

Title (en)
Vibration damping in combustors

Title (de)
Schwingungsdämpfung in Brennkammern

Title (fr)
Amortissement des vibrations dans des combusteurs

Publication
EP 0985882 B1 20031203 (DE)

Application
EP 98810901 A 19980910

Priority
EP 98810901 A 19980910

Abstract (en)
[origin: EP0985882A1] A burner generating hot gasses, e.g. for a gas turbine, has the fuel and air ducted into the combustion chamber (212), or into a mixing chamber (211). Some of the burnt gasses from the burner are recirculated by jets (220) in the sides of the burner to mix with the fuel prior to combustion. The operation of the burner reduces thermo-acoustic vibrations and produces a more controlled combustion.

IPC 1-7
F23R 3/02; **F23R 3/54**; **F23M 13/00**; **F23C 9/00**

IPC 8 full level
F23C 9/00 (2006.01); **F23M 20/00** (2014.01); **F23R 3/02** (2006.01); **F23R 3/28** (2006.01); **F23R 3/54** (2006.01)

CPC (source: EP US)
F23C 9/006 (2013.01 - EP US); **F23M 20/005** (2015.01 - EP US); **F23R 3/02** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US);
F23R 3/54 (2013.01 - EP US); **F05B 2260/96** (2013.01 - EP US); **F23R 2900/00014** (2013.01 - EP US)

Citation (examination)
• US 3319692 A 19670516 - IMANTS REBA, et al
• US 3174526 A 19650323 - VON LINDE ROBERT ALBERT

Cited by
EP2383514A1; DE10019890A1; DE10019890C2; EP2957835A1; CN105276616A; US6973790B2; US7331182B2; WO2011134713A1;
WO0127534A1

Designated contracting state (EPC)
DE GB

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