

Title (en)  
GAS OR OIL FIRED WATER-HEATING OR STEAM-GENERATING BOILER

Publication  
**EP 0079980 B1 19850417 (DE)**

Application  
**EP 81109856 A 19811124**

Priority  
EP 81109856 A 19811124

Abstract (en)  
[origin: EP0079980A1] 1. Warm water, hot water or steam boiler having gas or oil firing, in particular for heat supply to small and medium consumers, in which the flue surfaces bounding the combustion chamber are formed as a membrane wall consisting of annular tubes (11) receiving the heat-carrying medium which are connected together by thin plates, characterised in that the flue (1) is formed as a body of revolution having a changing cross-section corresponding to the amount of heat flow and is outwardly surrounded by a convective heat transfer surface (2) which is adapted to its shape and is also formed as a membrane wall and forms a flue gas channel (3), the annular tubes (11) of the membrane wall of the flue (1) being arranged offset relative to the annular tubes (12) of the membrane wall of the convective heat transfer surface (2).

IPC 1-7  
**F24H 1/40**

IPC 8 full level  
**F24H 1/40** (2006.01)

CPC (source: EP)  
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Cited by  
US6606969B2; WO0151867A3; JP4819276B2

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**EP 0079980 A1 19830601; EP 0079980 B1 19850417; AT E12827 T1 19850515; DE 3170035 D1 19850523**

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