

Title (en)

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

Title (de)

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

Title (fr)

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

Publication

EP 0851172 B1 20030716 (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

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CPC (source: EP US)

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Cited by

EP0959298A3; CH703655A1; EP2423597A3; EP2685162A1; EP2423597A2; US9170022B2; EP2685160A1; US8950187B2; EP1002992B1; EP1001214B1; EP0987491B1; EP3299720A1; EP2685161A1; EP2685163A1; US9441837B2; US9933163B2

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