

Title (en)

AIR-CONDITIONING DEVICE AND METHOD FOR MANUFACTURING AIR-CONDITIONING DEVICE

Title (de)

KLIMATISIERUNGSVORRICHTUNG UND VERFAHREN ZUR HERSTELLUNG DER KLIMATISIERUNGSVORRICHTUNG

Title (fr)

DISPOSITIF DE CLIMATISATION ET PROCÉDÉ DE FABRICATION DE DISPOSITIF DE CLIMATISATION

Publication

**EP 3290852 B1 20200617 (EN)**

Application

**EP 16786242 A 20160323**

Priority

- JP 2015090360 A 20150427
- JP 2016059083 W 20160323

Abstract (en)

[origin: US2017370659A1] An air-conditioning apparatus includes: a compressor, a first heat exchanger, an expansion unit and a second heat exchanger that are connected, by a pipe, in a refrigerant circuit through which refrigerant flows, wherein the first heat exchanger includes: a radiator fin, multiple tubes extending through the radiator fin and through which the refrigerant flows, and a side plate provided at end portions of the multiple tubes, and having multiple holes formed thereon, through which the multiple tubes are extended, wherein, on the side plate, between the holes corresponding to the multiple tubes to be connected, a marking corresponding to a type of a connection member that connects the multiple tubes is provided.

IPC 8 full level

**F28F 9/26** (2006.01); **F24F 13/30** (2006.01); **F25B 39/00** (2006.01); **F28D 1/047** (2006.01); **F28D 1/053** (2006.01); **F28D 21/00** (2006.01); **F28F 1/32** (2006.01); **F28F 9/013** (2006.01)

CPC (source: EP US)

**F24F 13/00** (2013.01 - US); **F24F 13/30** (2013.01 - EP US); **F28D 1/0477** (2013.01 - EP US); **F28D 1/05325** (2013.01 - EP US); **F28F 1/32** (2013.01 - EP US); **F28F 9/0265** (2013.01 - US); **F28F 9/26** (2013.01 - US); **F28F 9/262** (2013.01 - EP US); **F28D 2021/0068** (2013.01 - EP US)

Citation (examination)

JP H0646182 U 19940624

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)

**US 2017370659 A1 20171228**; CN 107532869 A 20180102; EP 3290852 A1 20180307; EP 3290852 A4 20190109; EP 3290852 B1 20200617; JP 2016205752 A 20161208; JP 5868537 B1 20160224; WO 2016174965 A1 20161103

DOCDB simple family (application)

**US 201615543802 A 20160323**; CN 201680023701 A 20160323; EP 16786242 A 20160323; JP 2015090360 A 20150427; JP 2016059083 W 20160323