

Title (en)

ARRANGEMENT FOR PRESSURE-SEALED INSTALLATION OF A TUBE IN A TUBE SHEET BY MEANS OF A PRESSURIZED FLUID

Publication

EP 0058385 B1 19850619 (DE)

Application

EP 82100962 A 19820210

Priority

DE 3105735 A 19810217

Abstract (en)

[origin: ES8301694A1] An apparatus for expanding tube ends in a tube sheet of a heat exchanger tube bundle comprises a mandrel which can be inserted into the tube end and an expansion pressure generator connected to said mandrel. A source of filling liquid is also connected to the mandrel to the expansion pressure generator which has a port for the filling liquid selectively blocked by the plunger of the expansion pressure generator so that problems with check valves for the filling can be obviated.

IPC 1-7

B21D 39/06; **B21D 39/20**

IPC 8 full level

B21D 39/06 (2006.01); **B21D 39/20** (2006.01); **B21D 53/06** (2006.01)

CPC (source: EP US)

B21D 39/203 (2013.01 - EP US); **Y10T 29/49805** (2015.01 - EP US); **Y10T 29/4994** (2015.01 - EP US); **Y10T 29/53122** (2015.01 - EP US)

Cited by

EP0125681A3; CN109396538A

Designated contracting state (EPC)

AT BE CH FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0058385 A1 19820825; **EP 0058385 B1 19850619**; AR 228637 A1 19830330; AT E13823 T1 19850715; AU 548570 B2 19851219; AU 8052582 A 19820826; BR 8200819 A 19821228; CA 1174573 A 19840918; CS 235531 B2 19850515; DD 201979 A5 19830824; DE 3105735 A1 19820826; DE 3105735 C2 19830526; ES 509639 A0 19830116; ES 8301694 A1 19830116; JP S57152334 A 19820920; PL 137800 B1 19860731; PL 235098 A1 19820913; RO 83450 A 19840221; RO 83450 B 19840228; US 4485547 A 19841204; YU 33182 A 19850320; ZA 82754 B 19821229

DOCDB simple family (application)

EP 82100962 A 19820210; AR 28839282 A 19820210; AT 82100962 T 19820210; AU 8052582 A 19820216; BR 8200819 A 19820216; CA 396325 A 19820216; CS 105782 A 19820216; DD 23747882 A 19820217; DE 3105735 A 19810217; ES 509639 A 19820216; JP 2291682 A 19820217; PL 23509882 A 19820216; RO 10664882 A 19820216; US 34925982 A 19820216; YU 33182 A 19820216; ZA 82754 A 19820205