

Title (en)

FAN AND INFLOW GRILLE FOR A FAN

Title (de)

VENTILATOR UND EINSTRÖMGITTER FÜR EINEN VENTILATOR

Title (fr)

VENTILATEUR ET GRILLE D'ADMISSION POUR VENTILATEUR

Publication

**EP 3775571 A1 20210217 (DE)**

Application

**EP 19715390 A 20190215**

Priority

- DE 102018205300 A 20180409
- DE 2019200013 W 20190215

Abstract (en)

[origin: WO2019196992A1] The invention relates to a fan (axial, radial or diagonal fan) comprising an impeller and an intake guide device in the flow path before the impeller, preferably before the inlet region of an inlet nozzle, the intake guide device as inflow grille (1) being designed with flat webs (5), which webs (5) form a plurality of lattice-like flow channels (6), the webs (5) extending quite predominantly between preferably two junctions (15) or between a respective junction (15) and an edge region (14, 31), and preferably predominantly three webs (5) per junction (15) meet. Alternatively the flow channels (6) of the inflow grille (1) have a honeycomb-like cross-section and/or the inflow grille (1) forms a basket-like contour in relation to the outer and/or inner enveloping surface. The invention also relates to a corresponding inflow grille.

IPC 8 full level

**F04D 29/42** (2006.01); **F04D 29/54** (2006.01); **F04D 29/66** (2006.01); **F04D 29/70** (2006.01)

CPC (source: EP KR US)

**F04D 29/4213** (2013.01 - KR); **F04D 29/541** (2013.01 - EP KR US); **F04D 29/667** (2013.01 - EP KR); **F04D 29/703** (2013.01 - EP KR US); **F05D 2210/12** (2013.01 - KR); **F05D 2250/51** (2013.01 - EP)

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)

**DE 102018205300 A1 20191010**; BR 112020020491 A2 20210112; CN 112262261 A 20210122; CN 112262261 B 20240102; EP 3775571 A1 20210217; JP 2021519885 A 20210812; JP 2023169380 A 20231129; KR 20200141079 A 20201217; US 11703065 B2 20230718; US 2021164495 A1 20210603; WO 2019196992 A1 20191017

DOCDB simple family (application)

**DE 102018205300 A 20180409**; BR 112020020491 A 20190215; CN 201980038538 A 20190215; DE 2019200013 W 20190215; EP 19715390 A 20190215; JP 2020553571 A 20190215; JP 2023164145 A 20230927; KR 20207032305 A 20190215; US 201917046451 A 20190215