

Title (en)

GAS TURBINE COMPRISING A CAN COMBUSTOR PROVIDED WITH A DAMPER

Title (de)

GASTURBINE MIT EINEM ROHRBRENNER MIT EINEM DÄMPFER

Title (fr)

TURBINE À GAZ COMPRENANT UNE CHAMBRE DE COMBUSTION TUBULAIRE MUNIE D'UN AMORTISSEUR

Publication

EP 3486566 A1 20190522 (EN)

Application

EP 17201933 A 20171115

Priority

EP 17201933 A 20171115

Abstract (en)

A gas turbine for a power plant; the gas turbine having an axis and comprising following the gas flow direction: a compressor sector for compressing ambient air, a plenum delimited by an outer casing (17) for receiving the compressed; a combustor (4) at least in part housed in the plenum for mixing and combusting the compressed with at least a fuel; at least a turbine for expanding the combusted hot gas flow leaving the combustors and performing work on a rotor; wherein the combustor comprising: at least a burner; at least a liner (7) downstream the burner and defining an inner combustion chamber; a damper (28) comprising a damper body defining a damping volume wrapped outside around the liner and in fluid connection with the combustion chamber; wherein the damper body is spaced from the liner in order to form a cooling gap (31) between the damper body and the liner, being present at least a damper neck (32) acting as a bridge in the cooling gap between the liner and the damper body for fluidly connecting the damping volume with the combustion chamber, at least the damper body is mechanically decoupled by the liner and supported in position by a supporting structure at one side fixed to the damper body and at another side fixed to the outer casing.

IPC 8 full level

F23R 3/00 (2006.01); **F23R 3/46** (2006.01); **F23R 3/60** (2006.01)

CPC (source: EP)

F23R 3/002 (2013.01); **F23R 3/46** (2013.01); **F23R 3/60** (2013.01); **F23R 2900/00014** (2013.01); **F23R 2900/03045** (2013.01); **F23R 2900/03341** (2013.01)

Citation (applicant)

US 8490744 B2 20130723 - NAKAMURA SOSUKE [JP], et al

Citation (search report)

- [IY] EP 1669670 A1 20060614 - ROLLS ROYCE PLC [GB]
- [Y] EP 3029377 A1 20160608 - ALSTOM TECHNOLOGY LTD [CH]
- [A] US 2016215984 A1 20160728 - BOTHIEN MIRKO RUBEN [CH], et al
- [A] US 2016003162 A1 20160107 - BECK CHRISTIAN [DE], et al

Cited by

CN115507384A; CN115507387A; EP3832090A1; EP3974723A1

Designated contracting state (EPC)

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BA ME

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