

Title (en)
Radial fan

Title (de)
Radialgebläse

Title (fr)
Ventilateur radial

Publication
EP 1462658 B1 20090805 (DE)

Application
EP 04400016 A 20040322

Priority
DE 10313054 A 20030324

Abstract (en)
[origin: US7179050B2] The invention relates to a radial fan with a casing and in it an axially placed wheel, wherein the casing has an axially placed air inlet, an exhaust (5), a bottom section (6) with a bottom reference surface (7) arranged orthogonally to the axis and a spirally shaped compression space located radially around the wheel that extends to the exhaust port; and wherein the wheel has a cover disk that faces the air inlet port and a supporting disk; wherein the radial fan is characterized in that the spiral-shaped compression space (8) expands both in a radial direction from the axis towards the exhaust port (6) as well as in an axial direction; wherein the axial expansion extends over at least 180° of the spiral circumference; and in which a hollow cylindrical cup-shaped section (9) is recessed in the bottom section (6) in an axial direction beyond the bottom reference surface (7) into which the wheel is placed in such a way that an inside of the supporting disk of the wheel runs flush with the bottom reference surface (7).

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F04D 29/281 (2013.01 - EP US); **F04D 29/4233** (2013.01 - EP US)

Cited by
DE102014224657A1; CN105051374A; FR3124558A1; BE1029481B1; DE102008051362A1; EP2177769A3; US11067095B2;
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