

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 2405206 B1 20190424 (EN)

Application
EP 10748543 A 20100305

Priority
• JP 2010001548 W 20100305
• JP 2009053647 A 20090306

Abstract (en)
[origin: EP2405206A1] An inlet 2, a heat exchanger 7, a blow-out port 3, a blower 8 having an impeller 8a, disposed on the downstream side of the heat exchanger 7 and feeding said indoor air from the inlet 2 to the blow-out port 3, with a longitudinal direction of an air conditioner main body 1 as its rotary shaft direction L, a stabilizer 9 that separates a suction-side channel E1 on the upstream side of the impeller 8a and a blow-out-side channel E2 on the downstream side from each other and forms a front face side of the blow-out-side channel E2, a spiral guide wall 10 that forms a rear face side of the blow-out-side channel E2, and a stepped portion 14 disposed in a stepped shape in a blowing direction of the blower 8 at least in a part of the guide wall 10 and having a plurality of steps, each extending in a rotary shaft direction L and indented substantially in a triangular shape on a section perpendicular to the rotary shaft O of the impeller 8a are provided so that separation of a blow-out flow by a negative pressure generated by the step in the stepped shape is prevented, noise is lowered, and energy saving can be realized.

IPC 8 full level
F24F 1/00 (2019.01); **F24F 13/06** (2006.01); **F24F 13/24** (2006.01)

CPC (source: EP)
F24F 1/0011 (2013.01); **F24F 1/0057** (2019.01); **F24F 1/0025** (2013.01); **F24F 13/24** (2013.01)

Cited by
CN108412807A; EP2937641A4; EP2957773A4; EP3614058A1; US11441790B2; US9696051B2

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2405206 A1 20120111; **EP 2405206 A4 20131218**; **EP 2405206 B1 20190424**; CN 102326030 A 20120118; CN 102326030 B 20141231; JP 5289554 B2 20130911; JP WO2010100944 A1 20120906; WO 2010100944 A1 20100910

DOCDB simple family (application)
EP 10748543 A 20100305; CN 201080008143 A 20100305; JP 2010001548 W 20100305; JP 2011502667 A 20100305