

Title (en)

Burner in particular for a gas turbine combustor, and method of operating a burner

Title (de)

Brenner für eine Turbinenbrennkammer und Verfahren zum Betrieb des Brenners

Title (fr)

Brûleur pour une chambre de combustion de turbine à gaz et procédé d'opération du brûleur

Publication

EP 1835231 A1 20070919 (EN)

Application

EP 06005107 A 20060313

Priority

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Abstract (en)

A burner is provided, comprising a burner face (16), a liquid fuel injection system and a liquid pilot fuel injection system. The liquid pilot fuel injection system comprises: - a lip portion (20) which overlaps in parallel a circumferential section of the burner face (16) so as to form a space (54) between the lip portion (20) and the burner face (16), - one or more air supply passages (32) leading into the space (54) between the lip portion (20) and the burner face (16); and - one or more liquid pilot fuel supply passages (52) leading into the space (54) between the lip portion (20) and the burner face (16) and/or leading through the lip portion (20) into a space encircled by the lip portion (16).

IPC 8 full level

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CPC (source: EP)

F23C 7/002 (2013.01); **F23D 14/24** (2013.01); **F23D 17/002** (2013.01); **F23R 3/343** (2013.01); **F23R 3/36** (2013.01); **F23C 2202/40** (2013.01); **F23D 2214/00** (2013.01)

Citation (applicant)

US 6532726 B2 20030318 - NORSTER ERIC ROY [GB], et al

Citation (search report)

- [DA] US 2001027637 A1 20011011 - NORSTER ERIC ROY [GB], et al
- [A] EP 0728989 A2 19960828 - EUROP GAS TURBINES LTD [GB]
- [A] GB 2104641 A 19830309 - CHERNY ANATOLY A [SU]
- [A] DE 10331575 A1 20050210 - WEBASTO THERMOSYSTEME GMBH [DE]
- [A] US 5450724 A 19950919 - KESSELI JAMES B [US], et al

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EP2629008A1; EP2246617A1; EP3301374A1; CN109804201A; EP3184898A1; CN108431503A; EP3376109A1; US11371705B2; US10697639B2; US9810433B2; US8739545B2; WO2018060098A1; WO2013120558A1; WO2017108454A1

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DOCDB simple family (publication)

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DOCDB simple family (application)

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