

Title (en)  
BOILER EQUIPPED WITH A DOWNSTREAM BURNER

Publication  
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Application  
**EP 90102287 A 19900206**

Priority  
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Abstract (en)  
[origin: EP0385137A2] The invention relates to a boiler equipped with a downstream burner, with waste gas temperature regulation, which consists of a water-bearing housing (1) with a combustion chamber (2) which is surrounded by an annular heating gas flue (5) which leads to the smoke gas take-off and is divided into individual flues (4) by a large number of longitudinal ribs (3). In the region on the take-off side, there is arranged a sealing flap (6) which is adjustable depending upon the waste gas temperature and covers one or more individual flues (4). According to the invention, such a boiler equipped with a downstream burner is designed in such a manner that there is arranged in front of the sealing flap (6) in the heating gas flue (5) a longitudinal rib-free smoke gas duct (7) with a width which corresponds at least to the width of three individual flues (4). The width and cross-sectional shape of the sealing flap (6) corresponds at the same time to the cross-section of the smoke gas duct (7). The flap (6) is provided with a bimetallic regulator (8). The smoke gas duct (7) is arranged below the mouth (12) of the waste gas connection piece (9) and the bimetallic regulator (8) of lever-like design is fastened with its flap-free end (13) in the waste gas connection piece (9). <IMAGE>

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**F24H 9/0031** (2013.01); **F24H 9/0036** (2013.01)

Citation (search report)  
• [Y] DE 3536627 A1 19870416 - SIEGER HEIZKESSELWERK GMBH [DE]  
• [Y] DE 8703930 U1 19870430  
• [A] DE 3304455 A1 19840809 - ABIG WERKE CARRY GROSS GMBH [DE]  
• [A] DE 3442467 A1 19860528 - KOERTING AG [DE]

Cited by  
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