

Title (en)  
WATER HEATER CONSTRUCTION AND METHOD OF MANUFACTURE

Publication  
**EP 0156228 B1 19890607 (EN)**

Application  
**EP 85102750 A 19850311**

Priority  
US 59538884 A 19840330

Abstract (en)  
[origin: EP0156228A2] A water heater tank assembly having a shell with top and bottom heads welded in opposite ends thereof. The heads have aligned flue tube mounting openings therein in which metal collar members are welded. Flue tubes are mounted in and welded to the collar members. The collar members serve as a heat sink to prevent damage to the glass lining on the shell, head members and flue tubes during the various welding operations.

IPC 1-7  
**F24H 1/18; F28F 9/18**

IPC 8 full level  
**F24H 9/00** (2006.01); **F24H 1/18** (2006.01); **F24H 1/20** (2006.01); **F28F 9/18** (2006.01)

CPC (source: EP)  
**F24H 1/181** (2013.01); **F24H 1/205** (2013.01); **F28F 9/185** (2013.01)

Cited by  
US4783896A; US4838208A; EP0244946A3; US4879801A; WO8804392A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0156228 A2 19851002; EP 0156228 A3 19860611; EP 0156228 B1 19890607**; AT E43899 T1 19890615; AU 3941485 A 19851003; AU 576826 B2 19880908; CA 1264621 A 19900123; DE 3570914 D1 19890713; JP H0575934 B2 19931021; JP S616539 A 19860113

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**EP 85102750 A 19850311**; AT 85102750 T 19850311; AU 3941485 A 19850301; CA 474131 A 19850212; DE 3570914 T 19850311; JP 6836385 A 19850330