Title (en)

HYBRID BURNER LANCE

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LANCE POUR BRULEUR HYBRIDE

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Application

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Abstract (en)

[origin: WO2006021541A1] The invention relates to a lance (3) for a hybrid burner (2) of a combustion chamber (1) of a gas turbine. Said lance comprises: - an interior duct (10) for a liquid fuel; - an exterior duct (11) for a gaseous fuel, which coaxially surrounds the interior duct (10); - several outer nozzles (12) that are disposed in a stellar manner and extend radially from the exterior duct (11); - several inner nozzles (14) which extend radially from the interior duct (10) and run coaxially within one of the outer nozzles (12). respectively; - and a distribution section (18) that is located upstream of the outer nozzles (12) in the exterior duct (11) and is provided with several stellarly arranged, coaxially extending passages (19) for the gaseous fuel. In order to reduce the resistance to fluid flow in the gas path of the lance (3), the passages (19) are wider in the circumferential direction than they are in the radial direction.

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