

Title (en)  
Annular combustion chamber for gas turbine

Title (de)  
Gasturbinenringbrennkammer

Title (fr)  
Chambre de combustion annulaire pour turbine à gaz

Publication  
**EP 0781967 A3 19990407 (DE)**

Application  
**EP 96810777 A 19961112**

Priority  
DE 19549143 A 19951229

Abstract (en)  
[origin: EP0781967A2] The improved burn gas turbine has the air flow taken from the last stage of the compressor (1) and ducted (15) to a premixing stage (5) where a swirl generator (16) and fuel injector (17) in each duct generates a premixing of the air and fuel. The mixture is ducted into a ring shaped combustion chamber (4). The air distribution ducts are arranged around the axis of the gas turbine in a spiral array. Downstream of the swirl generators the premixing ducts have a constant cross section. This is circular or rectangular. The relation between the number of vanes in the last stage of the compressor to the number of air ducts is a whole number, preferably 1 or 2.

IPC 1-7  
**F23R 3/04**; **F23R 3/10**; **F23R 3/28**; **F23R 3/50**

IPC 8 full level  
**F23R 3/16** (2006.01); **F23R 3/04** (2006.01); **F23R 3/10** (2006.01); **F23R 3/20** (2006.01); **F23R 3/28** (2006.01); **F23R 3/32** (2006.01); **F23R 3/34** (2006.01); **F23R 3/42** (2006.01); **F23R 3/46** (2006.01); **F23R 3/50** (2006.01)

CPC (source: EP US)  
**F23R 3/045** (2013.01 - EP US); **F23R 3/10** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23R 3/50** (2013.01 - EP US); **F23R 2900/03041** (2013.01 - EP US)

Citation (search report)

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DE FR GB IT

DOCDB simple family (publication)  
**EP 0781967 A2 19970702**; **EP 0781967 A3 19990407**; **EP 0781967 B1 20030402**; CN 1088151 C 20020724; CN 1158383 A 19970903; DE 19549143 A1 19970703; DE 59610298 D1 20030508; JP H09196379 A 19970729; US 5839283 A 19981124

DOCDB simple family (application)  
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