

Title (en)
Gas turbine

Title (de)
Gasturbine

Title (fr)
Turbine à gaz

Publication
EP 1342953 A1 20030910 (DE)

Application
EP 02005137 A 20020307

Priority
EP 02005137 A 20020307

Abstract (en)
The gas turbine (51) has a combustion chamber (55) and a burner (1) opening into the combustion chamber at a burner opening enclosed by a Helmholtz resonator in annular manner. The resonator has a resonator volume and opens into the burner at a resonator opening that is continued into the resonator volume by a small pipe.

Abstract (de)
Die Erfindung betrifft eine Gasturbine (51), mit einem Brenner (1), der in eine Brennkammer (55) mündet, wobei diese Mündung ringförmig von einem Helmholtzresonator (19) umgeben ist. Hierdurch werden Verbrennungsschwingungen durch engen Kontakt zur Flamme effektiv gedämpft, wobei gleichzeitig Temperaturungleichmäßigkeiten vermieden werden. <IMAGE>

IPC 1-7
F23M 13/00; **F23R 3/50**

IPC 8 full level
F23M 13/00 (2006.01); **F23M 20/00** (2014.01); **F23M 99/00** (2010.01); **F23R 3/22** (2006.01); **F23R 3/28** (2006.01); **F23R 3/50** (2006.01); **F23R 3/52** (2006.01)

CPC (source: EP US)
F23M 20/005 (2015.01 - EP US); **F23R 3/50** (2013.01 - EP US); **F23R 2900/00014** (2013.01 - EP US)

Citation (applicant)

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

DOCDB simple family (publication)
EP 1342953 A1 20030910; CN 1320314 C 20070606; CN 1639512 A 20050713; DE 50309686 D1 20080605; EP 1483536 A1 20041208; EP 1483536 B1 20080423; ES 2303892 T3 20080901; JP 2005527763 A 20050915; JP 4429730 B2 20100310; US 2005144950 A1 20050707; US 7246493 B2 20070724; WO 03074936 A1 20030912

DOCDB simple family (application)
EP 02005137 A 20020307; CN 03804511 A 20030224; DE 50309686 T 20030224; EP 0301862 W 20030224; EP 03706564 A 20030224; ES 03706564 T 20030224; JP 2003573352 A 20030224; US 50612104 A 20040831