

Title (en)
BURNER NOZZLE

Title (de)
BRENNERDÜSE

Title (fr)
BUSE DE BRÛLEUR

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Application
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Abstract (en)
[origin: WO2011050377A1] The invention relates to a burner nozzle (3), comprising a first channel (14) for combustible fluid, an outlet opening (14') for the combustible fluid, a second channel (15) for an atomizing medium, and an outlet opening (17) for the atomizing medium, in the vicinity of which a Hartmann generator is arranged. Pure oxygen is used as the atomizing medium. The outside diameter (D2) of the plate (19) of the Hartmann generator is dimensioned such that the exit speed of the pure oxygen from the nozzle (3) is so great that the maximum usage temperature of the material of the nozzle and/or of the Hartmann generator is not exceeded in the area of the housing (11) of the nozzle (3). A result is that the mixing and combustion of oxygen and combustible fluid take place at such a distance from the burner nozzle (3) that the burner nozzle (3) is not damaged by the high flame temperature.

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