

Title (en)

BUNSEN BURNER USING LEAN-RICH COMBUSTION TYPE

Title (de)

BUNSENBRENNER MIT MAGER-FETT-VERBRENNUNG

Title (fr)

BEC BUNSEN À COMBUSTION DE TYPE PAUVRE-RICHE

Publication

EP 2232140 A2 20100929 (EN)

Application

EP 08870721 A 20081124

Priority

- KR 2008006919 W 20081124
- KR 20080004823 A 20080116

Abstract (en)

[origin: WO2009091115A2] Provided is a Bunsen burner which can reduce pollutant materials generated during combustion by adopting a lean-rich combustion type, thereby enhancing combustion stability. The Bunsen burner includes a plurality of burner bodies including: a venturi plate having a venturi hole formed therein such that a gas mixture in which a portion of air supplied from a fan is mixed as primary air with fuel jetted from a nozzle unit is introduced, a guide plate for guiding the introduced gas mixture upward, an inclined portion having a plurality of first flame holes for jetting the gas mixture at a predetermined angle with respect to the vertical direction, a side portion that extends downward from a lower side of the inclined portion and has a plurality of through-holes formed therein such that some of the gas mixture passes, and a connection plate having both ends connected to the side portions of the burner bodies, respectively, and having a plurality of second flame holes in which the gas mixture passing through the through-holes and secondary air introduced by the fan and supplied along outer surfaces of the burner bodies are mixed so that lean combustion occurs.

IPC 8 full level

F23D 14/04 (2006.01)

CPC (source: EP KR US)

F23C 6/045 (2013.01 - EP US); **F23D 14/04** (2013.01 - KR); **F23D 14/045** (2013.01 - EP US); **F23D 14/583** (2013.01 - EP US);
F23D 14/64 (2013.01 - EP US); **F23D 2203/1026** (2013.01 - EP US); **F23D 2900/00003** (2013.01 - EP US)

Citation (search report)

See references of WO 2009091115A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009091115 A2 20090723; WO 2009091115 A3 20090903; CN 101910725 A 20101208; CN 101910725 B 20120613;
EP 2232140 A2 20100929; KR 100883796 B1 20090219; US 2011053105 A1 20110303

DOCDB simple family (application)

KR 2008006919 W 20081124; CN 200880124798 A 20081124; EP 08870721 A 20081124; KR 20080004823 A 20080116;
US 81275508 A 20081124