

Title (en)

Tube-in-tube heat exchanger and process for producing same

Title (de)

Doppelrohrwärmetauscher und Verfahren zu seiner Herstellung

Title (fr)

Echangeur de chaleur à tubes doubles et procédé pour sa fabrication

Publication

EP 0732560 B1 20010523 (DE)

Application

EP 96103446 A 19960306

Priority

DE 19509788 A 19950317

Abstract (en)

[origin: EP0732560A2] A turbulence device (8) can be inserted in the flow-channel. At least one all-round bulge-type union (9,10) is provided at both ends of the tubes (1,2) extending from at least one of the tubes. The height of the union corresponds to the difference of the radii of the inner wall of the outer and the outer wall of the inner tube. The union can be soldered to the tube wall with the turbulence device. Each union is pressed out of the material of the tube. One tube is smooth and the other at its two ends is formed with a bulge. The union can be produced by rolling in the end of the tube.

IPC 1-7

F28D 7/10

IPC 8 full level

F28D 7/10 (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP US)

F28D 7/106 (2013.01 - EP US); **F28F 9/0234** (2013.01 - EP US); **Y10S 165/916** (2013.01 - EP)

Cited by

EP0840081A3; US6029348A; EP0846931A3; US6206089B1

Designated contracting state (EPC)

DE ES FR GB SE

DOCDB simple family (publication)

EP 0732560 A2 19960918; **EP 0732560 A3 19971029**; **EP 0732560 B1 20010523**; DE 19509788 A1 19960919; DE 59606931 D1 20010628; US 5732769 A 19980331

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EP 96103446 A 19960306; DE 19509788 A 19950317; DE 59606931 T 19960306; US 61093796 A 19960305