

Title (en)

Process for increasing the fluidic stability of a premix-burner as well as premix-burner for carrying out said process

Title (de)

Verfahren zur Erhöhung der strömungsmechanischen Stabilität eines Vormischbrenners sowie Vormischbrenner zur Durchführung des Verfahrens

Title (fr)

Procédé pour accroître la stabilité fluidique d'un brûleur de prémélange ainsi que brûleur de prémélange pour mettre en oeuvre le procédé

Publication

EP 1182398 B1 20051116 (DE)

Application

EP 01120011 A 20010820

Priority

DE 10040869 A 20000821

Abstract (en)

[origin: EP1182398A1] The premix burner, for a gas turbine assembly, has a combustion air flow fed into the hollow combustion zone (6) at a tangent (3) to be mixed with the injected spiral flow of gas and/or liquid fuel coaxial to the burner axis (4). It induces a backflow zone at a cross section jump at the burner opening to stabilize the flame. The spiral flow is increasingly distorted towards the burner opening, and it enters the combustion zone with a flow cross section with a non-rotation symmetry and acts on the free flow cross section.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Cited by

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