

Title (en)
DIAGONAL FAN HAVING AN OPTIMIZED HOUSING

Title (de)
DIAGONALVENTILATOR MIT OPTIMIERTEM GEHÄUSE

Title (fr)
VENTILATEUR DIAGONAL COMPORTANT UN CARTER OPTIMISÉ

Publication
EP 3824187 A1 20210526 (DE)

Application
EP 19800972 A 20191105

Priority

- DE 102018128820 A 20181116
- EP 2019080223 W 20191105

Abstract (en)
[origin: CN209743196U] The utility model relates to an oblique flow type ventilator. The axial flow fan comprises a motor, a shell and an oblique flow impeller which is accommodated in the shell and can be driven by the motor, oblique flow generated when the oblique flow type impeller works is converted into the axial flow direction. The oblique flow type impeller is provided with impeller blades distributed in the circumferential direction, an air inlet and an air outlet. Wherein the housing forms a flow channel for an air flow generated by the diagonal flow impeller, the flow channel is provided with a non-rotational symmetric axial part and a cylindrical axial part; wherein the radial outer end of the air outlet side of the diagonal impeller is arranged in the cylindrical axial part of the flow channel of the housing, wherein an air gap is provided between the radially outer end and the housing, and wherein a non-rotationally symmetrical axial portion of the oblique flow impeller is arranged in an axial plane containing the oblique flow impeller in the region of the flow channel that adjoins the air gap on the air inlet side, such that the non-rotationally symmetrical axial portion at least partially surrounds the oblique flow impeller. According to the utility model, the torque on the motor is reduced.

IPC 8 full level
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