

Title (en)  
Swirler

Title (de)  
Drallerzeuger

Title (fr)  
Tourbillonneur

Publication  
**EP 2314923 A2 20110427 (DE)**

Application  
**EP 10171361 A 20100730**

Priority  
DE 102009045950 A 20091023

Abstract (en)

The twist generator has multiple twist generator segments (1.1,1.2,1.3) between which channels (K) for supplying of twist afflicted air to a combustion chamber of the gas turbine. A fuel injection insert (2) is provided for injecting fuel in the channels to pre-mix air and fuel. The fuel injection in a channel is predetermined by the arrangement of a fuel injection insert in twist generator segments. Independent claims are also included for the following: (1) a fuel injection insert with an insert body; (2) a twist generator segment with a triangular cross-section; and (3) a method for injecting fuel in a gas turbine.

Abstract (de)

Zur Eindüsing von Brennstoff (B) in eine Gasturbine wird vorgeschlagen eine Eindüsung des Brennstoffs in einen Kanal (K) eines Drallerzeugers der Gasturbine durch die Anordnung eines Brennstoffeindüseinsatzes (2; 2') in einem Drallerzeugersegment (1.1, 1.2, 1.3) vorzugeben.

IPC 8 full level

**F23R 3/14** (2006.01)

CPC (source: EP US)

**F23R 3/14** (2013.01 - EP US)

Citation (applicant)

- WO 2004057236 A2 20040708 - BOWMAN POWER SYSTEMS LIMITED [GB], et al
- EP 1890083 A1 20080220 - SIEMENS AG [DE]
- EP 0728989 B1 20011128 - EUROP GAS TURBINES LTD [GB]
- EP 0718550 B1 20000301 - ASEA BROWN BOVERI [CH]
- WO 2007093248 A1 20070823 - SIEMENS AG [DE], et al
- WO 2008141955 A1 20081127 - SIEMENS AG [DE], et al
- WO 2007033876 A1 20070329 - SIEMENS AG [DE], et al
- EP 0870989 B1 20040825 - EUROP GAS TURBINES LTD [GB]
- WO 2007131818 A1 20071122 - SIEMENS AG [DE], et al
- EP 1892469 A1 20080227 - SIEMENS AG [DE]

Cited by

EP2942563A1; CN106461228A; WO2015169930A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

**EP 2314923 A2 20110427; EP 2314923 A3 20140618; EP 2314923 B1 20170830;** CA 2714525 A1 20110423; CA 2714525 C 20120417;  
DE 102009045950 A1 20110428; JP 2011089759 A 20110506; JP 5520767 B2 20140611; US 2011094240 A1 20110428

DOCDB simple family (application)

**EP 10171361 A 20100730;** CA 2714525 A 20100903; DE 102009045950 A 20091023; JP 2010221254 A 20100930; US 91028310 A 20101022