

Title (en)

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

Title (de)

Flüssigbrennstoffeinspritzdüse für eine Gasturbinenbrennkammer, und Verfahren zum Umbauen einer solchen Gasturbinenbrennkammer

Title (fr)

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

Publication

**EP 1793165 A2 20070606 (EN)**

Application

**EP 06024947 A 20061201**

Priority

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

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CPC (source: EP)

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

Citation (applicant)

WO 0000770 A1 20000106 - PRATT & WHITNEY CANADA [CA]

Cited by

CN112780416A; RU2763964C1; RU189000U1; CN101876438A; EP2246629A3; CN103292351A; EP2832451A4; RU188999U1; CN106461225A; RU2744963C1; CN112567175A; EP2629016A3; US2022333554A1; US11815049B2; CN102141245A; CH702598A1; HRP20110066B1; EP4050261A4; US8082724B2; US9745936B2; US10480472B2; US10508812B2; US11149950B2; US8567198B2; US11873761B2; WO2015174880A1; WO2019241108A1; US10556246B2

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