

Title (en)

COOLING-OPTIMISED HOUSING OF A MACHINE

Title (de)

KÜHLOPTIMIERTES GEHÄUSE EINER MASCHINE

Title (fr)

BOÎTIER D'UNE MACHINE OPTIMISÉ POUR REFROIDISSEMENT

Publication

**EP 3735736 A1 20201111 (DE)**

Application

**EP 19716807 A 20190327**

Priority

- EP 18166920 A 20180412
- EP 2019057675 W 20190327

Abstract (en)

[origin: WO2019197158A1] The invention relates to a method for producing a cooling structure over a surface of a housing (1) of a dynamo-electric rotational machine (M, MG). By means of an additive production method, at least one material is applied layer-by-layer to the surface of the housing (1), leaving out at least one predefined region. As a result of the application of material, at least two elevations (4, 41, 42, 43, 6) are formed, wherein a cooling channel (3, 31) is formed by leaving out a predefined region. The elevations are formed in such a way that a cooling channel is formed at least between two elevations. The invention also relates to a cooling structure (K) produced in such a way, to a housing (1) and to a dynamo-electric machine (M, MG).

IPC 8 full level

**H02K 5/18** (2006.01); **H02K 5/20** (2006.01); **H02K 9/06** (2006.01); **H02K 15/14** (2006.01)

CPC (source: EP US)

**B33Y 80/00** (2014.12 - US); **H02K 5/18** (2013.01 - EP US); **H02K 5/20** (2013.01 - US); **H02K 5/24** (2013.01 - US); **H02K 9/06** (2013.01 - EP); **H02K 15/14** (2013.01 - EP US); **B22F 10/00** (2021.01 - US); **B33Y 10/00** (2014.12 - US); **Y02P 10/25** (2015.11 - EP); **Y10T 29/49009** (2015.01 - 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

DOCDB simple family (publication)

**EP 3553925 A1 20191016**; CN 112042080 A 20201204; EP 3735736 A1 20201111; US 12057745 B2 20240806; US 2021036590 A1 20210204; WO 2019197158 A1 20191017

DOCDB simple family (application)

**EP 18166920 A 20180412**; CN 201980024964 A 20190327; EP 19716807 A 20190327; EP 2019057675 W 20190327; US 201917046670 A 20190327