

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 2810013 A1 20141210 (FR)

Application
EP 13701632 A 20130129

Priority

- FR 1250839 A 20120130
- EP 2013051648 W 20130129

Abstract (en)
[origin: WO2013113684A1] The invention relates to a heat exchanger (1) for carrying out a thermal exchange between a first fluid (FC) and a second fluid (FR), including a plurality of chambers (3, 6) stacked in a longitudinal direction (A-A') to form a thermal exchange bundle (2), wherein at least one first chamber (3) suitable for containing the first fluid is defined by a pair of first plates (4, 5), and at least one second chamber (6) suitable for containing the second fluid is defined by a pair of second plates (7, 8), the second plates including openings (71, 72, 81, 82) in communication with the second chamber, characterized by the fact that the first plates include each at least two primary openings (41, 42, 51, 52) and at least two secondary openings (43, 44, 53, 54), the two primary openings being in communication with the first chamber, and the two secondary openings being in communication with the openings of the second plates.

IPC 8 full level
F28D 9/00 (2006.01); **F28D 7/00** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP US)
F28D 9/005 (2013.01 - EP US); **F28D 9/0056** (2013.01 - EP US); **F28D 9/0062** (2013.01 - US); **F28F 3/08** (2013.01 - US);
F28F 27/02 (2013.01 - EP US); **F28D 7/0025** (2013.01 - EP US)

Citation (search report)
See references of WO 2013113684A1

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)
FR 2986315 A1 20130802; FR 2986315 B1 20140110; CN 104303002 A 20150121; CN 104303002 B 20171212; EP 2810013 A1 20141210;
EP 2810013 B1 20200415; JP 2015505028 A 20150216; JP 5933757 B2 20160615; US 2015000869 A1 20150101; US 9897389 B2 20180220;
WO 2013113684 A1 20130808

DOCDB simple family (application)
FR 1250839 A 20120130; CN 201380010863 A 20130129; EP 13701632 A 20130129; EP 2013051648 W 20130129;
JP 2014553752 A 20130129; US 201314375209 A 20130129