

Title (en)

Premixing burner arrangement and method for operating a combustion chamber

Title (de)

Vormischbrenneranordnung sowie Verfahren zum Betreiben einer Brennkammer

Title (fr)

Brûleur à prémélange et procédé permettant de faire fonctionner une chambre de combustion

Publication

**EP 1706672 B1 20081119 (DE)**

Application

**EP 05701493 A 20050112**

Priority

- EP 2005050105 W 20050112
- CH 722004 A 20040120

Abstract (en)

[origin: US7896646B2] A premixing burner is disclosed for operating a combustion chamber with a liquid and/or gaseous fuel, with a swirl generator for a combustion inflow air stream for forming a swirl flow, and with injection of fuel into the swirl flow. The swirl generator is adjacent to the combustion chamber indirectly via a mixing zone or directly, in each case via a burner outlet, a cross-sectional widening at the burner outlet being provided which, is discontinuous in the flow direction of the swirl flow and through which the swirl flow bursts open so as to form a backflow zone. A contour locally narrowing the flow cross section of the swirl generator or of the mixing zone in the flow direction can be provided upstream of the burner outlet.

IPC 8 full level

**F23R 3/28** (2006.01); **F23C 7/00** (2006.01); **F23D 14/02** (2006.01)

CPC (source: EP US)

**F23C 7/002** (2013.01 - EP US); **F23D 14/02** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US); **F23D 2209/20** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005068913 A1 20050728**; AT E414874 T1 20081215; CN 100538183 C 20090909; CN 1910403 A 20070207; DE 502005005999 D1 20090102; EP 1706672 A1 20061004; EP 1706672 B1 20081119; US 2008227039 A1 20080918; US 7896646 B2 20110301

DOCDB simple family (application)

**EP 2005050105 W 20050112**; AT 05701493 T 20050112; CN 200580002729 A 20050112; DE 502005005999 T 20050112; EP 05701493 A 20050112; US 58681605 A 20050112