

Title (en)
AIR CONDITIONING DEVICE

Title (de)
KLIMAANLAGENVORRICHTUNG

Title (fr)
DISPOSITIF DE CLIMATISATION

Publication
EP 2905552 A4 20160601 (EN)

Application
EP 12886003 A 20121001

Priority
JP 2012075310 W 20121001

Abstract (en)
[origin: EP2905552A1] In an air-conditioning apparatus 1 that includes a heat-source-unit-side heat exchanger 103, a plurality of use-side heat exchangers 105, and a relay unit B provided between the heat-source-unit-side heat exchanger 103 and the plurality of use-side heat exchangers 105, configured to switch part of the plurality of use-side heat exchangers 105 to a cooling operation side, and configured to switch part of the plurality of use-side heat exchangers 105 to a heating operation side and that performs a cooling and heating simultaneous operation by switching each of the plurality of use-side heat exchangers 105 to the cooling operation side or the heating operation side in accordance with a control instruction, the relay unit B includes a third flow rate control unit 115 configured to adjust the flow rate of a refrigerant to be distributed to the heat-source-unit-side heat exchanger 103 and a use-side heat exchanger 105 that is performing the cooling operation, and a controller 151 configured to adjust the third flow rate control unit 115, and the controller 151 obtains, based on a downstream-side temperature on a downstream side of the third flow rate control unit 115 and a liquid pipe temperature of the use-side heat exchanger 105, a target control temperature of the downstream-side temperature, and controls the liquid pipe temperature by adjusting the third flow rate control unit 115 in accordance with the target control temperature.

IPC 8 full level
F24F 5/00 (2006.01); **F24F 11/00** (2006.01); **F25B 13/00** (2006.01); **F25B 29/00** (2006.01); **F25B 41/04** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)
F24F 11/83 (2017.12 - EP US); **F24F 11/84** (2017.12 - EP US); **F25B 13/00** (2013.01 - EP US); **F25B 41/20** (2021.01 - EP US); **F25B 49/02** (2013.01 - EP US); **F25B 49/022** (2013.01 - US); **F25B 2313/0231** (2013.01 - EP US); **F25B 2313/0253** (2013.01 - EP US); **F25B 2313/0272** (2013.01 - EP US); **F25B 2313/0314** (2013.01 - EP US); **F25B 2400/23** (2013.01 - EP US); **F25B 2500/19** (2013.01 - EP US); **F25B 2600/2509** (2013.01 - EP US); **F25B 2600/2513** (2013.01 - EP US); **F25B 2700/2106** (2013.01 - EP US)

Citation (search report)
• [A] US 2010101256 A1 20100429 - KAWANO SATOSHI [JP], et al
• [A] US 2006254294 A1 20061116 - SHIMAMOTO DAISUKE [JP], et al
• [A] US 2009272135 A1 20091105 - NISHIMURA TADAFUMI [JP], et al
• See references of WO 2014054091A1

Cited by
EP3517848A4

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 2905552 A1 20150812; **EP 2905552 A4 20160601**; **EP 2905552 B1 20190417**; JP 5759080 B2 20150805; JP WO2014054091 A1 20160825; US 2015211776 A1 20150730; WO 2014054091 A1 20140410

DOCDB simple family (application)
EP 12886003 A 20121001; JP 2012075310 W 20121001; JP 2014539488 A 20121001; US 201214419371 A 20121001