

Title (en)

Method for injecting a fuel/air mixture in a combustion chamber

Title (de)

Verfahren zum Eindüsen eines Brennstoff-/Luftgemisches in eine Brennkammer

Title (fr)

Procédé d'injection d'un mélange air/carburant dans une chambre de combustion

Publication

EP 1456583 A1 20040915 (DE)

Application

EP 02781042 A 20021206

Priority

- CH 0200675 W 20021206
- CH 23312001 A 20011220

Abstract (en)

[origin: WO03054447A1] The invention relates to a fuel lance, by means of which fuels (6, 11) can be injected alternately or simultaneously at an injection point essentially located at the lance tip (1), through at least two separate channels (5, 10), with which a secure operation without risk of blowback and avoidance of coking may be achieved, whereby the fuel lance also feeds flushing air (9) to the injection point along with fuel and said flushing air (9) is introduced at the injection point between the two fuel systems (6, 11) such that the above are shielded from each other by means of the flushing air (9).

IPC 1-7

F23D 17/00; **F23C 7/00**; **F23D 11/40**; **F23D 14/76**

IPC 8 full level

F23D 14/48 (2006.01); **F23C 7/00** (2006.01); **F23D 11/12** (2006.01); **F23D 11/40** (2006.01); **F23D 14/76** (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP US)

F23C 7/002 (2013.01 - EP US); **F23D 11/402** (2013.01 - EP US); **F23D 14/76** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US); **F23D 2900/00015** (2013.01 - EP US); **F23D 2900/00016** (2013.01 - EP US)

Citation (search report)

See references of WO 03054447A1

Designated contracting state (EPC)

CH DE ES GB LI

DOCDB simple family (publication)

WO 03054447 A1 20030703; AU 2002349248 A1 20030709; CN 1320307 C 20070606; CN 1620579 A 20050525; DE 50211068 D1 20071122; EP 1456583 A1 20040915; EP 1456583 B1 20071010; ES 2295423 T3 20080416; JP 2005513399 A 20050512; JP 4246067 B2 20090402; US 2005028532 A1 20050210; US 2008163626 A1 20080710; US 7082768 B2 20060801; US 7406827 B2 20080805

DOCDB simple family (application)

CH 0200675 W 20021206; AU 2002349248 A 20021206; CN 02828273 A 20021206; DE 50211068 T 20021206; EP 02781042 A 20021206; ES 02781042 T 20021206; JP 2003555122 A 20021206; US 42692406 A 20060627; US 86994204 A 20040618