

Title (en)

GAS TURBINE BURNER WITH PILOT FUEL-AIR MIXING

Title (de)

GASTURBINENBRENNER MIT BRENNSTOFF-LUFT-PILOTMISCHUNG

Title (fr)

BRÛLEUR DE TURBINE À GAZ À MÉLANGE D'AIR ET DE CARBURANT PILOTE

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Application

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Abstract (en)

[origin: EP3620718A1] The invention relates to burner (1) with a burner head comprising a main mixing tube (2) for premixing combustion air and fuel, wherein the main mixing tube (2) is provided with a pilot burner system (3) in its downstream part, wherein the pilot burner system (3) comprises an annular mixing cavity (4) with an entrance (5) for air in its upstream end, with an entrance (6) for pilot fuel and with an outlet nozzle (7) in its downstream end, wherein a pilot mixing tube (8) extends inside the mixing cavity (4) between the air entrance (5) and the outlet nozzle (7) with a pilot mixing tube (8) length exceeding a distance between the upstream and the downstream ends of the mixing cavity (4).

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