

Title (en)
Premix burner.

Title (de)
Vormischbrenner.

Title (fr)
Brûleur à prémélange.

Publication
EP 0675322 A3 19960515 (DE)

Application
EP 95810184 A 19950317

Priority
DE 4411622 A 19940402

Abstract (en)
[origin: EP0675322A2] A gaseous and/or liquid fuel is blown as a secondary stream into a gaseous main stream and then into the main burner (52) which has a circular channel (20). The main stream is first guided over vortex generators (9) arranged side by side around the circumference of the channel. A Venturi nozzle (50) is set downstream of the vortex generators. The secondary stream is introduced into the channel in the area where the Venturi nozzle has its greatest restriction. The pilot burner works on the double-cone principle with two hollow conical parts boxed inside each other in the flow direction with their relevant centre axes off-set from each other. The adjoining walls of the two parts form in the longitudinal extension tangential channels (119) for the combustion air with gas inlets set in the area of the tangential gaps. <IMAGE>

IPC 1-7
F23D 23/00; **F23D 14/22**; **F23D 11/40**

IPC 8 full level
F23D 11/40 (2006.01); **F23D 14/22** (2006.01); **F23D 17/00** (2006.01); **F23D 23/00** (2006.01); **F23R 3/02** (2006.01)

CPC (source: EP US)
F23D 11/402 (2013.01 - EP US); **F23D 14/22** (2013.01 - EP US); **F23D 23/00** (2013.01 - EP US); **F05B 2240/122** (2013.01 - EP US)

Citation (search report)

- [A] EP 0397046 A2 19901114 - MITSUBISHI HEAVY IND LTD [JP]
- [A] EP 0478305 A2 19920401 - HITACHI LTD [JP]
- [AD] EP 0321809 A1 19890628 - BBC BROWN BOVERI & CIE [CH]
- [A] DE 3520772 A1 19861211 - INTERATOM [DE]
- [A] DE 3534268 A1 19870402 - DEUTSCHE FORSCH LUFT RAUMFAHRT [DE]
- [AP] EP 0619457 A1 19941012 - ABB MANAGEMENT AG [CH]
- [AP] EP 0623786 A1 19941109 - ABB MANAGEMENT AG [CH]

Cited by
EP2112433A1; US8424310B2; WO2008051115A1

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