

Title (en)
Air conditioning system

Title (de)
Klimaanlage

Title (fr)
Système de conditionnement d'air

Publication
EP 1801520 B1 20091111 (EN)

Application
EP 06256498 A 20061221

Priority
JP 2005371785 A 20051226

Abstract (en)
[origin: EP1801520A1] An air conditioner (1) in which a cooling cycle is formed by arranging an outdoor unit (2) provided with an accumulator (7), a compressor (8), a four-way valve (6), an outdoor heat exchanger (9) and an outdoor expansion valve (10), and an indoor unit (3) provided with a first indoor heat exchanger (15), a check valve (16), an indoor expansion valve (17), a second indoor heat exchanger (18) and an indoor electromagnetic valve (20) formed in a piping (19) bypassing the first indoor heat exchanger (15) and the check valve (16), in a piping circulating a refrigerant, the air conditioner is provided with a control means for lowering a temperature of the refrigerant on a discharge side of the compressor (8) at a set temperature on the basis of a signal generated by closing of the indoor electromagnetic valve (20), at a time of a reheat dehumidification operation. Further, the air conditioner is provided with a control means for controlling an opening degree of the indoor expansion valve (17) at a time of the reheat dehumidification operation, and controlling an opening degree of the outdoor expansion valve (10), at a time of a cooling operation.

IPC 8 full level
F24F 3/153 (2006.01); **F25B 13/00** (2006.01)

CPC (source: EP US)
F24F 3/153 (2013.01 - EP); **F24F 11/52** (2017.12 - EP US); **F25B 13/00** (2013.01 - EP); **F24F 11/30** (2017.12 - EP); **F24F 2003/144** (2013.01 - EP); **F24F 2110/20** (2017.12 - EP); **F25B 2313/02321** (2013.01 - EP); **F25B 2313/02343** (2013.01 - EP); **F25B 2313/02741** (2013.01 - EP); **F25B 2313/0314** (2013.01 - EP); **F25B 2600/2513** (2013.01 - EP); **F25B 2700/02** (2013.01 - EP); **F25B 2700/1931** (2013.01 - EP); **F25B 2700/2104** (2013.01 - EP); **F25B 2700/21152** (2013.01 - EP)

Cited by
US2017314813A1; GB2537105A; EP2881685A4; US10345003B2; EP3879209A1; NL2025130B1; US9933170B2; US9718612B2; WO2016025498A3

Designated contracting state (EPC)
DE ES FR GB

DOCDB simple family (publication)
EP 1801520 A1 20070627; **EP 1801520 B1 20091111**; CN 1991276 A 20070704; CN 1991276 B 20100908; DE 602006010312 D1 20091224; ES 2335302 T3 20100324; JP 2007170769 A 20070705; JP 4730738 B2 20110720

DOCDB simple family (application)
EP 06256498 A 20061221; CN 200610172502 A 20061226; DE 602006010312 T 20061221; ES 06256498 T 20061221; JP 2005371785 A 20051226