; FR 3107999 B1 20230623; KR 20220157987 A 20221129

DOCDB simple family (application)

EP 2021055594 W 20210305; CN 202180018036 A 20210305; EP 21709023 A 20210305; FR 2002258 A 20200306; KR 20227034723 A 20210305