

Title (en)

METHOD AND DEVICE FOR OPERATING A BURNER OF A HEAT ENGINE, ESPECIALLY A GAS TURBINE PLANT

Title (de)

VERFAHREN UND VORRICHTUNG ZUM VERFAHREN UND VORRICHTUNG ZUM BETREIBEN EINES BRENNERS EINER WARMEKRAFTMASCHINE, INSBESONDERE EINER GASTURBINENANLAGE

Title (fr)

PROCEDE ET DISPOSITIF D'UTILISATION D'UN BRULEUR D'UN MOTEUR THERMIQUE, NOTAMMENT D'UN SYSTEME DE TURBINES A GAZ

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2004094909A1] Disclosed are a method and a device for operating a burner of a heat engine, especially a gas turbine plant, comprising a burner inlet into which a mixture of a fuel and an oxygen-enriched carrier gas is delivered in order to be burned within a combustion chamber located adjacent to the burner inlet in the direction of flow. The inventive method is characterized by the following steps: a first oxygen-enriched carrier gas flow called a first oxidizer mixture is provided to which the fuel is admixed so as to form a first fuel/oxidizer mixture, and a second oxygen-enriched carrier gas flow called a second oxidizer mixture is provided; the first fuel-oxidizer mixture is catalyzed so as to form a catalyzed first fuel/oxidizer mixture in which the fuel is at least partly oxidized; the catalyzed first fuel/oxidizer mixture is mixed with the second oxidizer mixture in order to form a second fuel/oxidizer mixture; and the second fuel/oxidizer mixture is ignited and burned.

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CPC (source: EP US)

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