

Title (en)
Premix burner

Title (de)
Vormischbrenner

Title (fr)
Brûleur à prémélange

Publication
EP 0777081 B1 20030305 (DE)

Application
EP 96810738 A 19961106

Priority
DE 19545026 A 19951202

Abstract (en)
[origin: EP0777081A2] The pre-mix burner has a vortex stabilising cavity (20), formed from offset part bodies (11,12) fitting in each other, and a conical inner body (13). Input channels (11c,12c) extend upstream of the tangential air input slits (11a,12a) formed by the offset part bodies. Each input channel has at least one device (11d,12d) to cause turbulence in the air flow (23), and a system for introducing the fuel. The fuel should preferably be introduced downstream of the turbulence causing devices.

IPC 1-7
F23C 7/00; **F23D 17/00**; **F23D 14/62**; **F23D 11/40**

IPC 8 full level
F23C 7/00 (2006.01); **F23D 11/40** (2006.01); **F23D 14/62** (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 14/62** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US);
F23C 2900/07002 (2013.01 - EP US)

Cited by
EP0945677A3; EP0833105A3; CN101949540A; EP1559955A3; US6141954A; EP0959298A3; US8468833B2; US8459985B2; WO2015018962A3; WO0196785A1; US6769903B2; US8066509B2; WO2009068424A1

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
EP 0777081 A2 19970604; **EP 0777081 A3 19981021**; **EP 0777081 B1 20030305**; DE 19545026 A1 19970605; DE 59610190 D1 20030410; JP 3828969 B2 20061004; JP H09178126 A 19970711; US 5791894 A 19980811

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