Title (en)

CATALYTIC IGNITION BURNER FOR A GAS TURBINE

Title (de)

KATALYTISCHE ZÜNDBRENNER EINER GASTURBINE

Title (fr)

BRULEUR D'ALLUMAGE CATALYTIQUE POUR TURBINE A GAZ

Publication

EP 0832399 B1 20000112 (DE)

Application

EP 96917334 A 19960611

Priority

- DE 9601019 W 19960611
- DE 19521309 A 19950612

Abstract (en)

[origin: WO9641991A1] According to the invention a burner, especially for a gas turbine, is designed for the catalytically induced combustion of a fuel, in which the fuel outlet of a catalytic auxiliary burner (6) to stabilise the main burner (8) with the catalytic combustion of a pilot fuel flow is provided in the direction of flow of the fuel in a flow channel, in front of the fuel outlet of the main burner (8). The replacement of a diffusion pilot flame by a catalytic auxiliary burner substantially reduces the nitrogen oxide emission.

IPC 1-7

F23R 3/40; F23R 3/34

IPC 8 full level

F23C 13/00 (2006.01); **F23D 14/18** (2006.01); **F23R 3/28** (2006.01); **F23R 3/34** (2006.01); **F23R 3/40** (2006.01)

CPC (source: EP)

F23C 13/00 (2013.01); **F23C 13/08** (2013.01); **F23R 3/343** (2013.01); **F23R 3/40** (2013.01); F23D 2900/00014 (2013.01)

Cited by

DE102005054442B4; EP1510761A1; US8540508B2; WO2005019734A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

WO 9641991 A1 19961227; DE 59604180 D1 20000217; EP 0832399 A1 19980401; EP 0832399 B1 20000112; ES 2142588 T3 20000416; IN 191368 B 20031129; JP 4063871 B2 20080319; JP H11509307 A 19990817; RU 2149317 C1 20000520

DOCDB simple family (application)

DE 9601019 W 19960611; DE 59604180 T 19960611; EP 96917334 A 19960611; ES 96917334 T 19960611; IN 1093CA1996 A 19960612; JP 50249097 A 19960611; RU 98100357 A 19960611