

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]

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)
EP 1016830 A2 20000705; **EP 1016830 A3 20020724**; **EP 1016830 B1 20040526**; DE 19860583 A1 20000706; DE 59909580 D1 20040701; US 6272864 B1 20010814

DOCDB simple family (application)
EP 99811182 A 19991221; DE 19860583 A 19981229; DE 59909580 T 19991221; US 47096499 A 19991223