

Title (en)

AN ELECTRICAL MACHINE COMPRISING A COOLING DEVICE

Title (de)

ELEKTRISCHE MASCHINE MIT EINER KÜHLVORRICHTUNG

Title (fr)

MACHINE ÉLECTRIQUE COMPORTANT UN DISPOSITIF DE REFROIDISSEMENT

Publication

**EP 3966915 A1 20220316 (EN)**

Application

**EP 20721266 A 20200430**

Priority

- EP 19173364 A 20190508
- EP 2020062144 W 20200430

Abstract (en)

[origin: WO202225132A1] A cooling device for cooling an electrical machine, the electrical machine comprising wound stator coils having end portions and axial portions, the cooling device comprising an annular heat collector arranged for engaging with an external heat sink, a plurality of coil receiving spaces each delimited by at least two radial extensions extending radially from the annular heat collector, the plurality of coil receiving spaces being arranged for receiving end portions of the plurality of wound stator coils, wherein the cooling device is made from a thermally conductive and non-ferromagnetic material, such that in use heat generated by the plurality of wound stator coils is conducted in a radial direction along the plurality of radial extensions and along the annular heat collector towards the external heat sink.

IPC 8 full level

**H02K 3/52** (2006.01); **H02K 5/20** (2006.01); **H02K 9/19** (2006.01); **H02K 9/22** (2006.01)

CPC (source: EP US)

**H02K 3/522** (2013.01 - EP); **H02K 5/203** (2021.01 - EP US); **H02K 9/197** (2013.01 - EP US); **H02K 9/227** (2021.01 - EP US)

Citation (search report)

See references of WO 202225132A1

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 2020225132 A1 20201112**; EP 3966915 A1 20220316

DOCDB simple family (application)

**EP 2020062144 W 20200430**; EP 20721266 A 20200430