

Title (en)
Premix burner

Title (de)
Vormischbrenner

Title (fr)
Brûleur à prémélange

Publication
EP 0778445 B1 20030514 (DE)

Application
EP 96810791 A 19961114

Priority
DE 19545309 A 19951205

Abstract (en)
[origin: EP0778445A2] The two part-conical bodies (12,13) interfit in the flow direction. The cone axes are staggered in relation to the centre axis (10) and form tangential slits (16) for the combustion air (9). A feeder lance (1) extending downstream into the interior of the pre-mixing burner (11) from the tip of the part-conical bodies runs symmetrically in relation to the centre axis. At least one fuel nozzle is situated on the end of the feeder lance away from the flow. The lance consists of a tube (2) containing a fuel pipe in which is an inner fuel inlet duct and an outer fuel inflow duct.

IPC 1-7
F23D 17/00; **F23C 7/00**

IPC 8 full level
F23D 14/24 (2006.01); **F23C 7/00** (2006.01); **F23D 11/24** (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP US)
F23C 7/002 (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US)

Cited by
EP1340942A3; EP0849529A3; EP0849527A3; EP0903540A1; US5944511A; US7241138B2; US8033821B2; EP2179222B2

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0778445 A2 19970611; **EP 0778445 A3 19990428**; **EP 0778445 B1 20030514**; CN 1109847 C 20030528; CN 1163372 A 19971029; DE 19545309 A1 19970612; DE 59610441 D1 20030618; JP 3863608 B2 20061227; JP H09178120 A 19970711; US 5833451 A 19981110

DOCDB simple family (application)
EP 96810791 A 19961114; CN 96121877 A 19961205; DE 19545309 A 19951205; DE 59610441 T 19961114; JP 32246696 A 19961203; US 74613996 A 19961106