

Title (en)
INDOOR UNIT AND AIR-CONDITIONING DEVICE

Title (de)
INNENEINHEIT UND KLIMAAANLAGE

Title (fr)
UNITÉ INTÉRIEURE ET DISPOSITIF DE CLIMATISATION

Publication
EP 4119863 A4 20230426 (EN)

Application
EP 20923935 A 20200313

Priority
JP 2020011236 W 20200313

Abstract (en)
[origin: EP4119863A1] An indoor unit (1) includes a housing (2), a centrifugal fan (3), a heat exchanger (4), and a partition plate (5). The centrifugal fan (3) is contained in the housing (2), has a rotational axis, and is configured to rotate about the rotational axis. The heat exchanger (4) is arranged to surround at least three quarters of an outer circumferential periphery of the centrifugal fan (3), and has a first end (41) located upstream in a rotational direction of the centrifugal fan (3), and a second end (42) located downstream in the rotational direction of the centrifugal fan (3) and spaced from the first end (41). The partition plate (5) has a protruding portion (51) protruding toward the centrifugal fan (3) from the first end (41) and the second end (42) of the heat exchanger (4). An apex (TP) of the protruding portion (51) of the partition plate (5) is located closer to the first end (41) than to the second end (42).

IPC 8 full level
F24F 13/24 (2006.01); **F24F 1/0007** (2019.01); **F24F 1/0022** (2019.01); **F24F 1/0047** (2019.01); **F24F 1/0063** (2019.01); **F24F 13/20** (2006.01)

CPC (source: EP)
F24F 1/0007 (2013.01); **F24F 1/0022** (2013.01); **F24F 1/0047** (2019.01); **F24F 1/0063** (2019.01); **F24F 13/20** (2013.01); **F24F 13/24** (2013.01)

Citation (search report)
• [X] JP H11201496 A 19990730 - DAIKIN IND LTD
• [X] EP 1548372 A1 20050629 - TOSHIBA CARRIER CORP [JP], et al
• [X] EP 3598020 A1 20200122 - TOSHIBA CARRIER CORP [JP]
• [I] JP H09133374 A 19970520 - MITSUBISHI ELECTRIC CORP
• See references of WO 2021181695A1

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

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KH MA MD TN

DOCDB simple family (publication)
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