

Title (en)
RELAY DEVICE AND AIR CONDITIONING DEVICE

Title (de)
RELAISVORRICHTUNG UND KLIMAANLAGE

Title (fr)
DISPOSITIF DE RELAIS ET DISPOSITIF DE CLIMATISATION

Publication
EP 4261474 A4 20231227 (EN)

Application
EP 20965072 A 20201209

Priority
JP 2020045861 W 20201209

Abstract (en)
[origin: EP4261474A1] A branch unit (30) includes a first heat exchanger (61a) and a second heat exchanger (61b), a first pump (60a), a second pump (60b), a plurality of first ports (P1A, P1B), a plurality of second ports (P2A, P2B), a flow path switching unit (90), a plurality of forward path side heaters (201, 202), and a plurality of first temperature sensors (T1, T3). The plurality of forward path side heaters (201, 202) are respectively provided for a plurality of forward path side pipes (31a, 31b) through which a second heat medium is sent to the plurality of first ports (P1A, P1B). The plurality of first temperature sensors (T1, T3) are respectively arranged, at the plurality of forward path side pipes (31a, 31b), downstream of the plurality of forward path side heaters (201, 202).

IPC 8 full level
F25B 5/02 (2006.01); **F25B 41/00** (2021.01); **F25B 41/24** (2021.01); **F25B 49/02** (2006.01)

CPC (source: EP US)
F24F 1/0063 (2019.01 - US); **F24F 13/30** (2013.01 - US); **F25B 5/02** (2013.01 - EP); **F25B 41/00** (2013.01 - EP); **F25B 41/24** (2021.01 - EP); **F25B 49/02** (2013.01 - EP); **F24F 2140/20** (2017.12 - US); **F25B 2313/0233** (2013.01 - EP); **F25B 2339/047** (2013.01 - EP); **F25B 2400/01** (2013.01 - EP); **F25B 2400/06** (2013.01 - EP); **F25B 2600/2519** (2013.01 - EP); **F25B 2700/21** (2013.01 - EP); **F25B 2700/21151** (2013.01 - EP); **F25B 2700/21152** (2013.01 - EP)

Citation (search report)

- [A] EP 2835602 A1 20150211 - MITSUBISHI ELECTRIC CORP [JP]
- [A] EP 2508819 A1 20121010 - MITSUBISHI ELECTRIC CORP [JP]
- [A] JP 2002005537 A 20020109 - DAIKIN IND LTD
- See references of WO 2022123689A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4261474 A1 20231018; **EP 4261474 A4 20231227**; CN 116507859 A 20230728; JP WO2022123689 A1 20220616; US 2023375195 A1 20231123; WO 2022123689 A1 20220616

DOCDB simple family (application)
EP 20965072 A 20201209; CN 202080107630 A 20201209; JP 2020045861 W 20201209; JP 2022567949 A 20201209; US 202018247898 A 20201209