

Title (en)

METHOD AND APPARATUS FOR DAMPING OF THERMO-ACOUSTIC OSCILLATIONS, IN PARTICULAR IN A GAS TURBINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DÄMPFUNG THERMO-AKUSTISCHER SCHWINGUNGEN, INSBESONDERE IN EINER GASTURBINE

Title (fr)

PROCEDE ET DISPOSITIF POUR L'AMORTISSEMENT D'OSCILLATIONS THERMO-ACOUSTIQUES, NOTAMMENT DANS UNE TURBINE A GAZ

Publication

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Application

EP 06792726 A 20060808

Priority

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- EP 05019897 A 20050913
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Abstract (en)

[origin: EP1762786A1] Method involves inducing thermo-acoustic oscillations (60) in a cavity (46), which is inclined with respect to thermo-acoustic oscillations. A part of thermo-acoustic oscillations are decoupled from the cavity and coupled in the resonator volume (42), whereby the resonator volume produces damping oscillations (62) which are matched to the thermo-acoustic oscillations. A part of the damping oscillations is coupled in the cavity in such a manner that the damping oscillations and the thermo-acoustic oscillations overlap each other in an overlapping area (64), whereby the oscillations are canceled out in the overlapping area. Independent claims are included for the following: (1) Device for damping thermo-acoustic oscillations; (2) Combustion chamber; and (3) Gas turbine.

IPC 8 full level

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