

Title (en)
Air conditioner

Title (de)
Klimaanlage

Title (fr)
Conditionneur d'air

Publication
EP 1655553 B1 20200617 (EN)

Application
EP 05102202 A 20050318

Priority
KR 20040083247 A 20041018

Abstract (en)
[origin: EP1655553A2] An air conditioner and a method for controlling the same, in which the quantity of a refrigerant supplied to indoor heat exchangers (evaporators) is controlled according to the opening degrees of indoor electric expansion valves and super heating temperatures of the indoor heat exchangers (evaporators), thereby increasing cooling efficiency of the air conditioner. The method includes operating a compressor to compress the refrigerant, supplying the compressed refrigerant, condensed by an outdoor heat exchanger, to indoor units through an outdoor expansion valve, and controlling an opening degree of the outdoor expansion valve according to opening degrees of indoor expansion valves of the indoor units, performing cooling operation, and super heating temperatures of the indoor units to control the quantity of the refrigerant supplied to the indoor units.

IPC 8 full level
F25B 13/00 (2006.01)

CPC (source: EP KR)
F24F 11/89 (2017.12 - KR); **F25B 13/00** (2013.01 - EP); **F25B 41/34** (2021.01 - KR); **F25B 49/00** (2013.01 - KR); **F25B 2313/005** (2013.01 - EP); **F25B 2313/007** (2013.01 - EP); **F25B 2313/0231** (2013.01 - EP); **F25B 2600/2513** (2013.01 - EP)

Cited by
CN102313341A; EP3450881A1; EP2602573A4; EP2833086A4; EP2144018A4; US8966919B2; US10712055B2; JP2019163907A

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1655553 A2 20060510; EP 1655553 A3 20131106; EP 1655553 B1 20200617; CN 100501257 C 20090617; CN 1763451 A 20060426; KR 20060034109 A 20060421

DOCDB simple family (application)
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