

Title (en)

ELECTRIC MOTOR

Title (de)

ELEKTRISCHER MOTOR

Title (fr)

MOTEUR ÉLECTRIQUE

Publication

**EP 3912259 A1 20211124 (DE)**

Application

**EP 19829090 A 20191217**

Priority

- DE 102019100907 A 20190115
- EP 2019085571 W 20191217

Abstract (en)

[origin: WO2020148057A1] An electric motor (1), at least having: a housing (2) and a stator (3) situated therein with at least a plurality of coils (4); and a rotor (5) with at least one magnet (6), an axis of rotation (7) and an outer circumferential surface (8); wherein: the stator (3) and the rotor (5) are adjacent to one another along the axis of rotation (7); the rotor (5) has a fluid conduction structure (9) between the axis of rotation (7) and the outer circumferential surface (8); the fluid conduction structure (9) has at least one surface (13) extending at least radially (10) and being inclined relative to at least a circumferential direction (11), or to an axial direction (12) running parallel to the axis of rotation (7); and at least part of a fluid flow (14), transported through the fluid conduction structure (9) inside the housing (2) during the operation of the motor (1), can be conducted over the coils (4).

IPC 8 full level

**H02K 9/19** (2006.01); **H02K 1/27** (2006.01)

CPC (source: EP US)

**H02K 1/20** (2013.01 - EP); **H02K 1/2795** (2022.01 - EP US); **H02K 5/207** (2021.01 - US); **H02K 9/10** (2013.01 - EP); **H02K 9/19** (2013.01 - EP); **H02K 21/24** (2013.01 - EP US)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102019100907 A1 20200716**; CN 113544948 A 20211022; EP 3912259 A1 20211124; JP 2022518217 A 20220314; US 2022077745 A1 20220310; WO 2020148057 A1 20200723

DOCDB simple family (application)

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