

Title (en)
Premix burner

Title (de)
Vormischbrenner

Title (fr)
Brûleur à prémélange

Publication
EP 0833105 B1 20030319 (DE)

Application
EP 97810622 A 19970902

Priority
DE 19640198 A 19960930

Abstract (en)
[origin: EP0833105A2] The pre-mixer burner has a torsionally stabilised inner chamber (18) with an inner body (13) running conically in the flow direction. A mixer pipe (21) is connected downstream of the inner chamber (18) and changes through a cross-sectional jump into a burner chamber (31). A torsional flow (23) flows through the mixer pipe. The cross-sectional jump is formed by a front wall (25) and a reverse flow zone (32) can be produced in the plane of the cross-sectional jump. At least one fuel lance (14) enclosed by an air stream passes preferably centrally through the inner body of the inner chamber with the burner nozzle (17) set in the tip area of the inner body.

IPC 1-7
F23D 11/40; **F23C 7/00**; **F23D 17/00**

IPC 8 full level
F23D 14/02 (2006.01); **F23C 7/00** (2006.01); **F23D 11/40** (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 17/002** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US); **F23D 2209/10** (2013.01 - EP US)

Cited by
EP1213541A1; EP2735798A1; EP2058590A1; EP2299178A1; US8468833B2; US10208958B2; US7241138B2; US9103547B2; WO2009109454A1; WO2011032839A1; WO2009109452A1; WO2007115989A1; US6672863B2; US6625988B2; US8033821B2; US8066509B2; EP1255077A2; US6638055B2; US8459985B2; US6609905B2; US8596074B2; US9441543B2; WO2009109448A1; WO2009068424A1; WO2009068425A1; EP2179222B2

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