

Title (en)
Ceiling-mounted air conditioner

Title (de)
An der Decke montierte Klimaanlage

Title (fr)
Climatiseur monté au plafond

Publication
EP 2520869 B1 20180822 (EN)

Application
EP 12166175 A 20120430

Priority
JP 2011103501 A 20110506

Abstract (en)
[origin: EP2520869A1] Provided is a ceiling-mounted air conditioner that facilitates an attachment and detachment operation of a blower unit relative to a unit body regardless of the number of blower units and realizes improvement of deformation and vibration characteristics of a top plate of the unit body. In the ceiling-mounted air conditioner, the blower subunits (11A, 11B) are integrated with the support member (20A, 20B) bent substantially at a right angle, one surfaces of which are configured to be partition plates (22A, 22B) for partitioning an inside of the unit body (2) into an inlet region and an outlet region, and the other surfaces of which are configured to be support plates (21A, 21B) for supporting fans (18A, 18B, 18C) and motors (19A, 19B) of the blower subunits (11A, 11B). The blower subunits (11A, 11B) are slidably inserted between a pair of the rail members installed in parallel on an inner surface of a top plate from one end to the other end of the top plate of the unit body (2) from the aperture (26) provided in one side surface of the unit body (2), so as to be mounted into the unit body (2) through the support members (20A, 20B).

IPC 8 full level
F24F 1/00 (2011.01); **F24F 1/0047** (2019.01); **F24F 13/20** (2006.01)

CPC (source: EP US)
F24F 1/0047 (2019.01 - EP US); **F24F 1/0022** (2013.01 - EP); **F24F 1/0033** (2013.01 - EP); **F24F 13/20** (2013.01 - EP)

Cited by
CN109154451A; EP3252385A4; WO2017153801A1; US10571151B2; US11326806B2; US10890352B2

Designated contracting state (EPC)
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