

Title (en)
Radial fan with an internal spiral.

Title (de)
Radialgebläse mit Innenspirale.

Title (fr)
Ventilateur radial avec volute interne.

Publication
EP 0450272 B1 19940921 (DE)

Application
EP 91100984 A 19910125

Priority
DE 4009869 A 19900328

Abstract (en)
[origin: EP0450272A2] The invention relates to a radial fan (2), especially for delivering gaseous media. It comprises a housing (4) with a peripheral wall (6), a front (8) and a rear (10) end wall, an inlet opening (12) in the front end wall (8) and an outlet opening (14) in the peripheral wall (6). Inside the housing (4) a radial impeller wheel (20) is rotatably arranged about an axis of rotation (16), which wheel has a rear cover plate (24) with radial rotor blades (26) connected to a drive shaft (22) and a front cover plate (28) with a central admission opening (34) connected to the rotor blades on their side axially opposite the rear cover plate (24). An internal spiral chamber (36), open in the direction of the impeller wheel and passing into the outlet opening (14), is formed inside the housing (4) next to the impeller wheel (26). The front cover plate (28) of the impeller wheel (20) merges in its outer peripheral area via a dished and, seen in axial cross section, arched transitional area (52) into an outer annular web (54) extending essentially axially in the direction of the internal spiral chamber (36).

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Cited by
US7191613B2; CN106884804A; DE202005004180U1; JP2003328991A; EP1361367A3; EP0546508A1; DE4143663B4; DE4141106C2; US8257034B2

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