

Title (en)

METHOD FOR OPERATING A GAS BURNER

Title (de)

VERFAHREN ZUM BETRIEB EINES GASBRENNERS

Title (fr)

PROCÉDÉ POUR FAIRE FONCTIONNER UN BRÛLEUR À GAZ

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Application

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Abstract (en)

[origin: WO2022174864A1] The invention relates to a method for operating a gas burner, in which method: a mixture is formed from a fuel gas and air in a mixing chamber (1); the mixture is conveyed at a controlled feed rate through an outlet opening (2) in a burner surface (3) delimiting the mixing chamber (1); the mixture is combusted at the burner surface (3) to form a recirculation vortex; and exhaust gas forming during the combustion is brought into contact with a fluid-cooled heat exchanger (4) located at a distance from the outlet opening (2). According to the invention, the feed rate for the mixture and the distance between the outlet opening (2) and the heat exchanger (4) are selected in such a way that the recirculation vortex extends from the outlet opening (2) to the heat exchanger (4) and is cooled down at the heat exchanger (4).

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