

Title (en)

COOLER DISTRIBUTOR FOR A HEAT EXCHANGER

Title (de)

KÜHLERVERTEILER FÜR EINEN WÄRMETAUSCHER

Title (fr)

DISTRIBUTEUR DE REFROIDISSEMENT POUR UN ÉCHANGEUR DE CHALEUR

Publication

**EP 2263051 A4 20140312 (EN)**

Application

**EP 09717470 A 20090304**

Priority

- US 2009001376 W 20090304
- US 6833508 P 20080306

Abstract (en)

[origin: WO2009111025A2] A distributor (12) for an evaporator (22) in a vapor-compression circuit (10) comprises an elongate body (50A, 50B) defining an inlet portion (56A) and first and second distal ends (58A, 58B). The body (50A) being positionable along an interior sidewall (42) of the evaporator (22). The inlet portion (56A) positionable opposite an inlet port (38) of the evaporator (22) such that refrigerant entering the evaporator (22) engages the inlet portion (56A) of the distributor (12). The first and second distal ends (58A, 58B) extending outwardly towards opposing side ends (34A, 34B) of the evaporator (22). The elongate body (50A, 50B) cooperates with the sidewall (42) of the evaporator (22) to define a channel (49) having a generally uniform cross-sectional area extending from the first distal end (58A) to the second distal end (58B) such that refrigerant entering the channel (49) near the inlet portion (56A) is initially substantially contained between the sidewall (42) of the evaporator (22) and the elongate body (50A, 50B). The elongate body (50A, 50B) defining discharge ports (60A, 60B) to disperse refrigerant from the channel (49) into the evaporator (22).

IPC 8 full level

**F25B 41/00** (2006.01); **F25B 39/02** (2006.01); **F28F 25/02** (2006.01)

CPC (source: EP US)

**F25B 39/028** (2013.01 - EP US); **F28D 7/1607** (2013.01 - EP US); **F28F 9/0265** (2013.01 - EP US); **F25B 2339/0242** (2013.01 - EP US); **F25B 2500/01** (2013.01 - EP US); **F28D 2021/0071** (2013.01 - EP US)

Citation (search report)

- [XAI] JP 2002081699 A 20020322 - ISHIKAWAJIMA HARIMA HEAVY IND
- [XA] JP H06272976 A 19940927 - DAIKIN IND LTD
- [A] US 2007107886 A1 20070517 - CHEN WEI [US]
- See references of WO 2009111025A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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