

Title (en)
GAS TURBINE BURNER

Title (de)
BRENNER FÜR GASTURBINE

Title (fr)
BRULEUR POUR TURBINE A GAZ

Publication
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Application
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Abstract (en)
[origin: WO2006042796A2] Disclosed is a premix burner, e.g. for a gas turbine, comprising a vortex generator (1), a cylindrical mixing section (2) that is located downstream thereof in the direction of flow, and a high-pressure spray nozzle (10) which is provided with one or several fuel supply ducts. The high-pressure spray nozzle (10) is equipped with at least two discharge ducts through which liquid fuel penetrates into the vortex generator (1). The ducts are disposed in a decentralized manner relative to the longitudinal axis of the nozzle while being configured such that the spray cone (11) of the fuel is oriented at an angle (β) relative to the longitudinal axis of the vortex generator (1) which is smaller than the cone half-angle (α) of the vortex generator (1). The discharge ports are provided especially with an inner geometry that encompasses a conical constriction.

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