

Title (en)  
Air conditioner

Title (de)  
Klimaanlage

Title (fr)  
Climatiseur

Publication  
**EP 2236957 B1 20180711 (EN)**

Application  
**EP 10001735 A 20100219**

Priority  
JP 2009086331 A 20090331

Abstract (en)  
[origin: EP2236957A2] An air conditioner which prevents high or low pressure gas bypass loss in the case of using a four-way valve (16a) for switching high or low pressure of a heat exchanger (14a) and a high or low pressure gas pipe (34) is provided. The air conditioner includes an indoor (40a, 40b, 40c) having an indoor heat exchanger (41a, 41b, 41c) and an outdoor (10a) having a compressor (11a) and an outdoor heat exchanger (14a), the indoor (40a, 40b, 40c) and the outdoor (10a) being connected by a high or low pressure gas pipe (34) and a liquid pipe (30) for passing a refrigerant, the outdoor (10a) including a heat exchanger four-way valve (16a) which connects the outdoor heat exchanger (14a) to any one of a compressor discharge side and intake side, and a high or low pressure gas pipe four-way valve (13a) which connects the high or low pressure gas pipe to any one of a compressor discharge side and intake side, wherein the outdoor (10a) further includes a first capillary tube (61a) connecting a dead port of the high or low pressure gas pipe four-way valve and the heat exchanger, and a second capillary tube (62a) connecting a dead port of the heat exchanger four-way valve and the high or low pressure gas pipe.

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

CPC (source: EP US)  
**F25B 13/00** (2013.01 - EP US); **F25B 2313/005** (2013.01 - EP); **F25B 2313/007** (2013.01 - EP); **F25B 2313/0231** (2013.01 - EP); **F25B 2313/02742** (2013.01 - EP)

Cited by  
CN112833514A; EP3156743A1; US2016238290A1; US10082323B2; US10132530B2; EP3101369A4; EP3441697A1; EP3879204A1; EP4040072A1

Designated contracting state (EPC)  
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 SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2236957 A2 20101006**; **EP 2236957 A3 20151223**; **EP 2236957 B1 20180711**; CN 101852508 A 20101006; CN 101852508 B 20130605; JP 2010236811 A 20101021; JP 4751940 B2 20110817

DOCDB simple family (application)  
**EP 10001735 A 20100219**; CN 201010115992 A 20100209; JP 2009086331 A 20090331