Title (en)

RADIAL FAN WHEEL

Title (de)

RADIALGEBLÄSERAD

Title (fr)

ROUE DE SOUFFLANTE RADIALE

Publication

EP 1774180 A2 20070418 (DE)

Application

EP 05768016 A 20050729

Priority

- EP 2005008250 W 20050729
- DE 202004012015 U 20040731

Abstract (en)

[origin: WO2006013067A2] The invention relates to a radial fan wheel (1), in particular for use in gas fans with a steep fan characteristic curve. Said fan wheel is characterised as follows: it comprises a plurality of vanes (2) that are distributed over its circumference; the vanes (2) run, when viewed in the radial direction, from an inner intake region (4) to an outer exit region (6); when viewed in an axial direction, i.e. in the direction of the rotational axis (14), the vanes (2) run between an intake side (16) and an axially opposite hub side (18); on the intake side (16), the vanes (2) are connected along and beyond their radial extension to the exit region (6) to a cover plate (20), which comprises a central inflow opening (22) that opens into the intake region (4); on the hub side (18), the vanes (2) are only connected to a central hub (24) by their radially innerlying end regions; the vanes (2) and the cover plate (20) define an outer fan wheel diameter (D), which is at least ten times as long as an axially measured flow exit width (B) of the vanes (2) in the exit region (6).

IPC 8 full level

F04D 29/28 (2006.01)

CPC (source: EP US)

F04D 29/023 (2013.01 - EP US); **F04D 29/281** (2013.01 - EP US); **F04D 29/284** (2013.01 - EP US); F05D 2230/53 (2013.01 - EP US); F05D 2300/43 (2013.01 - EP US)

Citation (search report)

See references of WO 2006013067A2

Cited by

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Designated extension state (EPC)

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DOCDB simple family (publication)

DE 202004012015 U1 20051222; AT E544953 T1 20120215; EP 1774180 A2 20070418; EP 1774180 B1 20120208; EP 2196679 A2 20100616; EP 2196679 A3 20131218; EP 2196679 B1 20151125; US 2008292464 A1 20081127; US 2010098544 A1 20100422; US 7794206 B2 20100914; US 8109731 B2 20120207; WO 2006013067 A2 20060209; WO 2006013067 A3 20061228

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