

Title (en)

BOILER WITH EXHAUST GAS RECIRCULATION TO THE BURNER

Publication

EP 0428117 B1 19931006 (DE)

Application

EP 90121659 A 19901113

Priority

DE 3938090 A 19891116

Abstract (en)

[origin: EP0428117A2] The boiler with exhaust gas recirculation to the burner consists of a water-bearing housing (17), through which there extends a tubular flue (1) which surrounds the fire box and is sealed on the takeoff side with a flue gas collecting chamber (18) and on the burner side with a sealing door (6) supporting the burner (13) and in which a pot-shaped reversing-type combustion chamber (2) is arranged, which inwardly delimits an at least single-flue annular cylindrical heating gas flue. According to the invention, such a boiler is designed in such a manner that there is arranged in the tubular flue (1) between the same and the pot-shaped reversing-type combustion chamber (2) an exhaust gas flowback duct (3) which extends over the whole or approximately the whole length (L) of the tubular flue (1). This exhaust gas flowback duct (3) is connected with its open end (4), by means of an exhaust gas flowback opening (5) in the sealing door (6), to the suction side of the burner blower arranged on the sealing door (6) and projects with the other open end (7) into the flue gas collecting chamber (18). <IMAGE>

IPC 1-7

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IPC 8 full level

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