

Title (en)
BOILER

Title (de)
KESSEL

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CHAUDIÈRE

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Application
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Abstract (en)

A boiler comprising an enclosure (2) which forms a heating chamber (3) which contains water to be heated and accommodates a firebox (5) which forms a combustion chamber (5) with a burner (6) associated therewith which comprises a combustion head (7), arranged in the combustion chamber (4) and connected to a supply duct (8), and provided with a premixer (9) of combustion air and combustible gas which is interposed along the supply duct (8). The combustion chamber (4) is connected to a stack (12) for the evacuation of the combustion gases into the external environment. Means are further provided for generating a flow of a mixture of air and gas toward the combustion head (7). The particularity of the invention resides in that it comprises at least one duct (13) for conveying the combustion gases which connects the stack (12) to the supply duct (8). Also according to the invention, the flow generation means comprise means which are adapted to place the combustion chamber (4) in partial vacuum with respect to atmospheric pressure.

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Citation (search report)

- [XY] FR 2314448 A1 19770107 - VIDALENQ MAURICE [FR]
- [Y] US 4204832 A 19800527 - MILLER ROBERT F [US]
- [X] US 4993402 A 19910219 - RIPKA CHESTER D [US]
- [A] EP 1052461 A2 20001115 - STATE IND INC [US]

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