

Title (en)  
AIR CONDITIONING DEVICE

Title (de)  
KLIMATISIERUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE CLIMATISATION

Publication  
**EP 3296649 A1 20180321 (EN)**

Application  
**EP 16841478 A 20160816**

Priority  
• JP 2015169269 A 20150828  
• JP 2016073867 W 20160816

Abstract (en)  
The purpose of the present invention is to increase superheating of low pressure refrigerant by using heat from operating electric parts without impairing piping layout and maintenance by way of a simple and inexpensive configuration. This air conditioning device (1) comprises a compressor that compresses refrigerant, a reactor (15) that is an electric part that generates heat when operating and that constitutes a controller electric circuit to drive the compressor, and a low pressure refrigerant pipe (25) that supplies the refrigerant to the compressor. The low pressure refrigerant pipe (25) has a heat exchanger section (25c) in which an intermediate portion of the low pressure refrigerant pipe branches into a plurality of (two, for example) round pipe branch pipes (25b) and then converges back into one pipe. The plurality of branch pipes (25b) are disposed near the reactor (15) so as to be able to exchange heat.

IPC 8 full level  
**F24F 1/24** (2011.01); **F25B 1/00** (2006.01)

CPC (source: EP US)  
**F24F 1/24** (2013.01 - EP US); **F25B 31/006** (2013.01 - EP); **F25B 40/06** (2013.01 - EP); **F25B 41/42** (2021.01 - EP US)

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 3296649 A1 20180321**; **EP 3296649 A4 20180530**; AU 2016316086 A1 20180104; AU 2016316086 B2 20190131; CN 107636393 A 20180126; JP 2017044455 A 20170302; WO 2017038446 A1 20170309

DOCDB simple family (application)  
**EP 16841478 A 20160816**; AU 2016316086 A 20160816; CN 201680032258 A 20160816; JP 2015169269 A 20150828; JP 2016073867 W 20160816