

Title (en)
HUMIDITY CONTROL DEVICE

Title (de)
VORRICHTUNG ZUR FEUCHTIGKEITSREGELUNG

Title (fr)
DISPOSITIF DE RÉGULATION D'HUMIDITÉ

Publication
EP 2767772 A4 20160106 (EN)

Application
EP 12836318 A 20120920

Priority
• JP 2011214912 A 20110929
• JP 2012005988 W 20120920

Abstract (en)
[origin: EP2767772A1] A refrigerant circuit (50) of a humidity control apparatus (10) is provided with two adsorption heat exchangers (51, 52). In the refrigerant circuit (50), refrigerant can circulate in reverse directions. A switching mechanism (40) of the humidity control apparatus (10) switches between a transfer path of the outdoor air to be supplied into a room and a transfer path of the indoor air to be exhausted to the outside the room. In a first operation of the humidity control apparatus (10), a direction of refrigerant circulation and a flow path of the air are changed every predetermined period. In a second operation of the humidity control apparatus (10), the refrigerant circuit (50) is stopped, and the flow path of the air is changed every predetermined period. In the second operation, although the refrigerant circuit (50) is stopped, the outdoor air whose temperature and humidity are controlled is supplied into the room to ensure comfort of the room.

IPC 8 full level
F24F 3/147 (2006.01); **F24F 3/14** (2006.01); **F24F 11/00** (2006.01); **F24F 11/02** (2006.01)

CPC (source: EP US)
F24F 3/1429 (2013.01 - EP US); **F24F 11/0008** (2013.01 - EP US); **F24F 11/84** (2017.12 - EP US); **F24F 11/86** (2017.12 - EP US);
F24F 2140/50 (2017.12 - EP US)

Citation (search report)
• [XY] EP 1890090 A1 20080220 - DAIKIN IND LTD [JP]
• [XY] EP 1898161 A1 20080312 - DAIKIN IND LTD [JP]
• [Y] EP 1630482 A1 20060301 - DAIKIN IND LTD [JP]
• [Y] JP H0413051 A 19920117 - MATSUSHITA ELECTRIC IND CO LTD
• See references of WO 2013046609A1

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US11035585B2

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 2767772 A1 20140820; EP 2767772 A4 20160106; EP 2767772 B1 20180328; AU 2012313765 A1 20140501; AU 2012313765 B2 20150716;
CN 103827590 A 20140528; CN 103827590 B 20160921; ES 2665310 T3 20180425; JP 2013076476 A 20130425; JP 5229368 B2 20130703;
US 2014230475 A1 20140821; WO 2013046609 A1 20130404

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