

Title (en)  
Gas turbine combustor

Title (de)  
Brennkammer für eine Gasturbine

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

Publication  
**EP 1016830 A3 20020724 (DE)**

Application  
**EP 99811182 A 19991221**

Priority  
DE 19860583 A 19981229

Abstract (en)  
[origin: EP1016830A2] Fuel and incoming air (10) are mixed in the combustion chamber of a gas turbine and then burnt. The combustion air flow is then fed to a turbine downstream of the combustion chamber. The chamber has a ring-shaped diffuser (13), in which the air current enters. Downstream of the diffuser and connected to it is at least one ring-shaped toroidal chamber (14). Downstream of the toroidal chamber mixture tubes (22) branch away and are distributed over its periphery. Downstream of the mixture tubes a combustion chamber (18) is arranged, in which the mixture tubes issue. The combustion chamber is formed as a secondary unit. The turbine has a primary combustion chamber, downstream of which is a first turbine (11), a secondary combustion chamber downstream of the first turbine and a second turbine functioning downstream of the secondary combustion chamber.

IPC 1-7  
**F23R 3/42**; **F23R 3/02**; **F23R 3/52**; **F02C 6/00**

IPC 8 full level  
**A61P 43/00** (2006.01); **F02C 6/00** (2006.01); **F23R 3/02** (2006.01); **F23R 3/42** (2006.01)

CPC (source: EP US)  
**F23R 3/02** (2013.01 - EP US); **F23R 3/42** (2013.01 - EP US)

Citation (search report)

- [A] US 3877219 A 19750415 - HAGEN HERMANN
- [A] US 4765146 A 19880823 - HELLAT JAAN [CH], et al
- [A] US 3309866 A 19670321 - KYDD PAUL H
- [A] DE 1011670 B 19570704 - H C ERNST SCHMIDT DR ING DR RE
- [A] EP 0595026 A1 19940504 - ABB RESEARCH LTD [CH]

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DOCDB simple family (publication)  
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