

Title (en)
Plate heat exchanger with tension ties

Title (de)
Plattenwärmetauscher mit Zugstäben

Title (fr)
Échangeur de chaleur à plaques avec tirants

Publication
EP 2757338 A3 20150715 (EN)

Application
EP 14151386 A 20140116

Priority
US 201313743959 A 20130117

Abstract (en)
[origin: EP2757338A2] A plate heat exchanger (100) includes a stack of main plates (110) having ridges and troughs to direct first and second flows of fluids through cavities between the main plates (110) to exchange heat between the fluids while maintaining the first and second flows of fluids separate from each other. The plate heat exchanger (100) includes a first end plate (120) stacked at one end of the stack of main plates (110) and a second end plate (130) stacked at an opposite end of the main plates (110). Tension ties (140) mechanically connect to each of the first and second end plates (120, 130) through the stack of main plates (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 2225/00** (2013.01 - EP US); **F28F 2275/205** (2013.01 - EP US)

Citation (search report)

- [XY] JP 2000357531 A 20001226 - FUJI ELECTRIC CO LTD
- [Y] US 2010032148 A1 20100211 - BERMHULT ROLF [SE]
- [X] KR 20090110606 A 20091022 - KOREA MACH & MATERIALS INST [KR]
- [X] JP 2010287501 A 20101224 - NGK SPARK PLUG CO

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)
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