

Title (en)

Method and device for operating a premix burner

Title (de)

Verfahren und Vorrichtung zum Betrieb eines Vormischbrenners

Title (fr)

Procédé et dispositif de mise en oeuvre d'un brûleur à prémélange

Publication

EP 0710797 B1 20010816 (DE)

Application

EP 95810645 A 19951017

Priority

DE 4439619 A 19941105

Abstract (en)

[origin: EP0710797A2] The mixture (25) of pilot gas (10) and air (17) for combustion is conveyed to a converter (21) inside the fuel lance (8) at the tip of the burner (2) for ignition and burning. The main burner gas (4) is supplied to the burner via a main gas pipe connected to the burner, and the pilot gas is supplied by a separate inflow pipe via the lance. The current of hot gas is mixed with the colder main current of gas inside the burner. The pilot gas is fed under pressure by a jet pump (22) integrated with the fuel lance. A sufficient quantity of combustion air is supplied from the plenum chamber outside the burner cap (6) into the lance, and pre-mixed with the pilot gas.

IPC 1-7

F23D 14/02; **F23D 17/00**; **F23D 14/18**

IPC 8 full level

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CPC (source: EP US)

F23C 13/08 (2013.01 - EP US); **F23D 14/02** (2013.01 - EP US); **F23D 14/18** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US); **F23R 3/40** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US); **F23C 2900/13002** (2013.01 - EP US)

Cited by

EP0931980A1; EP1213536A3; EP0918191A1; US6155820A; EP1255080A1; EP1286112A1; EP0903540A1; US5944511A; DE19737997A1; US6055813A; EP0913630A1; US6059565A; US6186775B1; US7568907B2; US6679061B2; WO2007074033A1; WO03014621A1; WO2004020901A1; US7717700B2; US6609905B2; US7029272B2

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