

Title (en)
FLEXIBLE NOZZLE MIXING BURNER COMPRISING A SWIRL CHAMBER

Title (de)
FLEXIBLER PARALLELSTROMBRENNER MIT DRALLKAMMER

Title (fr)
BRULEUR SOUPLE A FILETS PARALLELES COMPORTANT UNE CHAMBRE A TOURBILLONS

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Application
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Abstract (en)
[origin: WO2005071314A2] The invention relates to an externally mixing burner comprising a burner head (2), at least one fuel gas pipe (3), and at least one pipe (4) for an oxygen-containing gas. The burner head is provided with outlets from the fuel gas pipe and from the pipe for the oxygen-containing gas. The inventive burner is characterized in that gas supply tubes (6, 7) for fuel gas and oxygen-containing gas are provided, each of which is connected to a source of fuel gas or oxygen-containing gas and at least one of which eccentrically extends into a swirl chamber (8, 9) that is mounted between the gas supply tube and the fuel gas pipe and/or between the gas supply tube and the pipe for oxygen-containing gas. The invention further relates to a method for operating an externally mixing burner comprising at least one fuel gas pipe and at least one pipe for oxygen-containing gas through which fuel gas or oxygen-containing gas flows to the burner head. Said method is characterized in that the fuel gas and/or the oxygen-containing gas is/are eccentrically delivered into a swirl chamber in which a rotational flow is impressed on the fuel gas or the oxygen-containing gas while the fuel gas or the oxygen-containing gas is fed to the fuel gas pipe or the pipe for oxygen-containing gas after being discharged from the swirl chamber.

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