

Title (en)

Premixing burner for operating an internal combustion engine, a combustion chamber of a gas turbo group or a combustion plant

Title (de)

Vormischbrenner zum Betrieb einer Brennkraftmaschine, einer Brennkammer einer Gasturbogruppe oder Feuerungsanlage

Title (fr)

Brûleur à prémélange pour l'opération d'un moteur à combustion interne, d'une chambre de combustion d'une groupe turbo à gaz ou d'une installation de combustion

Publication

**EP 0625673 B1 19990324 (DE)**

Application

**EP 94105929 A 19940416**

Priority

DE 4316474 A 19930517

Abstract (en)

[origin: EP0625673A2] In a premixing burner for operating an internal combustion engine, a combustion chamber of a gas turbo group or a combustion plant, which can be used for the combustion of fuels with widely differing properties, a diffuser (4) is arranged downstream of a swirl generator (1), a converging part (2) and a throat (3) for the supply of the fuel (9), the converging part (2), the throat (3) and the diffuser (4) being of rotationally symmetrical design and the cross-sectional shape being adapted in such a way that no flow separation at the wall is possible. <IMAGE>

IPC 1-7

**F23C 7/00**; **F23D 11/40**; **F23D 14/02**; **F23D 17/00**

IPC 8 full level

**F23C 7/00** (2006.01); **F23D 11/40** (2006.01); **F23D 14/02** (2006.01); **F23D 17/00** (2006.01); **F23R 3/12** (2006.01)

CPC (source: EP US)

**F23C 7/002** (2013.01 - EP US); **F23D 11/40** (2013.01 - EP US); **F23D 14/02** (2013.01 - EP US); **F23D 17/00** (2013.01 - EP US); **F23R 3/12** (2013.01 - EP US); **F23R 3/36** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US); **F23R 2900/00002** (2013.01 - EP US)

Cited by

EP0778445A3; EP0797051A3; EP0783089A3; EP0704657A3; EP1568942A1; US9103547B2; DE10029607A1; US8057224B2; EP1512912A3; US8066509B2; US6769903B2; US7448218B2; WO2005080878A1

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

**EP 0625673 A2 19941123**; **EP 0625673 A3 19950517**; **EP 0625673 B1 19990324**; DE 4316474 A1 19941124; DE 59407984 D1 19990429; JP H06341617 A 19941213; US 5673551 A 19971007

DOCDB simple family (application)

**EP 94105929 A 19940416**; DE 4316474 A 19930517; DE 59407984 T 19940416; JP 10114894 A 19940516; US 71489096 A 19960917