

Title (en)

Liquid fuel nozzle of gas turbine combustor and method of rebuilding a gas turbine combustor

Title (de)

Flüssigkraftstoffdüse einer Gasturbinenbrennkammer und Verfahren zum Umbau einer Gasturbinenbrennkammer

Title (fr)

Injecteur de combustible liquide pour chambre de combustion de turbine à gaz et procédé de reconstruction d'une chambre de combustion de turbine à gaz

Publication

**EP 2385299 A2 20111109 (EN)**

Application

**EP 11162240 A 20061201**

Priority

- EP 06024947 A 20061201
- JP 2005348619 A 20051202

Abstract (en)

In a liquid fuel nozzle, a main injection hole 109 for jetting main fuel 33 is of a structure having a straight portion which is in the form of an annular flow path extending parallel to an axis of the liquid fuel nozzle 9, the annular flow path having a flow path cross section not changed along the straight portion. Since the flow rate of fuel jetted out of each liquid fuel nozzle 9 is held even, a deviation of the fuel flow rate can be suppressed without degrading atomization performance of each liquid fuel nozzle mounted in each combustor, and a liquid fuel nozzle with high reliability can be obtained.

IPC 8 full level

**F23D 11/38** (2006.01); **F23D 11/24** (2006.01)

CPC (source: EP)

**F23D 11/24** (2013.01); **F23D 11/383** (2013.01)

Citation (applicant)

JP H0762522 B2 19950705

Cited by

US2015330626A1; CN108981165A; CN108731250A; RU2660856C2; EP4230301A1; FR3132649A1; GB2522139A; GB2522139B; US10107499B2; US10288283B2; WO2014062076A1; WO2024020253A3; WO2014036298A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 1793165 A2 20070606**; **EP 1793165 A3 20090225**; EP 2385299 A2 20111109; EP 2385299 A3 20121128; JP 2007155170 A 20070621

DOCDB simple family (application)

**EP 06024947 A 20061201**; EP 11162240 A 20061201; JP 2005348619 A 20051202