

Title (en)  
CEILING EMBEDDED-TYPE AIR CONDITIONING APPARATUS

Title (de)  
IN DER DECKE EINGEBETTETE KLIMAAANLAGE

Title (fr)  
APPAREIL DE CONDITIONNEMENT D'AIR ENCASTRE AU PLAFOND

Publication  
**EP 1548372 A4 20080514 (EN)**

Application  
**EP 03791363 A 20030828**

Priority

- JP 0310913 W 20030828
- JP 2002254252 A 20020830
- JP 2002254253 A 20020830

Abstract (en)  
[origin: EP1548372A1] In an in-ceiling type air conditioner containing an air blower 9 and a heat exchanger 11 surrounding the air blower which are mounted in a housing 1, the heat exchanger 11 is bent in a polygonal shape, and a part 11D of the heat exchanger 11 protrudes to the housing 1 side at least at the position corresponding to the one side 1D of the housing 1. A drain pan 13 formed by integrally molding a resin frame for a drain pan sheet and foamed styrol is disposed below the heat exchanger 11, and a suction hole is formed substantially at the center of the drain pan so as to face a suction port of the air blower. A boss 61 which penetrates through the foamed styrol 53 is formed in the resin frame so as to face the surface of the resin frame at the opposite side to the foamed styrol 53, and a bell mouth 14 of the air blower is fixed to the boss 61. <IMAGE>

IPC 1-7  
**F24F 1/00**

IPC 8 full level  
**F24F 1/0067** (2019.01); **F24F 1/0047** (2019.01); **F24F 1/0063** (2019.01); **F24F 1/0071** (2019.01); **F24F 13/22** (2006.01)

CPC (source: EP KR US)  
**F24F 1/0047** (2019.01 - EP KR US); **F24F 1/0063** (2019.01 - EP KR US); **F24F 1/0067** (2019.01 - EP US); **F24F 1/0071** (2019.01 - EP US); **F24F 13/222** (2013.01 - EP KR); **F24F 2013/0616** (2013.01 - EP KR); **F24F 2221/14** (2013.01 - KR)

Citation (search report)

- [X] EP 0985889 A2 20000315 - HITACHI LTD [JP]
- [X] JP H09133374 A 19970520 - MITSUBISHI ELECTRIC CORP
- [E] EP 1408285 A1 20040414 - DAIKIN IND LTD [JP]
- [E] EP 1471310 A1 20041027 - DAIKIN IND LTD [JP]
- See references of WO 2004020914A1

Cited by  
US2017115027A1; US11629881B2; EP3006839A1; CN100443817C; EP4119863A4; GB2451152B; GB2451152A; EP3159616A1; CN106610100A; AU2016340533B2; EP3739270A3; EP3892932A1; CN114440318A; US10788240B2

Designated contracting state (EPC)  
ES FR IT

DOCDB simple family (publication)  
**EP 1548372 A1 20050629**; **EP 1548372 A4 20080514**; **EP 1548372 B1 20130410**; ES 2409035 T3 20130624; KR 100710089 B1 20070425; KR 20050083661 A 20050826; WO 2004020914 A1 20040311

DOCDB simple family (application)  
**EP 03791363 A 20030828**; ES 03791363 T 20030828; JP 0310913 W 20030828; KR 20057003417 A 20050228