

Title (en)

Air conditioner having horizontal flap and method for preventing occurrence of dew condensation on horizontal flap

Title (de)

Klimaanlage mit horizontaler Klappe und Verfahren zum Verhindern des Auftretens von Betauung auf der horizontalen Klappe

Title (fr)

Climatiseur d'air doté d'un rabat horizontal et procédé pour éviter la survenue de condensation de rosée sur le rabat horizontal

Publication

**EP 2410252 A1 20120125 (EN)**

Application

**EP 11174810 A 20110721**

Priority

JP 2010166375 A 20100723

Abstract (en)

An air conditioner including an indoor unit including a horizontal flap for vertically adjusting a blowing angle at which air blown out from an air blowing fan is blown out from a blow-out port to a room to be air-conditioned, and a controller for controlling a tilt angle of the horizontal flap in a vertical direction with respect to a horizontal position, wherein the controller changes the tilt angle of the horizontal flap to a tilt angle at which airflow resistance to the air blown out from the air blowing fan is reduced when the tilt angle of the horizontal flap is set to a tilt angle at which the airflow resistance to the air blown out from the air blowing fan is large, the rotational number of the air blowing fan is set to a low value, and a continuing time of cooling operation reaches a predetermined time.

IPC 8 full level

**F24F 1/00** (2011.01); **F24F 11/00** (2006.01)

CPC (source: EP KR)

**F24F 1/0011** (2013.01 - EP KR); **F24F 1/0057** (2019.01 - EP KR); **F24F 11/56** (2017.12 - KR); **F24F 11/79** (2017.12 - EP KR); **F24F 13/14** (2013.01 - KR); **F24F 13/22** (2013.01 - KR); **F24F 2013/221** (2013.01 - EP KR)

Citation (applicant)

JP H10253136 A 19980925 - DAIKIN IND LTD

Citation (search report)

- [X] US 5385031 A 19950131 - KIZAWA YOSHIHIRO [JP], et al
- [X] US 2007190926 A1 20070816 - LU SHENG CHANG [TW], et al
- [X] JP H07180895 A 19950718 - SHARP KK
- [A] JP 2008232470 A 20081002 - MITSUBISHI ELECTRIC CORP
- [A] JP H1137537 A 19990212 - MITSUBISHI ELECTRIC CORP
- [A] EP 1050720 A2 20001108 - MITSUBISHI ELECTRIC CORP [JP]

Cited by

CN113639426A; CN105020848A; CN115628539A; WO2020034918A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

**EP 11174810 A 20110721**; CN 201110207743 A 20110725; JP 2010166375 A 20100723; KR 20110039588 A 20110427