

Title (en)

Premix burner for a heat generator

Title (de)

Vormischbrenner für einen Wärmeerzeuger

Title (fr)

Brûleur à prémélange pour un générateur de chaleur

Publication

EP 0780628 A3 19971022 (DE)

Application

EP 96810786 A 19961113

Priority

DE 19547914 A 19951221

Abstract (en)

[origin: EP0780628A2] The mixing burner has inter-stacking parts. The longitudinal axis of symmetry (101b,102b) of each of the parts (101,102) is staggered in position so that the adjacent walls of the parts in their longitudinal direction form tangential air inlet slits (119,120) for combustion air (115) to flow into the hollow conical interiors (114) of the parts. At least one fuel nozzle (103) is contained in the conical interior and is staggered in position in relation to the start of the cone (125) induced by the parts of the premixer burner (100). Further fuel nozzles (117) are near the tangential air inlet slits.

IPC 1-7

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

IPC 8 full level

F23R 3/20 (2006.01); **F23C 7/00** (2006.01); **F23D 11/24** (2006.01); **F23D 11/40** (2006.01); **F23D 17/00** (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP US)

F23C 7/002 (2013.01 - EP US); **F23D 11/402** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US)

Citation (search report)

- [A] CH 392746 A 19650531 - ELCO OELBRENNERWERK AG [CH]
- [A] EP 0436113 A1 19910710 - ASEA BROWN BOVERI [CH]
- [AP] EP 0694730 A2 19960131 - ABB RESEARCH LTD [CH]
- [A] US 4014639 A 19770329 - FROELICH HAROLD E

Cited by

US6038863A; EP0849533A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0780628 A2 19970625; **EP 0780628 A3 19971022**; **EP 0780628 B1 20010926**; CN 1137341 C 20040204; CN 1163371 A 19971029; DE 19547914 A1 19970626; DE 59607768 D1 20011031; JP 3842357 B2 20061108; JP H09184605 A 19970715; US 5800160 A 19980901

DOCDB simple family (application)

EP 96810786 A 19961113; CN 96123246 A 19961220; DE 19547914 A 19951221; DE 59607768 T 19961113; JP 33971896 A 19961219; US 74988896 A 19961118