

Title (en)

VENTILATOR HOUSING WITH INTEGRATED MOTOR ELECTRONICS AND VENTILATOR WITH A CORRESPONDENT VENTILATOR HOUSING

Title (de)

VENTILATORGEHÄUSE MIT INTEGRIERTER MOTORELEKTRONIK UND VENTILATOR MIT EINEM ENTSPRECHENDEN VENTILATORGEHÄUSE

Title (fr)

CARTER DE VENTILATEUR À ÉLECTRONIQUE DE MOTEUR INTÉGRÉE ET VENTILATEUR AVEC UN CARTER DE VENTILATEUR CORRESPONDANT

Publication

EP 3874170 B1 20231025 (DE)

Application

EP 20714198 A 20200325

Priority

- DE 102019107706 A 20190326
- EP 2020058306 W 20200325

Abstract (en)

[origin: WO2020193607A1] The present invention relates to a fan housing (1) of an axial fan for receiving a motor (2) and a motor electronics system (3), wherein the fan housing (1) has a substantially cylindrical housing wall (10) which extends in the axial direction (A) with a first end side (S1) and a second end side (S2), in the axial centre of which fan housing (1) a motor flange (11) for receiving a motor (2) is configured, wherein the motor flange (11) configures a hollow-cylindrical bearing tube (12) which is open on one side for mounting the rotor shaft (14) of a rotor (13), wherein the bearing tube (12) is closed at one bearing tube end (12u) thereof in the region of the motor flange (11) and the motor flange (11) configures a receiving chamber (15) for receiving the motor electronics system (3), which receiving chamber (15) is arranged completely in the interior of the cylindrical housing wall (10) between the bearing tube end (12u) and the first end side (S1).

IPC 8 full level

F04D 19/00 (2006.01); **F04D 25/06** (2006.01); **F04D 29/059** (2006.01); **F04D 29/52** (2006.01); **F04D 29/54** (2006.01)

CPC (source: EP)

F04D 19/002 (2013.01); **F04D 25/0633** (2013.01); **F04D 25/068** (2013.01); **F04D 29/059** (2013.01); **F04D 29/522** (2013.01); **F04D 29/545** (2013.01)

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

DOCDB simple family (publication)

WO 2020193607 A1 20201001; CN 113272559 A 20210817; CN 209748306 U 20191206; DE 102019107706 A1 20201001; EP 3874170 A1 20210908; EP 3874170 B1 20231025

DOCDB simple family (application)

EP 2020058306 W 20200325; CN 201920596223 U 20190428; CN 202080008687 A 20200325; DE 102019107706 A 20190326; EP 20714198 A 20200325