

Title (en)
INDOOR UNIT FOR AIR CONDITIONER, AND AIR CONDITIONER

Title (de)
INNENRAUMEINHEIT FÜR KLIMAANLAGE UND KLIMAANLAGE

Title (fr)
UNITÉ INTÉRIEURE POUR CLIMATISEUR, ET CLIMATISEUR

Publication
EP 3540318 A4 20191113 (EN)

Application
EP 16920971 A 20161109

Priority
JP 2016083168 W 20161109

Abstract (en)
[origin: EP3540318A1] An indoor unit for an air-conditioning unit that can prevent dew condensation on an air-flow-direction control plate in a vicinity of a heat exchanger, and includes a casing, an air inlet on the casing, an air outlet opening in a bottom surface of the casing, a heat exchanger in an air passage extending from the air inlet to the air outlet, a fan on a windward side of the heat exchanger in the air passage, and an air-flow-direction control plate in the air passage between the heat exchanger and the air outlet. The heat exchanger includes a plurality of heat exchanger blocks arranged in a front-and-rear direction of the casing, and includes a refrigerant inlet through which refrigerant flows into the heat exchanger, and a refrigerant outlet through which the refrigerant flows out of the heat exchanger. The air-flow-direction control plate is provided in the vicinity of one of the heat exchanger blocks, the refrigerant outlet is provided in a heat exchanger block other than the heat exchanger block provided in the vicinity of the air-flow-direction control plate, and the number of refrigerant outlets is larger than the number of refrigerant inlets.

IPC 8 full level
F24F 1/00 (2019.01); **F24F 1/0014** (2019.01); **F24F 1/0063** (2019.01); **F24F 1/0067** (2019.01); **F24F 1/02** (2019.01); **F24F 13/08** (2006.01); **F24F 13/30** (2006.01)

CPC (source: EP US)
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Citation (search report)

- [X] JP 5803898 B2 20151104
- [I] EP 2568226 A2 20130313 - MITSUBISHI ELECTRIC CORP [JP]
- [I] KR 20070053549 A 20070525 - LG ELECTRONICS INC [KR]
- [I] JP 3045159 B2 20000529
- See references of WO 2018087822A1

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 3540318 A1 20190918; EP 3540318 A4 20191113; EP 3540318 B1 20221109; CN 109923348 A 20190621; CN 109923348 B 20210312; JP 6745898 B2 20200826; JP WO2018087822 A1 20190624; US 2019257532 A1 20190822; WO 2018087822 A1 20180517

DOCDB simple family (application)
EP 16920971 A 20161109; CN 201680090592 A 20161109; JP 2016083168 W 20161109; JP 2018549666 A 20161109; US 201616324815 A 20161109