

Title (en)

FUEL LANCES HAVING THERMALLY INSULATING COATING

Title (de)

BRENNSTOFFLANZEN MIT WÄRMEDÄMMBESCHICHTUNG

Title (fr)

LANCES À COMBUSTIBLE PRÉSENTANT UN REVÊTEMENT POUR ISOLATION THERMIQUE

Publication

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Application

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Abstract (en)

[origin: WO2014121998A1] The invention relates to a method for producing a fuel lance for a burner, in particular for a gas turbine burner. The method has at least the following steps: creation of a fuel lance body having a tip that has a cooling air duct, which opens into an exit opening (3) extending around a longitudinal axis of the fuel lance body, and a nozzle face, which is arranged around the exit opening (3) and has a plurality of fuel nozzles (5); determination of a spatial distribution of a heat input, to which the nozzle face is subjected during operation when a fuel flowing out through the fuel nozzles (5) is burnt; and application of a thermally insulating layer (8) onto the nozzle face in accordance with the spatial distribution of the heat input. A fuel lance that can be produced with the method according to the invention and a burner having such a fuel lance are also introduced.

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