

Title (en)
BURNER FOR LIQUID FUEL

Title (de)
BRENNER FÜR FLÜSSIGE BRENNSTOFFE

Title (fr)
BRULEUR DESTINE A DES COMBUSTIBLES LIQUIDES

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Application
EP 99936224 A 19990813

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Abstract (en)
[origin: WO0012935A1] The invention relates to a burner (1) for liquid fuel, notably extra light fuel, which can be controlled by a burner control device and comprises an air circulator (3) driven by a motor (4). A burner pot (45) comprises an evaporator chamber (39) and an atomization organ (30) positioned in said evaporator chamber (39), which can be heated by means of an electric heating device (20). According to the invention a cylindrical flame holder (11), along whose perforated outer surface the flame is generated during burner operations, is placed onto the evaporator chamber (39). Means are provided for, for example a deflection collar (12a, 12b) which partly encloses the flame holder (11), by means of which a part of the hot exhaust-gas flow is deflected in such a way that it heats the evaporator chamber (39) from the outside. The output signal of a temperature sensor arranged at the burner pot (45) is transmitted to the burner control device. The burner control device cuts the electric heating device (20) switched on when the burner (1) was started as soon as the actual value of the temperature measured by the temperature sensor (8) at the burner pot (5, 45) exceeds a setpoint which can be set in the burner control device. As a result, no further external electrical energy is required after the start of the burner (1). The burner (1) can be modulated at a ratio of 1:3, for example between 5 and 15 kW, and is suitable for heating residential buildings with correspondingly low heat requirements by burning extra light heating fuel.

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