

Title (en)
INDOOR UNIT AND AIR CONDITIONING DEVICE

Title (de)
INNENRAUMEINHEIT UND KLIMAANLAGENVORRICHTUNG

Title (fr)
UNITÉ INTÉRIEURE ET DISPOSITIF DE CLIMATISATION

Publication
EP 4310404 A4 20240410 (EN)

Application
EP 21931581 A 20210319

Priority
JP 2021011296 W 20210319

Abstract (en)
[origin: EP4310404A1] An indoor unit includes: a casing that has an air outlet and an air inlet, and inside which an air passage is formed; a cross flow fan disposed in the air passage and configured to blow out, through the air outlet, air sucked in from the air inlet; a stabilizer configured to stabilize vortex of air caused by circulation of air and generated inside the cross flow fan upon rotation thereof; and a guide wall having a surface defining an outlet side air passage being a part of the air passage, the part being in downstream of the cross flow fan, wherein the stabilizer has a first surface that defines a surface opposite to the guide wall in the outlet side air passage, and a part of the outlet side air passage is formed such that a distance in a vertical direction from the first surface to the guide wall gradually decreases toward the downstream.

IPC 8 full level
F24F 1/0011 (2019.01); **F24F 1/0025** (2019.01)

CPC (source: EP US)
F24F 1/0011 (2013.01 - EP); **F24F 1/0018** (2013.01 - US); **F24F 1/0025** (2013.01 - EP); **F24F 1/0047** (2019.02 - EP); **F24F 13/081** (2013.01 - EP); **F24F 1/0063** (2019.02 - EP)

Citation (search report)

- [XAI] WO 02075220 A1 20020926 - DWYER ROBERT CHARLES [GB]
- [A] US 2017227240 A1 20170810 - IKEDA TAKASHI [JP], et al
- [A] EP 1243864 A2 20020925 - MITSUBISHI HEAVY IND LTD [JP]
- [A] US 2019107298 A1 20190411 - KIM DO HOON [KR], et al
- See also references of WO 2022195834A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4310404 A1 20240124; **EP 4310404 A4 20240410**; CN 117043517 A 20231110; JP WO2022195834 A1 20220922; US 2024077214 A1 20240307; WO 2022195834 A1 20220922

DOCDB simple family (application)
EP 21931581 A 20210319; CN 202180095533 A 20210319; JP 2021011296 W 20210319; JP 2023506653 A 20210319; US 202118261724 A 20210319