

Title (en)

Aerodynamic effervescent fuel/air injection system for a gas turbine combustion chamber

Title (de)

Aerodynamisches brausendes Brennstoff/Luft einspritzungssystem in einer Gasturbinenbrennkammer

Title (fr)

Système aérodynamique à effervescence d'injection air/carburant dans une chambre de combustion de turbomachine

Publication

EP 1640661 A3 20060419 (FR)

Application

EP 05291869 A 20050909

Priority

FR 0410052 A 20040923

Abstract (en)

[origin: EP1640661A2] The aerodynamic injection system (2) has an air feed channel (6) to supply air to a tubular structure (4). A fuel passage (8) is connected to a fuel feed channel (10). A gas injection channel (12) injects gas into fuel feed channel at a pressure which is greater than pressure of air supplied to tubular structure and greater than or equal to pressure of fuel flowing in fuel feed channel, to create effervescence in fuel. Independent claims are also included for the following: (1) turbomachine combustion chamber; and (2) turbomachine.

IPC 8 full level

F23D 11/16 (2006.01); **F23D 11/10** (2006.01)

CPC (source: EP US)

F23D 11/16 (2013.01 - EP US)

Citation (search report)

- [A] EP 1331441 A1 20030730 - NAT AEROSPACE LAB [JP]
- [A] EP 1314933 A1 20030528 - HISPANO SUIZA SA [FR]
- [A] EP 0458685 A1 19911127 - TOTAL FRANCE [FR]
- [A] WO 9930831 A1 19990624 - UNIV SEVILLA [ES], et al
- [A] EP 0119086 A2 19840919 - FUEL TECH INC [US]

Cited by

FR3105985A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1640661 A2 20060329; EP 1640661 A3 20060419; EP 1640661 B1 20070725; CN 100545433 C 20090930; CN 1769654 A 20060510; DE 602005001742 D1 20070906; DE 602005001742 T2 20080430; FR 2875585 A1 20060324; FR 2875585 B1 20061208; JP 2006090327 A 20060406; JP 4695952 B2 20110608; RU 2005129655 A 20070327; RU 2309329 C2 20071027; US 2006059914 A1 20060323; US 7506496 B2 20090324

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