

Title (en)  
PANEL HEAT EXCHANGER

Publication  
**EP 0252275 A3 19880302 (DE)**

Application  
**EP 87107878 A 19870601**

Priority  
DE 3622316 A 19860703

Abstract (en)  
[origin: US4781248A] A heat exchanger comprising plates rotated by 180 DEG relative to one another and fastened into a stack is disclosed, in which the interstices between plates are supplied with the media via inlet and outlet openings at the corners of the plates and abut one another via projections from their profile, the profile including a middle, rectangular heat exchange zone and two adjoining triangular heat exchange zones. The profile of the triangular zones is formed by sections adjoining one another and having opposite embossing directions to form adjoining peaks and valleys, such that the sections of one embossing direction of one triangular zone abut the sections of the other embossing direction of the adjoining plates that are rotated by 180 DEG relative to the first, and between the rows of peaks and valleys are disposed flow channels connecting the plate openings with the rectangular heat exchange zone, the flow channels being adapted for communication with one another normal to the flow direction, by passage through the spacing of adjacent rays via channel segments.

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

IPC 8 full level  
**F28F 3/00** (2006.01); **F28D 9/00** (2006.01); **F28D 9/02** (2006.01); **F28F 3/04** (2006.01); **F28F 3/08** (2006.01)

CPC (source: EP US)  
**F28D 9/005** (2013.01 - EP US); **F28F 3/042** (2013.01 - EP US); **F28F 3/083** (2013.01 - EP US)

Citation (search report)

- [X] FR 2125471 A1 19720929 - ALFA LAVAL AB
- [Y] DE 1003773 B 19570307 - SCHMIDT & CLEMENS
- [A] FR 2202271 A1 19740503 - ALFA LAVAL AG [SE]
- [A] DE 3244547 A1 19840607 - GEA AHLBORN GMBH & CO KG [DE]
- [A] FR 2523287 A1 19830916 - LECOMTE ROBERT [FR]
- [A] WO 8301998 A1 19830609 - ALFA LAVAL AB [SE]
- [A] DE 3429491 A1 19860220 - GEA AHLBORN GMBH & CO KG [DE]
- [A] FR 1552439 A 19690103
- [A] GB 1486919 A 19770928 - APV CO LTD

Cited by  
DE102008013358A1; EP3745072A1; BE1005176A4; DE4301296A1; EP2420791A4; EP2257758A4; EP0548602A1; US5301747A; DE102004032353A1; EP3351886A1; DE102005026328A1; DE102005026328B4; JP2004504584A; CN108895866A; US7040387B2; US8887796B2; US10837717B2; WO2018133954A1; WO2015086343A1; WO2020239894A1; WO208680A1; US10989482B2; WO2009112128A1; US8770268B2

Designated contracting state (EPC)  
AT BE CH ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0252275 A2 19880113**; **EP 0252275 A3 19880302**; DE 3622316 C1 19880128; JP S6325494 A 19880202; US 4781248 A 19881101

DOCDB simple family (application)  
**EP 87107878 A 19870601**; DE 3622316 A 19860703; JP 16413787 A 19870702; US 5045787 A 19870518