

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 1975525 A4 20140723 (EN)

Application
EP 07706803 A 20070116

Priority
• JP 2007050476 W 20070116
• JP 2006007578 A 20060116

Abstract (en)
[origin: EP1975525A1] An air conditioner that reverses and appropriately controls the stream of refrigerant between paths of a flow divider corresponding to an air conditioner heat exchanger having a plurality of paths to increase the heat exchange capacity is provided. The air conditioner includes a compressor, a four-way valve, an outdoor heat exchanger, a restriction device, and an indoor heat exchanger including a plurality of paths. These members are sequentially connected by a refrigerant pipe to form a refrigerant circuit. A flow divider including a plurality of paths is arranged between the indoor heat exchanger, which includes the plurality of paths, and the restriction device. A refrigerant flow amount regulation valve is provided for each of the plurality of paths in the flow divider. In a predetermined operation state, more refrigerant is distributed to a predetermined passage in which the processing capacity is large and the refrigerant temperature at an outlet of the indoor heat exchanger is high in comparison with other paths.

IPC 8 full level
F25B 41/00 (2006.01); **F24F 1/0063** (2019.01); **F24F 11/02** (2006.01); **F25B 1/00** (2006.01); **F25B 5/02** (2006.01); **F25B 13/00** (2006.01); **F25B 41/04** (2006.01)

CPC (source: EP KR US)
F24F 1/0063 (2019.01 - EP KR US); **F25B 5/02** (2013.01 - KR); **F25B 13/00** (2013.01 - KR); **F25B 41/20** (2021.01 - EP KR US); **F25B 41/385** (2021.01 - EP KR US); **F25B 41/39** (2021.01 - EP KR US); **F24F 2140/20** (2017.12 - KR); **F25B 5/02** (2013.01 - EP US); **F25B 13/00** (2013.01 - EP US); **F25B 2600/2507** (2013.01 - EP KR US)

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1975525 A1 20081001; **EP 1975525 A4 20140723**; AU 2007205443 A1 20070719; AU 2007205443 B2 20100527; CN 101149097 A 20080326; CN 101149097 B 20111116; CN 101360961 A 20090204; CN 101360961 B 20120523; JP 2007187420 A 20070726; JP 4120680 B2 20080716; KR 100973916 B1 20100803; KR 20080071588 A 20080804; US 2009025420 A1 20090129; WO 2007081021 A1 20070719

DOCDB simple family (application)
EP 07706803 A 20070116; AU 2007205443 A 20070116; CN 200610156745 A 20061228; CN 200780001722 A 20070116; JP 2006007578 A 20060116; JP 2007050476 W 20070116; KR 20087013407 A 20070116; US 8710007 A 20070116