

Title (en)

PARALLEL FLOW HEAT EXCHANGER WITH CRIMPED CHANNEL ENTRANCE

Title (de)

PARALLELSTROMWÄRMETAUSCHER MIT GEQUETSCHTEM KANALEINGANG

Title (fr)

ECHANGEUR THERMIQUE A ECOULEMENT PARALLELE PRESENTANT UNE ENTREE DE CANAUX GAUFREE

Publication

**EP 1859220 A2 20071128 (EN)**

Application

**EP 05855808 A 20051229**

Priority

- US 2005047309 W 20051229
- US 64938305 P 20050202

Abstract (en)

[origin: WO2006083442A2] A parallel flow (minichannel or microchannel) evaporator includes channels which are crimped at or adjacent to their entrance location which provides for a refrigerant expansion and pressure drop control resulting in the elimination of refrigerant maldistribution in the evaporator and prevention of potential compressor flooding. Progressive crimping to counter-balance factors effecting refrigerant distribution is also disclosed.

IPC 8 full level

**F28F 9/02** (2006.01)

CPC (source: EP KR US)

**F25B 39/00** (2013.01 - EP US); **F25B 41/37** (2021.01 - EP KR US); **F28D 1/05366** (2013.01 - EP US); **F28F 1/025** (2013.01 - EP US); **F28F 9/00** (2013.01 - KR); **F28F 9/02** (2013.01 - KR); **F28F 9/0282** (2013.01 - EP US); **F25B 2500/01** (2013.01 - EP US); **F28D 2021/0071** (2013.01 - EP US); **F28F 2260/02** (2013.01 - EP US)

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

**WO 2006083442 A2 20060810; WO 2006083442 A3 20090409**; AU 2005326710 A1 20060810; BR PI0519905 A2 20090908; CA 2596364 A1 20060810; CN 101443621 A 20090527; EP 1859220 A2 20071128; EP 1859220 A4 20100804; JP 2008533415 A 20080821; KR 20070091216 A 20070907; MX 2007009248 A 20070904; US 2008105420 A1 20080508

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