

Title (en)

Premix burner with catalytic pilot burner

Title (de)

Vormischbrenneranordnung mit katalytischem Pilotbrenner

Title (fr)

Brûleur à prémélange avec brûleur pilote catalytique

Publication

EP 1213536 B1 20060906 (DE)

Application

EP 01128081 A 20011127

Priority

DE 10061526 A 20001211

Abstract (en)

[origin: EP1213536A2] The premixing burner system has a pilot fuel feed (12, 13) for operating the combustion chamber (5) of a gas turbine. A fuel feed unit (2) and air channel (3) form an air/fuel mixture in a premixing burner (1). This is fed to the combustion chamber and ignited to produce a stable flame. A catalytic unit (6) is mounted outside the premixing burner and the pilot fuel feed feeds a pilot fuel/air mixture through this where it is converted to a CO₂/H₂ mixture which is fed to the combustion chamber to stabilise the flame. An Independent claim is included for a method for operating the system.

IPC 8 full level

F23R 3/40 (2006.01); **F23D 14/02** (2006.01); **F23R 3/28** (2006.01); **F23R 3/34** (2006.01)

CPC (source: EP US)

F23R 3/286 (2013.01 - EP US); **F23R 3/343** (2013.01 - EP US); **F23R 3/40** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US); **F23C 2900/9901** (2013.01 - EP US)

Cited by

US8033821B2; WO2009068425A1

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 1213536 A2 20020612; **EP 1213536 A3 20021023**; **EP 1213536 B1 20060906**; DE 10061526 A1 20020620; DE 50110931 D1 20061019; US 2002189257 A1 20021219; US 6679061 B2 20040120

DOCDB simple family (application)

EP 01128081 A 20011127; DE 10061526 A 20001211; DE 50110931 T 20011127; US 99196801 A 20011126