

Title (en)
Premix burner

Title (de)
Vormischbrenner

Title (fr)
Brûleur à prémélange

Publication
EP 0675322 B1 19990428 (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
F23R 3/02 (2006.01); **F23D 11/40** (2006.01); **F23D 14/22** (2006.01); **F23D 17/00** (2006.01); **F23D 23/00** (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)

Cited by
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DE FR GB

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EP 0675322 A2 19951004; **EP 0675322 A3 19960515**; **EP 0675322 B1 19990428**; CN 1118858 A 19960320; DE 4411622 A1 19951005; DE 59505747 D1 19990602; JP H07280224 A 19951027; US 5558515 A 19960924

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EP 95810184 A 19950317; CN 95103846 A 19950401; DE 4411622 A 19940402; DE 59505747 T 19950317; JP 7796295 A 19950403; US 39914395 A 19950306