

Title (en)  
AIR CONDITIONER

Title (de)  
KLIMAANLAGE

Title (fr)  
CLIMATISEUR

Publication  
**EP 2589900 A4 20140917 (EN)**

Application  
**EP 11800326 A 20110401**

Priority  
• JP 2010151770 A 20100702  
• JP 2011001979 W 20110401

Abstract (en)  
[origin: EP2589900A1] An air conditioner of the present invention includes temperature distribution detecting means 12 for detecting a temperature distribution in a room 1, refrigerant leakage detecting means 13 for detecting refrigerant leakage, air-blowing means 14, air-blowing control means 17c for controlling air-blowing means 14, and wind-direction control means 17d for controlling a wind direction of the air-blowing means 14. When the refrigerant leakage detecting means 13 detects refrigerant leakage, the air-blowing control means 17c and/or the wind-direction control means 17d disperses a leaked refrigerant in a direction different from inhabitants 3 and a heat source apparatus 4 detected by the temperature distribution detecting means 12 thereby enhancing the energy efficiency and safety when a flammable refrigerant is used as a refrigerant.

IPC 8 full level  
**F25B 49/02** (2006.01); **F24F 1/009** (2019.01); **F24F 11/00** (2006.01); **F24F 11/02** (2006.01); **F25B 1/00** (2006.01); **F28F 27/00** (2006.01)

CPC (source: EP US)  
**F24F 1/009** (2019.01 - EP US); **F24F 11/0001** (2013.01 - EP); **F24F 11/30** (2017.12 - EP US); **F24F 11/36** (2017.12 - EP US); **F24F 11/46** (2017.12 - EP US); **F24F 11/526** (2017.12 - EP US); **F24F 11/64** (2017.12 - EP US); **F24F 11/74** (2017.12 - EP US); **F24F 11/79** (2017.12 - EP US); **F24F 11/89** (2017.12 - EP US); **F28F 27/00** (2013.01 - US); **F24F 2110/10** (2017.12 - EP US); **F24F 2140/00** (2017.12 - EP US)

Citation (search report)  
• [XY] EP 0872693 A2 19981021 - SANYO ELECTRIC CO [JP]  
• [I] EP 1083392 A2 20010314 - MATSUSHITA ELECTRIC IND CO LTD [JP]  
• [I] JP H1137619 A 19990212 - DAIKIN IND LTD  
• [Y] US 5684463 A 19971104 - DIERCKS RICHARD LEE ROI [US], et al  
• [Y] JP H07159010 A 19950620 - MATSUSHITA ELECTRIC IND CO LTD  
• [E] CN 201875842 U 20110622 - HAIER GROUP CO LTD, et al  
• [AP] CN 201724464 U 20110126 - HAIER GROUP CO LTD, et al  
• [AP] CN 201589544 U 20100922 - HAIER GROUP CO LTD, et al  
• [AP] CN 101900449 A 20101201 - HAIER GROUP CO LTD, et al  
• [A] CN 2663854 Y 20041215 - HAIER GROUP CO [CN]  
• [A] GUOGENG H ET AL: "The advantages and problems and their solutions of small air-conditioner using R290 to substitute for R22", RAC: REFRIGERATION & AIR CONDITIONING, EMAP TRENTON LTD., CROYDON, GB, vol. 8, no. 2, 1 April 2008 (2008-04-01), pages 58 - 62, XP003032368, ISSN: 1460-9878  
• See references of WO 2012001847A1

Cited by  
EP4008975A1; EP3279582A4; EP3869122A1; EP3318823A4; US11959675B2; US11662109B2; WO2017127450A1; EP3156741A4; EP4040060A4; US10663179B2; US11927355B2; EP3029397A4; EP3333509A4; EP3832231A1; EP3832230A1; US10514176B2; US11041647B2; US11774126B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2589900 A1 20130508; EP 2589900 A4 20140917; EP 2589900 B1 20180808**; AU 2011272701 A1 20130124; AU 2011272701 B2 20161117; CN 102971596 A 20130313; CN 102971596 B 20150624; JP 2012013348 A 20120119; US 2013098576 A1 20130425; WO 2012001847 A1 20120105

DOCDB simple family (application)  
**EP 11800326 A 20110401**; AU 2011272701 A 20110401; CN 201180032871 A 20110401; JP 2010151770 A 20100702; JP 2011001979 W 20110401; US 201113807105 A 20110401