

Title (en)
AIR CONDITIONING DEVICE

Title (de)
KLIMATISIERUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE CLIMATISATION

Publication
EP 3260790 A4 20181024 (EN)

Application
EP 15882576 A 20150218

Priority
JP 2015054402 W 20150218

Abstract (en)
[origin: EP3260790A1] In an air-conditioning apparatus 100, a compressor 1, an outdoor heat exchanger 3, an indoor heat exchanger 5, and a four-way valve 2 provided closer to the discharge side of the compressor 1 than the outdoor heat exchanger 3 and provided closer to the discharge side of the compressor 1 than the indoor heat exchanger 5 are connected with each other. The air-conditioning apparatus 100 includes a fan 31 configured to deliver air toward the outdoor heat exchanger 3, a power unit configured to supply electric power to the fan 31, a fan input detector configured to detect a physical value related to the electric power supplied to the fan 31, and a controller 80 configured to control the four-way valve 2 to switch between a first operation in which the outdoor heat exchanger 3 functions as an evaporator and a second operation in which the outdoor heat exchanger 3 functions as a condenser. The first operation is switched to the second operation when the physical value detected by the fan input detector is equal to or larger than a reference value. The controller 80 adjusts the reference value so that the reference value when refrigerant flowing through the outdoor heat exchanger 3 has a high temperature is smaller than the reference value when the refrigerant has a low temperature.

IPC 8 full level
F24F 11/42 (2018.01); **F24F 11/64** (2018.01); **F24F 11/67** (2018.01); **F24F 11/86** (2018.01)

CPC (source: EP US)
F24F 11/42 (2017.12 - EP US); **F24F 11/64** (2017.12 - EP US); **F24F 11/67** (2017.12 - EP US); **F24F 11/86** (2017.12 - EP US);
F24F 11/89 (2017.12 - US); **F25B 13/00** (2013.01 - US); **F25B 49/022** (2013.01 - US); **F24F 2140/60** (2017.12 - EP US);
F25B 2313/0294 (2013.01 - US); **F25B 2313/0315** (2013.01 - US); **F25B 2600/0253** (2013.01 - US); **F25B 2700/15** (2013.01 - US)

Citation (search report)
• [A] EP 2458306 A1 20120530 - SHARP KK [JP]
• [A] US 5186016 A 19930216 - NIGO TOSHIRO [JP]
• [A] EP 2436999 A1 20120404 - DAIKIN IND LTD [JP]
• [A] CN 1888671 A 20070103 - LG ELECTRONICS TIANJIN [CN]
• [AD] JP 2009058222 A 20090319 - DAIKIN IND LTD
• See references of WO 2016132473A1

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 3260790 A1 20171227; **EP 3260790 A4 20181024**; **EP 3260790 B1 20200325**; CN 107250679 A 20171013; CN 107250679 B 20191126;
JP 6338762 B2 20180606; JP WO2016132473 A1 20170907; US 2017363332 A1 20171221; WO 2016132473 A1 20160825

DOCDB simple family (application)
EP 15882576 A 20150218; CN 201580075922 A 20150218; JP 2015054402 W 20150218; JP 2017500189 A 20150218;
US 201515543289 A 20150218