

Title (en)
SIROCCO FAN AND AIR CONDITIONER

Title (de)
SCIROCCO-LÜFTER UND KLIMAANLAGE

Title (fr)
VENTILATEUR SIROCCO ET CONDITIONNEUR D'AIR

Publication
EP 2128451 A4 20140115 (EN)

Application
EP 08722743 A 20080325

Priority
• JP 2008055477 W 20080325
• JP 2007081325 A 20070327

Abstract (en)
[origin: EP2128451A1] A sirocco fan capable of reducing a noise value and a number of revolutions when obtaining a predetermined air-blowing amount, and an air-conditioning apparatus provided with the sirocco fan are provided. In the sirocco fan provided with a scroll 6, a fan body, which is rotatably disposed in the scroll 6 and includes a large number of blades arranged in a cylindrical manner, and a motor for rotationally driving the fan body, the scroll 6 is provided with two straight line portions 12 and 13 being approximately in parallel with each other on a whorl-like outer shape thereof, and a rotation shaft of the motor is positioned nearer to the straight line portion 12 situated nearer a tongue portion 8 of the scroll.

IPC 8 full level
F04D 17/04 (2006.01); **F04D 17/08** (2006.01); **F04D 29/28** (2006.01); **F04D 29/42** (2006.01); **F04D 29/44** (2006.01); **F04D 29/60** (2006.01); **F04D 29/66** (2006.01); **F24F 1/00** (2011.01); **F24F 1/0022** (2019.01); **F24F 1/0063** (2019.01); **F24F 7/007** (2006.01); **F24F 13/24** (2006.01)

CPC (source: EP KR US)
F04D 17/04 (2013.01 - EP); **F04D 17/08** (2013.01 - KR); **F04D 29/422** (2013.01 - EP); **F04D 29/4226** (2013.01 - EP); **F04D 29/44** (2013.01 - KR); **F04D 29/441** (2013.01 - EP); **F04D 29/602** (2013.01 - EP); **F04D 29/66** (2013.01 - KR); **F24F 1/00** (2013.01 - KR); **F24F 1/0022** (2013.01 - EP US); **F24F 1/0033** (2013.01 - EP); **F24F 1/0047** (2019.01 - EP); **F24F 1/0057** (2019.01 - EP); **F24F 1/0063** (2019.01 - EP US); **F24F 7/007** (2013.01 - EP); **F24F 13/24** (2013.01 - EP); **F05D 2250/52** (2013.01 - EP)

Citation (search report)
• [XY] JP 2000240594 A 20000905 - MATSUSHITA ELECTRIC IND CO LTD
• [A] US 6273679 B1 20010814 - NA SANG-KWON [KR]
• [A] US 3846040 A 19741105 - DENNIS D
• [YD] JP 2006138268 A 20060601 - FUJITSU GENERAL LTD
• [Y] JP H0180698 U 19890530
• See references of WO 2008123208A1

Cited by
US11994148B2; CN112119224A; EP3798452A4; AU2018424471B2; EP4253849A4; US11274678B2; US11592032B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2128451 A1 20091202; EP 2128451 A4 20140115; EP 2128451 B1 20170419; AU 2008236109 A1 20081016; AU 2008236109 B2 20110127; AU 2008236109 C1 20111013; CN 101595310 A 20091202; CN 101595310 B 20130918; EP 2757268 A2 20140723; EP 2757268 A3 20161116; EP 2757268 B1 20190807; EP 2757269 A2 20140723; EP 2757269 A3 20161116; EP 2757269 B1 20190904; ES 2625932 T3 20170721; ES 2744990 T3 20200227; ES 2749113 T3 20200319; HK 1135160 A1 20100528; JP 2008240612 A 20081009; JP 4906555 B2 20120328; KR 101179805 B1 20120904; KR 20090088440 A 20090819; TW 200916663 A 20090416; TW I352780 B 20111121; WO 2008123208 A1 20081016

DOCDB simple family (application)
EP 08722743 A 20080325; AU 2008236109 A 20080325; CN 200880002818 A 20080325; EP 14164771 A 20080325; EP 14164774 A 20080325; ES 08722743 T 20080325; ES 14164771 T 20080325; ES 14164774 T 20080325; HK 10101626 A 20100212; JP 2007081325 A 20070327; JP 2008055477 W 20080325; KR 20097014245 A 20080325; TW 97110727 A 20080326