

Title (en)

**GAS-FIRED BOILER WITH AN ATMOSPHERICAL BURNER**

Publication

**EP 0360090 B1 19921216 (DE)**

Application

**EP 89116600 A 19890908**

Priority

DE 3831237 A 19880914

Abstract (en)

[origin: EP0360090A1] The gas-fired boiler with an atmospheric burner consists of a cylindrical, water-cooled combustion shaft (1), in the lowermost region of which there are arranged the atmospheric gas burner (2) and there above a displacer insert (4), which bounds a hot gas drawing duct (3) having an annular cross-section and subdivided by ribbing, and is connected to the water-cooled combustion shaft (1), and above which a waste gas collecting chamber (5) with waste gas exhaust nozzles is located. According to the invention, the displacer insert (4) is formed from two shells (6, 7), which can be assembled in a liquid-tight fashion and are formed from a condensate-proof casting "released in the green state". In this arrangement, the lower shell (6) on the burner side has at least one cast-on projection (8) for the connection of at least one inflow duct (9), which connects the displacer insert (4) to the water-conducting double jacket of the combustion shaft (1). The lower (6) or the upper shell (7) likewise have at least one cast-on projection (8) for the connection of at least one inflow duct (10), which connects the displacer insert (4) to the water-conducting double jacket of the combustion shaft (1). The lower shell (6) is provided, at least in the region of the hot gas duct (3), which has a circular cross-section, with cast-on enlargements (11) of the heat transfer surfaces in the form of longitudinal ribs (12), which engage the interstices (13) of longitudinal ribs (15) arranged on the burner shaft wall (14). <IMAGE>

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