

Title (en)
PLATE HEAT EXCHANGER

Title (de)
PLATTENWÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR À PLAQUES

Publication
EP 3349921 A4 20190828 (EN)

Application
EP 16836033 A 20160818

Priority
• DE 102015010289 A 20150808
• US 2016047467 W 20160818

Abstract (en)
[origin: WO2017027886A1] A plate heat exchanger has openings in the plates defining supply and return ducts extending through a plate stack. The supply and return ducts are hydraulically connected to flow ducts located between the plates and to a tube arranged coaxially in each of the supply and return duct. The tubes have holes in the tube wall in order to provide the hydraulic connection to the flow ducts. A simple and cost-effective plate heat exchanger which can withstand high pressures is achieved by the tubes extending through the entire stack to form a tie rod between a top side and an underside of the plate stack. The tube has a diameter corresponding to the diameter of the openings in the plates such that the tube wall is firmly metallurgically connected to at least some edges of the openings.

IPC 8 full level
B21D 53/08 (2006.01); **F28D 1/03** (2006.01); **F28F 9/18** (2006.01)

CPC (source: EP US)
F16H 57/04 (2013.01 - EP US); **F16H 57/0415** (2013.01 - EP US); **F28D 9/0043** (2013.01 - EP US); **F28F 9/0273** (2013.01 - EP US); **F28F 9/182** (2013.01 - EP US); **F28D 2021/0049** (2013.01 - EP US); **F28F 3/044** (2013.01 - EP US); **F28F 2225/00** (2013.01 - EP US); **F28F 2275/04** (2013.01 - EP US)

Citation (search report)
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• See references of WO 2017027886A1

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)
DE 102015010289 A1 20170209; BR 112018002396 A2 20180918; EP 3349921 A1 20180725; EP 3349921 A4 20190828; MX 2018001598 A 20190218; US 2018231323 A1 20180816; WO 2017027886 A1 20170216

DOCDB simple family (application)
DE 102015010289 A 20150808; BR 112018002396 A 20160818; EP 16836033 A 20160818; MX 2018001598 A 20160818; US 2016047467 W 20160818; US 201615750853 A 20160818