

Title (en)  
Plate heat exchanger

Title (de)  
Plattenwärmeaustauscher

Title (fr)  
Échangeur thermique à plaques

Publication  
**EP 2757337 A3 20141217 (EN)**

Application  
**EP 14151384 A 20140116**

Priority  
US 201313743986 A 20130117

Abstract (en)  
[origin: EP2757337A2] A plate heat exchanger (100) includes a plurality of main plates (110) having ridges and troughs to direct first and second flows of fluids across the main plates (110) to exchange heat between the fluids while maintaining the first and second flows of fluids separate from each other. The heat exchanger (100) also includes a first end plate (120; 320) including first and second inlets and first and second outlets. The first end plate (120; 320) includes a substantially flat inside surface configured to contact the ridges (111) of a first main plate (110) among the plurality of main plates (110) and at least one slot (323, 324) formed in the substantially flat surface to provide a fluid communication of the first fluid flow between the inlet (322c) and a cavity formed by the first end plate (120) and the first main plate (110).

IPC 8 full level  
**F28F 3/08** (2006.01); **F28D 9/00** (2006.01)

CPC (source: EP US)  
**F28D 9/005** (2013.01 - EP US); **F28F 3/005** (2013.01 - US); **F28F 3/083** (2013.01 - EP US); **F28F 2265/16** (2013.01 - EP US)

Citation (search report)

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- [A] US 6199626 B1 20010313 - WU ALAN K [CA], et al
- [A] US 2009008072 A1 20090108 - RASSMUS JENS ERIK [SE]
- [A] US 6164371 A 20001226 - BERTILSSON KLAS [SE], et al
- [A] EP 0347961 A1 19891227 - ITT [US]

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IT201800007453A1; WO2020021403A1

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 2757337 A2 20140723; EP 2757337 A3 20141217; EP 2757337 B1 20161228; US 2014196870 A1 20140717**

DOCDB simple family (application)  
**EP 14151384 A 20140116; US 201313743986 A 20130117**