

Title (en)
Cylindrical burner

Title (de)
Zylindrischer Brenner

Title (fr)
Brûleur cylindrique

Publication
EP 1584868 A3 20060315 (EN)

Application
EP 05252224 A 20050408

Priority
JP 2004115349 A 20040409

Abstract (en)
[origin: EP1584868A2] The invention provides a cylindrical burner including: a heat chamber having a plurality of burner ports; and a distribution pipe in the heat chamber having a plurality of distribution holes, wherein, even if a mixed gas is supplied while keeping a motion component in a radial direction of a heat chamber, uniform combustion is performed over an entire periphery of the heat chamber. An inlet pipe, which extends in an axial direction to a position in front of a top end of the heat chamber, is provided in the distribution pipe to rectify the mixed gas into a flow that hardly has a motion component in the radial direction and supply the mixed gas into the distribution pipe. An annular baffle board, which narrows a gap between the distribution pipe and the heat chamber, is provided in an outer periphery of the distribution pipe a predetermined distance apart to the base end side from the top end of the inlet pipe. The distribution holes are not formed in the distribution pipe in a portion closer to the inlet pipe in an axial direction area between the top end of the inlet pipe and the top end of the heat chamber and a portion between the top end of the inlet pipe and a position near an arrangement section of the baffle board.

IPC 8 full level
F23D 14/02 (2006.01); **F23D 14/14** (2006.01); **F23D 14/10** (2006.01); **F23D 14/58** (2006.01)

CPC (source: EP)
F23D 14/02 (2013.01); **F23D 2203/1012** (2013.01); **F23D 2203/102** (2013.01); **F23D 2212/10** (2013.01)

Citation (search report)

- [Y] US 5240411 A 19930831 - ABALOS MARTIN [US]
- [Y] US 5380194 A 19950110 - POLOMCHAK ROBERT W [US], et al
- [A] US 4657506 A 19870414 - IHLENFIELD HARRY [US], et al
- [A] US 4900245 A 19900213 - AHMADY FARSHID [US]
- [A] US 5022352 A 19910611 - OSBORNE ROBERT E [US], et al

Cited by
EP3282187A1; EP1914476A3; US8379849B2; WO2008142531A3; WO2021057677A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1584868 A2 20051012; EP 1584868 A3 20060315; EP 1584868 B1 20150114; JP 2005299998 A 20051027; JP 3958754 B2 20070815

DOCDB simple family (application)
EP 05252224 A 20050408; JP 2004115349 A 20040409