

Title (en)

Heat exchanger with extruded multi-chamber manifold with machined bypass

Title (de)

Wärmetauscher mit stranggepresstem Mehrkammerkrümmer mit bearbeiteter Umgangsleitung

Title (fr)

Échangeur thermique doté d'un collecteur extrudé multichambres avec une dérivation usinée

Publication

**EP 2345861 A2 20110720 (EN)**

Application

**EP 11250048 A 20110117**

Priority

US 68829710 A 20100115

Abstract (en)

The present invention heat exchanger with extruded multi-chamber manifolds (16,18) includes at least two panels (22), with each panel having a row of at least one channel which communicates fluid. The heat exchanger includes a first manifold and a second manifold, the first manifold and the second manifold each having at least two manifold chambers (20). Each panel is attached to a manifold chamber of the first manifold and a manifold chamber of the second manifold, with each chamber having an inner wall (40) and outer wall (42). The outer wall has a surface (56) exposed outside the manifold chambers. There is also an opening (62) through the outer wall including a bypass slot. The bypass slot allows fluid communication between the chambers.

IPC 8 full level

**F28D 1/053** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP US)

**F28D 1/05391** (2013.01 - EP US); **F28F 9/0214** (2013.01 - EP US); **F28F 2250/04** (2013.01 - EP US); **Y10T 29/4935** (2015.01 - EP US)

Cited by

EP3418667A1; FR3059411A1; US11460256B2; WO2018100312A1

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2345861 A2 20110720**; **EP 2345861 A3 20131225**; **EP 2345861 B1 20180919**; CN 102128557 A 20110720; CN 102128557 B 20131204; RU 2011102325 A 20120727; RU 2470244 C2 20121220; US 2011174472 A1 20110721

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