

Title (en)
Air conditioner and control method thereof

Title (de)
Klimaanlage und Steuerverfahren dafür

Title (fr)
Climatiseur et son procédé de fonctionnement

Publication
EP 2487428 A1 20120815 (EN)

Application
EP 12167470 A 20040927

Priority
• EP 04788170 A 20040927
• JP 2003371919 A 20031031
• JP 2003371920 A 20031031

Abstract (en)
The present invention provides an air conditioner and a method for controlling an air conditioner whereby the direction in which conditioned air is discharged during powerful operation can be controlled. The air conditioner (1) is provided with a control unit (60). The control unit (60) is connected to a compressor (21), a four-way switching valve (22), a pressure-reducing device (25), ROM (41), RAM (42), a fan motor (13), a flap motor (146), a temperature sensor (43), and an infrared sensor (44). The control unit (60) controls the compressor (21), four-way switching valve (22), pressure-reducing device (25), fan motor (13), and flap motor (146). When a command for powerful operation is entered from the remote control (40), the control unit (60) temporarily increases the rotational speed of the cross-flow fan (12), the operating frequency of the compressor (21), and the like, enhances the air conditioning capacity, and controls the direction of the horizontal flap (144) so that air is discharged in the direction in which people are not present during said powerful operation.

IPC 8 full level
F24F 1/00 (2011.01); **F24F 11/00** (2006.01); **F24F 11/02** (2006.01)

CPC (source: EP KR US)
F24F 1/0011 (2013.01 - EP KR US); **F24F 1/0057** (2019.01 - EP KR US); **F24F 11/30** (2017.12 - EP US); **F24F 11/56** (2017.12 - KR); **F24F 11/62** (2017.12 - EP KR US); **F24F 11/77** (2017.12 - EP KR US); **F24F 11/79** (2017.12 - EP KR US); **F24F 11/84** (2017.12 - EP KR US); **F24F 11/86** (2017.12 - EP KR US); **F24F 11/56** (2017.12 - EP US); **F24F 2120/10** (2017.12 - EP KR US); **F24F 2120/12** (2017.12 - EP KR US)

Citation (applicant)
JP H07103551 A 19950418 - MITSUBISHI ELECTRIC CORP

Citation (search report)
• [X] GB 2260830 A 19930428 - NORM PACIFIC AUTOMAT CORP [TW]
• [X] JP S63143449 A 19880615 - DAIKIN IND LTD
• [X] JP S61122443 A 19860610 - MATSUSHITA ELECTRIC IND CO LTD
• [X] JP H02143047 A 19900601 - DAIKIN IND LTD
• [X] JP S6479532 A 19890324 - MATSUSHITA REFRIGERATION
• [X] JP S57179528 A 19821105 - MATSUSHITA ELECTRIC IND CO LTD
• [X] JP H01127840 A 19890519 - DAIKIN IND LTD

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1696185 A1 20060830; **EP 1696185 A4 20090610**; **EP 1696185 B1 20170719**; AU 2004286118 A1 20050512; AU 2004286118 B2 20071004; CN 101825328 A 20100908; CN 101825328 B 20120704; EP 2487428 A1 20120815; EP 2487428 B1 20140101; ES 2453482 T3 20140407; KR 20060076324 A 20060704; US 2006286923 A1 20061221; WO 2005043047 A1 20050512

DOCDB simple family (application)
EP 04788170 A 20040927; AU 2004286118 A 20040927; CN 201010145646 A 20040927; EP 12167470 A 20040927; ES 12167470 T 20040927; JP 2004014074 W 20040927; KR 20067008457 A 20060501; US 57358606 A 20060327