

Title (en)

CONNECTION OF METALLIC HEAT EXCHANGER TUBES TO THE BOTTOM OF A WATER BOX

Publication

EP 0108958 B1 19860326 (DE)

Application

EP 83110458 A 19831020

Priority

DE 3242072 A 19821113

Abstract (en)

[origin: EP0108958A2] 1. Arrangement for connecting metal tubes of a heat exchanger with a tube plate of a water tank, the tube plate consisting of synthetic plastics material and being an integral component part of the water tank, characterised in that the tubes (8, 18) are fixed in the water tank (1) by being axially pressed into apertures (6) in the tube plate (2) and sealed, the apertures (6) having one or a plurality of peripherally extending grooves (19) and in that prior to the tubes (8, 18) being pressed into position, at least a part of the apertures has a smaller diameter than the outside diameter of the tubes, a strong press-fit being created by the tube ends (7) being pressed axially into the apertures (6).

IPC 1-7

F28F 9/16

IPC 8 full level

F28F 9/16 (2006.01); **F28F 21/06** (2006.01)

CPC (source: EP)

F28F 9/16 (2013.01); **F28F 9/162** (2013.01); **F28F 21/067** (2013.01)

Citation (examination)

- DE 2435632 B2 19800313
- DE 2448338 A1 19760415 - BAYER AG

Cited by

GB2235973A; US6142217A; EP0514249A1; FR2676534A1; US5214848A; WO9850749A1; EP0561514B1; KR101283406B1

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