

Title (en)
Plate heat exchanger

Title (de)
Plattenwärmeaustauscher

Title (fr)
Échangeur thermique à plaque

Publication
EP 2672215 B1 20140924 (EN)

Application
EP 12171230 A 20120608

Priority
EP 12171230 A 20120608

Abstract (en)
[origin: EP2672215A1] A plate heat exchanger (2) comprising a first frame plate (4), a second frame plate (6), a first number of side walls (8, 10, 12, 14) and a stack (18) of heat transfer plates (20) is provided. The heat transfer plates each has a center portion (40) and a peripheral portion (42) encircling the center portion, and they are arranged in pairs between the first and second frame plates and essentially parallel thereto. A first flow path (F1) for a first fluid is formed between the heat transfer plates of the pairs and a second flow path (F2) for a second fluid is formed between the pairs of heat transfer plates. The side walls extend between the first and second frame plates and enclose the stack of heat transfer plates. A first side wall (10, 74) of the side walls, having an inside surface (62, 78) facing the stack of heat transfer plates, is provided with a through hole (60, 76) for draining of a substance from an inside to an outside of the plate heat exchanger, which substance originates from one of the first and second fluids. The plate heat exchanger is characterized in that at least a first portion (64a, 78a) of the inside surface of the first side wall is sloping towards the hole for facilitating the draining of the substance.

IPC 8 full level
F28F 17/00 (2006.01)

CPC (source: EP KR US)
F28B 1/02 (2013.01 - KR); **F28F 3/08** (2013.01 - US); **F28F 9/26** (2013.01 - KR); **F28F 17/00** (2013.01 - KR); **F28F 17/005** (2013.01 - EP US); **F28F 2265/06** (2013.01 - EP US)

Cited by
EP3418665A1; CN106323026A; EP3418664A1; EP3457067A1; CN111213023A; US11493285B2; WO2019052857A1; WO2018234048A1; WO2018234049A1

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 2672215 A1 20131211; **EP 2672215 B1 20140924**; CN 104350353 A 20150211; DK 2672215 T3 20141208; KR 101667133 B1 20161017; KR 20150006013 A 20150115; RU 2589582 C1 20160710; US 2015096718 A1 20150409; WO 2013182370 A1 20131212

DOCDB simple family (application)
EP 12171230 A 20120608; CN 201380029664 A 20130508; DK 12171230 T 20120608; EP 2013059599 W 20130508; KR 20147033176 A 20130508; RU 2014153901 A 20130508; US 201314400181 A 20130508