

Title (en)
AIR CONDITIONER AND PACKAGING SET FOR AIR CONDITIONER

Title (de)
KLIMAAANLAGE UND VERPACKUNGSSET FÜR EINE KLIMAAANLAGE

Title (fr)
ENSEMBLE DE CLIMATISEUR ET D'EMBALLAGE POUR CLIMATISEUR

Publication
EP 3798527 A4 20210526 (EN)

Application
EP 18919943 A 20180521

Priority
JP 2018019456 W 20180521

Abstract (en)
[origin: EP3798527A1] In an air conditioner (100) according to an aspect of the present invention, flammable refrigerant circulates in order of a compressor (3), a first heat exchanger (1), an expansion valve (5), and a second heat exchanger (6). The compressor (3) stores refrigeration oil and discharges the refrigeration oil with the refrigerant. The refrigeration oil circulates with the refrigerant in order of the compressor (3), the first heat exchanger (1), the expansion valve (5), and the second heat exchanger (6). The first heat exchanger (1) is located in a first space. The second heat exchanger (6) is located in a second space. The air conditioner (100) includes a first sensor (s1), a second sensor (s2), and a controller (8). The first sensor (s1) detects the refrigerant in the first space. The second sensor (s2) detects an odor of the refrigeration oil in the first space. The controller (8) detects a leak of the refrigerant using a first detection signal from the first sensor (s1) and a second detection signal from the second sensor (s2).

IPC 8 full level
F24F 11/36 (2018.01); **B65D 85/68** (2006.01); **F25B 49/00** (2006.01); **F25B 49/02** (2006.01); **F24F 110/60** (2018.01)

CPC (source: CN EP)
B65D 85/68 (2013.01 - CN EP); **F24F 1/0063** (2019.02 - CN); **F24F 11/36** (2018.01 - CN EP); **F24F 11/64** (2018.01 - CN); **F25B 49/02** (2013.01 - CN); **F24F 2110/60** (2018.01 - EP); **F25B 13/00** (2013.01 - EP); **F25B 49/005** (2013.01 - EP); **F25B 2500/222** (2013.01 - CN EP)

Citation (search report)

- [YA] WO 2013038703 A1 20130321 - PANASONIC CORP [JP], et al
- [YA] JP 2006003079 A 20060105 - MITSUBISHI ELECTRIC CORP
- [YA] JP 2005016822 A 20050120 - TOSHIBA CARRIER KK
- [A] JP H11230648 A 19990827 - MATSUSHITA ELECTRIC IND CO LTD
- [A] JP 2010070206 A 20100402 - SHARP KK
- [A] EP 2213965 A1 20100804 - DAIKIN IND LTD [JP]
- See also references of WO 2019224865A1

Cited by
US11971183B2; US12117191B2

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

DOCDB simple family (publication)
EP 3798527 A1 20210331; EP 3798527 A4 20210526; CN 112154292 A 20201229; CN 112154292 B 20220621; CN 114777285 A 20220722; CN 114777285 B 20241029; EP 3961119 A1 20220302; EP 3961119 B1 20240131; ES 2973742 T3 20240624; JP 7009624 B2 20220210; JP WO2019224865 A1 20210318; WO 2019224865 A1 20191128

DOCDB simple family (application)
EP 18919943 A 20180521; CN 201880093339 A 20180521; CN 202210521435 A 20180521; EP 21203214 A 20180521; ES 21203214 T 20180521; JP 2018019456 W 20180521; JP 2020520865 A 20180521