

Title (en)

Solid fuel steel construction boiler for domestic heating applications.

Title (de)

Mit Festbrennstoff befeuerter Stahlheizkessel für Hausheizungen.

Title (fr)

Chaudière en acier à combustible solide pour chauffage domestique.

Publication

EP 0084852 A2 19830803 (EN)

Application

EP 83100440 A 19830119

Priority

- IT 1810282 A 19820126
- IT 1966282 U 19821217

Abstract (en)

The involved technical field is that of boilers, and the invention concerns a solid fuel steel construction boiler for domestic heating applications. The technical problem was that of providing a boiler wherein the combustion process could be controlled through an automatic control system. The solution provides for the interior space of the boiler, which is enclosed in a water curtain interspace, to be elongated vertically and divided into an upper zone (1a) and lower zone (1b) by a cradle (9) having an aperture (9a) above which a burner is located which comprises a tube (10a) perforated over its lower surface, air being delivered by an electric fan (17) controlled by an automatic control circuit into a chamber (19) whence primary air flows out toward the top portion of the upper zone (1a) and secondary air is flown into the burner (10). the lower zone (1b) being connected to a smoke box (12) in communication with the chimney flue.

IPC 1-7

F24H 1/26; **F24H 9/18**; **F24H 9/00**

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CPC (source: EP US)

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Cited by

FR2589988A1; EA009160B1; EP0214010A1; FR2597958A1; EP1970623A3; EP0205993A3; US5247892A; WO2006004563A1; WO9005269A1

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