

Title (en)  
OUTDOOR UNIT

Title (de)  
AUSSENEINHEIT

Title (fr)  
UNITÉ EXTÉRIEURE

Publication  
EP 4421393 A1 20240828 (EN)

Application  
EP 23158238 A 20230223

Priority  
EP 23158238 A 20230223

Abstract (en)  
A sensor disposed in a lower portion of a case may get wet with water to have trouble. An outdoor unit 90 is an outdoor unit 90 of a heat pump cycle apparatus. The outdoor unit 90 includes a bottom frame 93, a plate-shaped member 94, a compressor 12, a first heat exchanger 16, a refrigerant circuit, and a refrigerant sensor 70. The plate-shaped member 94 is disposed above the bottom frame 93 to be spaced apart from the bottom frame 93. The compressor 12 is mounted on the plate-shaped member 94 to be supported by the bottom frame 93 with the plate-shaped member 94 being interposed therebetween. The compressor 12 compresses a refrigerant. The first heat exchanger 16 causes heat exchange between the refrigerant and air. The refrigerant circuit connects, by means of a pipe, the compressor 12 and the first heat exchanger 16. The refrigerant sensor 70 detects the refrigerant to find refrigerant leakage. The refrigerant sensor 70 is disposed on the plate-shaped member 94.

IPC 8 full level  
F24F 11/12 (2011.01); F24F 11/36 (2018.01)

CPC (source: EP)  
F24F 11/12 (2013.01); F24F 11/36 (2018.01)

Citation (applicant)  
JP 2020180770 A 20201105 - TOSHIBA CARRIER CORP

Citation (search report)  
• [Y] JP 5961928 B2 20160803  
• [Y] WO 2019188993 A1 20191003 - DAIKIN IND LTD [JP]  
• [A] WO 2015125763 A1 20150827 - DAIKIN IND LTD [JP]  
• [A] US 11339987 B2 20220524 - WATANABE KAZUKI [JP], et al

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
EP 4421393 A1 20240828; WO 2024175633 A1 20240829

DOCDB simple family (application)  
EP 23158238 A 20230223; EP 2024054368 W 20240221