

Title (en)

Combustion chamber and method of suppressing combustion vibrations

Title (de)

Flammenraum und Verfahren zum Unterdrücken von Verbrennungsschwingungen in einem Flammenraum

Title (fr)

Chambre de combustion et procédé pour supprimer des vibrations de combustion

Publication

EP 1724527 A1 20061122 (DE)

Application

EP 05010544 A 20050513

Priority

EP 05010544 A 20050513

Abstract (en)

The combustion chamber (12) has a resonator device for absorbing thermal acoustic oscillations inside the chamber. The resonator has a resonator volume (24) connecting through an opening (26) with the inside of the chamber. An oscillation activator (32) energizes an oscillation in the resonator volume. An independent claim is included for a method of suppressing combustion vibrations, and a gas turbine system.

IPC 8 full level

F23M 20/00 (2014.01); **F23R 3/00** (2006.01)

CPC (source: EP)

F23M 20/005 (2015.01); **F23R 3/002** (2013.01); **F23R 2900/00014** (2013.01)

Citation (search report)

- [X] US 6464489 B1 20021015 - GUTMARK EPHRAIM [US], et al
- [X] US 6461144 B1 20021008 - GUTMARK EPHRAIM [US], et al
- [XA] EP 0918152 A1 19990526 - ABB RESEARCH LTD [CH]
- [XA] US 2003211432 A1 20031113 - GUTMARK EPHRAIM J [US], et al
- [A] GB 2288660 A 19951025 - ABB MANAGEMENT AG [CH]
- [A] US 6205765 B1 20010327 - IASILLO ROBERT J [US], et al
- [A] US 3826870 A 19740730 - WURM R, et al
- [XA] PASCHEREIT C O: "Structure and Control of Thermoacoustic Instabilities in a Gas-turbine Combustor", COMBUSTION SCIENCE AND TECHNOLOGY, GORDON AND BREACH SCIENCE PUBLISHERS, NEW YORK, NY, US, vol. 138, no. 1-6, September 1998 (1998-09-01), pages 213 - 232, XP002142707, ISSN: 0010-2202

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JP2020122472A; WO2017034539A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

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