

Title (en)
Premix burner for a gas turbine

Title (de)
Vormischbrenner für eine Gasturbine

Title (fr)
Brûleur à prémélange pour une turbine à gaz

Publication
EP 2423597 A3 20120815 (DE)

Application
EP 11178196 A 20110819

Priority
CH 13892010 A 20100827

Abstract (en)
[origin: EP2423597A2] The premix burner (10) has a series of linear holes running transverse to a flow direction of combustion air (20). The linear holes are arranged at outer walls of air inlet channels (18, 19) by injection openings (21). Gaseous fuel (22) is injected into the combustion air that flows transverse to the flow direction via the injection openings. The openings exhibit ratio of diameter of the injection openings to effective outlet diameter of the burner, where the ratio ranges between 0.011 and 0.015. Distance between the openings is of about 16 mm. An independent claim is also included for a method for refinishing a premix burner for a gas turbine.

IPC 8 full level
F23R 3/12 (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP KR US)
F23C 7/00 (2013.01 - KR); **F23D 14/02** (2013.01 - KR); **F23D 14/62** (2013.01 - KR); **F23D 91/00** (2015.07 - KR); **F23R 3/12** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US); **F23D 2900/14021** (2013.01 - EP US); **Y10T 29/4932** (2015.01 - EP US); **Y10T 29/49716** (2015.01 - EP US)

Citation (search report)

- [X] DE 10029607 A1 20011220 - ALSTOM POWER NV [NL]
- [X] WO 03098110 A1 20031127 - ALSTOM SWITZERLAND LTD [CH], et al
- [AD] EP 0851172 A2 19980701 - ABB RESEARCH LTD [CH]

Cited by
EP2685163A1; CN112922744A; EP2685162A1; EP2685160A1; US8950187B2; EP3299720A1; EP2700879B1; EP2685161A1; US9441837B2; US9933163B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2423597 A2 20120229; EP 2423597 A3 20120815; EP 2423597 B1 20160817; AU 2011213841 A1 20120315; AU 2011213841 B2 20141023; CH 703655 A1 20120229; KR 101525463 B1 20150603; KR 20120021213 A 20120308; US 2012047898 A1 20120301; US 9170022 B2 20151027

DOCDB simple family (application)
EP 11178196 A 20110819; AU 2011213841 A 20110823; CH 13892010 A 20100827; KR 20110084965 A 20110825; US 201113218065 A 20110825