

Title (en)

Burner for operating a combustion chamber with a liquid and/or gaseous fuel

Title (de)

Brenner zum Betrieb einer Brennkammer mit einem flüssigen und/oder gasförmigen Brennstoff

Title (fr)

Brûleur pour la mise en oeuvre d'une chambre de combustion avec un combustible liquide ou gazeux

Publication

EP 0851172 A3 19990609 (DE)

Application

EP 97810838 A 19971107

Priority

DE 19654116 A 19961223

Abstract (en)

[origin: EP0851172A2] The combustion air (7) flows through tangential air inlet ducts (5,6) into a pre-mixing section formed by the burner. A critical spin-flow formed at the burner's outlet and induces a backflow zone to stabilise the flame-front. The burner along the flow direction has at least one zone(27) in which extra air is injected into the spin flow. The burner consists of at least two hollow, conical, interfitting part bodies (1,2) with staggered centre axes (3,4). The adjacent walls of the part-bodies for tangential air inlet ducts for the combustion air. At least one fuel nozzle (15) is contained in the conical hollow space formed by the part bodies.

IPC 1-7

F23C 7/00; **F23D 17/00**; **F23D 14/82**

IPC 8 full level

F23C 7/00 (2006.01); **F23D 14/82** (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); **F23D 2209/10** (2013.01 - EP US)

Citation (search report)

- [Y] DE 4409918 A1 19950928 - ABB MANAGEMENT AG [CH]
- [Y] US 3958416 A 19760525 - HAMMOND JR DEAN C, et al
- [PA] DE 19545310 A1 19970612 - ASEA BROWN BOVERI [CH]
- [DA] EP 0704657 A2 19960403 - ABB MANAGEMENT AG [CH]

Cited by

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