

Title (en)

Effervescent injector for an aeromechanical air/fuel injection system integrated into a gas turbine combustor

Title (de)

Brauseinjektor für ein aeromechanisches Luft/Brennstoffeinspritzsystem einer Gasturbinenbrennkammer

Title (fr)

Injecteur à effervescence pour système aéromécanique d'injection air/carburant dans une chambre de combustion de turbomachine

Publication

EP 1640662 B1 20080730 (FR)

Application

EP 05291870 A 20050909

Priority

FR 0410051 A 20040923

Abstract (en)

[origin: EP1640662A1] The injector (2) has a tubular gas duct (16) arranged inside the fuel duct (6), with several orifices (18) opening out into fuel duct, to inject gas at a pressure greater than predetermined pressure and equal to pressure threshold so as to create effervescence in the fuel on being introduced into the main structure (4). The orifices of the gas duct are arranged in at least one of the common transverse plane. Independent claims are also included for the following: (1) aeromechanical injection system; and (2) turbo machine.

IPC 8 full level

F23D 11/10 (2006.01); **F23D 11/24** (2006.01)

CPC (source: EP US)

F23D 11/24 (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23R 3/30** (2013.01 - EP US)

Cited by

FR2955375A1; US9188338B2; WO2011086336A1

Designated contracting state (EPC)

DE FR GB IT

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EP 1640662 A1 20060329; **EP 1640662 B1 20080730**; CN 100545434 C 20090930; CN 1757893 A 20060412; DE 602005008530 D1 20080911; FR 2875584 A1 20060324; FR 2875584 B1 20091030; JP 2006090326 A 20060406; JP 4632913 B2 20110216; RU 2005129654 A 20070327; RU 2382942 C2 20100227; US 2006059915 A1 20060323; US 7568345 B2 20090804

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