

Title (en)
High-pressure plate heat exchanger

Title (de)
Hochdruckplattenwärmetauscher

Title (fr)
Échangeur thermique de plaque à haute pression

Publication
EP 2840346 A1 20150225 (EN)

Application
EP 14178382 A 20140724

Priority
US 201313957011 A 20130801

Abstract (en)
A heat exchanger plate (10b) has multiple structures thereon. A heat transfer portion has a plurality of ribs arranged in a rib pattern (12b). A fluid ingress structure (14a) is arranged near a first corner of the heat exchanger plate. The structure includes a first open fluid aperture defined in the heat exchanger plate, and a first platform arranged between the first open fluid aperture and the first corner. The first platform is connected to a rib of the rib pattern. A fluid bypass structure is arranged near a second corner. The fluid bypass structure includes a closed fluid aperture defined in the heat exchanger plate, a second platform completely surrounding the closed fluid aperture, and a first corner rib arranged between the second platform and the second corner. The first corner rib is connected to a rib of the rib pattern.

IPC 8 full level
F28F 3/10 (2006.01); **F28D 9/00** (2006.01)

CPC (source: EP US)
F28F 3/10 (2013.01 - EP US); **F28D 9/005** (2013.01 - EP US); **F28F 2225/00** (2013.01 - EP US); **F28F 2250/06** (2013.01 - EP US)

Citation (search report)

- [A] WO 2010069874 A1 20100624 - SWEP INT AB [SE], et al
- [A] WO 2010069873 A1 20100624 - SWEP INT AB [SE], et al
- [A] US 2011083833 A1 20110414 - ZORZIN ALVARO [IT], 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

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EP 2840346 A1 20150225; EP 2840346 B1 20180418; US 2015034285 A1 20150205

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