

Title (en)  
BLOWING DEVICE AND CLEANER

Title (de)  
GEBLÄSEVORRICHTUNG UND REINIGER

Title (fr)  
DISPOSITIF DE SOUFFLANTE, ET ASPIRATEUR

Publication  
**EP 3376044 A4 20190807 (EN)**

Application  
**EP 16864185 A 20161108**

Priority  
• JP 2015219104 A 20151109  
• JP 2016086362 A 20160422  
• JP 2016083019 W 20161108

Abstract (en)  
[origin: EP3376044A1] A blowing device according to an exemplary embodiment of the present invention includes a motor that includes a shaft disposed along a central axis extending in an up-down direction, an impeller fixed to the shaft, the impeller being disposed above the motor, an impeller cover that surrounds an upper side and an outer side in a radial direction of the impeller, the impeller cover including an intake port at a middle, a motor cover disposed on an outer side in a radial direction of the motor, the motor including a rotor portion fixed to the shaft, the rotor portion including a magnet, a stator portion that opposes the magnet, and a bearing that rotatably supports the shaft with respect to the stator portion, the motor cover including a tubular motor cover cylindrical portion that is open downwards, an inner surface of the motor cover cylindrical portion opposing the motor with a gap in between in the radial direction, and the motor cover cylindrical portion including a communication portion that communicates an inner space of the motor cover cylindrical portion and an outer space of the motor cover cylindrical portion to each other.

IPC 8 full level  
**F04D 29/28** (2006.01); **A47L 9/00** (2006.01); **F04D 17/16** (2006.01); **F04D 25/06** (2006.01); **F04D 29/62** (2006.01)

CPC (source: EP US)  
**A47L 5/22** (2013.01 - EP US); **A47L 9/00** (2013.01 - US); **A47L 9/2889** (2013.01 - EP); **F04D 25/06** (2013.01 - US); **F04D 25/0613** (2013.01 - EP); **F04D 25/082** (2013.01 - EP); **F04D 29/00** (2013.01 - US); **F04D 29/4206** (2013.01 - US); **F04D 29/58** (2013.01 - US); **F04D 29/5806** (2013.01 - EP US)

Citation (search report)  
• [XAI] JP S5198807 U 19760807  
• [X] JP 2012202283 A 20121022 - PANASONIC CORP  
• [X] JP 2013024134 A 20130204 - PANASONIC CORP  
• [A] US 2002076341 A1 20020620 - MORELLI ANTHONY J [US]  
• See also references of WO 2017082224A1

Cited by  
EP3387741B1

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

DOCDB simple family (publication)  
**EP 3376044 A1 20180919; EP 3376044 A4 20190807**; CN 108350899 A 20180731; CN 108350899 B 20200630; JP WO2017082224 A1 20180823; US 2018242799 A1 20180830; WO 2017082224 A1 20170518

DOCDB simple family (application)  
**EP 16864185 A 20161108**; CN 201680065014 A 20161108; JP 2016083019 W 20161108; JP 2017550321 A 20161108; US 201815969871 A 20180503