

Title (en)

Profiled tube having an elliptical or lancet-shaped cross-section, for use in tubular heat exchangers, and method for its manufacture.

Title (de)

Profilröhrchen mit elliptischem oder lanzettförmigem Querschnitt für Röhrchenwärmetauscher und Verfahren zur Herstellung.

Title (fr)

Tube profilé ayant une section elliptique ou lancéolée destiné à être utilisé dans des échangeurs de chaleur tubulaires et son procédé de fabrication.

Publication

EP 0239814 B1 19931103 (DE)

Application

EP 87102993 A 19870303

Priority

DE 3610618 A 19860329

Abstract (en)

[origin: US4766953A] A shaped tube with an elliptical cross-section with a multichamber design for tubular heat exchangers is provided with at least two cross ribs passing through an interior space of the tube at a distance from one another. A method for making this tube provides for bending an endless metal strip into two semifinished products with congruent profiles. Each profile has the shape of an isosceles triangle with rounded vertices and an elongated leg. The semifinished products are then placed against one another so that the free end of the elongated leg of one semifinished product abut the triangle base edge of the other semifinished product.

IPC 1-7

B21C 37/15; **B21D 53/04**; **F28F 1/02**

IPC 8 full level

B21C 37/15 (2006.01); **B21D 53/04** (2006.01); **F28F 1/02** (2006.01)

CPC (source: EP US)

B21C 37/151 (2013.01 - EP US); **F28F 1/022** (2013.01 - EP US); **Y10T 29/49366** (2015.01 - EP US)

Cited by

FR2787180A1; US6230533B1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0239814 A2 19871007; **EP 0239814 A3 19900321**; **EP 0239814 B1 19931103**; DE 3610618 A1 19871001; DE 3787984 D1 19931209; ES 2047478 T3 19940301; JP H0739915 B2 19950501; JP S62233690 A 19871014; US 4766953 A 19880830

DOCDB simple family (application)

EP 87102993 A 19870303; DE 3610618 A 19860329; DE 3787984 T 19870303; ES 87102993 T 19870303; JP 6589887 A 19870323; US 2967187 A 19870324