

Title (en)

Tank header plate connection.

Title (de)

Verbindung zwischen Endkammer und Endplatte.

Title (fr)

Liaison entre une boîte de distribution et une plaque d'extrémité.

Publication

EP 0169632 A1 19860129 (EN)

Application

EP 85303220 A 19850507

Priority

- US 62653884 A 19840628
- US 63189384 A 19840713

Abstract (en)

A connection for securing a tank (10) to a header plate (12) in a heat exchanger. A metal header plate (12) is provided with a peripheral groove (28) having a bottom wall (32) and an upstanding side wall (30). A compressible gasket (40) is received in the groove (28) to compress the gasket (40). A plurality of tabs (42) are deformed from the side wall (30) to overlie a side (22) of the flange (20) of the tank (10). The tabs (42) are generally egg-shaped or spherical and have free edges (44) engaging the flange (20) to provide excellent resistance to deformation.

IPC 1-7

F28F 9/02; B23P 11/00

IPC 8 full level

F28F 9/02 (2006.01)

CPC (source: EP)

F28F 9/0226 (2013.01); **F28F 2275/122** (2013.01)

Citation (search report)

- [YD] US 4331201 A 19820525 - HESSE WOLFGANG
- [Y] GB 2075633 A 19811118 - TEVES GMBH ALFRED
- [Y] FR 2422921 A1 19791109 - THERMAL WAERME KAELTE KLIMA [DE]
- [A] FR 2070448 A5 19710910 - CHAUSSON USINES SA
- [A] EP 0055656 A2 19820707 - BENDIX CORP [US]
- [AD] US 4378174 A 19830329 - HESSE WOLFGANG [DE]

Cited by

EP0300857A1; EP0372187B1

Designated contracting state (EPC)

AT DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0169632 A1 19860129; **EP 0169632 B1 19880210**; **EP 0169632 B2 19930505**; CA 1247591 A 19881228; DE 3561606 D1 19880317; JP H072778 U 19950117; JP H0729415 Y2 19950705

DOCDB simple family (application)

EP 85303220 A 19850507; CA 480416 A 19850430; DE 3561606 T 19850507; JP 127494 U 19940202