

Title (en)  
Combustor and method of operation

Title (de)  
Brennkammer und Verfahren zu deren Betrieb

Title (fr)  
Chambre de combustion et méthode d'exploitation

Publication  
**EP 0845639 B1 20031001 (DE)**

Application  
**EP 97810817 A 19971031**

Priority  
DE 19649486 A 19961129

Abstract (en)  
[origin: EP0845639A1] The chamber comprises a cross-sectional narrowing (30) in the flow direction which enables the transition of the hot gases (21) between the first stage (20) and the succeeding stage (40). The cross-sectional narrowing has a structure with the Mach number at the outlet (31) being equal to the surface ratio of the narrowing. The surface ratio is a quotient of the outlet surface (A2) over the inlet surface (A1). The axial length (L) of the cross-sectional narrowing is 5% greater than the diameter at the inlet surface. The combustion chamber is of the ring type and is operable with at least one pre-mix burner (10).

IPC 1-7  
**F23R 3/42**; **F23R 3/16**

IPC 8 full level  
**F23C 6/04** (2006.01); **F23M 13/00** (2006.01); **F23M 20/00** (2014.01); **F23M 99/00** (2010.01); **F23R 3/16** (2006.01); **F23R 3/42** (2006.01)

CPC (source: EP US)  
**F23R 3/16** (2013.01 - EP US); **F23R 3/42** (2013.01 - EP US); **F05B 2260/96** (2013.01 - EP US)

Cited by  
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