

Title (en)
Combustor

Title (de)
Brennkammer

Title (fr)
Chambre de combustion

Publication
EP 0882932 A3 20000322 (DE)

Application
EP 98810304 A 19980409

Priority
DE 19720786 A 19970517

Abstract (en)
[origin: JPH10325542A] PROBLEM TO BE SOLVED: To guarantee the optimum injection flow of a burner regardless of variations in a mass flow of cooling air and combustion air. SOLUTION: At least one cooling path 10 is extended into a plenum 13 and formed inside the plenum as diffuser 14 having an orifice 12 into the plenum. At least one of openings 15 and 15' of a burner dome 4 are arranged in the area of the diffuser 14. Bypass paths 16 and 16' having orifices 17 and 17' into the plenum 13 connected on the downstream side of the individual openings. The orifices of the respective bypass paths are turned at least almost parallel with the orifice of the diffuser and formed being shifted in steps outward. Each of the bypass paths has a pressure adjustor.

IPC 1-7
F23C 7/00; **F23R 3/10**; **F23R 3/04**; **F23R 3/26**

IPC 8 full level
F23C 7/00 (2006.01); **F23C 7/06** (2006.01); **F23D 14/62** (2006.01); **F23R 3/04** (2006.01); **F23R 3/10** (2006.01); **F23R 3/26** (2006.01); **F23R 3/54** (2006.01)

CPC (source: EP US)
F23C 7/06 (2013.01 - EP US); **F23D 14/62** (2013.01 - EP US); **F23D 2206/10** (2013.01 - EP US)

Citation (search report)

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- [Y] US 4949545 A 19900821 - SHEKLETON JACK R [US]
- [Y] US 2458497 A 19490111 - BAILEY ERVIN G
- [Y] US 4584834 A 19860429 - KOSHOFER JOHN M [US], et al
- [A] US 4104874 A 19780808 - CARUEL JACQUES E J, et al

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GB2339013A

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19720786 A1 19981119; CN 1114787 C 20030716; CN 1199837 A 19981125; DE 59807433 D1 20030417; EP 0882932 A2 19981209; EP 0882932 A3 20000322; EP 0882932 B1 20030312; JP 4036962 B2 20080123; JP H10325542 A 19981208; US 6106278 A 20000822

DOCDB simple family (application)
DE 19720786 A 19970517; CN 98108460 A 19980515; DE 59807433 T 19980409; EP 98810304 A 19980409; JP 13179398 A 19980514; US 7939698 A 19980515