

Title (en)

A system for sealed coupling and clamping of a tank to the manifold of a heat exchanger

Title (de)

System zur Verbindung und Klemmen eines Endkammers mit der Endplatte eines Wärmetauschers

Title (fr)

Système de connection et de serrage d'une chambre collectrice avec une plaque tubulaire d'un échangeur de chaleur

Publication

EP 1367352 A1 20031203 (EN)

Application

EP 02027918 A 20021213

Priority

IT TO20020448 A 20020527

Abstract (en)

The system enables coupling and clamping of a tank (1) to an end manifold (2) of a heat exchanger with interposition of an elastically compressible sealing gasket (7). The system comprises a first plurality of aligned external formations (3), pre-arranged along a rim portion of the tank (1), and a second plurality of aligned external formations (4), pre-arranged along a corresponding rim portion of the manifold (2). The arrangement of the first formations (3) and the second formations (4) is such that the former (3) can be interspersed between the latter (4) when the tank (1) is fitted to the manifold (2) with interposition of said gasket (7), and the former formations (3) can be set at least partly beyond the latter formations (4) as a result of a further approach of the tank (1) to the manifold (2) designed to cause an elastic compression of the interposed gasket (7) in such a way that, between said first formations (3) and said second formations (4), there is defined a passage (8), which is essentially parallel to the direction of alignment of said formations (3, 4). At least one clamping member (9) is set in said passage (8) and is withheld between the first formations (3) and the second formations (4) and is gripped therein as a result of the elastic reaction of the gasket (7). <IMAGE>

IPC 1-7

F28F 9/02

IPC 8 full level

F28F 9/02 (2006.01)

CPC (source: EP)

F28F 9/0226 (2013.01); **F28F 2275/08** (2013.01)

Citation (search report)

- [X] GB 1303040 A 19730117
- [X] US 5845705 A 19981208 - VINH BINH [US], et al

Cited by

FR2867553A1; CN109844441A; WO2005088224A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1367352 A1 20031203; AR 038850 A1 20050126; BR 0300850 A 20040817; IT TO20020448 A0 20020527; IT TO20020448 A1 20031127; PL 359253 A1 20031201

DOCDB simple family (application)

EP 02027918 A 20021213; AR P030100638 A 20030227; BR 0300850 A 20030327; IT TO20020448 A 20020527; PL 35925303 A 20030320