

Title (en)
HEAT EXCHANGER AND REFRIGERATION DEVICE

Title (de)
WÄRMETAUSCHER UND KÜHLVORRICHTUNG

Title (fr)
ÉCHANGEUR DE CHALEUR ET DISPOSITIF FRIGORIFIQUE

Publication
EP 3336452 A1 20180620 (EN)

Application
EP 16845863 A 20160629

Priority
• JP 2015182972 A 20150916
• JP 2016003117 W 20160629

Abstract (en)
Disclosed is a heat exchanger including multi-bored flat tubes and intended to substantially prevent icing up, while hindering excessively large pressure loss of a refrigerant and an increase in size of the heat exchanger. The heat exchanger is configured such that an anti-icing section (66) has a refrigerant inlet end located below a heat exchanging section (60) and communicating with a liquid refrigerant pipe (35) of a refrigerant circuit, the heat exchanging section (60) has a refrigerant outlet end communicating with the liquid refrigerant pipe (35) via a throttle mechanism (100), and the anti-icing section (66) has a refrigerant outlet end communicating with a portion downstream of the throttle mechanism (100).

IPC 8 full level
F25B 47/02 (2006.01); **F25B 39/02** (2006.01); **F28D 1/053** (2006.01)

CPC (source: EP)
F25B 39/02 (2013.01); **F25B 47/02** (2013.01); **F28D 1/053** (2013.01); **F28D 1/05391** (2013.01); **F28F 9/0212** (2013.01); **F28F 9/0243** (2013.01); **F28F 9/0275** (2013.01); **F28F 9/028** (2013.01); **F28D 2021/0068** (2013.01)

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 3336452 A1 20180620; **EP 3336452 A4 20190410**; **EP 3336452 B1 20201021**; CN 108027184 A 20180511; CN 108027184 B 20190319; JP 2017058071 A 20170323; JP 6202064 B2 20170927; WO 2017046983 A1 20170323

DOCDB simple family (application)
EP 16845863 A 20160629; CN 201680051263 A 20160629; JP 2015182972 A 20150916; JP 2016003117 W 20160629