

Title (en)

METHODS AND SYSTEMS FOR UTILIZING A MINI-CHANNEL HEAT-EXCHANGER DEVICE IN A REFRIGERATION CIRCUIT

Title (de)

VERFAHREN UND SYSTEME ZUR VERWENDUNG EINER MINIKANALWÄRMETAUSCHERVORRICHTUNG IN EINEM KÄLTEKREISLAUF

Title (fr)

PROCÉDÉS ET SYSTÈMES POUR UTILISER UN DISPOSITIF D'ÉCHANGEURS DE CHALEUR À MINI CANAUX DANS UN CIRCUIT DE RÉFRIGÉRATION

Publication

EP 2198215 A4 20131211 (EN)

Application

EP 07838285 A 20070914

Priority

US 2007020057 W 20070914

Abstract (en)

[origin: WO2009035440A1] A mini-channel heat-exchanger for a refrigeration circuit having an inlet manifold; a first return manifold; a first heat exchange pass in fluid communication between the inlet manifold and the first return manifold, the first heat exchange pass including a plurality of mini-channels; and a system charge tank in direct fluid communication with the first return manifold.

IPC 8 full level

F25B 39/00 (2006.01); **F25B 45/00** (2006.01); **F25B 13/00** (2006.01); **F28D 1/053** (2006.01); **F28D 21/00** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [X] US 5224358 A 19930706 - YAMANAKA YASUSHI [JP], et al
- [I] JP 2003014336 A 20030115 - JAPAN CLIMATE SYSTEMS CORP
- [I] FR 2747768 A1 19971024 - VALEO THERMIQUE MOTEUR SA [FR]
- [I] JP 2004069272 A 20040304 - DENSO CORP
- [A] US 2001004935 A1 20010628 - SANADA RYOUICHI [JP], et al
- See references of WO 2009035440A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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US 2007020057 W 20070914; CN 200780100636 A 20070914; EP 07838285 A 20070914; ES 07838285 T 20070914; HK 11110651 A 20111007; US 67742710 A 20100310