

Title (en)
HEATING BOILER BURNING LIQUID OR GASEOUS FUELS

Publication
EP 0431314 A3 19910731 (DE)

Application
EP 90120992 A 19901102

Priority
DE 3940165 A 19891205

Abstract (en)
[origin: EP0431314A2] The heating boiler is intended for burning liquid or gaseous fuels and consists of a water-bearing housing (1), in which a firebox (3) fitted with the burner (2) is arranged, from which firebox a number of waste gas flues (4), which extend through the water-bearing housing (1), lead to the waste gas collecting chamber (5), in which flues waste gas displacement members (6) are arranged for the purpose of forming elongate annular cylindrical waste gas flues (7). In order to be able, on such a boiler, to bring about waste gas recycling using the most simple means, the heating boiler is according to the invention designed in such a manner that, in at least one of the waste gas flues (4), the displacement member (6) is designed as a waste gas return pipe (20) which opens freely in the waste gas collecting chamber (5) and the other end (8) of which is connected to a connection opening (9) of the firebox closure (10) and, from there, is connected to the burner (2). <IMAGE>

IPC 1-7
F23C 9/00

IPC 8 full level
F23C 9/00 (2006.01); **F24H 1/28** (2006.01); **F24H 9/00** (2006.01)

CPC (source: EP)
F23C 9/00 (2013.01); **F24H 1/285** (2013.01)

Citation (search report)
• [A] EP 0296276 A2 19881228 - VIESSMANN HANS
• [A] DE 8516607 U1 19850725
• [AD] H.L.H., Band 40, Nr. 2, Februar 1989, Seiten 78,79; R. RUSTERHOLTZ: "Stickoxide konstruktiv vermindert"

Cited by
EP0535331A1

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

DOCDB simple family (publication)
EP 0431314 A2 19910612; EP 0431314 A3 19910731; EP 0431314 B1 19930303; AT E86369 T1 19930315; DE 3940165 C1 19910418

DOCDB simple family (application)
EP 90120992 A 19901102; AT 90120992 T 19901102; DE 3940165 A 19891205