

Title (en)
Improved centrifugal fan, in particular for extractor hoods

Title (de)
Verbesserter Zentrifugallüfter, insbesondere für Abzugshauben

Title (fr)
Ventilateur centrifuge amélioré, en particulier pour hottes d'extraction

Publication
EP 2400162 A3 20170607 (EN)

Application
EP 11170800 A 20110621

Priority
IT PD20100047 U 20100624

Abstract (en)
[origin: EP2400162A2] A centrifugal fan with a helical external profile, formed by a pair of half-shells which may be coupled to one another, an impeller mounted in the body which can be driven in rotation about a first axis (X), the body being provided with a pair of opposing lateral extraction openings coaxial with the first axis and a tangential delivery opening coaxial with a second axis positioned tangentially with respect to the impeller, a pressure chamber being formed in the body whose volume is formed between the impeller and the helical profile of the body, this helical profile developing from a point at a minimum radial distance from the first axis in a median plane (P) of symmetry of the body (2).

IPC 8 full level
F04D 29/42 (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP)
F04D 29/424 (2013.01); **F04D 29/441** (2013.01)

Citation (search report)

- [I] EP 1483508 A1 20041208 - LN 2 S R L [IT]
- [I] EP 1923573 A2 20080521 - LN 2 SRL SOCIO UNICO [IT]
- [I] EP 0985829 A2 20000315 - MULFINGEN ELEKTROBAU EBM [DE]
- [A] US 4573869 A 19860304 - KITAMOTO MANABU [JP]

Cited by
CN105545775A; CN112392761A

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 2400162 A2 20111228; EP 2400162 A3 20170607; IT PD20100047 U1 20111225

DOCDB simple family (application)
EP 11170800 A 20110621; IT PD20100047 U 20100624