

## Title (en)

Air conditioner having dehumidifying and ventilating functions

## Title (de)

Klimaanlage mit Funktionen zur Entfeuchtung und Belüftung

## Title (fr)

Dispositif de conditionnement d'air avec ventilation et déshumidification

## Publication

**EP 1083390 A3 20021204 (EN)**

## Application

**EP 00119509 A 20000906**

## Priority

- JP 25262499 A 19990907
- JP 25262599 A 19990907
- JP 25262699 A 19990907
- JP 2000010170 A 20000114

## Abstract (en)

[origin: EP1083390A2] In order to solve the problems of ventilation and dehumidifying of an air conditioner, the air conditioner includes a refrigerant circuit formed by coupling at least a compressor (7), an indoor heat exchanger (4), a decompressor (8) and an outdoor heat exchanger (6), a humidifying/dehumidifying apparatus (10, 11, 12, 13, 14) provided separate from the refrigerant circuit, for removing moisture in the room, a moisture detection sensor (31) for detecting indoor moisture, and a control unit (34) for switching an operation mode based on the moisture detected by the moisture detection sensor (31). The humidifying/dehumidifying apparatus (10, 11, 12, 13, 14) guides the sucked indoor air to a path communicated to the room and a path communicated to the outside of the room in a ventilation mode (37, 35), and guides the sucked indoor air to the outside of the room in a dehumidifying mode. <IMAGE>

## IPC 1-7

**F24F 3/14**; **F24F 11/00**

## IPC 8 full level

**F24F 1/00** (2006.01); **F24F 1/0071** (2019.01); **F24F 3/14** (2006.01); **F24F 11/00** (2006.01)

## CPC (source: EP US)

**F24F 1/0071** (2019.01 - EP US); **F24F 3/1423** (2013.01 - EP); **F24F 11/0001** (2013.01 - EP); **F24F 11/65** (2017.12 - EP US); **F24F 11/30** (2017.12 - EP); **F24F 2110/20** (2017.12 - EP); **F24F 2203/1012** (2013.01 - EP); **F24F 2203/1016** (2013.01 - EP); **F24F 2203/1036** (2013.01 - EP); **F24F 2203/1056** (2013.01 - EP); **F24F 2203/1068** (2013.01 - EP); **F24F 2203/1084** (2013.01 - EP)

## Citation (search report)

- [XAY] US 4474021 A 19841002 - HARBAND JOEL [IL]
- [YA] EP 0892330 A1 19990120 - JOHNSON SERVICE CO [US]
- [Y] DE 19628735 A1 19980122 - HOFFMANN HANS [DE]
- [XA] CN 1226663 A 19990825 - SAMSUNG ELECTRONICS CO LTD [KR] & US 6145328 A 20001114 - CHOI KWANG-SOO [KR]
- [A] US 4916909 A 19900417 - MATHUR ANOOP [US], et al
- [A] CA 2211746 A1 19990219 - VALLIERES NORMAND [CA], et al
- [A] DE 2210473 B1 19730906
- [A] US 5448895 A 19950912 - COELLNER JAMES A [US], et al
- [A] US 5070931 A 19911210 - KALTHOFF GERD-OTTO [US], et al
- [A] US 5775406 A 19980707 - GHITEA JR NICOLAE [US]
- [A] US 4971136 A 19901120 - MATHUR ANOOP [US], et al
- [A] US 4716957 A 19880105 - THOMPSON PETER [JP], et al
- [A] US 5924486 A 19990720 - EHLERS GREGORY A [US], et al
- [YA] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 09 30 July 1999 (1999-07-30)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 09 30 July 1999 (1999-07-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 014, no. 155 (M - 0954) 26 March 1990 (1990-03-26)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 09 30 July 1999 (1999-07-30)
- [PX] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 14 22 December 1999 (1999-12-22)
- [PX] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 10 17 November 2000 (2000-11-17)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 02 28 February 1997 (1997-02-28)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 11 29 November 1996 (1996-11-29)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 09 30 July 1999 (1999-07-30)
- [A] PATENT ABSTRACTS OF JAPAN vol. 011, no. 047 (C - 403) 13 February 1987 (1987-02-13)

## Cited by

EP4170254A4; CN112865227A; EP2184554A3; KR101447755B1; US10055781B2; US10909607B2; US8991203B2

## Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

## DOCDB simple family (publication)

**EP 1083390 A2 20010314**; **EP 1083390 A3 20021204**; AU 5653800 A 20010308; AU 768635 B2 20031218; CN 100338401 C 20070919; CN 1287250 A 20010314

## DOCDB simple family (application)

**EP 00119509 A 20000906**; AU 5653800 A 20000906; CN 00126344 A 20000907