

Title (en)

ARRANGEMENT OF BURNERS FOR HEATING INSTALLATION, IN PARTICULAR A GAS TURBINE COMBUSTION CHAMBER

Title (de)

BRENNERANORDNUNG FÜR EINE FEUERUNGSANLAGE, INSbesondere EINE GASTURBINENBRENNKAMMER

Title (fr)

AGENCEMENT DE BRULEURS POUR UNE INSTALLATION DE CHAUFFE, NOTAMMENT UNE CHAMBRE DE COMBUSTION DE TURBINE A GAZ

Publication

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Application

**EP 98943638 A 19980707**

Priority

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Abstract (en)

[origin: WO9904196A1] The invention concerns an arrangement of burners for a heating installation, in particular a gas turbine combustion chamber, comprising a main burner (1) and a pilot flame for lighting and/or stabilising the main burner (1). Said pilot flame is permanently or temporarily used as premix burner, and a supply system (6, 7, 8, 9) in the form of a pipe for supplying fuel and combustion air, said system including at least an air duct (6) with a more or less circular cross-section, and which is provided with intakes (10; 11) for the fuel. In the direction of the air flow upstream of said intakes (10; 11) which are arranged preferably at regular intervals on the periphery of the air duct (6), a vortex generator (12) is provided in the air duct (6). The latter acts as diffuser (13) at its end zone emerging into the heating installation and with in particular an end zone (13) ever widening in cross-section and also capable of being cooled. The vortex generator (12) upstream of the fuel intakes (10; 11) ensures stable and safe functioning of the pilot flame with slight production of NOx.

IPC 1-7

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IPC 8 full level

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Citation (search report)

See references of WO 9904196A1

Cited by

US8474266B2; US8893511B2

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