

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 2405206 A4 20131218 (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 (2011.01); **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)

Citation (search report)
• [XY] JP 2000205180 A 20000725 - SHARP KK
• [Y] JP H11294376 A 19991026 - CALSONIC CORP
• [Y] EP 0825390 A2 19980225 - MITSUBISHI ELECTRIC CORP [JP]
• See references of WO 2010100944A1

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

Designated contracting state (EPC)
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