Title (en)

Gas turbine with toroidal combustor

Title (de)

Gasturbine mit toroidaler Brennkammer

Title (fr)

Turbine à gaz avec chambre de combustion toroidale

Publication

EP 0870990 B1 20030507 (DE)

Application

EP 97810167 A 19970320

Priority

EP 97810167 A 19970320

Abstract (en)

[origin: EP0870990A1] The combustion chamber (1) has at least one annular toroidal interior (8) actively connected to burners (5) around the periphery of the combustion chamber. The toroidal interior has a hot gas duct (11) branching off in a peripheral direction and positioned on the flow plane of a turbine (3) placed after the gas turbo group. The end of the hot gas duct has guide-blades (12) co-operating with the turbine. The annular toroidal interior is enclosed in a shell (13) in which flows a coolant (15) in the intermediate space (14) formed. Combustion air (7) belonging to a plenum (6) feeds the burners.

IPC 1-7

F23R 3/52

IPC 8 full level

F23R 3/42 (2006.01); **F23R 3/52** (2006.01)

CPC (source: EP US)

F23R 3/425 (2013.01 - EP US); **F23R 3/52** (2013.01 - EP US)

Cited by

DE10325455A1; EP0924470A3; DE102010023816A1; DE102011108887A1; RU2638420C1; DE102004003816B4; US9151223B2; US9151501B2; WO2013013740A3; US7318317B2; US7237385B2; US7127897B2

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DE GB

DOCDB simple family (publication)

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DOCDB simple family (application)

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