

Title (en)
HEAT PUMP CYCLE DEVICE

Title (de)
WÄRMEPUMPENKREISLAUFVORRICHTUNG

Title (fr)
DISPOSITIF DE CYCLE DE POMPE À CHALEUR

Publication
EP 4279826 A1 20231122 (EN)

Application
EP 23171991 A 20230508

Priority
JP 2022080239 A 20220516

Abstract (en)
The present disclosure provides a heat pump cycle device with improved safety that maintains the airtightness of an electrical equipment box by disposing a cable outlet of the electrical equipment box on a mechanical chamber side, and prevents ignition even if a refrigerant leaks. A heat pump cycle device 1 includes: a compressor 22, a use side heat exchanger 23, expansion means 24, and a heat source side heat exchanger 20 stored inside a housing 10; a refrigerant circuit connecting these members annularly and using a flammable refrigerant; a blower device 21 for circulating air through the heat source side heat exchanger 20; and an electrical equipment box 30 configured to be airtight, wherein the electrical equipment box 30 is disposed across a mechanical chamber 13 and a blower chamber 12, and is provided with a cable 45 that electrically connects a control board in the electrical equipment box 30 and external equipment of the electrical equipment box 30, and an outlet 46 for the cable 45 is disposed on the mechanical chamber 13 side of the electrical equipment box 30.

IPC 8 full level
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CPC (source: EP)
F24F 1/22 (2013.01); **F24F 11/36** (2018.01); **F24F 11/89** (2018.01); **F24H 4/02** (2013.01)

Citation (applicant)
JP 2015055455 A 20150323 - MITSUBISHI ELECTRIC CORP

Citation (search report)
• [IY] CN 113915692 A 20220111 - NINGBO AUX ELECTRIC CO LTD, et al
• [Y] KR 20180007413 A 20180123 - WELLAS CO LTD [KR]
• [Y] KR 101389447 B1 20140530 - A1ENGINEERING [KR]

Designated contracting state (EPC)
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