Title (en)

Gas turbine and method for injecting fuel

Title (de)

Gasturbine und Verfahren zum Injizieren von Brennstoff

Title (fr)

Turbine à gaz et procédé d'injection de carburant

Publication

EP 2589876 A1 20130508 (DE)

Application

EP 11187643 A 20111103

Priority

EP 11187643 A 20111103

Abstract (en)

The turbine (1) has a burner arrangement (2) comprising a fuel injector (3), and a combustion chamber (5) arranged downstream of the burner arrangement. The fuel injector is arranged at an angle to a flow direction (S) such that the injected fuel impresses twist on the fuel flow. The burner arrangement is arranged concentrically to a rotational axis or a symmetrical axis (R). Air inlets (6) are arranged in an area of the burner arrangement such that fuel-air-mixture is formed in a premixing path (4), where the fuel injector is arranged in an area of an end of a pipe. An independent claim is also included for a method for injecting fuel into a gas turbine.

Abstract (de)

Gasturbine (1) mit einer Brenneranordnung (2) mit mindestens einem Brennstoffinjektor (3), einer Strömungsrichtung (S) und einem stromabwärts der Brenneranordnung (2) angeordneten Brennraum (5), wobei der Brennstoffinjektor (3) in einem Winkel zu der Strömungsrichtung (S) angeordnet ist, so dass der injizierte Brennstoff einen Drall auf die Strömung aufprägt.

IPC 8 full level

F23R 3/28 (2006.01); **F23R 3/12** (2006.01)

CPC (source: EP)

F23R 3/12 (2013.01); **F23R 3/14** (2013.01); **F23R 3/286** (2013.01); F23R 2900/00002 (2013.01)

Citation (search report)

- [XI] US 2010300109 A1 20101202 - CARRONI RICHARD [CH], et al
- [XI] US 2010170255 A1 20100708 - ZUO BAIFANG [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 11187643 A 20111103; EP 2012067367 W 20120906