

Title (en)  
Burner for a heat generator

Title (de)  
Brenner für einen Wärmeerzeuger

Title (fr)  
Brûleur pour un générateur de chaleur

Publication  
**EP 0780630 A3 19980729 (DE)**

Application  
**EP 96810827 A 19961127**

Priority  
DE 19547912 A 19951221

Abstract (en)  
[origin: EP0780630A2] A mixer section (22), downstream from the swirl generator (100a), has transfer ducts (201) inside a first section (200) running in the direction of the current, they are used for transferring a current (40) formed in the swirl generator into a pipe (20) situated after the transfer ducts. A nozzle (103) injects the fuel and is displaced in relation to the start of the swirl generator by a section (126). The number of transfer ducts in the mixer section matches the number of part currents formed by the swirl generator. The outlet plane of the pipe has a break edge (A) for stabilising and enlarging the reverse zone (50) formed downstream.

IPC 1-7  
**F23D 11/40**; **F23D 17/00**; **F23C 7/00**

IPC 8 full level  
**F23R 3/28** (2006.01); **F23C 7/00** (2006.01); **F23D 11/24** (2006.01); **F23D 11/40** (2006.01); **F23D 17/00** (2006.01); **F23R 3/32** (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] FR 2406726 A1 19790518 - ROLLS ROYCE [GB]
- [A] US 3656692 A 19720418 - FLOURNOY NORMAN E, et al
- [A] DE 4416650 A1 19951116 - ABB MANAGEMENT AG [CH]
- [AP] EP 0704657 A2 19960403 - ABB MANAGEMENT AG [CH]
- [A] US 4014639 A 19770329 - FROEHLICH HAROLD E
- [A] CH 392746 A 19650531 - ELCO OELBRENNERWERK AG [CH]
- [A] PATENT ABSTRACTS OF JAPAN vol. 095, no. 010 30 November 1995 (1995-11-30)

Cited by  
WO2015140084A1; WO2015140085A1; US6102692A; EP0833104A3; EP1262714A1; US7871262B2; DE102014205200B3; EP0909921A1; US5954495A; EP0903540A1; US5944511A; EP0833105A3; DE102014205198A1; CN106461209A; US6672863B2; WO2015055916A1

Designated contracting state (EPC)  
DE FR GB IT SE

DOCDB simple family (publication)  
**EP 0780630 A2 19970625**; **EP 0780630 A3 19980729**; **EP 0780630 B1 20010926**; CN 1111672 C 20030618; CN 1157893 A 19970827; DE 19547912 A1 19970626; DE 59607769 D1 20011031; JP 3904644 B2 20070411; JP H09178121 A 19970711; US 5876196 A 19990302

DOCDB simple family (application)  
**EP 96810827 A 19961127**; CN 96123843 A 19961221; DE 19547912 A 19951221; DE 59607769 T 19961127; JP 33972796 A 19961219; US 76041096 A 19961204