

Title (en)
Heat source unit installed into ceiling and air conditioner

Title (de)
Wärmequelleneinheit, die in die Decke installiert ist, und Klimaanlage

Title (fr)
Unité de source de chaleur installée sur un plafond et climatiseur

Publication
EP 2108897 B1 20170614 (EN)

Application
EP 09005100 A 20090407

Priority
JP 2008100258 A 20080408

Abstract (en)
[origin: EP2108897A1] A heat source unit, for facilitating the maintenance of a fan assembly even in a ceiling having a limited space, including: a rectangular housing (12); an air inlet (24) and an air outlet (26) which are provided in the same side surface of the housing; a fan assembly (18) which includes a sirocco fan (28) disposed in the housing and a fan motor (30) driving the sirocco fan; a heat exchanger (16) which performs a heat exchange using air sucked from the air inlet; and a compressor (14). Particularly, on a side surface (36) (rear side surface) opposed to a side surface (22) (front side surface) on which the air inlet of the housing is provided, there is provided an openable extraction port which is used to extract the fan assembly. In addition, on a separation plate (38) of the housing is provided a pair of guide rails (58) which are disposed in a direction along left and right side surfaces (32 and 34) of the housing, and a mounting member (43) to which the fan assembly is fixed is guided by the guide rails so as to be extracted to the outside of the housing in a sliding manner.

IPC 8 full level
F24F 1/0038 (2019.01); **F24F 1/38** (2011.01); **F24F 1/60** (2011.01); **F24F 1/64** (2011.01); **F24F 5/00** (2006.01)

CPC (source: EP US)
F24F 1/0038 (2019.01 - EP US); **F24F 1/0047** (2019.01 - EP); **F24F 1/38** (2013.01 - EP); **F24F 1/60** (2013.01 - EP); **F24F 1/64** (2013.01 - EP); **F24F 2013/205** (2013.01 - EP)

Cited by
EP3081881A1; WO2016166988A1; CN110285171A; CN105352050A; CN107532807A; CN108488946A; EP2520869A1; CN109154451A; EP2871426A1; AU2014256428B2; US2023147346A1; US2022178385A1; US11892013B2; WO2017153801A1; US10890352B2; EP3081867A1; EP3153784A1; WO2017061564A1; US10274208B2; EP3081877A1; EP3081870A1; US11927377B2; US11953239B2

Designated contracting state (EPC)
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EP 2108897 A1 20091014; **EP 2108897 B1 20170614**; ES 2628750 T3 20170803; JP 2009250545 A 20091029; JP 5103251 B2 20121219

DOCDB simple family (application)
EP 09005100 A 20090407; ES 09005100 T 20090407; JP 2008100258 A 20080408