

Title (en)
FAN WITH VANED DIFFUSER AND CLEANER PROVIDED WITH SAME

Title (de)
VENTILATOR MIT SCHAUFELDIFFUSOR UND REINIGER DAMIT

Title (fr)
VENTILATEUR AVEC DIFFUSEUR À AILETTES ET APPAREIL DE NETTOYAGE LE COMPORANT

Publication
EP 3404270 A1 20181121 (EN)

Application
EP 18173039 A 20180517

Priority
JP 2017099248 A 20170518

Abstract (en)
A fan (1) includes an impeller (3) rotated about the vertically extending central axis (C), a motor (5) rotating the impeller, a motor housing (4) housing the motor (5), and a fan casing (2) disposed radially outside the motor housing (4) to form a flow passage (FL) in a gap therebetween. A plurality of first stationary blades (412) that axially extend and a second stationary blade (413) that axially extends are disposed radially outside the motor housing (4). The first stationary blades (412) are arranged in a circumferential direction. The second stationary blade (413) is disposed between the first stationary blades (412) adjacent to each other in the circumferential direction. An upper end of the second stationary blade (413) is disposed further to a lower side than upper ends of the first stationary blades (412) and further to an upper side than lower ends of the first stationary blades (412).

IPC 8 full level
F04D 29/42 (2006.01); **F04D 29/44** (2006.01); **F04D 25/06** (2006.01); **F04D 29/58** (2006.01)

CPC (source: CN EP US)
A47L 5/24 (2013.01 - US); **A47L 5/38** (2013.01 - US); **F04D 5/002** (2013.01 - US); **F04D 23/008** (2013.01 - US); **F04D 29/4253** (2013.01 - EP US);
F04D 29/441 (2013.01 - CN); **F04D 29/444** (2013.01 - EP US); **A47L 5/365** (2013.01 - US); **F04D 25/06** (2013.01 - EP US);
F04D 29/5806 (2013.01 - EP US); **F05D 2250/52** (2013.01 - EP US); **F05D 2250/70** (2013.01 - EP US)

Citation (applicant)
JP 2010196705 A 20100909 - DYSON TECHNOLOGY LTD

Citation (search report)

- [XI] US 2015173577 A1 20150625 - KIM HYUN JOO [KR], et al
- [XI] CN 104343734 A 20150211 - BEIJING POWER MACHINERY INST
- [XI] US 6565315 B1 20030520 - BERTELS AUGUSTINUS WILHELMUS M [NL], et al
- [XI] DE 3807277 A1 19890914 - KLOECKNER HUMBOLDT DEUTZ AG [DE]
- [XI] US 2015267546 A1 20150924 - GUEMMER VOLKER [DE]

Cited by
US2023011063A1

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 3404270 A1 20181121; CN 108953229 A 20181207; CN 108953229 B 20201215; JP 2018193940 A 20181206; US 2018335039 A1 20181122

DOCDB simple family (application)
EP 18173039 A 20180517; CN 201810474835 A 20180517; JP 2017099248 A 20170518; US 201815978227 A 20180514