

Title (en)

HOUSING FOR AN ELECTRICAL MACHINE WITH A SELF-VENTING COOLING JACKET

Title (de)

GEHÄUSE FÜR EINE ELEKTRISCHE MASCHINE MIT EINEM SICH SELBST ENTLÜFTENDEN KÜHLMANTEL

Title (fr)

BOÎTIER POUR UNE MACHINE ÉLECTRIQUE COMPRENANT UNE CHEMISE DE REFROIDISSEMENT À VENTILATION AUTONOME

Publication

EP 4298717 A1 20240103 (DE)

Application

EP 22712279 A 20220222

Priority

- DE 102021201804 A 20210225
- EP 2022054414 W 20220222

Abstract (en)

[origin: WO2022180042A1] The invention relates to a housing (100) for an electrical machine, which housing (100) is formed with a cylindrical cooling jacket (140) through which coolant (K) is able to flow and which has a plurality of cooling channels (142) that extend in a circumferential direction (U) and an inlet portion (141) acting as a distributor and an outlet portion (143) acting as a collector, wherein, between the inlet portion (141) and the outlet portion (143), there is arranged a partition wall (145) in which a bypass (146) is located, through which gas bubbles present in the inlet portion (141) can be diverted directly to the outlet portion (143). According to the invention, the cooling channels (142) extending in the circumferential direction (U) are connected by at least one transversely extending venting channel (147).

IPC 8 full level

H02K 5/20 (2006.01)

CPC (source: EP US)

H02K 5/203 (2021.01 - EP US)

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)

DE 102021201804 A1 20220825; CN 117044080 A 20231110; EP 4298717 A1 20240103; US 2023402898 A1 20231214; WO 2022180042 A1 20220901

DOCDB simple family (application)

DE 102021201804 A 20210225; CN 202280016641 A 20220222; EP 2022054414 W 20220222; EP 22712279 A 20220222; US 202318238093 A 20230825