

Title (en)  
DIAGONAL FLOW FAN

Title (de)  
DIAGONALLÜFTER

Title (fr)  
VENTILATEUR À ÉCOULEMENT DIAGONAL

Publication  
**EP 3211247 A4 20181024 (EN)**

Application  
**EP 14904616 A 20141022**

Priority  
CN 2014089118 W 20141022

Abstract (en)  
[origin: US2017045060A1] A diagonal flow fan includes an air duct, a motor, a fan wheel, a blade, an air guiding ring, and a wheel hub, the air guiding ring has one end connected to the air duct, and the blade and the wheel hub are located inside the fan wheel, the blade has one end connected to the wheel hub and another end connected to the fan wheel, wherein the motor is located inside the wheel hub and connected to the wheel hub, the air guiding ring has another end located at an inner side of the fan wheel, and a gap exists between the air guiding ring and the fan wheel.

IPC 8 full level  
**F04D 29/52** (2006.01); **F04D 25/08** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)  
**F04D 17/06** (2013.01 - EP US); **F04D 25/06** (2013.01 - US); **F04D 25/08** (2013.01 - US); **F04D 29/162** (2013.01 - EP US); **F04D 29/325** (2013.01 - US); **F04D 29/526** (2013.01 - US); **F04D 29/541** (2013.01 - US); **F04D 29/662** (2013.01 - EP US)

Citation (search report)

- [XAYI] US 2012020778 A1 20120126 - RUCK GERHARD [DE]
- [YA] DE 958147 C 19570214 - SIEMENS AG
- [Y] US 2008085188 A1 20080410 - HANLON THOMAS [US]
- [A] EP 0781928 A1 19970702 - MAGNETI MARELLI MANUFACTURING [IT]
- See references of WO 2016061747A1

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CN110566481A

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)  
**US 2017045060 A1 20170216**; CN 106471259 A 20170301; EP 3211247 A1 20170830; EP 3211247 A4 20181024; EP 3211247 B1 20191127; WO 2016061747 A1 20160428

DOCDB simple family (application)  
**US 201415306033 A 20141022**; CN 2014089118 W 20141022; CN 201480080248 A 20141022; EP 14904616 A 20141022