

Title (en)  
Heat-exchanger of plate fin type.

Title (de)  
Platten- und Rippenwärmetauscher.

Title (fr)  
Echangeur de chaleur à plaques et à ailettes.

Publication  
**EP 0203458 A1 19861203 (EN)**

Application  
**EP 86106558 A 19860514**

Priority  
• JP 8447386 A 19860411  
• JP 10476885 A 19850515

Abstract (en)  
A plate fin heat exchanger having a first flow channel (A) and a second flow channel (B) which are formed by at least three flat plates (2) arranged in parallel with one another at a predetermined spacing and opposed side walls (3, 8) provided between the adjacent flat plates. A platelike wall (4) interconnecting the side walls (3) is provided within at least one of the first and second flow channels and has a multiplicity of projections (5) arched when seen from one side and formed by cutting the interconnecting wall and being projected upward and downward. Each of the arched projections is opposed to a fluid passage.

IPC 1-7  
**F28F 3/02**; **F28F 13/12**; **F28D 9/02**; **F28D 1/03**

IPC 8 full level  
**F28D 1/03** (2006.01); **F28F 3/02** (2006.01); **F28F 13/12** (2006.01)

CPC (source: EP)  
**F28D 1/0366** (2013.01); **F28F 3/027** (2013.01); **F28F 13/12** (2013.01); **F28D 2021/0089** (2013.01)

Citation (search report)  
• [X] US 1899080 A 19330228 - DALGLIESH HERBERT V  
• [Y] DE 1074063 B  
• [Y] FR 2365092 A1 19780414 - SULZER AG [CH]  
• [Y] US 4402362 A 19830906 - DUBROVSKY EVGENY V [SU]  
• [Y] FR 2536524 A1 19840525 - NIBART JEAN CLAIR [FR]  
• [A] GB 2132748 A 19840711 - NICHOLSON TERENCE PETER  
• [A] DE 3319440 A1 19841129 - SUMITOMO PRECISION PROD CO [JP]  
• [A] FR 2085173 A1 19711224 - NORD AVIAT  
• [A] DE 1104542 B 19610413 - MODINE MFG CO  
• [A] US 3768149 A 19731030 - SWANEY O  
• [A] FR 2495506 A1 19820611 - TRAKTORNY INST [SU]

Cited by  
DE3936800A1; EP0292968A1; ITPR20120081A1; FR2845153A1; CN100366999C; FR2845152A1; EP1406057A1; GB2345336A; AU738890B2; GB2345336B; ES2191524A1; EP0274058A3; DE102013010867A1; DE102013010867B4; FR3063767A1; US8579021B2; US10697312B2; US6951245B1; US7219719B2; WO2012052093A3; WO9911995A1

Designated contracting state (EPC)  
BE DE FR GB

DOCDB simple family (publication)  
**EP 0203458 A1 19861203**; **EP 0203458 B1 19880824**; DE 3660604 D1 19880929

DOCDB simple family (application)  
**EP 86106558 A 19860514**; DE 3660604 T 19860514