

Title (en)

HEAT EXCHANGER WITH CENTER MANIFOLD AND THERMAL SEPARATOR

Title (de)

WÄRMETAUSCHER MIT MITTELVERTEILER UND WÄRMESEPARATOR

Title (fr)

ÉCHANGEUR DE CHALEUR AYANT UN COLLECTEUR CENTRAL ET SÉPARATEUR THERMIQUE

Publication

EP 3196581 A1 20170726 (EN)

Application

EP 17150276 A 20170104

Priority

US 201615003467 A 20160121

Abstract (en)

A heat exchange device (100) includes a first section (102) and a second section (104). Each of the first and second sections include flow passages (110) configured for heat exchange between hot fluid within the flow passages (110) and cold fluid external of the flow passages. Each of the flow passages (110) having cold fluid flow therebetween. A separator (144) is positioned dividing the cold fluid flow between flow passages (110). The separator (144) includes two separator sheets (140) spaced apart with a pillar matrix (142) structurally connecting the separator sheets (140) configured to prevent cold fluid mixing.

IPC 8 full level

F28F 1/42 (2006.01); **F28D 1/04** (2006.01); **F28D 1/047** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP US)

F28D 1/0408 (2013.01 - EP US); **F28D 1/0476** (2013.01 - EP US); **F28D 7/1661** (2013.01 - US); **F28F 1/422** (2013.01 - EP US); **F28F 3/02** (2013.01 - US); **F28F 3/022** (2013.01 - US); **F28F 9/013** (2013.01 - US); **F28F 9/02** (2013.01 - EP US); **F28F 9/026** (2013.01 - US); **F28D 2021/0021** (2013.01 - US); **F28D 2021/0026** (2013.01 - US); **F28F 2225/04** (2013.01 - US); **F28F 2240/00** (2013.01 - EP US); **F28F 2270/00** (2013.01 - US)

Citation (search report)

- [Y] US 2013201628 A1 20130808 - AOKI MICHIMASA [JP], et al
- [XY] US 6035927 A 20000314 - KRAUSS HANS-JOACHIM [DE], et al
- [X] US 2883165 A 19590421 - JENSEN ARNOLD E, et al

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3196581 A1 20170726; **EP 3196581 B1 20190102**; US 2017211888 A1 20170727

DOCDB simple family (application)

EP 17150276 A 20170104; US 201615003467 A 20160121