

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 A3 20021023 (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 1-7
F23R 3/40; **F23R 3/34**; **F23D 14/02**

IPC 8 full level
F23R 3/28 (2006.01); **F23R 3/34** (2006.01); **F23R 3/40** (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)

Citation (search report)

- [A] EP 0909921 A1 19990421 - ABB RESEARCH LTD [CH]
- [A] EP 0710797 A2 19960508 - ABB RESEARCH LTD [CH]
- [X] PATENT ABSTRACTS OF JAPAN vol. 018, no. 435 (M - 1655) 15 August 1994 (1994-08-15)
- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 514 (M - 1680) 28 September 1994 (1994-09-28)

Cited by
US8033821B2; WO2009068425A1

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