

Title (en)  
Air conditioner

Title (de)  
Klimaanlage

Title (fr)  
Dispositif de climatisation

Publication  
**EP 1717522 B1 20110126 (EN)**

Application  
**EP 05009355 A 20050428**

Priority  
EP 05009355 A 20050428

Abstract (en)  
[origin: EP1717522A1] An air conditioner 100 comprising an outdoor unit 1 having a compressor 11, a direct expansion type indoor unit including indoor heat exchangers 30a, 30b for directly heat-exchanging refrigerant discharged from the compressor 11 with indoor air through liquid pipes 5a, 5b and a gas pipe 5c, a chiller unit 2 for heat-exchanging the refrigerant with water to generate cold water or hot water, and fan coil units 4a, 4b having water heat exchangers 40a, 40b for circulating the cold water or hot water generated in the chiller unit 2 by driving a circulating pump 6 and heat-exchanging the cold water or hot water with indoor air. When the air conditioner falls into an out-of-gas state, the circulating pump 6 is driven, and a motor-driven expansion valve 21 is opened to avoid the out-of-gas state and also prevent freezing of the cold/hot water.

IPC 8 full level  
**F24F 3/06** (2006.01); **F25B 13/00** (2006.01); **F25B 25/00** (2006.01)

CPC (source: EP)  
**F24F 3/06** (2013.01)

Citation (examination)

- WO 8600976 A1 19860213 - UHR CORP [US]
- EP 0775875 B1 20010523 - GOESSI HANS [CH]
- DE 3635425 A1 19870423 - MITSUBISHI ELECTRIC CORP [JP]
- US 4754614 A 19880705 - YUYAMA HIROSHI [JP]

Cited by  
RU2509265C2; EP1959204A1; RU2509960C2; WO2013007031A1; WO2016094949A1

Designated contracting state (EPC)  
BE DE ES FR NL

DOCDB simple family (publication)  
**EP 1717522 A1 20061102; EP 1717522 B1 20110126**; DE 602005026103 D1 20110310

DOCDB simple family (application)  
**EP 05009355 A 20050428**; DE 602005026103 T 20050428