

Title (en)

HEAT EXCHANGER TUBE AND METHOD OF ITS MANUFACTURE

Title (de)

WÄRMETAUSCHERROHR UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

TUBE POUR ECHANGEUR DE CHALEUR ET PROCEDE DE FABRICATION DE CE DERNIER

Publication

EP 0907062 A4 19991124 (EN)

Application

EP 98911038 A 19980326

Priority

- JP 9801370 W 19980326
- JP 9520597 A 19970328

Abstract (en)

[origin: WO9844306A1] A heat exchanger tube which has two flat plate parts defining therebetween a passage through which heat exchanging media flow and a folded part which is formed by folding at least one end part of at least one flat plate part so as to have a thickness which is an integral multiple of that of the flat plate part. The folded part and the corresponding end in the widthwise direction of the other flat plate part are joined together. The obtained tube has such features that the junction strength of the joined part is high enough to ensure high pressure resistance, that the internal dimensions of the tube can be changed easily and accurately, that flux can be applied sufficiently to necessary positions for soldering, and that it can facilitate the adoption of a reinforced structure at the central part in the widthwise direction of the tube.

IPC 1-7

F28F 1/02; **F28F 1/40**; **B21D 53/02**

IPC 8 full level

B21C 37/15 (2006.01); **F28D 1/03** (2006.01); **F28F 1/00** (2006.01); **F28F 1/02** (2006.01); **F28F 1/10** (2006.01); **F28F 1/40** (2006.01); **F28F 3/04** (2006.01)

CPC (source: EP)

B21C 37/151 (2013.01); **F28D 1/0316** (2013.01); **F28D 1/0391** (2013.01); **F28F 1/40** (2013.01); **F28F 3/044** (2013.01); **F28F 3/046** (2013.01); **F28F 3/048** (2013.01)

Citation (search report)

- [XY] GB 683161 A 19521126 - MORRIS MOTORS LTD
- [Y] EP 0283937 A1 19880928 - NIHON RADIATOR CO [JP]
- [Y] EP 0457470 A1 19911121 - SHOWA ALUMINIUM CO LTD [JP] & JP H0486489 A 19920319 - SHOWA ALUMINUM CORP
- [A] GB 2223091 A 19900328 - CALSONIC CORP [JP]
- [A] US 2009863 A 19350730 - TRANE REUBEN N
- See references of WO 9844306A1

Cited by

CN102636062A; CN102636066A; DE102014108463A1; DE102014108463B4; DE102006035210A1; DE102006035210B4; EP1065466A3; US2009173485A1; CN102636064A; EP1060808A3; CN106931818A; GB2404241A; EP1835250A3; EP1139052A3; EP1521050A3; EP3665428A4; US8191258B2; US8683690B2; US8438728B2; US7921559B2; US6640886B2; US8726508B2; WO2007027318A1; US8091621B2; US8281489B2; US6510870B1; US6957487B1; US6935418B1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

WO 9844306 A1 19981008; EP 0907062 A1 19990407; EP 0907062 A4 19991124; JP H10274489 A 19981013

DOCDB simple family (application)

JP 9801370 W 19980326; EP 98911038 A 19980326; JP 9520597 A 19970328