

Title (en)
AIR CONDITIONER AND FLOW PATH SWITCHING VALVE

Title (de)
KLIMAANLAGE UND DURCHFLUSSWEGSCHALTVENTIL

Title (fr)
CLIMATISEUR ET SOUPAPE DE COMMUTATION DE TRAJET D'ÉCOULEMENT

Publication
EP 3889515 A1 20211006 (EN)

Application
EP 19908011 A 20191122

Priority
• JP 2019008841 A 20190102
• JP 2019045808 W 20191122

Abstract (en)
An air conditioner (10) includes two cut-off valves connected to respective refrigerant flow paths (41, 42). At least one of the two cut-off valves is configured as a flow path switching valve (V1, V2) configured to switch a flow path so as to block the refrigerant flow paths (41, 42) when a refrigerant leaks in a utilization circuit (30a).

IPC 8 full level
F24F 11/36 (2018.01); **F24F 11/86** (2018.01); **F25B 49/02** (2006.01)

CPC (source: EP US)
F24F 11/36 (2017.12 - EP); **F24F 11/84** (2017.12 - EP US); **F24F 11/86** (2017.12 - EP); **F25B 5/02** (2013.01 - US); **F25B 13/00** (2013.01 - EP); **F25B 39/02** (2013.01 - US); **F25B 41/20** (2021.01 - EP US); **F25B 41/24** (2021.01 - EP US); **F25B 49/005** (2013.01 - EP); **F25B 49/02** (2013.01 - US); **F25B 2313/005** (2013.01 - EP); **F25B 2313/006** (2013.01 - EP); **F25B 2313/0231** (2013.01 - EP); **F25B 2313/0292** (2013.01 - EP); **F25B 2500/222** (2013.01 - EP US); **F25B 2600/2515** (2013.01 - US)

Cited by
BE1030293B1; WO2023161249A1

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 3889515 A1 20211006; **EP 3889515 A4 20220216**; CN 113227663 A 20210806; CN 113227663 B 20230523; JP 2020109342 A 20200716; JP 7412887 B2 20240115; US 2021318041 A1 20211014; WO 2020141582 A1 20200709

DOCDB simple family (application)
EP 19908011 A 20191122; CN 201980087572 A 20191122; JP 2019008841 A 20190102; JP 2019045808 W 20191122; US 202117356910 A 20210624