Title (en)

PARALLEL FLOW HEAT EXCHANGERS INCORPORATING POROUS INSERTS

Title (de)

PARALLELSTROMWÄRMETAUSCHER MIT PORÖSEN EINSÄTZEN

Title (fr)

ECHANGEURS THERMIQUES A FLUX PARALLELE RENFERMANT DES ELEMENTS D'INSERTION POREUX

Publication

EP 1844290 A4 20100721 (EN)

Application

EP 05857243 A 20051229

Priority

- US 2005047310 W 20051229
- US 64942505 P 20050202

Abstract (en)

[origin: WO2006083443A2] A parallel flow (minichannel or microchannel) evaporator includes a porous member inserted at the entrance of the evaporator channels which provides refrigerant expansion and pressure drop controls resulting in the elimination of refrigerant maldistribution and prevention of potential compressor flooding.

IPC 8 full level

F28F 9/02 (2006.01)

CPC (source: EP KR US)

F25B 39/028 (2013.01 - EP US); **F28D 1/05383** (2013.01 - EP US); **F28F 9/02** (2013.01 - KR); **F28F 9/028** (2013.01 - EP US); **F28F 9/0282** (2013.01 - EP US); **F28F 13/003** (2013.01 - EP US); F25B 41/30 (2021.01 - EP KR US)

Citation (search report)

- [X] JP H0331692 A 19910212 - MATSUSHITA REFRIGERATION, et al
- See references of WO 2006083443A2

Cited by

US10288331B2; US10753656B2

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 2006083443 A2 20060810; **WO 2006083443 A3 20061214**; AU 2005326711 A1 20060810; AU 2005326711 B2 20101223; BR PI0519907 A2 20090908; CA 2596365 A1 20060810; CN 101111734 A 20080123; CN 101111734 B 20100512; EP 1844290 A2 20071017; EP 1844290 A4 20100721; EP 1844290 B1 20130313; HK 1117224 A1 20090109; JP 2008528938 A 20080731; KR 20070100785 A 20071011; MX 2007009252 A 20070904; US 2008099191 A1 20080501

DOCDB simple family (application)

US 2005047310 W 20051229; AU 2005326711 A 20051229; BR PI0519907 A 20051229; CA 2596365 A 20051229; CN 200580047687 A 20051229; EP 05857243 A 20051229; HK 08107627 A 20080710; JP 2007554087 A 20051229; KR 20077017773 A 20070801; MX 2007009252 A 20051229; US 79497005 A 20051229