

Title (en)  
Counterflow heat exchanger

Title (de)  
Gegenstromwärmetauscher

Title (fr)  
Echangeur de chaleur à contre courant

Publication  
**EP 1296107 A3 20040721 (DE)**

Application  
**EP 02020924 A 20020919**

Priority  
DE 20115568 U 20010921

Abstract (en)  
[origin: EP1296107A2] The heat exchanger comprises hexagonal profiled plates (1) with two triangle profiles (6, 7) abutting two opposing sides (10, 11) of a rectangle profile. Flow communication can be achieved between the two triangle profiles. Individual profiled plates with at least one rectangle profile are arranged one above the other, forming channels (12-14) in between for two air flows.

IPC 1-7  
**F28D 9/00**; **F28F 3/04**

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

CPC (source: EP)  
**F28D 9/0068** (2013.01); **F28F 3/04** (2013.01); **F28F 2250/108** (2013.01)

Citation (search report)

- [X] EP 0844454 A1 19980527 - KLINGENBURG GMBH [DE]
- [X] GB 2158569 A 19851113 - UNIV BIRMINGHAM
- [X] PATENT ABSTRACTS OF JAPAN vol. 008, no. 140 (M - 305) 29 June 1984 (1984-06-29)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 12 26 December 1996 (1996-12-26)

Cited by  
CZ300999B6; CN103122740A

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

DOCDB simple family (publication)  
**EP 1296107 A2 20030326**; **EP 1296107 A3 20040721**; **EP 1296107 B1 20060419**; AT E323877 T1 20060515; DE 20115568 U1 20011122; DE 50206449 D1 20060524; ES 2262737 T3 20061201

DOCDB simple family (application)  
**EP 02020924 A 20020919**; AT 02020924 T 20020919; DE 20115568 U 20010921; DE 50206449 T 20020919; ES 02020924 T 20020919