

Title (en)  
Combined heating boiler with improved performance

Title (de)  
Kombinierter Kessel mit verbesserter Leistung

Title (fr)  
Chaudière mixte avec performance améliorée

Publication  
**EP 0740113 A1 19961030 (EN)**

Application  
**EP 96201018 A 19960416**

Priority  
NL 1000210 A 19950424

Abstract (en)  
The invention relates to a combination boiler suitable for heating heating water circulating in an external heating circuit and for heating tap water, comprising: a heating unit (1) for heating at least water circulating in a heating circuit; a buffer tank (8) for storing a quantity of heated water, and an additional heating device (10) for the tap water. As a result of this additional heating device (10), which can have a small volume, it is possible, when the temperature of water coming from the buffer tank (8) falls, to add to the drained tap water an amount of heat which is small but which becomes increasingly larger. It is thus possible to temporarily increase the capacity of the boiler while retaining the original boiler design. According to a first preferred embodiment the buffer tank (8) is adapted to store a quantity of heated tap water, wherein the buffer tank (8) is provided with a first heating element included in the heating circuit. <IMAGE>

IPC 1-7  
**F24D 3/08**

IPC 8 full level  
**F24D 3/08** (2006.01)

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**F24D 3/08** (2013.01)

Citation (search report)  
• [X] EP 0098450 A2 19840118 - VAILLANT JOH GMBH & CO [DE]  
• [X] GB 2218498 A 19891115 - UNITED HOUSE GROUP LIMITED [GB]  
• [X] DE 9313023 U1 19931007 - VAILLANT JOH GMBH & CO [DE]  
• [X] CH 155370 A 19320630 - EBERSOLD PAUL [CH]

Cited by  
GB2330649A; JP2016080183A; EP2573471A1; EP0943877A3; NL1037113C2; GB2365953A; GB2365953B; JP2020106227A; WO2018052524A1; WO2019198006A1; WO2009022226A3; US10914475B2; US11603996B2

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