

Title (en)

METHOD AND INSTALLATION FOR UNSUPPORTED LEAN FUEL GAS COMBUSTION, USING A BURNER AND RELATED BURNER

Title (de)

VERFAHREN UND ANLAGE FÜR TRÄGERLOSE MAGERE KRAFTSTOFF-GAS-VERBRENNUNG UNTER VERWENDUNG EINES BRENNERS UND ZUGEHÖRIGER BRENNER

Title (fr)

PROCÉDÉ ET INSTALLATION DE COMBUSTION DE GAZ COMBUSTIBLE PAUVRE, SANS SOUTIEN, À L'AIDE D'UN BRÛLEUR ET BRÛLEUR ASSOCIÉ

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Application

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Abstract (en)

[origin: WO2007012755A1] The invention concerns a method for a lean gas combustion using at least one burner comprising a combustion nozzle on a central axis (x), said method consisting in: creating a mixture of fuel gas and combustion air rotating about the central axis. The method is characterized in that it includes the following steps which consist in: ejecting in front of the combustion nozzle a flow of non-flammable premix containing a mixture of premix air and fuel gas, a complementary flow so as to achieve a non-flammability threshold of the mixture in front of the combustion nozzle, the flow being ejected at the center of the premix flow via a central complementary flow and/or about the premix flow via a peripheral complementary flow. The invention also concerns a burner configured to implement the method and a combustion installation using same.

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