

Title (en)

SWIRLING-FREE STABILISING OF THE FLAME OF A PREMIX BURNER

Title (de)

DRALLFREIE STABILISIERUNG DER FLAMME EINES VORMISCHBRENNERS

Title (fr)

STABILISATION SANS TOURBILLONNER DE LA FLAMME D'UN BRÛLEUR À PRÉMÉLANGE

Publication

EP 2156095 B1 20160803 (DE)

Application

EP 08774139 A 20080619

Priority

- EP 2008057757 W 20080619
- EP 07012207 A 20070621
- EP 08774139 A 20080619

Abstract (en)

[origin: EP2006606A1] The method involves injecting an air-fuel mixture into a reaction chamber (5) at a speed that is different from that of a fluid in the reaction chamber. The speed is adjusted such that vortices (10) are formed at a boundary surface (11) between the mixture and the surrounding fluid. A fuel or the air-fuel mixture is injected into the reaction chamber as a pilot fuel through a pilot burner (4) of a premixing burner (1). The pilot fuel is transferred in parallel to or in anti-parallel to the air-fuel mixture in the reaction chamber.

IPC 8 full level

F23C 9/00 (2006.01); **F23D 11/10** (2006.01); **F23D 14/02** (2006.01); **F23R 3/26** (2006.01)

CPC (source: EP US)

F23C 9/006 (2013.01 - EP US); **F23D 11/102** (2013.01 - EP US); **F23D 14/02** (2013.01 - EP US); **F23R 3/26** (2013.01 - EP US); **F23C 2202/40** (2013.01 - EP US); **F23D 2203/007** (2013.01 - EP US); **F23R 2900/00013** (2013.01 - EP US); **F23R 2900/00014** (2013.01 - EP US); **F23R 2900/03282** (2013.01 - EP US)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 2006606 A1 20081224; EP 2156095 A1 20100224; EP 2156095 B1 20160803; US 2010192583 A1 20100805; WO 2008155373 A1 20081224

DOCDB simple family (application)

EP 07012207 A 20070621; EP 08774139 A 20080619; EP 2008057757 W 20080619; US 66388608 A 20080619