

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 A4 20100804 (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)

Citation (search report)

- [X] DE 4015830 A1 19911121 - BEHR GMBH & CO [DE]
- See references of WO 2006083442A2

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 NL PL PT RO SE SI SK TR

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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