

Title (en)
Propeller fan and air conditioner having the same

Title (de)
Propellergebläse und Klimaanlage damit

Title (fr)
Ventilateur à hélice et climatiseur le comportant

Publication
EP 2806221 A2 20141126 (EN)

Application
EP 14168751 A 20140516

Priority
KR 20130056357 A 20130520

Abstract (en)
An air conditioner includes an outdoor unit that includes a compressor configured to compress a refrigerant, a condenser configured to condense the compressed refrigerant, and a blowing fan configured to blow outdoor air into a room, an indoor unit that discharges air heat-exchanged with the refrigerant flowing in from the outdoor unit to the room, and a connection piping that connects the outdoor unit and the indoor unit. Here, a plurality of protrusions may be formed at least one side of the blowing fan, and a convex portion and a concave portion may be formed on a surface of the blowing fan so that the surface of the blowing fan is indented.

IPC 8 full level
F24F 1/38 (2011.01); **F04D 29/32** (2006.01); **F04D 29/38** (2006.01); **F04D 29/66** (2006.01); **F24F 13/24** (2006.01)

CPC (source: EP KR US)
F04D 29/325 (2013.01 - EP US); **F04D 29/38** (2013.01 - KR); **F04D 29/384** (2013.01 - EP US); **F04D 29/667** (2013.01 - EP US); **F04D 29/681** (2013.01 - EP US); **F24F 1/00** (2013.01 - KR); **F24F 1/38** (2013.01 - EP US); **F24F 13/24** (2013.01 - EP US); **F05D 2240/303** (2013.01 - EP US); **F05D 2240/304** (2013.01 - EP US)

Cited by
EP3217018A4; JP2020536193A; WO2019067727A1

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 2806221 A2 20141126; **EP 2806221 A3 20141217**; CN 104180503 A 20141203; KR 20140136180 A 20141128; US 2014338388 A1 20141120

DOCDB simple family (application)
EP 14168751 A 20140516; CN 201410211147 A 20140519; KR 20130056357 A 20130520; US 201414276096 A 20140513