

Title (en)
Cone-shaped burner

Title (de)
Kegelbrenner

Title (fr)
Brûleur sous forme d'un cône

Publication
EP 0783089 B1 20010411 (DE)

Application
EP 96810821 A 19961125

Priority
DE 19548853 A 19951227

Abstract (en)
[origin: EP0783089A2] The burner has a body (26) of two hollow, conical bodies (1,2) which are disposed offset to one another, so that their centre axes (4,5) is in the flow direction. A tapered cavity is formed, expanding towards the flow direction, having tangential air-intake grooves (7) between the conical bodies. A number of fuel supply openings, for gaseous fuel, are evenly distributed in the overall area of the grooves. At the upstream end of the cone burner, a central liquid fuel nozzle (15) is arranged, leading into the burner cavity; whereas at the downstream end, the conical bodies posses a common outlet diffusor (27). Towards the discharge diffusor the two conical bodies have a transient area (28), which continuously takes the weight of the air-intake grooves in the flow direction. The diffusor is circular and is formed without any grooves.

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

IPC 8 full level
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F23C 7/002 (2013.01 - EP US); **F23C 15/00** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US); **F23R 3/12** (2013.01 - EP US); **F23R 3/283** (2013.01 - EP US); **F23R 3/30** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US)

Cited by
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DE 19548853 A1 19970703; CN 1119560 C 20030827; CN 1158397 A 19970903; DE 59606762 D1 20010517; EP 0783089 A2 19970709; EP 0783089 A3 19981111; EP 0783089 B1 20010411; JP 3810502 B2 20060816; JP H09189406 A 19970722; US 5807097 A 19980915

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