

Title (en)

Method for quick switching from premix to diffusion burning modes in the combustion chamber of a gas fuelled gas turbine

Title (de)

Verfahren zur Schnellumschaltung vom Vormischbetrieb in den Diffusionsbetrieb in einer Brennkammer einer mit Brenngas betriebenen Gasturbine

Title (fr)

Méthode pour le changement rapide entre combustion de prémélange et de diffusion pour chambre de combustion de turbine à gaz alimentée à gaz

Publication

**EP 0790466 A3 19981216 (DE)**

Application

**EP 96118560 A 19961120**

Priority

DE 19605736 A 19960216

Abstract (en)

[origin: EP0790466A2] The method involves initiating one changeover criterion for changing from premix to diffusion mode if timely detection of a transient process which could lead to premix flame extinction occurs or the initiation of a second changeover criterion if timely detection occurs of a premix flame extinction. The first and second criteria involve transferring to changeover logic the displacement (Z) of the valve in the fuel feed line and the pressure in the combustion chamber(s) respectively. The drive logic (8) continually checks the input values against the entered criteria. If a criterion is fulfilled, the drive logic passes a drive signal to the servovalve (7) of a rapid changeover valve (3) in the combustion gas feed line.

IPC 1-7

**F23R 3/34**; **F23R 3/28**

IPC 8 full level

**F23R 3/28** (2006.01); **F23R 3/34** (2006.01)

CPC (source: EP US)

**F23R 3/28** (2013.01 - EP US); **F23R 3/346** (2013.01 - EP US); **F23N 2237/02** (2020.01 - EP US)

Citation (search report)

- [X] US 5327718 A 19940712 - IWATA NAOHIKO [JP], et al
- [X] US 5533329 A 19960709 - OHYAMA YOSHISHIGE [JP], et al
- [A] US 5024055 A 19910618 - SATO ISAO [JP], et al

Cited by

EP2075440A1; CN107228382A

Designated contracting state (EPC)

CH DE FR GB IT LI NL SE

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**EP 0790466 A2 19970820**; **EP 0790466 A3 19981216**; **EP 0790466 B1 20030507**; DE 19605736 A1 19970821; DE 59610422 D1 20030612; US 5806299 A 19980915

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