

Title (en)

Atmospheric gasboiler for central heating

Title (de)

Atmosphärischer Gaskessel für Zentralheizung

Title (fr)

Chaudière atmosphérique à gaz pour chauffage central

Publication

EP 0599796 B1 19970122 (FR)

Application

EP 93870220 A 19931118

Priority

BE 9201015 A 19921123

Abstract (en)

[origin: EP0599796A1] A sectional cast-iron boiler with an atmospheric gas burner for central heating, which makes it possible to achieve extremely low emissions of nitrogen monoxide and carbon monoxide, comprises a series of plates (2), the walls of which in contact with the burnt gases are lined with cast-iron studs (9) of oblong cross-section truncated at the top (10) which are arranged in a zig-zag manner in relation to a vertical axis. The length of the studs (9) is essentially equal to half the spacing between two adjacent plates (2) and increases from the bottom to the top so as to constitute obstacles which ensure the turbulence of a rising flow of burnt gases in three orthogonal directions and the evaporation of the droplets of condensed water which fall onto the truncated top (10) of the studs (9), and the bottom of the combustion chamber (7) is covered with a steel sheet (19) which has perforations (30). <IMAGE>

IPC 1-7

F24H 1/38; **F24H 9/00**; **F28F 3/02**

IPC 8 full level

F24H 1/38 (2006.01); **F24H 9/00** (2006.01); **F28F 3/02** (2006.01)

CPC (source: EP)

F24H 1/38 (2013.01); **F24H 9/0026** (2013.01); **F28F 3/022** (2013.01)

Cited by

EP1108963A3; EP1136764A3; GB2381306A; GB2381306B

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EP 0599796 A1 19940601; **EP 0599796 B1 19970122**; AT E148215 T1 19970215; BE 1006365 A5 19940802; DE 69307665 D1 19970306; DE 69307665 T2 19970904

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