

Title (en)

Method for reducing the oscillations induced by the combustion in combustion systems and premix burner for carrying out the method

Title (de)

Verfahren zur Verminderung verbrennungsgetriebener Schwingungen in Verbrennungssystemen sowie Vormischbrenner zur Durchführung des Verfahrens

Title (fr)

Procédé de réduction des oscillations induites par la combustion dans les dispositifs de combustion ainsi que brûleur à prémélange pour la mise en oeuvre du procédé

Publication

EP 1336800 B1 20131127 (DE)

Application

EP 03405031 A 20030124

Priority

DE 10205839 A 20020213

Abstract (en)

[origin: EP1336800A1] An interference body (3) is centrally located in the region of the rotation axis for the swirl flow (6), resulting in a flow-mechanical stabilisation of the backflow zone (5). Fuel exits from this central body into the swirl flow. At least one flow of combustion air (7) is introduced to a region (2) inside the burner (1) at a tangent, where it is intensively mixed with a supply of gaseous and/or liquid fuel (8), creating a swirl flow coaxial to the burner axis. An area of the swirl flow cross-section at the burner exit induces a backflow zone that stabilises the flame front there. An Independent claim is also included for a premix burner.

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

- US 5325660 A 19940705 - TANIGUCHI MASAYUKI [JP], et al
- US 5984665 A 19991116 - LOFTUS PETER J [US], et al
- US 2002090588 A1 20020711 - LI CEJI [US], et al

Cited by

EP1645802A3; CN108019776A; US11067280B2

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DE GB

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EP 1336800 A1 20030820; **EP 1336800 B1 20131127**; DE 10205839 A1 20030814; DE 10205839 B4 20110811; JP 2003240242 A 20030827; US 2003150217 A1 20030814; US 6918256 B2 20050719

DOCDB simple family (application)

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