

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 3112768 A4 20171018 (EN)

Application
EP 14883758 A 20141027

Priority
• JP 2014034164 A 20140225
• JP 2014078436 W 20141027

Abstract (en)
[origin: EP3112768A1] An air conditioner able to avoid the risk of fire and able to have a reduced number of refrigerant leakage detectors while using a refrigerant having a low global warming potential (GWP) is obtained. The air conditioner is provided with a heat source unit (2) configured so as to use a flammable refrigerant having a low global warming potential, and configured by housing inside a case (2a) refrigeration cycle components such as a heat exchanger (22) in which the refrigerant flows, an electric part box (28) in which electric parts and the like are housed, and a blower (24) driven by a motor (24a). Also, airflow is formed by the blower in the case, and the refrigeration cycle components in which the refrigerant flows are arranged in the airflow in the case, and the electric part box and electric parts such as the motor of the blower are arranged upstream from the refrigeration cycle components in the airflow.

IPC 8 full level
F24F 1/22 (2011.01); **F24F 1/24** (2011.01); **F24F 1/26** (2011.01); **F24F 1/32** (2011.01); **F24F 1/46** (2011.01); **F24F 1/48** (2011.01); **F24F 1/60** (2011.01); **F24F 7/007** (2006.01); **F24F 11/02** (2006.01); **F24F 11/04** (2006.01); **F25B 1/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)
F24F 1/22 (2013.01 - EP US); **F24F 1/24** (2013.01 - US); **F24F 1/26** (2013.01 - EP US); **F24F 1/46** (2013.01 - EP US); **F24F 1/48** (2013.01 - EP US); **F25B 13/00** (2013.01 - EP US); **F25B 49/005** (2013.01 - EP US); **F24F 11/36** (2017.12 - EP US); **F24F 2221/14** (2013.01 - EP US); **F25B 2313/0294** (2013.01 - US); **F25B 2400/121** (2013.01 - EP US); **F25B 2500/222** (2013.01 - EP US)

Citation (search report)
• [Y] JP S62218745 A 19870926 - MITSUBISHI ELECTRIC CORP
• [Y] EP 2679921 A2 20140101 - MITSUBISHI ELECTRIC CORP [JP]
• [Y] JP H02144334 U 19901207
• [Y] WO 2013038703 A1 20130321 - PANASONIC CORP [JP], et al
• See references of WO 2015129099A1

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US11162705B2

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 3112768 A1 20170104; **EP 3112768 A4 20171018**; **EP 3112768 B1 20200617**; CN 106133452 A 20161116; CN 106133452 B 20191105; JP 2015158338 A 20150903; JP 6177158 B2 20170809; US 2016348927 A1 20161201; WO 2015129099 A1 20150903

DOCDB simple family (application)
EP 14883758 A 20141027; CN 201480074164 A 20141027; JP 2014034164 A 20140225; JP 2014078436 W 20141027; US 201415117240 A 20141027