

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 2090839 A1 20090819 (EN)

Application
EP 07831441 A 20071108

Priority
• JP 2007071710 W 20071108
• JP 2006304788 A 20061110

Abstract (en)
Provided is an air conditioner capable of securing the necessary static pressure even when the arrangement of air inlets is such that the suction resistance tends to increase. The air conditioner includes an indoor heat exchanger (4), a bellmouth (13) disposed behind the indoor heat exchanger (4) such that its opening (14) through which air passes faces the indoor heat exchanger (4), and a front panel (22) that covers the front side of the indoor heat exchanger (4). The air conditioner is provided with a casing (2) having air inlets (8 - 11) and air outlets (6, 7), and a turbofan (5) that generates an air flow in which air is sucked in from the air inlets (8 - 11), passes through the indoor heat exchanger (4) and the opening (14) of the bellmouth (13), and is blown out from the air outlets (6, 7). The air inlets (8 - 11) are provided in the front panel (22) and/or around thereof, and are located substantially outside the opening of the bellmouth (13) as seen from the front. The total suction area of the air inlets (8 - 11) is equal to or greater than 15% of the projected area of the indoor heat exchanger (4) as seen from the front.

IPC 8 full level
F24F 1/00 (2011.01); **F24F 1/005** (2019.01); **F24F 1/0063** (2019.01); **F24F 13/20** (2006.01)

CPC (source: EP US)
F24F 1/0014 (2013.01 - EP); **F24F 1/005** (2019.01 - EP US); **F24F 1/0063** (2019.01 - EP US); **F24F 13/20** (2013.01 - EP);
F24F 1/0022 (2013.01 - EP); **F24F 2013/205** (2013.01 - EP)

Cited by
CN103574771A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2090839 A1 20090819; **EP 2090839 A4 20130213**; **EP 2090839 B1 20160113**; AU 2007318556 A1 20080515; AU 2007318556 B2 20101111;
AU 2010227085 A1 20101104; AU 2010227085 B2 20111208; EP 2674685 A1 20131218; EP 2674685 B1 20200408; ES 2566110 T3 20160411;
ES 2802248 T3 20210118; JP 2008121951 A 20080529; JP 4274229 B2 20090603; WO 2008056740 A1 20080515

DOCDB simple family (application)
EP 07831441 A 20071108; AU 2007318556 A 20071108; AU 2010227085 A 20101008; EP 13168014 A 20071108; ES 07831441 T 20071108;
ES 13168014 T 20071108; JP 2006304788 A 20061110; JP 2007071710 W 20071108