

Title (en)

Air conditioner and refrigerant control method thereof

Title (de)

Klimaanlage und Kältemittelregulierungsverfahren dafür

Title (fr)

Climatiseur et procédé de contrôle réfrigérant correspondant

Publication

EP 1804010 A3 20090527 (EN)

Application

EP 06127265 A 20061228

Priority

KR 20050134477 A 20051229

Abstract (en)

[origin: EP1804010A2] Disclosed are an air conditioner and a refrigerant control method thereof. An air conditioner according to an embodiment of the invention an outdoor unit including a compressor, an outdoor heat exchanger, and a four-way valve that switches a flow passage of refrigerant, an indoor unit including an indoor heat exchanger, an indoor expansion unit disposed at a refrigerant inlet side of the indoor heat exchanger and allowing the refrigerant to be expanded during the cooling operation, an outdoor expansion unit disposed at a refrigerant inlet side of the outdoor heat exchanger and allowing the refrigerant to be expanded during the heating operation, and a control unit controlling the indoor expansion unit and the outdoor expansion unit such that the refrigerant is expanded in the indoor expansion unit during the cooling operation and the refrigerant is expanded in the outdoor expansion unit during the heating operation. Therefore, the distance between the evaporator and the expansion unit is reduced to thereby raise operating efficiency.

IPC 8 full level

F25B 13/00 (2006.01)

CPC (source: EP KR US)

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Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1804010 A2 20070704; **EP 1804010 A3 20090527**; CA 2572624 A1 20070629; JP 2007183091 A 20070719; KR 100757442 B1 20070911; KR 20070071213 A 20070704; US 2007151268 A1 20070705

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