

Title (en)

HOT WATER GENERATOR, IN PARTICULAR A CENTRAL HEATING BOILER, FOR SOLID FUEL, ESPECIALLY FOR BURNING LOGS OF WOOD

Publication

EP 0127881 B1 19861001 (FR)

Application

EP 84106185 A 19840530

Priority

FR 8309082 A 19830601

Abstract (en)

[origin: EP0127881A1] 1. Hot-water generator, in particular central heating boiler, for solid fuels especially for burning wood and, if required, also for liquid and gaseous fuels, comprising a firebox/heat-exchanger surrounded by a housing at a distance and surrounding a large-volume chamber substantially in the form of a cylinder with horizontal axis provided for accepting the solid fuel and delimited on its sides and on its rear end by double walls between which the water to be heated is circulated, and on its front end by a door, said double walls being interrupted at their lowermost part by at least one opening which is lined with a combustion nozzle, characterized in that the heating body (1) is composed of a plurality of identical annular hollow intermediate elements (11) each of which forms a closed annular chamber (14) around a central passage opening, each of said intermediate elements at one of its front faces having a local axial offset (20) which defines a recess part, two opposite holes (21, 22) being present in each of its two front faces ; of an annular front end element (10) which forms likewise a central opening, which provided with substantially opposite holes in at least one of its front faces and which is closed with a door (15, 17) in the plane of its other front face ; and of a hollow rear end element (12) without central opening which forms a double bottom and is provided with two substantially opposite holes in at least one of its front faces, said elements (10, 11, 12) lying end-to-end and being assembled so that the front faces with the said recess and the front faces without said recess of the successive intermediate elements (11) are disposed alternately in face-to-face and opposite relationship so that said recesses complete one another in pairs defining thus a radial opening, and that the said holes (21, 22) of the successive elements (10, 11, 12) coincide, the firebox/heat-exchanger thus formed being set up with the said radial openings directed downwardly and each of said openings is lined with a jacket-like inserted element (25) which forms the combustion nozzle.

IPC 1-7

F24H 1/32

IPC 8 full level

F24H 1/32 (2006.01)

CPC (source: EP)

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Cited by

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