

Title (en)  
Heat exchanger system

Title (de)  
Wärmetauschersystem

Title (fr)  
Système échangeur de chaleur

Publication  
**EP 2672205 A2 20131211 (EN)**

Application  
**EP 13170506 A 20130604**

Priority  
JP 2012128839 A 20120606

Abstract (en)  
To provide a heat exchanger system that can reliably suppress local frosting near an inlet of a heat-source side heat exchanger serving as an evaporator in a heat cycle, and perform a stable operation. The heat exchanger system includes a refrigeration cycle (8) including a compressor (2), a use side heat exchanger (4), an expansion valve (5), and a heat-source side heat exchanger (6), and in which a non-azeotropic refrigerant mixture having temperature glide is filled in the refrigeration cycle, wherein a part of a refrigerant circuit (6A), (6B) of the heat-source side heat exchanger (6) that serves as an evaporator in a heat cycle extends within the heat exchanger (6), a continuing part of the refrigerant circuit of the heat-source side heat exchanger extends out of the heat exchanger (6) and then connects to a plurality of circuits (6B) via a distribution capillary tube (12), and the refrigerant is circulated in the heat exchanger.

IPC 8 full level  
**F25B 9/00** (2006.01); **F25B 13/00** (2006.01); **F25B 39/02** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)  
**F25B 9/006** (2013.01); **F25B 13/00** (2013.01); **F25B 39/028** (2013.01); **F25B 41/385** (2021.01); **F25B 49/02** (2013.01); **F25B 41/48** (2021.01); **F25B 2341/062** (2013.01); **F25B 2600/21** (2013.01); **F25B 2600/2511** (2013.01)

Citation (applicant)  
• JP H08334274 A 19961217 - MATSUSHITA ELECTRIC IND CO LTD, et al  
• JP 2008256311 A 20081023 - DAIKIN IND LTD

Cited by  
US2018010831A1; US11029066B2; EP3128263A4; US11892210B2; WO2023079123A1

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 2672205 A2 20131211**; **EP 2672205 A3 20140312**; JP 2013253726 A 20131219; JP 6045204 B2 20161214

DOCDB simple family (application)  
**EP 13170506 A 20130604**; JP 2012128839 A 20120606