

Title (en)
PLATE HEAT EXCHANGER

Title (de)
PLATTENWÄRMETAUSCHER

Title (fr)
ECHANGEUR A PLAQUES

Publication
EP 1240469 B1 20050413 (EN)

Application
EP 00989166 A 20001222

Priority
• SE 0002683 W 20001222
• SE 9904786 A 19991223

Abstract (en)
[origin: WO0148433A1] The present invention refers to a plate heat exchanger for at least two heat exchanging fluids which heat exchanger is permanently joined and comprises at least one core of plates with a plurality of heat exchanging plates (2a, 2b) and at least two end plates (3, 4) the heat exchanging plates (2a, 2b) creating plate interspaces between each other. Each one of the heat exchanging plates (2a, 2b) is provided with one or several corrugations and at least four port holes (9, 10, 13, 14) being parts of an inlet channel (11) and an outlet channel (12) through the core of plates for each one of the fluids. The inlet channels (11) and the outlet channels (12) for a first and a second fluid respectively are in fluid communication with a first (17) and a second (18) set of plate interspaces respectively. At least two of the said and next to each other situated heat exchanging plates (2a, 2b) in the present core of plates is each one provided with at least one trough-shaped section (19) which each one in cooperation with the respective adjacent heat exchanging plate (2a, 2b) creates a space which is sealed towards all fluids except a second fluid and which each one constitutes a part of the respective heat exchanging plate (2a, 2b) in such a way that the said part lacks port holes (9, 10, 13, 14) and that each one is made with a flangelike edge (22) extending around the hole circumference of the trough-shaped section (19).

IPC 1-7
F28F 3/08; **F24D 3/08**; **F24H 1/52**; **F28D 9/00**

IPC 8 full level
F28D 9/00 (2006.01); **F28F 3/08** (2006.01); **F24D 3/08** (2006.01)

CPC (source: EP KR)
F28D 9/005 (2013.01 - EP); **F28F 3/046** (2013.01 - EP); **F28F 3/08** (2013.01 - KR); **F24D 3/087** (2013.01 - EP)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0148433 A1 20010705; AT E293239 T1 20050415; AU 2570901 A 20010709; DE 60019456 D1 20050519; DE 60019456 T2 20060511; EP 1240469 A1 20020918; EP 1240469 B1 20050413; KR 20020071899 A 20020913; SE 515467 C2 20010813; SE 9904786 D0 19991223; SE 9904786 L 20010624

DOCDB simple family (application)
SE 0002683 W 20001222; AT 00989166 T 20001222; AU 2570901 A 20001222; DE 60019456 T 20001222; EP 00989166 A 20001222; KR 20027008148 A 20020622; SE 9904786 A 19991223