

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

Title (de)
AUSSENEINHEIT UND INNENEINHEIT FÜR KLIMAAANLAGE

Title (fr)
UNITÉ EXTÉRIEURE ET UNITÉ INTÉRIEURE POUR CLIMATISEUR

Publication
EP 3370000 A4 20190529 (EN)

Application
EP 16859333 A 20160411

Priority
• JP 2015212216 A 20151028
• JP 2016061662 W 20160411

Abstract (en)
[origin: EP3370000A1] Provided is an outdoor unit of an air-conditioning apparatus including a casing having an air inlet and an air outlet, and forming an outer shell, a fan provided inside the casing, and configured to suck outside air from the air inlet and exhaust the outside air from the air outlet, and a heat exchanger provided inside the casing, and configured to exchange heat between the outside air sucked by the fan and refrigerant, the heat exchanger including a first heat exchanger main body including a plurality of fins arranged in parallel at an interval and a plurality of flat pipes passing through the plurality of fins in a direction of parallel arrangement of the plurality of fins, the refrigerant flowing inside the plurality of flat pipes, and a second heat exchanger main body including a plurality of fins arranged in parallel at an interval and a plurality of circular pipes passing through the plurality of fins in a direction of parallel arrangement of the plurality of fins, the refrigerant flowing inside the plurality of circular pipes, in which the first heat exchanger main body is arranged closer to the fan than is the second heat exchanger main body.

IPC 8 full level
F24F 1/16 (2011.01); **F24F 1/18** (2011.01); **F24F 1/50** (2011.01); **F24F 11/83** (2018.01); **F24F 13/30** (2006.01); **F25B 39/02** (2006.01); **F25B 41/00** (2006.01); **F28D 1/053** (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP US)
F24F 1/16 (2013.01 - EP US); **F24F 1/18** (2013.01 - EP US); **F24F 1/50** (2013.01 - EP US); **F24F 11/83** (2017.12 - EP US); **F24F 13/30** (2013.01 - US); **F25B 39/02** (2013.01 - EP US); **F25B 41/00** (2013.01 - EP US); **F28D 1/053** (2013.01 - EP US); **F28F 9/26** (2013.01 - EP US); **F24F 1/0063** (2019.01 - EP US); **F24F 1/0067** (2019.01 - EP US)

Citation (search report)
• [XYI] EP 1837608 A1 20070926 - TOSHIBA CARRIER CORP [JP], et al
• [I] EP 2725306 A2 20140430 - SAMSUNG ELECTRONICS CO LTD [KR]
• [Y] JP 2012181013 A 20120920 - MITSUBISHI ELECTRIC CORP
• [Y] JP 2014137157 A 20140728 - MITSUBISHI ELECTRIC CORP
• [Y] EP 2889559 A1 20150701 - MITSUBISHI ELECTRIC CORP [JP]
• [Y] EP 2455689 A2 20120523 - LG ELECTRONICS INC [KR]
• [X] WO 2015097761 A1 20150702 - MITSUBISHI ELECTRIC CORP [JP]
• [IY] JP 2014142138 A 20140807 - TOSHIBA CORP, et al
• See references of WO 2017073096A1

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

DOCDB simple family (publication)
EP 3370000 A1 20180905; EP 3370000 A4 20190529; EP 3370000 B1 20220720; CN 108139089 A 20180608; CN 108139089 B 20210101; JP 6545277 B2 20190717; JP WO2017073096 A1 20180607; US 2018292096 A1 20181011; WO 2017073096 A1 20170504

DOCDB simple family (application)
EP 16859333 A 20160411; CN 201680061472 A 20160411; JP 2016061662 W 20160411; JP 2017547637 A 20160411; US 201615766243 A 20160411