

Title (en)
Burner

Title (de)
Brenner

Title (fr)
Brûleur

Publication
EP 0924458 B1 20020828 (DE)

Application
EP 97811010 A 19971222

Priority
EP 97811010 A 19971222

Abstract (en)
[origin: EP0924458A1] Feeds (13) are provided for the fuels. The central axes of the hollow part cone bodies (1,2) have a widening conical inclination in the flow direction, and longitudinally run displacedly to one another. In the conical inner space formed by the part cone bodies on the burner head a fuel nozzle for the liquid fuel is placed. The feeds (13) are provided with fuel injectors and on the combustion chamber side a front plate (18) for anchoring the part cone bodies is arranged. The part cone bodies as the result of different thermic stress have different thermic expansions in the direction of the burner axis and particularly the front plate at the burner outlet is cyclically stressed. In the front plate between the areas of different axial expansion at least one unloading slot (30) for flexibility increase is arranged.

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

IPC 8 full level
F23C 7/00 (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 2211/00** (2013.01 - EP US); **F23R 2900/00005** (2013.01 - EP US)

Cited by
EP2327933A1; EP2532967A3; FR2897144A1; EP1818616A1; US7673457B2; US9103552B2; US8794544B2; WO2011064086A1

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
EP 0924458 A1 19990623; **EP 0924458 B1 20020828**; DE 59708077 D1 20021002; JP 4106144 B2 20080625; JP H11241811 A 19990907; US 5980240 A 19991109

DOCDB simple family (application)
EP 97811010 A 19971222; DE 59708077 T 19971222; JP 36462798 A 19981222; US 21074198 A 19981215