Title (en)

Method and press tool for fabricating a plate heat exchanger

Title (de)

Verfahren und Presswerkzeug zur Herstellung eines Plattenwärmetäuschers

Title (fr)

Procédé et outil de presse pour la fabrication d'un échangeur thermique à plaques

Publication

EP 2669027 B1 20160210 (DE)

Application

EP 12170500 A 20120601

Priority

EP 12170500 A 20120601

Abstract (en)

[origin: EP2669027A1] The method involves producing individual plates (1) from a non-pressed plate blank by converting a tool with exchangeable mold elements to a converted tool that produces cross flow plates or countercurrent flow plates. The plate blank is pressed with the converted tool into the cross flow plate or countercurrent flow plate. Corresponding edges (12) and/or contact surfaces (13) and inflow cross-sections (Z1, Z2) and outflow cross-sections (A1, A2) are formed in main flow directions of two respective mediums. Distance between adjacent individual plates is determined. Independent claims are also included for the following: (1) a pressing tool for pressing individual plates for plate heat exchangers (2) a system for manufacturing individual plates for plate heat exchangers.

IPC 8 full level

B21D 53/04 (2006.01); **B21D 37/02** (2006.01); **F28D 9/00** (2006.01); **F28F 3/04** (2006.01)

CPC (source: EP KR RU US)

B21D 35/00 (2013.01 - KR); **B21D 37/02** (2013.01 - EP US); **B21D 37/04** (2013.01 - US); **B21D 53/02** (2013.01 - KR); **B21D 53/04** (2013.01 - EP US); **F28D 9/0031** (2013.01 - RU); **F28D 9/0037** (2013.01 - EP US); F28F 3/044 (2013.01 - EP US)

Cited by

CN104084490A; FR3086742A1; US2021389060A1; US12038243B2; WO2020069880A1

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 2669027 A1 20131204; **EP 2669027 B1 20160210**; **EP 2669027 B8 20160316**; KR 102029096 B1 20191007; KR 20130135748 A 20131211; RU 2012155994 A 20140627; RU 2607130 C2 20170110; US 2013319069 A1 20131205

DOCDB simple family (application)

EP 12170500 A 20120601; KR 20130057988 A 20130522; RU 2012155994 A 20121224; US 201213726124 A 20121223