

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 1998124 A4 20161102 (EN)

Application
EP 07738077 A 20070308

Priority
• JP 2007054587 W 20070308
• JP 2006065932 A 20060310

Abstract (en)
[origin: EP1998124A1] An object of the present invention is to control a high pressure gas pipe so as to reduce the pressure to a low level in order to prevent accumulation of liquid refrigerant in the high pressure gas pipe resulting from condensation. An air conditioner (1) is an air conditioner that performs a refrigerant quantity judging operation to judge the refrigerant quantity in a refrigerant circuit (10), and includes a heat source unit (2) , utilization units (3a to 3c), expansion mechanisms (V2, V9a to V9c), a first refrigerant gas pipe (52), a second refrigerant gas pipe (53), a refrigerant liquid pipe (51), switching mechanisms (4a to 4c), bypass circuits (27, 43a to 43c), bypass circuit opening/closing means (V3, V13a to V13c), and a controller (8). The switching mechanism can switch between a first state and a second state. The bypass circuit opening/closing means are provided in the bypass circuits that bypass the first refrigerant gas pipe to the second refrigerant gas pipe, and open and close the bypass circuits. The controller opens the bypass circuit opening/closing means before performing the refrigerant quantity judging operation.

IPC 8 full level
F25B 49/02 (2006.01); **F25B 13/00** (2006.01); **F25B 49/00** (2006.01)

CPC (source: EP KR US)
F25B 13/00 (2013.01 - EP US); **F25B 15/00** (2013.01 - KR); **F25B 49/005** (2013.01 - EP US); **F25B 2313/02741** (2013.01 - EP US); **F25B 2400/04** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US); **F25B 2500/19** (2013.01 - EP US); **F25B 2600/21** (2013.01 - EP US); **F25B 2700/04** (2013.01 - EP US)

Citation (search report)
• [Y] JP 2006058007 A 20060302 - DAIKIN IND LTD
• [Y] JP H0363468 A 19910319 - DAIKIN IND LTD
• [A] JP H05288438 A 19931102 - DAIKIN IND LTD
• See references of WO 2007105604A1

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1998124 A1 20081203; EP 1998124 A4 20161102; EP 1998124 B1 20171004; AU 2007225803 A1 20070920; AU 2007225803 B2 20091224; CN 101395436 A 20090325; CN 101395436 B 20120829; ES 2646190 T3 20171212; JP 2007240108 A 20070920; JP 3963192 B1 20070822; KR 100960539 B1 20100603; KR 20080097475 A 20081105; US 2009031739 A1 20090205; WO 2007105604 A1 20070920

DOCDB simple family (application)
EP 07738077 A 20070308; AU 2007225803 A 20070308; CN 200780008011 A 20070308; ES 07738077 T 20070308; JP 2006065932 A 20060310; JP 2007054587 W 20070308; KR 20087023156 A 20070308; US 28106407 A 20070308