

Title (en)
AIR CONDITIONER INDOOR UNIT

Title (de)
KLIMAANLAGENINNENRAUMEINHEIT

Title (fr)
UNITÉ INTÉRIEURE DE CLIMATISEUR

Publication
EP 3550218 A4 20191009 (EN)

Application
EP 16904842 A 20161130

Priority
JP 2016085472 W 20161130

Abstract (en)
[origin: EP3550218A1] An indoor unit for an air-conditioning apparatus includes: a protruding piece protruding horizontally from a decorative panel toward an opening of an indoor-unit main body; an engagement member, which is provided on a back surface of a suction panel at a position of being opposed to the protruding piece to be slidable with respect to the protruding piece in a front-and-back direction of the indoor unit, and is configured to be guided by the protruding piece of the decorative panel to be locked to the protruding piece; plate springs, which are provided at both ends of the engagement member which are orthogonal to a sliding direction of the engagement member, and extend in directions opposite to each other to be orthogonal to the sliding direction; and at least two spring support portions, which are formed on the suction panel, and are configured to sandwich both end surfaces of each of the plate springs at different positions, in which, when the engagement member slides in a retreating direction of the engagement member by the protruding piece, the each of the plate springs urges the engagement member toward the protruding piece with the at least two spring support portions as supporting points.

IPC 8 full level
F24F 13/20 (2006.01); **F24F 1/00** (2019.01); **F24F 13/08** (2006.01)

CPC (source: EP US)
F24F 1/0007 (2013.01 - EP); **F24F 1/0047** (2019.01 - EP US); **F24F 13/084** (2013.01 - EP US); **F24F 13/20** (2013.01 - EP US);
F24F 1/0007 (2013.01 - US)

Citation (search report)

- [XDAY] JP 2009299999 A 20091224 - SANYO ELECTRIC CO
- [Y] JP 2008064342 A 20080321 - FUJITSU GENERAL LTD
- [Y] JP H09280595 A 19971031 - SANYO ELECTRIC CO
- [A] KR 101600701 B1 20160307 - WINIX INC [KR]
- [A] JP H0626711 U 19940412
- [A] JP 2008096030 A 20080424 - SANYO ELECTRIC CO
- See references of WO 2018100654A1

Cited by
EP3674623A4; EP4174397A1; FR3128516A1; US11614240B2

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)
EP 3550218 A1 20191009; EP 3550218 A4 20191009; EP 3550218 B1 20200916; CN 208750980 U 20190416; JP 6735847 B2 20200805;
JP WO2018100654 A1 20190624; US 2020049371 A1 20200213; WO 2018100654 A1 20180607

DOCDB simple family (application)
EP 16904842 A 20161130; CN 201690001030 U 20161130; JP 2016085472 W 20161130; JP 2018553557 A 20161130;
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