

Title (en)
AIR-CONDITIONING DEVICE

Title (de)
KLIMATISIERUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE CLIMATISATION

Publication
EP 3279580 A1 20180207 (EN)

Application
EP 15887665 A 20150403

Priority
JP 2015060601 W 20150403

Abstract (en)
The present invention includes a controller 30 that performs a pump-down operation in which, when a leakage of refrigerant is detected, a flow switching device 11 is switched to a direction of a cooling operation so that refrigerant in a refrigerant main pipe 3 is recovered into a heat-side heat exchanger 12 and an accumulator 14, and in which a refrigerant shutoff device 13, a bypass opening-closing device 15 and operation of a compressor 10 are controlled, and then performs a refrigerant leakage amount reduction operation in which the flow switching device 11 is switched to a direction of a heating operation so that the recovered refrigerant is enclosed in the heat-side heat exchanger 12 and the accumulator 14, and in which the refrigerant shutoff device 13, the bypass opening-closing device 15 and operation of the compressor 10 are controlled.

IPC 8 full level
F25B 49/02 (2006.01)

CPC (source: EP US)
F24F 11/36 (2017.12 - EP); **F24F 11/84** (2017.12 - EP); **F24F 11/86** (2017.12 - EP); **F24F 11/89** (2017.12 - US); **F25B 13/00** (2013.01 - EP); **F25B 49/005** (2013.01 - EP); **F25B 49/02** (2013.01 - EP); **F24F 2140/12** (2017.12 - EP); **F24F 2140/20** (2017.12 - EP); **F24F 2221/54** (2013.01 - EP); **F25B 2313/0233** (2013.01 - EP); **F25B 2313/0294** (2013.01 - EP); **F25B 2313/0314** (2013.01 - EP); **F25B 2400/04** (2013.01 - EP); **F25B 2400/19** (2013.01 - EP); **F25B 2500/22** (2013.01 - EP); **F25B 2500/222** (2013.01 - EP); **F25B 2600/0253** (2013.01 - EP); **F25B 2600/2501** (2013.01 - EP); **F25B 2600/2513** (2013.01 - EP); **F25B 2700/1931** (2013.01 - EP); **F25B 2700/1933** (2013.01 - EP); **F25B 2700/21152** (2013.01 - EP)

Cited by
EP3872423A1; US11473821B2; US11441820B2; US11971183B2; US11143439B2; US11231199B2

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 3279580 A1 20180207; **EP 3279580 A4 20190515**; **EP 3279580 B1 20220907**; JP 6479162 B2 20190306; JP WO2016157519 A1 20171102; WO 2016157519 A1 20161006

DOCDB simple family (application)
EP 15887665 A 20150403; JP 2015060601 W 20150403; JP 2017509120 A 20150403