

Title (en)
Indoor unit of air-conditioner

Title (de)
Innenraumeinheit einer Klimaanlage

Title (fr)
Unité d'intérieur pour climatiseur

Publication
EP 2775226 A3 20170705 (EN)

Application
EP 14154394 A 20140207

Priority
JP 2013043590 A 20130306

Abstract (en)
[origin: EP2775226A2] Occurrence of dew condensation on a design surface side of a louver (7) is inhibited even when an outlet air flow (12c) is blown in a substantially horizontal direction. An indoor unit (1) of an air-conditioner is provided with a casing (10), a decorative air panel (1b) provided on a bottom surface of the casing (10), a blower (8) and a heat exchanger (3) provided within the casing (10), an air inlet (2) for drawing an indoor air flow into the casing (10), an air outlet (4) for blowing an air flow into a room, and a louver (7) provided on the air outlet (4) for adjusting a wind direction of the outlet air flow (12c). The louver (7) having a cross-sectional shape formed of circular arcs (30, 31) with two or more curvature radii (R1, R2) is formed such that louver shape B/A is in a range of "B/A = 2 to 4" when an angle (A) between a tangent (32) at a louver tip end (7a) of the circular arc (30) forming a front side portion of the louver (7) and a level line (34) is set to A and an angle (B) between a tangent (33) at a louver rear end (7b) of the circular arc (31) forming a rear side portion of the louver (7) and the level line (34) is set to B in a fully-closed state of the louver (7).

IPC 8 full level
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CPC (source: EP)
F24F 1/0011 (2013.01); **F24F 1/0047** (2019.01); **F24F 13/222** (2013.01)

Citation (search report)

- [I] JP 2008101868 A 20080501 - SAMSUNG ELECTRONICS CO LTD
- [A] JP 2011064399 A 20110331 - PANASONIC CORP
- [A] JP 2003294303 A 20031015 - MITSUBISHI HEAVY IND LTD
- [A] JP 2004011955 A 20040115 - HITACHI LTD

Cited by
CN112577120A; EP3779316A4; US11898762B2; WO2020149698A1

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

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EP 2775226 A2 20140910; EP 2775226 A3 20170705; EP 2775226 B1 20180509; JP 2014173738 A 20140922; JP 5891190 B2 20160322

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EP 14154394 A 20140207; JP 2013043590 A 20130306