

Title (en)

HEAT EXCHANGERS HAVING BAFFLED MANIFOLDS

Title (de)

WÄRMETAUSCHER MIT MIT PRALLFLÄCHEN VERSEHENEM VERTEILER

Title (fr)

ECHANGEURS DE CHALEUR COMPORTANT DES COLLECTEURS À CHICANES

Publication

**EP 2212639 A4 20110223 (EN)**

Application

**EP 07839508 A 20071012**

Priority

US 2007021858 W 20071012

Abstract (en)

[origin: WO2009048451A1] A heat exchanger for a fluid having a vapor-phase and a liquid-phase is provided. The heat exchanger includes a first manifold, a second manifold, a plurality of parallel channels, a mixing device, and one or more baffles. The parallel channels are in fluid communication with the first and second manifolds. The mixing device mixes the fluid flowing into the first manifold so that the fluid is a substantially homogeneous two-phase mixture of the vapor and liquid phases. The baffles are within the first manifold and ensure that the fluid enters the parallel channels as the substantially homogeneous two- phase mixture.

IPC 8 full level

**F28F 9/02** (2006.01)

CPC (source: EP US)

**F25B 39/028** (2013.01 - EP US); **F28D 1/05391** (2013.01 - EP US); **F28F 9/0204** (2013.01 - EP US); **F28F 9/0273** (2013.01 - EP US); **F28F 9/0278** (2013.01 - EP US)

Citation (search report)

- [XY] WO 2006083451 A2 20060810 - CARRIER CORP [US], et al
- [Y] US 5203407 A 19930420 - NAGASAKA YOSHIKIYO [JP]
- [X] US 4524823 A 19850625 - HUMMEL KARL-ERNST [DE], et al
- [XA] US 2555055 A 19510529 - ORT FRANK C
- [X] US 2006102332 A1 20060518 - TARAS MICHAEL F [US], et al
- [A] US 2007039724 A1 20070222 - TRUMBOWER MICHAEL W [US], et al
- [A] US 2005132744 A1 20050623 - ROHRER CLAY A [US], et al
- See references of WO 2009048451A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2009048451 A1 20090416**; CN 101821577 A 20100901; CN 101821577 B 20120822; DK 2212639 T3 20160919; EP 2212639 A1 20100804; EP 2212639 A4 20110223; EP 2212639 B1 20160831; ES 2589319 T3 20161111; HK 1147798 A1 20110819; US 2010206535 A1 20100819

DOCDB simple family (application)

**US 2007021858 W 20071012**; CN 200780101052 A 20071012; DK 07839508 T 20071012; EP 07839508 A 20071012; ES 07839508 T 20071012; HK 11101720 A 20110222; US 68210810 A 20100408