

Title (en)
Multi-unit air conditioning system

Title (de)
Klimaanlagensystem mit mehreren Einheiten

Title (fr)
Système de climatisation à plusieurs unités

Publication
EP 2426438 A3 20140730 (EN)

Application
EP 11178952 A 20110826

Priority
JP 2010190396 A 20100827

Abstract (en)
[origin: EP2426438A2] A sufficient cooling capacity can be easily ensured with low costs even when an indoor unit that always performs a cooling operation is provided in an air conditioning system including a plurality of indoor units. An indoor unit 3c that always performs a cooling operation includes a gas pipe pressure control kit 100 including a plurality of electromagnetic valves 101a, 101b and 101c, controls opening/closing of the electromagnetic valves 101a, 101b and 101c according to a suction temperature of a refrigerant, and thus adjusts pressure loss of the refrigerant guided via an indoor heat exchanger 40 through a low-pressure gas pipe 7 to an outdoor unit 1 and adjusts evaporating pressure of the refrigerant in the indoor heat exchanger 40. This can prevent a suction temperature from dropping to below zero, and prevent the indoor heat exchanger 40 from freezing in an indoor unit 3c that performs the cooling operation even when an outside air temperature is low, the other indoor unit 3 performs the heating operation, and the outdoor unit functions as an evaporator.

IPC 8 full level
F25B 13/00 (2006.01); **F25B 29/00** (2006.01)

CPC (source: EP)
F25B 13/00 (2013.01); **F25B 29/003** (2013.01); **F25B 2313/007** (2013.01); **F25B 2313/0233** (2013.01); **F25B 2313/02334** (2013.01)

Citation (search report)

- [X] EP 1677055 A1 20060705 - LG ELECTRONICS INC [KR]
- [X] EP 1703230 A2 20060920 - LG ELECTRONICS INC [KR]
- [X] EP 1806549 A1 20070711 - SAMSUNG ELECTRONICS CO LTD [KR]
- [XD] JP 2009210139 A 20090917 - MITSUBISHI HEAVY IND LTD
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Cited by
CN113531773A; EP3156743A1; EP2339268A3; CN106931547A; EP3315880A4; EP3001122A1; US10852042B2

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 2426438 A2 20120307; **EP 2426438 A3 20140730**; **EP 2426438 B1 20190710**; JP 2012047409 A 20120308; JP 5901107 B2 20160406

DOCDB simple family (application)
EP 11178952 A 20110826; JP 2010190396 A 20100827