

Title (en)
Indoor unit of air-conditioning apparatus and air-conditioning apparatus

Title (de)
Inneneinheit einer Klimaanlagevorrichtung sowie Klimaanlagevorrichtung

Title (fr)
Unité intérieure d'appareil de climatisation d'air et appareil de climatisation d'air

Publication
EP 2416075 A3 20170920 (EN)

Application
EP 11176225 A 20110802

Priority
JP 2010175257 A 20100804

Abstract (en)
[origin: EP2416075A2] An indoor unit (100) includes a casing (1) having a suction port (2) formed on an upper portion and a blow-out port (3) on a lower side of a front surface portion, an axial-flow or mixed-flow fan (20) provided on the downstream side of the suction port (2) in the casing (1), and a heat exchanger (50) provided in the casing (1) at a position on the downstream side of the fan (20) and on the upstream side of the blow-out port (3). The heat exchanger (50) includes a plurality of fins (56) arranged side by side with predetermined gaps therebetween and a plurality of heat-transfer tubes (57) penetrating through the plurality of fins (56). The heat exchanger is configured in such a manner that the air-flow resistance of an area facing the outer peripheral side of the fan (20) is larger than the air-flow resistance of an area facing a center portion of the fan (20).

IPC 8 full level
F24F 1/0067 (2019.01)

CPC (source: EP US)
F24F 1/0029 (2013.01 - EP US); **F24F 1/0033** (2013.01 - EP US); **F24F 1/0067** (2019.01 - EP US)

Citation (search report)

- [X] DE 20216099 U1 20040304 - REICHEL TIMMER INGBUERO GMBH [DE]
- [XA] US 3058722 A 19621016 - RICH HERSHEL M
- [A] JP S5351644 A 19780511 - MATSUSHITA ELECTRIC IND CO LTD
- [A] EP 0469563 A2 19920205 - DAIKIN IND LTD [JP]

Cited by
EP3315869A4

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 2416075 A2 20120208; EP 2416075 A3 20170920; CN 102374588 A 20120314; JP 2012037085 A 20120223; JP 5409544 B2 20140205; US 2012031139 A1 20120209

DOCDB simple family (application)
EP 11176225 A 20110802; CN 201110221649 A 20110804; JP 2010175257 A 20100804; US 201113196998 A 20110803