

Title (en)  
AIR CONDITIONER

Title (de)  
KLIMAANLAGE

Title (fr)  
CLIMATISEUR

Publication  
**EP 1816416 A4 20110803 (EN)**

Application  
**EP 05805432 A 20051101**

Priority  
• JP 2005020109 W 20051101  
• JP 2004340889 A 20041125

Abstract (en)  
[origin: EP1816416A1] One of the aspects of the present invention is to provide an air conditioner including an outdoor unit, a plurality of indoor units, and a relay device for connection between the outdoor unit and each of the indoor units. The outdoor unit includes an outdoor heat exchanger, a compressor for pressurizing a refrigerant of carbon dioxide or a composite having main ingredient of carbon dioxide, and a first switching member for switching a flow direction of the refrigerant through the outdoor heat exchanger, which are in fluid communication between first and second connection ends. Each of the indoor units includes an indoor heat exchanger and a first flow controller which are in fluid communication between first and second pipe connection ports. The relay device includes a plurality of second switching members, each of which the second switching members selectively connects the first pipe connection port of the respective indoor unit with the first or second connection end of the outdoor unit. The relay device also includes a first bypass pipe for connection between the second connection end of the outdoor unit and each of the second pipe connection ports of the indoor units, and a second flow controller intervening in the first bypass pipe.

IPC 8 full level  
**F25B 29/00** (2006.01); **F25B 1/00** (2006.01); **F25B 13/00** (2006.01)

CPC (source: EP US)  
**F25B 9/008** (2013.01 - EP US); **F25B 13/00** (2013.01 - EP US); **F25B 2309/061** (2013.01 - EP US); **F25B 2313/006** (2013.01 - EP US); **F25B 2313/0231** (2013.01 - EP US); **F25B 2313/0233** (2013.01 - EP US); **F25B 2313/0272** (2013.01 - EP US); **F25B 2313/02741** (2013.01 - EP US); **F25B 2400/04** (2013.01 - EP US); **F25B 2400/23** (2013.01 - EP US)

Citation (search report)  
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• See references of WO 2006057141A1

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Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**EP 1816416 A1 20070808**; **EP 1816416 A4 20110803**; **EP 1816416 B1 20190619**; CN 101065623 A 20071031; CN 101065623 B 20130522; JP 4752765 B2 20110817; JP WO2006057141 A1 20080605; US 2009145151 A1 20090611; WO 2006057141 A1 20060601

DOCDB simple family (application)  
**EP 05805432 A 20051101**; CN 200580040494 A 20051101; JP 2005020109 W 20051101; JP 2006547695 A 20051101; US 71977505 A 20051101