

Title (en)

PIPE JOINT, HEAT EXCHANGER, AND AIR CONDITIONER

Title (de)

ROHRVERBINDUNG, WÄRMETAUSCHER UND KLIMAANLAGE

Title (fr)

RACCORD DE TUYAUX, ÉCHANGEUR DE CHALEUR ET CLIMATISEUR

Publication

EP 3064819 A4 20170531 (EN)

Application

EP 13896742 A 20131029

Priority

JP 2013079248 W 20131029

Abstract (en)

[origin: EP3064819A1] A tube fitting includes a through portion 71. A flat tube is connected to the first end portion 72 of the through portion 71, and another tube different in cross-sectional shape from the flat tube is connected to the second end portion 73 of the through portion 71. The central axis of the first end portion 72 and the central axis of the second end portion 73 are deviated from each other.

IPC 8 full level

F16L 21/00 (2006.01); **F16L 25/00** (2006.01); **F24F 1/00** (2011.01); **F24F 1/14** (2011.01); **F28D 1/04** (2006.01); **F28F 9/02** (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP US)

F25B 13/00 (2013.01 - US); **F25B 39/00** (2013.01 - US); **F25B 39/02** (2013.01 - EP US); **F25B 39/04** (2013.01 - EP US); **F28D 1/0435** (2013.01 - EP US); **F28D 1/0476** (2013.01 - EP US); **F28F 1/32** (2013.01 - EP US); **F28F 9/0246** (2013.01 - EP US); **F28F 9/0278** (2013.01 - EP US); **F28F 21/089** (2013.01 - EP US); **F28F 2275/04** (2013.01 - EP US)

Citation (search report)

- [X] JP 2012107841 A 20120607 - MITSUBISHI ELECTRIC CORP
- [I] JP 2010249343 A 20101104 - MITSUBISHI ELECTRIC CORP
- [X] JP 2012082986 A 20120426 - MITSUBISHI ELECTRIC CORP
- See references of WO 2015063858A1

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 3064819 A1 20160907; **EP 3064819 A4 20170531**; **EP 3064819 B1 20190724**; CN 105683639 A 20160615; CN 105683639 B 20180119; JP 6207624 B2 20171004; JP WO2015063858 A1 20170309; US 2016245560 A1 20160825; WO 2015063858 A1 20150507

DOCDB simple family (application)

EP 13896742 A 20131029; CN 201380080615 A 20131029; JP 2013079248 W 20131029; JP 2015544658 A 20131029; US 201315026644 A 20131029