

Title (en)

Method and device for affecting thermoacoustic oscillations in combustion systems

Title (de)

Verfahren und Vorrichtung zur Beeinflussung thermoakustischer Schwingungen in Verbrennungssystemen

Title (fr)

Méthode et dispositif influençant les oscillations thermoacoustiques dans les systèmes de combustion

Publication

EP 1429003 B1 20070221 (DE)

Application

EP 03104405 A 20031127

Priority

DE 10257244 A 20021207

Abstract (en)

[origin: EP1429003A2] A flow of gas (FOG) near a burner (7) is subjected to acoustic stimulation. This modulates the injection of fuel. The acoustic stimulation of the FOG and the modulated fuel injection are tuned to the affects from the same interference frequency. A measured signal is subjected to a first phase shift to generate a first driver signal that triggers an acoustic source (3) to stimulate the FOG. An Independent claim is also included for a device for affecting thermoacoustic vibrations in a combustion system.

IPC 8 full level

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CPC (source: EP US)

F23R 3/28 (2013.01 - EP US); **F05B 2260/96** (2013.01 - EP US); **F23C 2205/10** (2013.01 - EP US); **F23R 2900/00014** (2013.01 - EP US)

Cited by

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