

Title (en)  
Boilers.

Title (de)  
Kessel.

Title (fr)  
Chaudières.

Publication  
**EP 0631094 A1 19941228 (EN)**

Application  
**EP 94304510 A 19940621**

Priority  
GB 9313273 A 19930628

Abstract (en)  
A boiler having a main heat exchanger (1) for heating water to be circulated under control of a diverter valve (4) through either a central heating system or a plate heat exchanger (2) for heating domestic hot water, is provided with an expansion vessel (3) including gas and water chambers (15, 16) separated by a diaphragm. The water chamber includes inlet ports (7, 8) for receiving returning circulated water from the plate heat exchanger (2) and the central heating system; and an outlet port (21) communicating with a pump chamber having a discharge port (24) connected to the inlet of the main heat exchanger. Thus, circulating water passes through the water chamber of the expansion vessel which serves as a manifold allowing simplification of the pipework within the boiler. <IMAGE>

IPC 1-7  
**F24D 3/10**; **F24H 9/14**

IPC 8 full level  
**F24D 3/10** (2006.01); **F24H 9/14** (2006.01)

CPC (source: EP)  
**F24D 3/1008** (2013.01); **F24D 3/1016** (2013.01); **F24H 9/14** (2013.01); **F24H 9/148** (2013.01)

Citation (search report)

- [X] DE 8529850 U1 19860102
- [X] CH 520900 A 19720331 - ATROL ARMATUREN GES MIT BESCHR [DE]
- [A] FR 1346034 A 19631213
- [A] FR 2606127 A1 19880506 - MULLER CIE [FR]

Cited by  
GB2342429A; GB2555425A; GB2555425B; WO2006070282A3; WO2018078341A1

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

DOCDB simple family (publication)  
**EP 0631094 A1 19941228**; GB 9313273 D0 19930811

DOCDB simple family (application)  
**EP 94304510 A 19940621**; GB 9313273 A 19930628