

Title (en)  
AXIAL FLUX MACHINE FOR AN ELECTRICAL PROCESSING DEVICE AND ELECTRICAL PROCESSING DEVICE WITH AN AXIAL FLUX MACHINE

Title (de)  
AXIALFLUSSMASCHINE FÜR EIN ELEKTRISCHES BEARBEITUNGSGERÄT SOWIE ELEKTRISCHES BEARBEITUNGSGERÄT MIT EINER AXIALFLUSSMASCHINE

Title (fr)  
MACHINE À FLUX AXIAL DE DISPOSITIF DE TRAITEMENT ÉLECTRIQUE ET DISPOSITIF DE TRAITEMENT ÉLECTRIQUE DOTÉ D'UNE MACHINE À FLUX AXIAL

Publication  
**EP 4052356 A1 20220907 (DE)**

Application  
**EP 20796553 A 20201021**

Priority  
• DE 102019216847 A 20191031  
• EP 2020079624 W 20201021

Abstract (en)  
[origin: WO2021083763A1] The invention relates to an axial flux machine (10), in particular a single-sided axial flux motor, for an electrical machining device (23), having a machine shaft (12), in particular a motor shaft, a disc-shaped stator (20), a disc-shaped rotor (14) which is arranged adjacent to the stator (20) in the axial direction (A) of the machine shaft (12), wherein the stator (20) is formed as a winding carrier (22) for at least one stator winding (24) and the rotor (14), which is connected to the machine shaft (12) in a rotationally fixed manner, can be set in a rotational movement relative to the stator (20), and with a housing (82) for receiving the stator (20) and the rotor (14). According to the invention, the housing (82) is cylindrical, open on one side and formed with a substantially closed end face (88), wherein the housing (82) fixes the stator (20) in such a way that a defined air gap remains between the rotor (14) and the stator (20). The invention relates to an electrical processing device (34) with an axial flux machine (10) according to the invention.

IPC 8 full level  
**H02K 5/08** (2006.01); **H02K 5/173** (2006.01); **H02K 5/20** (2006.01); **H02K 7/08** (2006.01)

CPC (source: CN EP US)  
**H02K 1/182** (2013.01 - US); **H02K 5/04** (2013.01 - CN); **H02K 5/08** (2013.01 - CN EP); **H02K 5/161** (2013.01 - CN US); **H02K 5/163** (2013.01 - CN); **H02K 5/1732** (2013.01 - CN EP); **H02K 5/1735** (2013.01 - CN); **H02K 5/207** (2021.01 - CN); **H02K 7/083** (2013.01 - EP); **H02K 7/14** (2013.01 - US); **H02K 9/06** (2013.01 - CN); **H02K 5/20** (2013.01 - EP); **H02K 2201/03** (2013.01 - US); **H02K 2201/12** (2013.01 - CN); **H02K 2213/09** (2013.01 - EP)

Citation (search report)  
See references of WO 2021083763A1

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 102019216847 A1 20210506**; CN 114600344 A 20220607; EP 4052356 A1 20220907; US 2024063669 A1 20240222; WO 2021083763 A1 20210506

DOCDB simple family (application)  
**DE 102019216847 A 20191031**; CN 202080075411 A 20201021; EP 2020079624 W 20201021; EP 20796553 A 20201021; US 202017754577 A 20201021