

Title (en)
AIR CONDITIONING DEVICE

Title (de)
KLIMATISIERUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE CLIMATISATION

Publication
EP 3587947 A4 20200122 (EN)

Application
EP 17898257 A 20170221

Priority
JP 2017006375 W 20170221

Abstract (en)
[origin: EP3587947A1] An air-conditioning apparatus includes a refrigerant circuit, a heat medium circuit, a separating unit and a discharge unit. In the refrigerant circuit, a compressor, a heat-source-side heat exchanger, an expansion unit and a refrigerant-heat medium heat exchanger are connected by a refrigerant pipe, and refrigerant is circulated. In the heat medium circuit, a pump, the refrigerant-heat medium heat exchanger, and a load-side heat exchanger are connected by a heat medium pipe, and a heat medium is circulated. The load-side heat exchanger exchanges heat with air in space to be air-conditioned. The separating unit separates the refrigerant and the heat medium from each other, and is provided at part of the heat medium pipe which is located outside the space to be air-conditioned and in which the heat medium flows after flowing out of the refrigerant-heat medium heat exchanger and before flowing into the load-side heat exchanger. The discharge unit is connected to the separating unit to discharge the refrigerant separated from the heat medium by the separating unit to the outside of the space to be air-conditioned.

IPC 8 full level
F24F 11/30 (2018.01); **B01D 53/00** (2006.01); **F24F 11/36** (2018.01); **F25B 25/00** (2006.01); **F25B 49/00** (2006.01)

CPC (source: EP)
F24F 11/36 (2018.01); **F24H 15/12** (2022.01); **F25B 1/00** (2013.01); **F25B 25/005** (2013.01); **F25B 49/005** (2013.01); **F25B 49/02** (2013.01)

Citation (search report)

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- [A] EP 1143209 A1 20011010 - DAIKIN IND LTD [JP]
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- [A] US 2011302941 A1 20111215 - TAKATA SHIGEO [JP]
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- See also references of WO 2018154628A1

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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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3587947 A1 20200101; **EP 3587947 A4 20200122**; **EP 3587947 B1 20240828**; JP 6771642 B2 20201021; JP WO2018154628 A1 20191107; WO 2018154628 A1 20180830

DOCDB simple family (application)
EP 17898257 A 20170221; JP 2017006375 W 20170221; JP 2019501784 A 20170221