

Title (en)

FORCED DRAUGHT BURNER FOR HEATING BOILER WITH WASTE GAS RECIRCULATION

Publication

EP 0415037 A3 19910814 (DE)

Application

EP 90113114 A 19900710

Priority

DE 3928384 A 19890828

Abstract (en)

[origin: EP0415037A2] The forced draught burner is intended for heating boilers with waste gas recirculation and consists of a housing (1) which is open on the heating boiler side and can be placed on a heating boiler sealing plate (8) and in which a mixing pipe (10) with nozzle connection and a blower wheel (7) are arranged on a shaft (5) of the drive motor, which is perpendicular to the opening plane of the housing (1). The blower wheel (7) is assigned, for conveying air, an air inflow opening (28) in the adjacent wall of the housing (1). The wheel chamber (3) is connected to the interior of the mixing pipe (10). In order to ensure completely separate air and waste gas guidance and conveyance on short paths inside the burner, the latter is designed according to the invention in such a manner that the housing (1) is divided by a partition (6) which is passed through by the nozzle connection (4) and the shaft (5), forming a sealing plate-side waste gas chamber (2) and the wheel chamber (3) extending parallel thereto. In the waste gas chamber (2), a further wheel (7') is arranged on the shaft (5) projecting into the chamber, or connected thereto. The wheel (7') is assigned on the suction side in the heating boiler sealing plate (8) a waste gas suction opening (9). The waste gas chamber (2) is connected to the interior of the mixing pipe (10). <IMAGE>

IPC 1-7

F23D 11/00; **F23C 9/00**

IPC 8 full level

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CPC (source: EP US)

F23C 9/00 (2013.01 - EP US); **F23D 11/001** (2013.01 - EP US)

Citation (search report)

- [APD] DE 3820671 A1 19891221 - VISSMANN WERKE KG [DE]
- [A] DE 2365186 A1 19750710 - ELCO OELBRENNERWERK AG
- [A] DE 1551733 A1 19700416 - SCHWARZE ERHARD, et al
- [A] FR 2208504 A5 19740621 - KABOFIRE SA [FR]

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