

Title (en)

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

Title (de)

Flüssigbrennstoffeinspritzdüse, Gasturbinenbrennkammer, und Verfahren zum Umbauen eine Gasturbinenbrennkammer

Title (fr)

Injecteur de carburant liquide, chambre de combustion de turbine à gaz, et méthode pour reconfigurer une chambre de combustion de turbine à gaz

Publication

**EP 1793165 A3 20090225 (EN)**

Application

**EP 06024947 A 20061201**

Priority

JP 2005348619 A 20051202

Abstract (en)

[origin: EP1793165A2] 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 11/24** (2006.01); **F23D 11/38** (2006.01)

CPC (source: EP)

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

Citation (search report)

- [XY] WO 0000770 A1 20000106 - PRATT & WHITNEY CANADA [CA]
- [Y] US 2954172 A 19600927 - GRUNDMAN RICHARD G
- [Y] US 3758259 A 19730911 - VOORHEIS J

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Designated extension state (EPC)

AL BA HR MK RS

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

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