

Title (en)

PREMIX BURNER COMPRISING A MIXING SECTION

Title (de)

VORMISCHBRENNER MIT MISCHSTRECKE

Title (fr)

BRULEUR DE PREMELANGE DOTE D'UN PARCOURS DE MELANGE

Publication

EP 1828684 A1 20070905 (DE)

Application

EP 05804628 A 20051123

Priority

- EP 2005056168 W 20051123
- CH 21452004 A 20041223

Abstract (en)

[origin: WO2006069861A1] Disclosed are a premix burner comprising a mixing section (3) for a heat generator as well as a method for operating such a premix burner. The inventive premix burner further comprises partial conical shells (5) which complement each other so as to form a swirling member while embracing a swirl chamber (6) that expands in a conical manner. The partial conical shells (5) delimit mutually tangential air inlet slots (7) along which inlets (8) for gaseous fuel are distributed. The premix burner also comprises at least one liquid fuel inlet which is disposed along a burner axis (A) that centrally penetrates the swirl chamber (6) as well as a mixing tube (4) which adjoins the swirling member downstream via a transition piece (2). The invention is characterized in that at least one additional inlet (13) for liquid or gaseous fuel is provided in the area of the swirling member, the transition piece (2), and/or the mixing tube (4).

IPC 8 full level

F23R 3/28 (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP US)

F23D 17/002 (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23C 2201/20** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US)

Citation (search report)

See references of WO 2006069861A1

Citation (examination)

US 5375995 A 19941227 - DOEBBELING KLAUS [CH], et al

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006069861 A1 20060706; CN 101243287 A 20080813; CN 101243287 B 20130327; EP 1828684 A1 20070905; US 2007259296 A1 20071108; US 8057224 B2 20111115

DOCDB simple family (application)

EP 2005056168 W 20051123; CN 200580044594 A 20051123; EP 05804628 A 20051123; US 76360307 A 20070615