

Title (en)

Scroll type manifold, particularly for fans for use in extractor hoods

Title (de)

Spiralförmiges Gehäuse, insbesondere für Gebläse zur Verwendung bei Abzugshauben

Title (fr)

Collecteur de type défilement, particulièrement pour des ventilateurs à utiliser dans des hottes d'extraction

Publication

EP 1923573 A3 20120502 (EN)

Application

EP 07120330 A 20071109

Priority

IT PD20060431 A 20061120

Abstract (en)

[origin: EP1923573A2] There is described a manifold, in particular a scroll type manifold, which is intended to constitute the housing of a radial impeller (2) of a fan, comprising a delivery cross-section (4) with a delivery flow direction (Y) which is substantially perpendicular to the axis (X) of rotation of the impeller (2) and at least an intake cross-section (5) which extends coaxially relative to the axis of rotation (X), the manifold comprising a first and a second manifold portion (7, 8) which can be connected to each other at a coupling profile (P), the delivery cross-section (4) being defined in the first manifold portion (7), the impeller being rotatably supported on the second manifold portion (8). The delivery cross-section (4) is integrally formed in the first manifold portion (7) and is developed axially over at least a portion in the delivery flow direction (Y), and the projection of the coupling profile (P) defines, in a plane (Q) which is parallel with the direction of flow and which extends through the axis of rotation (X) of the impeller, a discontinuous line (L) including, starting from the delivery cross-section (4), at least a first portion (16) which extends transversely relative to the axis (X) of the impeller as far as a location adjacent to the axis itself, and at least a second portion (18) which extends away from the axis of the impeller and transversely relative thereto, the second portion (18) being spaced apart from the first portion (16) in a direction towards the intake cross-section (4), in such a manner that the first and the second manifold portions (7, 8) are able to be mutually coupled/uncoupled, along the profile (P), with a main relative movement being brought about substantially in the axial direction of the delivery flow, even with the impeller being held so as to be supported on the second manifold portion (8).

IPC 8 full level

F04D 29/42 (2006.01); **F04D 29/62** (2006.01)

CPC (source: EP)

F04D 29/4226 (2013.01); **F04D 29/626** (2013.01)

Citation (search report)

- [I] US 6881035 B1 20050419 - PAULSEN FREDERICK D [US]
- [A] EP 1106834 A1 20010613 - VALEO CLIMATISATION [FR]
- [A] US 3182899 A 19650511 - HAMES JR WILLIAM A, et al

Cited by

EP2400162A3; EP2397699A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1923573 A2 20080521; **EP 1923573 A3 20120502**; IT PD20060431 A1 20080521; RU 2007142650 A 20090527; RU 2450169 C2 20120510

DOCDB simple family (application)

EP 07120330 A 20071109; IT PD20060431 A 20061120; RU 2007142650 A 20071119