

Title (en)
HEAT SOURCE UNIT FOR REFRIGERATION APPARATUS

Title (de)
WÄRMEQUEELLEINHEIT FÜR EINE KÜHLVORRICHTUNG

Title (fr)
UNITÉ DE SOURCE DE CHALEUR POUR APPAREIL DE RÉFRIGÉRATION

Publication
EP 2933573 A4 20160106 (EN)

Application
EP 13869493 A 20131105

Priority

- JP 2012283210 A 20121226
- JP 2013079882 W 20131105

Abstract (en)
[origin: EP2933573A1] It is an object of the present invention to provide a valve capable of enhancing workability in joining thereto a joint member. An outdoor unit (13) connected to an indoor unit (12) includes a lateral surface bulging part (53) and a stop valve (20). The lateral surface bulging part (53) is formed on a case sidewall portion (412) oriented along a vertical plane and outwardly bulges from the case sidewall part (412). The stop valve (20) has a fixing portion (25) and a fourth cylindrical part (24) to which a communication conduit (14) extending from the indoor unit (12) is joined, and is fixed to the lateral surface bulging part (53) through the fixing portion (25) such that a center axis C2 of the fourth cylindrical part (24) tilts with respect to the vertical plane whereby the fourth cylindrical part (24) gradually separates from the vertical plane toward the tip end thereof.

IPC 8 full level
F24F 1/32 (2011.01); **F24F 1/56** (2011.01)

CPC (source: CN EP)
F24F 1/32 (2013.01 - CN EP); **F24F 1/56** (2013.01 - CN EP)

Citation (search report)

- [X] JP 2003287243 A 20031010 - SANYO ELECTRIC CO
- [X] JP H04126931 A 19920427 - MATSUSHITA SEIKO KK
- [A] JP H11337122 A 19991210 - HITACHI LTD
- [A] JP S58168860 A 19831005 - MATSUSHITA ELECTRIC IND CO LTD
- [A] JP 2000097453 A 20000404 - TOSHIBA CORP, et al
- [A] JP 2011099636 A 20110519 - SHARP KK
- See references of WO 2014103515A1

Cited by
US2017115027A1; US10788240B2; US11629881B2

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 2933573 A1 20151021; EP 2933573 A4 20160106; CN 104884869 A 20150902; CN 104884869 B 20180105; JP 2014126275 A 20140707; JP 5533999 B1 20140625; WO 2014103515 A1 20140703

DOCDB simple family (application)
EP 13869493 A 20131105; CN 201380067746 A 20131105; JP 2012283210 A 20121226; JP 2013079882 W 20131105