

Title (en)  
Cast-iron sectional boiler

Title (de)  
Gusseiserner Gliederheizkessel

Title (fr)  
Chaudière sectionnée en fonte

Publication  
**EP 0693661 B1 19970716 (DE)**

Application  
**EP 95109174 A 19950614**

Priority  
DE 4425302 A 19940718

Abstract (en)  
[origin: EP0693661A1] The water heater is assembled from a number of cast modules. It has a central burner chamber (2) and smaller exhaust gas ducts (3) to spread the heating effect to the water ducts (1). The heater is assembled with the burner chamber horizontal. The heated water rises to a manifold at the top where some of the heated water is mixed with cool return water in special mixing zones (10) formed by guide ribs (11) in the casting. The modules are assembled via top (4) and bottom (14) clamping holes. The shaped guide ribs deflect some of the rising heated water to mix with the cool return flow. The cast ribs can be replaced by a metal insert tube with holes designed to inject cool water into the modules.  
<IMAGE>

IPC 1-7  
**F24H 9/12**; **F24H 1/32**; **F24H 9/00**

IPC 8 full level  
**F24H 1/32** (2006.01); **F24H 9/00** (2006.01); **F24H 9/12** (2006.01)

CPC (source: EP)  
**F24H 1/32** (2013.01); **F24H 9/0036** (2013.01); **F24H 9/13** (2022.01)

Cited by  
EP1686328A1; CZ307039B6; EP0825393A3; PL127770U1; DE102004061824B3; EP0870998A1; FR2762075A1; DE212017000127U1; WO2017190716A3

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

DOCDB simple family (publication)  
**EP 0693661 A1 19960124**; **EP 0693661 B1 19970716**; AT E155571 T1 19970815; DE 4425302 A1 19960125; DE 4425302 C2 19980806; DE 59500387 D1 19970821

DOCDB simple family (application)  
**EP 95109174 A 19950614**; AT 95109174 T 19950614; DE 4425302 A 19940718; DE 59500387 T 19950614