

Title (en)

Heat exchange fin for heat exchanger with brazed plates, and heat exchanger using same

Title (de)

Wärmeaustauschrippe für Wärmetauscher mit hartgelöteten Platten und Wärmetauscher zu deren Verwendung

Title (fr)

Ailette d'échange thermique pour échangeur de chaleur à plaques brasées, et échangeur de chaleur correspondant

Publication

**EP 1172625 A3 20031119 (FR)**

Application

**EP 01401708 A 20010627**

Priority

FR 0009033 A 20000711

Abstract (en)

[origin: EP1172625A2] The heat exchanger fin system, made from corrugated and perforated or slitted metal sheet, has the main direction (F1) of its corrugations (14) lying at an oblique angle to its two lateral edges (13). The general direction (F2) with least resistance to the fluid flow forms a substantial angle with the main direction of corrugation and lies parallel to the lateral edges, while the sides of the corrugations have ridges to promote a transverse fluid movement relative to the general direction of least resistance and to create turbulence.

IPC 1-7

**F28F 3/02**; **F28F 13/12**; **F28D 9/00**

IPC 8 full level

**F28F 3/06** (2006.01); **F25J 3/00** (2006.01); **F28D 9/00** (2006.01); **F28D 9/02** (2006.01); **F28F 3/02** (2006.01); **F28F 13/12** (2006.01)

CPC (source: EP US)

**F25J 5/002** (2013.01 - EP US); **F28D 9/0068** (2013.01 - EP US); **F28D 9/0093** (2013.01 - EP US); **F28F 3/027** (2013.01 - EP US); **F25J 2290/32** (2013.01 - EP US); **F25J 2290/42** (2013.01 - EP US); **F28D 2021/0033** (2013.01 - EP US); **F28F 2250/108** (2013.01 - EP US)

Citation (search report)

- [X] DE 29622191 U1 19970213 - KTM KUEHLER GMBH [AT]
- [XY] US 4699209 A 19871013 - THOROGOOD ROBERT M [US]
- [A] US 3216495 A 19651109 - DOUGLAS JOHNSON
- [A] US 2990163 A 19610627 - FARRELL EUGENE F
- [A] EP 0338704 A1 19891025 - MITSUBISHI ALUMINIUM [JP]
- [A] EP 0129272 A1 19841227 - FDO TECHN ADVISEURS [NL]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 010, no. 126 (M - 477) 10 May 1986 (1986-05-10)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 14 31 December 1998 (1998-12-31)

Cited by

WO2019122676A1; CN103673719A; DE10247264A1; FR2844040A1; FR3075335A1; EP2045556A3; US8418752B2

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DOCDB simple family (application)

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