

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** (2019.02); **F24F 1/0063** (2019.02); **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

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 4119863 A1 20230118; EP 4119863 A4 20230426; JP 7378574 B2 20231113; JP WO2021181695 A1 20210916; WO 2021181695 A1 20210916**

DOCDB simple family (application)  
**EP 20923935 A 20200313; JP 2020011236 W 20200313; JP 2022505720 A 20200313**