

Title (en)  
ELECTRICAL MACHINE

Title (de)  
ELEKTRISCHE MASCHINE

Title (fr)  
MACHINE ÉLECTRIQUE

Publication  
**EP 4022748 A1 20220706 (DE)**

Application  
**EP 20761830 A 20200826**

Priority  
• DE 102019122944 A 20190827  
• EP 2020073843 W 20200826

Abstract (en)  
[origin: WO2021037906A1] The invention relates to an electrical machine, which is or can be cooled by means of a fluid, comprising a rotor (11), a stator (12) and at least one end disk (13), which are arranged in a housing (14), wherein: the end disk (13) and the rotor (11) are arranged on a shaft (15), in particularly hollow shaft, and the end disk (13) is arranged on at least one axial end of the rotor (11); at least one first fluid region (16) is formed between a first end face of the end disk (13) and an axial end of the rotor (11) and a second fluid region (17) is formed between a second end face of the end disk (13) and the housing (14); the two fluid regions (16, 17) have at least one outer fluid connection (18) and at least one inner fluid connection (19), which each interconnect the two fluid regions (16, 17) in such a way that the fluid can circulate between the first and the second fluid region (16, 17) at least in some parts.

IPC 8 full level  
**H02K 9/12** (2006.01); **H02K 9/19** (2006.01); **H02K 15/16** (2006.01); **H02K 17/16** (2006.01)

CPC (source: CN EP US)  
**H02K 5/15** (2013.01 - US); **H02K 7/003** (2013.01 - US); **H02K 7/04** (2013.01 - US); **H02K 9/10** (2013.01 - CN); **H02K 9/12** (2013.01 - EP US); **H02K 9/19** (2013.01 - CN EP US); **H02K 17/20** (2013.01 - EP US); **H02K 15/165** (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

DOCDB simple family (publication)  
**WO 2021037906 A1 20210304**; CN 114175470 A 20220311; DE 102019122944 A1 20210304; EP 4022748 A1 20220706; US 2022294304 A1 20220915

DOCDB simple family (application)  
**EP 2020073843 W 20200826**; CN 202080053545 A 20200826; DE 102019122944 A 20190827; EP 20761830 A 20200826; US 202017637043 A 20200826