

Title (en)
CENTRIFUGAL VENTILATING FAN

Title (de)
ZENTRIFUGALER LÜFTER

Title (fr)
VENTILATEUR CENTRIFUGE

Publication
EP 3193022 A1 20170719 (EN)

Application
EP 16151037 A 20160113

Priority
EP 16151037 A 20160113

Abstract (en)
The present invention relates to a centrifugal fan, in particular a snail type centrifugal fan, particularly designed for extractor hoods. Said snail type centrifugal fan comprises two housing parts which can be coupled to each other in a connection plane K, a motor body mounted into one of the housing parts, at least one radial fan impeller mounted around the motor body coaxially with the rotation axis of the motor body, and a tongue section in the region of an outlet of the housing part defining a throat section narrowing the air passageway cross-section in horizontal axis. Said tongue section comprises a convexly formed first curvature neighboring the impeller forming an extreme point in horizontal direction within the inner volume of the centrifugal fan, and a further curvature convexly formed through the outlet at an upper position of the first curvature with respect to the vertical axis of the centrifugal fan, whereby, said first curvature extends to the second curvature through a surface which is tangential to the first and second curvatures.

IPC 8 full level
F04D 29/42 (2006.01)

CPC (source: EP)
F04D 29/422 (2013.01); **F04D 29/4226** (2013.01); **F04D 29/283** (2013.01)

Citation (applicant)
• CN 202581616 U 20121205 - NINGBO AUX AIR CONDITIONING CO
• DE 2556614 A1 19770623 - MULFINGEN ELEKTROBAU EBM

Citation (search report)
• [XYI] EP 1375925 A2 20040102 - SANDEN CORP [JP]
• [XYI] EP 1701041 A2 20060913 - MATSUSHITA ELECTRIC IND CO LTD [JP]
• [YA] EP 1156224 A2 20011121 - FABER SPA [IT]
• [YA] EP 1930601 A2 20080611 - LN 2 SRL SOCIO UNICO [IT]

Cited by
WO2023109287A1; CN114046270A

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 3193022 A1 20170719; EP 3193022 B1 20220525; DK 3193022 T3 20220829; PL 3193022 T3 20221010

DOCDB simple family (application)
EP 16151037 A 20160113; DK 16151037 T 20160113; PL 16151037 T 20160113