

Title (en)
AIR CONDITIONING DEVICE

Title (de)
KLIMATISIERUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE CLIMATISATION

Publication
EP 3217109 A4 20181205 (EN)

Application
EP 14905519 A 20141105

Priority
JP 2014079376 W 20141105

Abstract (en)
[origin: EP3217109A1] An air-conditioning apparatus includes a refrigerant circuit in which a compressor, a heat source side heat exchanger, an expansion device, and an intermediate heat exchanger exchanging heat between refrigerant and a heat medium are connected by a refrigerant pipe, the refrigerant flowing through the refrigerant circuit, a heat medium circuit in which a pump conveying the heat medium, a use side heat exchanger, and the intermediate heat exchanger are connected by a heat medium pipe, the heat medium flowing through the heat medium circuit, and an air discharge device including a heat medium tank connected to the heat medium circuit and separating air from the heat medium in the heat medium circuit, and an air vent valve provided at the heat medium tank and discharging the air.

IPC 8 full level
F24F 5/00 (2006.01); **F24D 11/02** (2006.01); **F24D 19/08** (2006.01)

CPC (source: EP)
F24D 11/0214 (2013.01); **F24D 19/083** (2013.01); **F24F 5/00** (2013.01); **F24D 2220/0271** (2013.01); **F24H 15/12** (2022.01); **F25B 2313/0231** (2013.01)

Citation (search report)

- [IY] EP 2314939 A1 20110427 - MITSUBISHI ELECTRIC CORP [JP]
- [Y] EP 2589885 A2 20130508 - WHETSTONE STANLEY [GB], et al
- [Y] GB 2444778 A 20080618 - WHETSTONE STANLEY [GB]
- [Y] NL 106105 C
- [Y] US 4602923 A 19860729 - BERNSTEIN HANS F [DE]
- See references of WO 2016071978A1

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 3217109 A1 20170913; **EP 3217109 A4 20181205**; **EP 3217109 B1 20210922**; EP 3428550 A1 20190116; EP 3428550 B1 20200408; WO 2016071978 A1 20160512

DOCDB simple family (application)
EP 14905519 A 20141105; EP 18187914 A 20141105; JP 2014079376 W 20141105