

Title (en)

METHOD FOR THE COMBUSTION OF A LOW NOX PREMIX GAS BURNER

Title (de)

VERFAHREN ZUR VERBRENNUNG EINES VORMISCHUNGSGASBRENNERS MIT NIEDRIGEM NOX-GEHALT

Title (fr)

PROCÉDÉ DE COMBUSTION D'UN BRULEUR À GAZ A PREMELANGE BAS NOX

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Application

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Abstract (en)

[origin: WO2014162074A1] The method of the invention comprises a premix burner formed by a group of premix nozzles (2) disposed in a circle of diameter DB around a central nozzle (4) disposed on a central axis A of the burner (1) and intended to create a radial flame (5), characterised in that the oxidizer-to-fuel ratio (R) of the group of nozzles (2, 4) is between 1.3 and 1.75. The radial flame (5) is used for the cross-lighting of the different premix nozzles (2, 4). An annular flame is also provided by premixed combustion in order to keep the ratio (R) favourable to the low production of thermal nitrogen oxides at the intersection of the radial flame and the flames from the nozzles.

IPC 8 full level

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