

Title (en)

Indoor unit of an air conditioner with moving front panels to suck air from a front and discharge air vertically

Title (de)

Inneneinheit einer Klimaanlage mit beweglicher Frontabdeckung zur Luftansaugung von der Vorderseite und vertikaler Fortluft

Title (fr)

Climatiseur avec couverture volante pour aspiration d'air frontale et sortie d'air verticale

Publication

EP 1953461 A1 20080806 (EN)

Application

EP 07252751 A 20070710

Priority

- KR 20070008395 A 20070126
- KR 20070008806 A 20070129
- KR 20070009917 A 20070131

Abstract (en)

An air conditioner is disclosed. The present invention is suitable for performing efficient heat exchange of indoor air in a manner that a front panel covering a whole front side of a front frame by moving back and forth opens/closes a plurality of inlets passages, blowing the heat-exchanged air upward and downward by reducing passage resistance, and providing an elegant exterior of the air conditioner. The present invention includes an inlet passage opened/closed by a plurality of moving front panels to suck an air from a front, the inlet passage diverging to a space between a plurality of the front panels, a heat-exchange passage provided within a case having a heat exchanger and a blowing fan therein to perform heat exchange on the air introduced via the inlet passage, and an outlet passage blowing the heat-exchanged air in an upper and/or lower direction.

IPC 8 full level

F24F 1/00 (2006.01)

CPC (source: EP)

F24F 1/0011 (2013.01); **F24F 1/0014** (2013.01); **F24F 1/0033** (2013.01); **F24F 1/0057** (2019.01); **F24F 13/20** (2013.01)

Citation (applicant)

- JP H11118176 B
- KR 20020096416 A 20021231 - LG ELECTRONICS INC [KR]
- JP 2006250404 A 20060921 - MITSUBISHI HEAVY IND LTD

Citation (search report)

- [XY] JP H11118176 A 19990430 - FUJITSU GENERAL LTD
- [X] KR 20020096416 A 20021231 - LG ELECTRONICS INC [KR]
- [Y] JP 2006250404 A 20060921 - MITSUBISHI HEAVY IND LTD
- [Y] JP 2005069544 A 20050317 - DAIKIN IND LTD
- [A] WO 2006019208 A2 20060223 - LG ELECTRONICS INC [KR], et al
- [A] US 2005284168 A1 20051229 - LEE SANG H [KR], et al
- [A] WO 02103251 A2 20021227 - LG ELECTRONICS INC [KR], et al
- [A] JP H07198160 A 19950801 - SANYO ELECTRIC CO
- [A] JP 2003314849 A 20031106 - FUJITSU GENERAL LTD
- [A] JP H06272889 A 19940927 - HITACHI LTD
- [A] JP H1183065 A 19990326 - FUNAI ELECTRIC CO

Cited by

CN107917467A; IT201800010686A1; EP2584274A3; EP3742065A4; EP2148145A1; ITMI20110728A1; JP2019015456A; EP3168546A4; EP3078917A4; JPWO2017033258A1; AU2015407138B2; RU2683342C1; WO2020110085A1; US10634384B2; JP2011149617A

Designated contracting state (EPC)

ES FR IT

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1953461 A1 20080806

DOCDB simple family (application)

EP 07252751 A 20070710