

Title (en)

MICROCHANNEL HEAT EXCHANGER WITH ENHANCED REFRIGERANT DISTRIBUTION

Title (de)

MIKROKANAL-WÄRMETAUSCHER MIT VERBESSERTER KÄLTEMITTELVERTEILUNG

Title (fr)

ÉCHANGEUR DE CHALEUR À MICROCANAU A DISTRIBUTION AMÉLIORÉ DU RÉFRIGÉRANT

Publication

**EP 2310786 A4 20130410 (EN)**

Application

**EP 09747084 A 20090413**

Priority

- US 2009040314 W 20090413
- US 5367708 P 20080516

Abstract (en)

[origin: WO2009139998A2] An evaporator includes a manifold receiving a distributor insert. The distributor insert receives the flow of refrigerant to be delivered into the manifold, and has openings to communicate this refrigerant into a plurality of chambers which are defined between adjacent dividing elements of the distributor insert within the manifold. In this manner, these chambers are each associated with distinct heat transfer tubes and such that these chambers are isolated from each other.

IPC 8 full level

**F28F 9/00** (2006.01); **F28F 9/02** (2006.01); **F28F 9/22** (2006.01)

CPC (source: EP US)

**F25B 39/028** (2013.01 - EP US); **F28F 9/0273** (2013.01 - EP US); **F28D 1/05366** (2013.01 - EP US); **F28F 2260/02** (2013.01 - EP US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2009139998A2

Cited by

US11946676B2; US7965563B2; WO2023192442A1

Designated contracting state (EPC)

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 SE SI SK TR

DOCDB simple family (publication)

**WO 2009139998 A2 20091119**; **WO 2009139998 A3 20100128**; CN 102027308 A 20110420; EP 2310786 A2 20110420; EP 2310786 A4 20130410; EP 2310786 B1 20140924; ES 2511036 T3 20141022; US 2011000255 A1 20110106

DOCDB simple family (application)

**US 2009040314 W 20090413**; CN 200980117745 A 20090413; EP 09747084 A 20090413; ES 09747084 T 20090413; US 92141409 A 20090413