

Title (en)
CENTRIFUGAL FAN

Title (de)
ZENTRIFUGALGEBLÄSE

Title (fr)
VENTILATEUR CENTRIFUGE

Publication
EP 3076023 A1 20161005 (EN)

Application
EP 16155020 A 20160210

Priority
JP 2015070176 A 20150330

Abstract (en)
A centrifugal fan(10,110,210) includes an impeller(30), a motor(40) rotating the impeller(30) about a center axis(J), and a housing(20,120,220) accommodating the impeller(30). The housing(20,120,220) includes an intake port(61) arranged above the impeller(30), an exhaust port(62,162) arranged radially outward of the impeller(30), an annular upper flow path(51), and a lower flow path(52,252) arranged below the upper flow path(51) and connected to the upper flow path(51). The annular upper flow path(51) can be partially arranged between a housing(20,120,220) inner circumferential surface and the impeller(30) in a radial direction. The upper flow path(51) and the lower flow path(52,252) are arranged to define a flow path having a scroll shape.

IPC 8 full level
F04D 25/06 (2006.01); **F04D 29/42** (2006.01); **F04D 29/44** (2006.01)

CPC (source: CN EP US)
F04D 17/16 (2013.01 - US); **F04D 25/06** (2013.01 - EP US); **F04D 25/08** (2013.01 - CN US); **F04D 29/281** (2013.01 - US);
F04D 29/4206 (2013.01 - CN); **F04D 29/4226** (2013.01 - CN EP US); **F04D 29/4233** (2013.01 - US); **F04D 29/441** (2013.01 - CN EP US)

Citation (search report)
• [X1] US 2010014965 A1 20100121 - WATANABE CHIE [JP], et al
• [X1] WO 9964747 A1 19991216 - RESMED LTD [AU], et al

Cited by
US2018187695A1; US10704562B2

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 3076023 A1 20161005; CN 106015038 A 20161012; CN 106015038 B 20190618; CN 205423220 U 20160803; JP 2016191309 A 20161110;
JP 6554867 B2 20190807; US 2016290358 A1 20161006

DOCDB simple family (application)
EP 16155020 A 20160210; CN 201610086575 A 20160216; CN 201620121661 U 20160216; JP 2015070176 A 20150330;
US 201614990261 A 20160107