

Title (en)  
AIR CONDITIONER

Title (de)  
KLIMAANLAGE

Title (fr)  
CLIMATISEUR

Publication  
**EP 3869114 A4 20211027 (EN)**

Application  
**EP 18937404 A 20181019**

Priority  
JP 2018039035 W 20181019

Abstract (en)  
[origin: EP3869114A1] An air conditioning apparatus (100) includes: a main circuit (30); a first bypass flow path (B1) configured to communicate a pipe at a first expansion valve (6a) side of a second heat exchanger (7) with a pipe at a discharge side of a compressor (1); a second bypass flow path (B2) configured to communicate a pipe at a suction side of the compressor (1) with the pipe at the discharge side of the compressor (1); and a first flow path selection device (20) configured to selectively flow the refrigerant discharged from the compressor (1) to at least one of a first heat exchanger (5), the first bypass flow path (B1), and the second bypass flow path (B2). During a heating operation, the first flow path selection device (20) is configured to select at least the first heat exchanger (5). During a defrosting operation, the first flow path selection device (20) is configured to select at least the first bypass flow path (B1) after selecting at least the second bypass flow path (B2). With such a configuration, there can be provided an air conditioning apparatus that allows defrosting in a short time.

IPC 8 full level  
**F24F 11/41** (2018.01); **F24F 1/26** (2011.01); **F25B 13/00** (2006.01); **F25B 41/24** (2021.01); **F25B 47/02** (2006.01); **F25B 49/02** (2006.01); **F24F 140/20** (2018.01)

CPC (source: EP)  
**F24F 1/26** (2013.01); **F24F 11/41** (2018.01); **F25B 13/00** (2013.01); **F25B 41/24** (2021.01); **F25B 47/022** (2013.01); **F25B 49/02** (2013.01); **F24F 11/84** (2018.01); **F24F 2140/20** (2018.01); **F25B 2600/2507** (2013.01); **F25B 2600/2519** (2013.01); **F25B 2700/21152** (2013.01)

Citation (search report)

- [Y] WO 2017216861 A1 20171221 - MITSUBISHI ELECTRIC CORP [JP]
- [Y] US 2013174590 A1 20130711 - SJOHOLM LARS I [US], et al
- [A] EP 3136009 A1 20170301 - JOHNSON CONTROLS-HITACHI AIR CONDITIONING TECH (HONG KONG) LTD [CN]
- See also references of WO 2020079835A1

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 3869114 A1 20210825; EP 3869114 A4 20211027; EP 3869114 B1 20240320**; JP 7034325 B2 20220311; JP WO2020079835 A1 20210924; WO 2020079835 A1 20200423

DOCDB simple family (application)  
**EP 18937404 A 20181019**; JP 2018039035 W 20181019; JP 2020551698 A 20181019