

Title (en)

Burner for a gas turbine and method for controlling fuel supply to a burner

Title (de)

Brenner für eine Gasturbine und Verfahren zur Steuerung der Kraftstoffzufuhr des Brenners

Title (fr)

Brûleur pour turbine à gaz et procédé de contrôle de carburant pour alimenter un brûleur

Publication

**EP 1942303 A1 20080709 (EN)**

Application

**EP 07000036 A 20070102**

Priority

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Abstract (en)

The invention relates to a burner (10) for a gas turbine having a fuel supply device (20, 34, 44) for supplying fuel into the burner (10), which burner (10) is configured for mixing the fuel with an oxygen containing gas to generate a combustion medium to be supplied to a combustion chamber of the gas turbine. According to the invention said burner (10) is provided with a pressure measurement device (20) for pressure measurement in the combustion medium and comprising a measuring point (28) defining the location of the pressure measurement, wherein the measuring point (28) is located inside the burner (10), and the burner (10) is provided with a control device (64) configured for controlling the fuel supply of the fuel supply device (20, 34, 44) based on the pressure measurement and/or configured for controlling the air supply to the burner (10) based on the pressure measurement.

IPC 8 full level

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Citation (search report)

- [XY] DE 102005011287 A1 20051110 - ALSTOM TECHNOLOGY LTD BADEN [CH]
- [Y] US 2002162334 A1 20021107 - WILSON KENNETH J [US], et al
- [Y] EP 0601608 A1 19940615 - VORTMEYER DIETER PROF DR [DE], et al
- [A] US 6205765 B1 20010327 - IASILLO ROBERT J [US], et al

Cited by

US11774093B2; US11174792B2; US11156164B2

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