

Title (en)
STABILISING OF THE FLAME OF A BURNER

Title (de)
STABILISIERUNG DER FLAMME EINES BRENNERS

Title (fr)
STABILISATION DE LA FLAMME D'UN BRÛLEUR

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Abstract (en)
[origin: WO2011015549A1] The invention relates to a burner of a gas turbine comprising a reaction chamber (5) and a plurality of jet nozzles (6) opening into the reaction chamber (5), wherein fluid is injected through an outlet (22) into the reaction chamber (5) by means of the jet nozzles (6) by means of a fluid stream (2), wherein the fluid is burned into hot gas (4) in the reaction chamber (5), wherein a ring gap (8) is disposed about the fluid stream (2) for at least one jet nozzle (6, 6a, 6b, 6c) so that a part of the hot gas (4) is drawn out of the reaction chamber (5) and flows opposite the fluid flow direction into the ring gap (8) and is mixed with the fluid stream (2) within the jet nozzle (6, 6a, 6b, 6c), and wherein the ring gap (8) is formed by means of an insert tube (12, 12a, 12b), and wherein the insert tube (12a) comprises a thickening (15) at the upstream end. The invention further relates to a method for stabilizing the flame of such a burner of a gas turbine.

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