

Title (en)

HEAT EXCHANGER COMPRISING A LIQUID-REFRIGERANT DISTRIBUTION DEVICE

Title (de)

WÄRMETAUSCHER MIT EINER FLÜSSIGKEITSKÜHLMITTELVERTEILVORRICHTUNG

Title (fr)

ECHANGEUR DE CHALEUR COMPRENANT UN DISPOSITIF DE DISTRIBUTION DE LIQUIDE FRIGORIGENE

Publication

**EP 3254045 A1 20171213 (FR)**

Application

**EP 16703139 A 20160205**

Priority

- FR 1550960 A 20150206
- EP 2016052524 W 20160205

Abstract (en)

[origin: WO2016124748A1] This heat exchanger (2) comprises: - parallel plates (11, 12) which define liquid-refrigerant passages (20) following a longitudinal direction (X), and - fins (21, 22, 23, 24) extending in each passage (20) in a lateral direction (Y) orthogonal to the longitudinal direction (X), each fin (21, 22, 23, 24) having orifices for the flow of the liquid refrigerant. At least one lower portion of at least one fin (21, 22, 23, 24) defines, with the plate secured to this lower portion, a distribution channel for channelling the liquid refrigerant in the lateral direction (Y). The orifices in said at least one fin (21, 22, 23, 24) are formed by overflow openings in the upper portion. The liquid refrigerant flows through the overflow openings when the or each distribution channel is full of liquid refrigerant.

IPC 8 full level

**F28F 9/02** (2006.01); **F25J 3/04** (2006.01); **F25J 5/00** (2006.01); **F28D 9/00** (2006.01); **F28F 9/22** (2006.01)

CPC (source: CN EP US)

**F25J 3/04636** (2013.01 - US); **F25J 5/005** (2013.01 - CN EP US); **F28D 9/0062** (2013.01 - CN EP US); **F28F 9/0273** (2013.01 - CN EP US); **F28F 9/0278** (2013.01 - EP US); **F28F 9/22** (2013.01 - CN EP US); **F25J 2250/02** (2013.01 - CN EP US); **F25J 2250/04** (2013.01 - CN EP US); **F25J 2290/32** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2016124748A1

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)

**WO 2016124748 A1 20160811**; CN 107208986 A 20170926; CN 107208986 B 20190806; EP 3254045 A1 20171213; EP 3254045 B1 20190102; FR 3032521 A1 20160812; FR 3032521 B1 20170217; US 2018023899 A1 20180125

DOCDB simple family (application)

**EP 2016052524 W 20160205**; CN 201680007397 A 20160205; EP 16703139 A 20160205; FR 1550960 A 20150206; US 201615547314 A 20160205