

Title (en)

Multi-stage radial fan

Title (de)

Mehrstufiges Radialgebläse

Title (fr)

Ventilateur radial en plusieurs étages

Publication

EP 2677175 A1 20131225 (DE)

Application

EP 12172538 A 20120619

Priority

EP 12172538 A 20120619

Abstract (en)

The compressor has partial-helical rotor blades radially outward extending between an impeller cover and a circular impeller bottom of an air inlet aperture. The air inlet aperture is centrally arranged in the impeller bottom. An impeller chamber is arranged downstream in an impeller chamber in a fluidic manner. A torque-proof reconducting blading is connected with the impeller chamber. The reconducting blading is partly closed and comprises a reconducting shovel (7), which is formed identical to the rotor blades of an impeller of the impeller chamber.

Abstract (de)

Mehrstufiges Radialgebläse mit einer Rückführbeschaufelung, die zumindest teilweise geschlossen ausgeführt ist.

IPC 8 full level

F04D 17/16 (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP)

F04D 17/164 (2013.01); **F04D 29/281** (2013.01); **F04D 29/30** (2013.01); **F04D 29/444** (2013.01); **F05D 2250/70** (2013.01)

Citation (applicant)

- EP 1013938 B1 20010801 - RECKERT LOTHAR [DE]
- DE 10033402 A1 20020124 - HILGE PHILIPP GMBH [DE]

Citation (search report)

- [XII] DE 2024023 A1 19701126
- [XII] US 2822123 A 19580204 - COLE JAMES D
- [XII] US 3245610 A 19660412 - SEBOK ALBERT L, et al
- [XII] JP S63100298 A 19880502 - MATSUSHITA ELECTRIC IND CO LTD

Cited by

CN114688046A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2677175 A1 20131225

DOCDB simple family (application)

EP 12172538 A 20120619