

Title (en)

CATALYTIC COMBUSTION CHAMBER FOR A GAS TURBINE

Title (de)

KATALYTISCHE GASTURBINENBRENNKAMMER

Title (fr)

CHAMBRE DE COMBUSTION CATALYTIQUE POUR TURBINE A GAZ

Publication

**EP 0832398 B1 20000112 (DE)**

Application

**EP 96915991 A 19960611**

Priority

- DE 9601020 W 19960611
- DE 19521356 A 19950612

Abstract (en)

[origin: DE19521356A1] The invention provides a burner with a catalytic combustion chamber. The combustion chamber is substantially cylindrically widened in the direction of flow of a fuel and has a catalytically active coating on the walls facing the fuel to oxidize the fuel. The catalytically induced combustion of a fuel results in a particularly low nitrogen oxide content in the burner's exhaust gases. At the same time, the coating of the walls does not raise the flow resistance in the burner, unlike prior art primary measures to reduce nitrogen oxides. The use of the burner in a gas turbine therefore provides particularly high efficiency with low nitrogen oxide emissions. The invention can be used in all gas turbines.

IPC 1-7

**F23R 3/40**

IPC 8 full level

**F02C 7/22** (2006.01); **F02C 3/20** (2006.01); **F23R 3/06** (2006.01); **F23R 3/28** (2006.01); **F23R 3/40** (2006.01); **F23R 3/42** (2006.01)

CPC (source: EP)

**F23R 3/40** (2013.01)

Designated contracting state (EPC)

CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

**DE 19521356 A1 19961219**; **DE 19521356 C2 19990401**; DE 59604179 D1 20000217; EP 0832398 A1 19980401; EP 0832398 B1 20000112; ES 2142587 T3 20000416; JP H11507433 A 19990629; RU 2143643 C1 19991227; WO 9641992 A1 19961227

DOCDB simple family (application)

**DE 19521356 A 19950612**; DE 59604179 T 19960611; DE 9601020 W 19960611; EP 96915991 A 19960611; ES 96915991 T 19960611; JP 50249197 A 19960611; RU 98100472 A 19960611