

Title (en)
Plate heat exchanger.

Title (de)
Plattenwärmeaustauscher.

Title (fr)
Echangeur de chaleur à plaques.

Publication
EP 0487931 B1 19950301 (DE)

Application
EP 91118684 A 19911102

Priority
DE 4037969 A 19901129

Abstract (en)
[origin: EP0487931A1] A plate heat exchanger is specified which has a plurality of mutually aligned plates (1), which are provided by embossing with a profiled pattern and are clamped, alternately rotated by 180 DEG with respect to one another, to form a stack with the profiled patterns, which are to be mutually aligned, of adjacent plates (1) touching, the plates (1) forming between themselves in an alternating fashion for a first medium and a second medium conducted essentially parallel thereto flow chambers which are surrounded by an at least partially detachable circumferential seal (16) and can be charged with the respective medium via mutually aligned feed and discharge openings (2, 3, 4, 5) formed by cutouts arranged in the corner regions of the plates. It is provided in this case that at least along a part of its longitudinal extent the detachable circumferential seal (16) is constructed as an at least two-tiered multiple seal (15, 16) from sealing profiles arranged at a distance from one another. <IMAGE>

IPC 1-7
F28F 3/10

IPC 8 full level
F28D 9/02 (2006.01); **F28F 3/08** (2006.01); **F28F 3/10** (2006.01)

CPC (source: EP US)
F28F 3/10 (2013.01 - EP US)

Cited by
EP0600189A1; CN103673696A; CN111412783A; FR2910607A1; DE10029999A1; DE19617396A1; DE19617396C2; US5829517A; US8544529B2; WO2008084174A3; JP2010513839A

Designated contracting state (EPC)
AT DE DK FR GB IT SE

DOCDB simple family (publication)
EP 0487931 A1 19920603; EP 0487931 B1 19950301; AT E119270 T1 19950315; DE 4037969 A1 19920604; DE 59104777 D1 19950406; DK 0487931 T3 19950522; JP H04273994 A 19920930; US 5193612 A 19930316

DOCDB simple family (application)
EP 91118684 A 19911102; AT 91118684 T 19911102; DE 4037969 A 19901129; DE 59104777 T 19911102; DK 91118684 T 19911102; JP 31508491 A 19911129; US 80048691 A 19911129