

Title (en)

Protection device for cleaning of tubular heat exchangers by means of high-pressure flexible pipe

Title (de)

Schutzvorrichtung zum Reinigen von Rohrbündelwärmetauschern durch Hochdrucklanze

Title (fr)

Dispositif de protection pour nettoyage par lance à haute pression d'échangeurs de chaleur tubulaires

Publication

EP 1669711 A1 20060614 (EN)

Application

EP 04380252 A 20041207

Priority

EP 04380252 A 20041207

Abstract (en)

The purpose of this device is to achieve that the tubes cleaning process of tubular heat exchangers by means of high-pressure flexible hose is safe, adaptable to heat exchangers of various sizes by simple and comfortable management. The device consists of a guide pipe (16) that is fixed to the flange (22) of the exchanger by means of the positioning and tightness of two jaw clamps (21). Along the guide pipe (16), and guided by it, is displaced a module (3,14) provided with rotational displacement which advances manually until being aligned with the tube to clean by combination of both displacements. Said module (3,14) has rollers (1) as retaining and guidance element of the cleaning hose (4) in addition to a capture system of projected particles.

IPC 8 full level

F28G 1/16 (2006.01); **F28G 15/02** (2006.01)

CPC (source: EP)

F28G 1/163 (2013.01); **F28G 15/02** (2013.01)

Citation (search report)

- [XY] FR 1426813 A 19660128 - VACU BLAST LTD
- [Y] WO 02059538 A1 20020801 - VANHATALO TIMO [FI]
- [Y] US 1874452 A 19320830 - COLE FRANK H
- [A] US 1867751 A 19320719 - OBERHUBER WILLIAM F
- [A] EP 0803697 A2 19971029 - BUCHEN GMBH RICHARD [DE]

Cited by

US11294399B2; US11300981B2; EP3601928A4; US11327511B2; US11360494B2; US11789471B2; US11709507B2; US11934215B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1669711 A1 20060614; ES 2269018 T1 20070401

DOCDB simple family (application)

EP 04380252 A 20041207; ES 04380252 T 20041207