

Title (en)
Air conditioner

Title (de)
Klimaanlage

Title (fr)
Climatiseur

Publication
EP 2835589 A3 20150304 (EN)

Application
EP 14179736 A 20140804

Priority
KR 20130092863 A 20130806

Abstract (en)
[origin: EP2835589A2] An air conditioner is provided. The air conditioner includes an air conditioner includes: a main body including a suction hole for suctioning air and a discharge hole for discharging the air, a compressor disposed in the main body to compress a refrigerant, a heat exchanger receiving the refrigerant compressed by the compressor, the heat exchanger including a plurality of heat-exchange parts, an expander disposed in the main body to expand the refrigerant, and a valve for controlling a flow of the refrigerant into the heat exchanger. An operation mode of the air conditioner includes a cooling mode and a dehumidifying mode, the plurality of heat-exchange parts are disposed in series with respect to a flow direction of the air to allow the air to successively pass therethrough, and a portion of the plurality of heat-exchange parts acts as a condenser, and the other portion of the plurality of heat-exchange parts acts as an evaporator according to the flow of the refrigerant by an operation of the valve.

IPC 8 full level
F24F 1/02 (2011.01); **F24F 3/06** (2006.01); **F24F 3/14** (2006.01); **F24F 3/153** (2006.01)

CPC (source: CN EP KR)
F24F 1/022 (2013.01 - CN EP KR); **F24F 1/0323** (2019.01 - KR); **F24F 1/0358** (2019.01 - KR); **F24F 1/04** (2013.01 - KR); **F24F 3/065** (2013.01 - EP); **F24F 3/153** (2013.01 - EP); **F24F 11/84** (2017.12 - KR); **F24F 13/30** (2013.01 - CN); **F24F 2003/1446** (2013.01 - EP); **F24F 2221/54** (2013.01 - CN EP)

Citation (search report)

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- [X] US 3779031 A 19731218 - AKIYAMA M, et al
- [X] EP 1327838 A2 20030716 - DENSO CORP [JP]
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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 2835589 A2 20150211; EP 2835589 A3 20150304; EP 2835589 B1 20190508; CN 104344466 A 20150211; CN 104344466 B 20170926; KR 102139084 B1 20200729; KR 20150017069 A 20150216

DOCDB simple family (application)
EP 14179736 A 20140804; CN 201410373401 A 20140731; KR 20130092863 A 20130806