

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 A2 20020116 (FR)

Application

EP 01401708 A 20010627

Priority

FR 0009033 A 20000711

Abstract (en)

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.

Abstract (fr)

Cette ailette (9) comprend un produit ondulé perforé et/ou crevé qui présente une direction principale d'ondulation (F1) et qui est délimité par deux bords latéraux (13). La direction principale d'ondulation (F1) est oblique par rapport aux deux bords latéraux (13). Application aux lignes d'échange thermique principales des installations de distillation d'air. <IMAGE>

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)

Cited by

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

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1172625 A2 20020116; **EP 1172625 A3 20031119**; CA 2352632 A1 20020111; CN 1333451 A 20020130; FR 2811747 A1 20020118; FR 2811747 B1 20021011; JP 2002062085 A 20020228; US 2002011331 A1 20020131

DOCDB simple family (application)

EP 01401708 A 20010627; CA 2352632 A 20010706; CN 01122380 A 20010711; FR 0009033 A 20000711; JP 2001207763 A 20010709; US 90169501 A 20010711