

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 2741021 A4 20140709 (EN)

Application
EP 12803614 A 20120531

Priority
• JP 2011142599 A 20110628
• JP 2012064098 W 20120531

Abstract (en)
[origin: US2014116078A1] An air conditioning apparatus includes a defrosting flow channel mechanism. The air conditioning apparatus performs an air-warming defrost operation in which refrigerant sent from an indoor heat exchanger to an outdoor heat exchanger is evaporated while defrosting an arbitrarily selected heat exchange path using the defrosting flow channel mechanism. In the defrost operation, the refrigerant sent to the outdoor heat exchanger from the indoor heat exchanger is not channeled into the refrigerant flow diverter but is passed through the arbitrarily selected heat exchange path from the gas-side end to the liquid-side end of the arbitrarily selected heat exchange path, and the refrigerant passed through the arbitrarily selected heat exchange path flows through the refrigerant flow diverter to be passed through other heat exchange paths other than the arbitrarily selected heat exchange path from the liquid-side end to the gas-side end of the other heat exchange paths.

IPC 8 full level
F24F 11/02 (2006.01); **F24F 1/14** (2011.01); **F24F 1/30** (2011.01); **F25B 13/00** (2006.01); **F25B 39/02** (2006.01); **F25B 41/04** (2006.01); **F25B 47/02** (2006.01)

CPC (source: EP KR US)
F24F 1/14 (2013.01 - EP US); **F24F 1/30** (2013.01 - EP US); **F24F 11/89** (2017.12 - EP KR US); **F25B 13/00** (2013.01 - EP US); **F25B 29/003** (2013.01 - US); **F25B 47/02** (2013.01 - KR); **F25B 47/022** (2013.01 - EP US); **F28D 1/0443** (2013.01 - EP US); **F28D 1/0477** (2013.01 - EP US); **F28F 9/0275** (2013.01 - EP US); **F24F 11/42** (2017.12 - EP US); **F25B 2313/0233** (2013.01 - EP US); **F25B 2313/0251** (2013.01 - EP US); **F25B 2313/0253** (2013.01 - EP US); **F25B 2313/02741** (2013.01 - EP US)

Citation (search report)
• [X] US 4302945 A 19811201 - BELL WILLIAM W
• [X] JP S63132272 U 19880830
• [A] JP H05113276 A 19930507 - HITACHI LTD, et al
• See references of WO 2013001976A1

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)
US 2014116078 A1 20140501; CN 103635754 A 20140312; EP 2741021 A1 20140611; EP 2741021 A4 20140709; JP 2013011364 A 20130117; KR 20140026630 A 20140305; WO 2013001976 A1 20130103

DOCDB simple family (application)
US 201214126684 A 20120531; CN 201280032321 A 20120531; EP 12803614 A 20120531; JP 2011142599 A 20110628; JP 2012064098 W 20120531; KR 20147001871 A 20120531