

Title (en)

Damping device for the reduction of the oscillation amplitude of acoustic waves for a burner

Title (de)

Dämpfungsvorrichtung zur Reduzierung der Schwingungsamplitude akustischer Wellen für einen Brenner

Title (fr)

Dispositif d'amortissement pour la réduction de l'amplitude d'oscillation d'ondes acoustiques pour un brûleur

Publication

EP 1004823 A3 20001129 (DE)

Application

EP 99810950 A 19991020

Priority

DE 19851636 A 19981110

Abstract (en)

[origin: DE19851636A1] Preferably for driving a gas turbo-group, the internal combustion engine burner incorporates a damping device for reduction of the vibration amplitude of acoustic waves. A mixture area (2) is provided for air and fuel and a combustion chamber (1) is arranged beyond the mixture area in which the fuel-air mixture is ignited. A Helmholtz resonator (4) is directly connected with the mixture area. The acoustic waves formed in the burner are suppressed in the resonator and are not reflected back into the burner. The resonator is arranged in the flow direction of the fuel-air mixture before the mixture area.

IPC 1-7

F23M 13/00; **F23D 17/00**

IPC 8 full level

F23D 14/46 (2006.01); **F23D 17/00** (2006.01); **F23M 13/00** (2006.01); **F23M 20/00** (2014.01); **F23M 99/00** (2010.01); **F23R 3/18** (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [E] EP 0974788 A1 20000126 - ASEA BROWN BOVERI [CH]
- [A] EP 0597138 A1 19940518 - ASEA BROWN BOVERI [CH]
- [A] WO 9310401 A1 19930527 - SIEMENS AG [DE]
- [A] DE 19640980 A1 19980416 - ASEA BROWN BOVERI [CH]

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