Title (en)

BURNER FOR SYNTHESIS GAS

Title (de)

BRENNER FÜR SYNTHESEGAS

Title (fr)

BRÛLEUR À GAZ DE SYNTHÈSE

Publication

EP 1436546 A1 20040714 (DE)

Application

EP 02765280 A 20021002

Priority

- CH 2852002 A 20020219
- DE 10152700 A 20011019
- IB 0204061 W 20021002

Abstract (en)

[origin: WO03036167A1] The invention relates to a burner which essentially consists of a swirl generator (1) for a combustion air flow, and means for introducing fuel into said combustion air flow (9). Said swirl generator (1) comprises combustion air inlets for the combustion air flow (9) entering the burner, and the means for introducing fuel into the combustion air flow (9) comprise at least one first fuel admission (19) and a group of first fuel outlets (18) which are arranged in a distributed manner on an end of the burner on the side of the combustion chamber, about the burner axis (25). Said burner is characterised in that the at least one fuel admission (19) and the group of first fuel outlets (18) are mechanically decoupled from the swirl generator (1). The inventive burner enables synthesis gas to be used in a reliable and safe manner, both in a rarefied and in a non-rarefied form.

IPC 1-7

F23C 7/00; F23D 11/40; F23D 17/00

IPC 8 full level

F23R 3/28 (2006.01); **F02C 7/00** (2006.01); **F02C 7/232** (2006.01); **F02C 9/26** (2006.01); **F23C 7/00** (2006.01); **F23C 99/00** (2006.01); **F23D 11/40** (2006.01); **F23D 14/02** (2006.01); **F23D 17/00** (2006.01); **F23R 3/00** (2006.01); **F23R 3/12** (2006.01)

CPC (source: EP US)

F23C 7/002 (2013.01 - EP US); **F23D 11/402** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US); **F23R 3/36** (2013.01 - EP US); F23C 2900/07002 (2013.01 - EP US); F23R 2900/00002 (2013.01 - EP US)

Citation (search report)

See references of WO 03036167A1

Cited by

EP3364105A1

Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

WO 03036167 A1 20030501; CN 1263983 C 20060712; CN 1571905 A 20050126; EP 1436546 A1 20040714; EP 1436546 B1 20160914; JP 2005528571 A 20050922; US 2004226297 A1 20041118; US 7003957 B2 20060228

DOCDB simple family (application)

IB 0204061 W 20021002; CN 02820767 A 20021002; EP 02765280 A 20021002; JP 2003538635 A 20021002; US 82632604 A 20040419