

Title (en)  
A PLATE HEAT EXCHANGER

Title (de)  
PLATTENWÄRMETAUSCHER

Title (fr)  
ECHANGEUR THERMIQUE A PLAQUES

Publication  
**EP 2394129 A1 20111214 (EN)**

Application  
**EP 09839772 A 20090204**

Priority  
SE 2009050110 W 20090204

Abstract (en)  
[origin: WO2010090557A1] A plate heat exchanger comprises a plurality of heat exchanger plates (1). Each plate defines a longitudinal centre line (x) and includes a heat transfer area (20) comprising ridges (27) and valleys (27'). The ridges of one of the plates abut the valleys of an adjoining one of the plates to form a plurality of joining areas (28, 29). Each of the ridges and valleys has a V-shaped configuration with a first part (31 ) forming a positive angle with the centre line, a second part (32) forming a corresponding negative angle with the centre line, and a connection part (33) connecting the first part and the second part and extending along a curved path (35). Each connection part includes a projection (34) extending along the centre line outwardly from the curved path. The projections form a respective central joining area (29) at the centre line.

IPC 8 full level  
**F28F 3/04** (2006.01); **F28D 9/00** (2006.01); **F28F 3/08** (2006.01)

CPC (source: EP)  
**F28D 9/005** (2013.01); **F28F 3/046** (2013.01); **F28F 2275/04** (2013.01)

Cited by  
EP3800422A1; US10767933B2; WO2020141982A1; US11162736B2

Designated contracting state (EPC)  
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 SE SI SK TR

DOCDB simple family (publication)  
**WO 2010090557 A1 20100812**; CN 102308177 A 20120104; CN 102308177 B 20130508; DK 2394129 T3 20141215; EP 2394129 A1 20111214; EP 2394129 A4 20130109; EP 2394129 B1 20141008; ES 2525010 T3 20141217; JP 2012516990 A 20120726; JP 5243623 B2 20130724; PL 2394129 T3 20150331; PT 2394129 E 20141209; SI 2394129 T1 20141231; TW 201030306 A 20100816; TW I464359 B 20141211

DOCDB simple family (application)  
**SE 2009050110 W 20090204**; CN 200980156395 A 20090204; DK 09839772 T 20090204; EP 09839772 A 20090204; ES 09839772 T 20090204; JP 2011549112 A 20090204; PL 09839772 T 20090204; PT 09839772 T 20090204; SI 200931044 T 20090204; TW 98136620 A 20091029