

Title (en)
AIR-CONDITIONING DEVICE

Title (de)
KLIMATISIERUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE CLIMATISATION

Publication
EP 4160120 A4 20231108 (EN)

Application
EP 21813144 A 20210514

Priority
• JP 2020092271 A 20200527
• JP 2021018467 W 20210514

Abstract (en)
[origin: EP4160120A1] To provide an air-conditioning device that, among indoor units connected to the same refrigerant system, enables recognition of the state of another indoor unit and can prevent reduction of the comfort of users. When a refrigerant leakage sensor 40 detects refrigerant leakage of an indoor unit 20, a centralized controller 50 controls an opening/closing device located upstream of the indoor unit 20 to be closed. When the opening/closing device located upstream of the indoor unit 20 is in a closed state and the refrigerant leakage sensor 40 of the indoor unit 20 detects a refrigerant, the centralized controller 50 controls the indoor unit 20 to a refrigerant leakage state in which a cooling operation or a heating operation is stopped. When the opening/closing device located upstream of the indoor unit 20 is in a closed state and the refrigerant leakage sensor 40 of the indoor unit 20 detects no refrigerant, the centralized controller 50 controls the indoor unit 20 to a limited operation state in which the indoor unit 20 performs a fan operation or stops operation.

IPC 8 full level
F25B 49/02 (2006.01); **F24F 1/0003** (2019.01); **F24F 11/36** (2018.01); **F24F 11/49** (2018.01); **F24F 11/52** (2018.01); **F24F 11/62** (2018.01); **F25B 13/00** (2006.01); **F25B 41/20** (2021.01); **F25B 41/24** (2021.01); **F25B 49/00** (2006.01)

CPC (source: EP)
F24F 11/36 (2017.12); **F24F 11/49** (2017.12); **F24F 11/62** (2017.12); **F25B 13/00** (2013.01); **F25B 41/24** (2021.01); **F25B 49/005** (2013.01); **F25B 49/02** (2013.01); **F24F 1/0003** (2013.01); **F24F 11/52** (2017.12); **F25B 2313/0233** (2013.01); **F25B 2500/222** (2013.01); **F25B 2600/2519** (2013.01)

Citation (search report)
• [I] WO 2020021593 A1 20200130 - MITSUBISHI ELECTRIC CORP [JP]
• [A] WO 2016088167 A1 20160609 - MITSUBISHI ELECTRIC CORP [JP]
• [A] WO 2012073293 A1 20120607 - MITSUBISHI ELECTRIC CORP [JP], et al
• See references of WO 2021241290A1

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

DOCDB simple family (publication)
EP 4160120 A1 20230405; **EP 4160120 A4 20231108**; JP 2021188783 A 20211213; JP 2024086868 A 20240628; JP 7478996 B2 20240508; WO 2021241290 A1 20211202

DOCDB simple family (application)
EP 21813144 A 20210514; JP 2020092271 A 20200527; JP 2021018467 W 20210514; JP 2024063926 A 20240411