

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 3543624 A4 20191204 (EN)

Application
EP 16921963 A 20161121

Priority
JP 2016084400 W 20161121

Abstract (en)
[origin: EP3543624A1] An air-conditioning apparatus includes a circuit, a bypass pipe that connects a position between a heat source-side heat exchanger and an expansion unit, with the upstream side of an accumulator, a bypass opening and closing device provided to the bypass pipe to control the flow rate of refrigerant flowing in the bypass pipe, a leakage detection unit that detects refrigerant leakage, and a control unit that switches the flow switching device to switch between a cooling operation and a heating operation, the cooling operation being an operation in which the heat source-side heat exchanger acts as a condenser, the heating operation being an operation in which the heat source-side heat exchanger acts as an evaporator. The control unit includes a first controller that, in response to detection of refrigerant leakage by the leakage detection unit, switches the flow switching device to connect the discharge side of the compressor with the heat source-side heat exchanger, closes the expansion unit, and opens the bypass opening and closing device, and a second controller that, after the end of operation of the first controller, switches the flow switching device to connect the discharge side of the compressor with the load-side heat exchanger, and stops the compressor.

IPC 8 full level
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CPC (source: EP US)
F25B 13/00 (2013.01 - EP); **F25B 41/20** (2021.01 - EP US); **F25B 41/24** (2021.01 - EP US); **F25B 49/02** (2013.01 - EP); **F25B 2313/0233** (2013.01 - EP); **F25B 2313/0292** (2013.01 - EP); **F25B 2400/0409** (2013.01 - EP); **F25B 2500/222** (2013.01 - EP); **F25B 2600/0251** (2013.01 - EP); **F25B 2600/2501** (2013.01 - EP); **F25B 2600/2507** (2013.01 - EP); **F25B 2600/2509** (2013.01 - EP); **F25B 2600/2513** (2013.01 - EP); **F25B 2600/2519** (2013.01 - EP)

Citation (search report)
• [A] WO 2016157519 A1 20161006 - MITSUBISHI ELECTRIC CORP [JP] & EP 3279580 A1 20180207 - MITSUBISHI ELECTRIC CORP [JP]
• [A] JP 2015087071 A 20150507 - FUJITSU GENERAL LTD
• [A] JP 2013089209 A 20130513 - PANASONIC CORP
• [A] EP 2257749 A2 20101208 - CARRIER CORP [US]
• See references of WO 2018092299A1

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CN114303032A; CN115751606A; EP3913303A1; EP4170257A4; WO2021235303A1; WO2021085529A1

Designated contracting state (EPC)
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