

Title (en)

Radial impeller for ventilator, in particular made of plastic

Title (de)

Radiallüfterrad, insbesondere aus Kunststoff

Title (fr)

Roue radiale de ventilateur, en particulier en matière plastique

Publication

**EP 1457683 A3 20051130 (DE)**

Application

**EP 04005006 A 20040303**

Priority

DE 10310868 A 20030311

Abstract (en)

[origin: EP1457683A2] The radial fan impeller (1) of plastic has a number of vanes (3) installed between two rings (3). The blades are constructed as hollow profiles with ribs (5) provided between the two walls of the vanes and perpendicularly to each wall. The distance between two ribs is up to three times the distance between opposite facing walls of the vanes. The thickness of the ribs is equal to or greater than the thickness of the walls of the vanes.

IPC 1-7

**F04D 29/30**

IPC 8 full level

**F04D 29/02** (2006.01); **F04D 29/28** (2006.01); **F04D 29/30** (2006.01)

CPC (source: EP)

**F04D 29/023** (2013.01); **F04D 29/282** (2013.01); **F04D 29/30** (2013.01); **F05D 2300/43** (2013.01)

Citation (search report)

- [X] DE 3312933 A1 19831201 - PLASTLUEFTER & ANLAGENBAU VEB [DD]
- [X] EP 0622548 A1 19941102 - SUNDER PLASSMANN CHRISTOPH [DE]
- [X] DE 1041637 B 19581023 - LICENTIA GMBH
- [X] US 2002182079 A1 20021205 - GERKEN MARK A [US], et al
- [X] GB 608703 A 19480920 - MACHF GEBR STORK & CO N V
- [X] US 4565495 A 19860121 - MACLEOD JR DONALD R [US]

Cited by

CN110792635A; CN109695590A; US9829009B2; DE102009001095A1

Designated contracting state (EPC)

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