

Title (en)  
PREMIX BURNER FOR PRODUCING AN IGNITABLE FUEL/AIR MIXTURE

Title (de)  
VORMISCHBRENNER ZUM ERZEUGEN EINES ZÜNDFÄHIGEN BRENNSTOFF-LUFTGEMISCHES

Title (fr)  
BRULEUR DE PREMELANGE DESTINE A PRODUIRE UN MELANGE CARBURANT-AIR INFLAMMABLE

Publication  
**EP 1856442 B1 20100825 (DE)**

Application  
**EP 06724902 A 20060301**

Priority  
• EP 2006060355 W 20060301  
• CH 4072005 A 20050309

Abstract (en)  
[origin: WO2006094922A1] The invention relates to a premix burner for producing an ignitable fuel/air mixture, comprising a swirl generator, which provides at least two burner shells (1) that complete one another to form a flow body. These burner shells, together, enclose a swirl space that conically enlarges in an axial manner and, in an axial longitudinal extension of the cone, delimit mutually tangential air entry slits (3) via which the combustion supply air arrives in the swirl space, inside of which an axially expanding swirling flow is formed. The premix burner also comprises means (6) for injecting fuel that are provided, at least in areas, along the tangentially running air inlet slits (3). The invention is characterized in that: the means for injecting fuel is provided in the form of a fuel line (6), which is separate from the fuel shell (1), can longitudinally move relative to the burner shell (1), and which is detachably joined in a fixed manner to the burner shell (1) while being perpendicular to the surface of the burner shell (1), and; openings (4) are provided in the burner shell (1), into which fuel injectors (7) lead that are provided along the fuel line (6) and project beyond the peripheral edge of the fuel line (6).

IPC 8 full level  
**F23C 7/00** (2006.01); **F23D 17/00** (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP US)  
**F23C 7/002** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US); **F23D 2211/00** (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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2006094922 A1 20060914**; AR 052686 A1 20070328; AT E479054 T1 20100915; CN 101137868 A 20080305; DE 502006007733 D1 20101007; DK 1856442 T3 20101220; EP 1856442 A1 20071121; EP 1856442 B1 20100825; MY 146315 A 20120731; US 2008032246 A1 20080207; US 8007273 B2 20110830

DOCDB simple family (application)  
**EP 2006060355 W 20060301**; AR P060100893 A 20060309; AT 06724902 T 20060301; CN 200680007429 A 20060301; DE 502006007733 T 20060301; DK 06724902 T 20060301; EP 06724902 A 20060301; MY PI20060988 A 20060308; US 83899907 A 20070815