

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 B1 20180919 (EN)**

Application

**EP 11250048 A 20110117**

Priority

US 68829710 A 20100115

Abstract (en)

[origin: EP2345861A2] 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)

Citation (examination)

EP 1657513 A1 20060517 - SANDEN CORP [JP]

Cited by

EP3418667A1; FR3059411A1; US11460256B2; WO2018100312A1

Designated contracting state (EPC)

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

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

DOCDB simple family (application)

**EP 11250048 A 20110117**; CN 201110007439 A 20110114; RU 2011102325 A 20110117; US 68829710 A 20100115