Title (en)

COMBUSTION BURNER

Title (de)

BRENNER

Title (fr)

BRÛLEUR DE COMBUSTION

Publication

EP 2381172 A1 20111026 (EN)

Application

EP 09838207 A 20090626

Priority

- JP 2009002944 W 20090626
- JP 2009009019 A 20090119

Abstract (en)

A combustion burner capable of enhancing efficiency in mixing of combustible gas and combustion air is provided. A combustion burner (1) mixes combustible gas generated by gasification of a waste product and combustion air together, and supplies the combustible gas and the combustion air to a combustion chamber. The combustion burner (1) includes: a gas duct (3) forming a gas flow path along which the combustible gas moves; an air duct (22) disposed along the external_surface of the gas duct, the air duct forming an air flow path along which the combustion air taken in from outside moves, the air flow path being formed between the air duct and the gas duct; and a branching post (15) connected to the gas duct in the gas flow path, the branching post discharging the combustible gas from the gas duct while dividing the gas flow path into a plurality of flow paths. The combustion air in the air flow path is guided to the branching post, and is discharged from the branching post toward the branched flow paths of the combustible gas. The combustion air is also discharged from the gas duct toward the branched flow paths of the combustible gas.

IPC 8 full level

F23G 7/06 (2006.01); **F23D 14/02** (2006.01); **F23G 5/027** (2006.01)

CPC (source: EP)

F23C 5/32 (2013.01); **F23D 14/48** (2013.01); **F23D 14/62** (2013.01); **F23D 14/70** (2013.01); **F23G 5/027** (2013.01); **F23G 5/165** (2013.01); **F23G 7/06** (2013.01); F23D 2900/00003 (2013.01); F23G 2201/303 (2013.01)

Cited by

EP3027968A4

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 MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2381172 A1 20111026; **EP 2381172 A4 20171018**; **EP 2381172 B1 20190123**; BR PI0919986 A2 20180227; CN 102282419 A 20111214; CN 102282419 B 20140702; JP 2010164283 A 20100729; JP 5330838 B2 20131030; WO 2010082237 A1 20100722

DOCDB simple family (application)

EP 09838207 A 20090626; BR PI0919986 A 20090626; CN 200980154996 A 20090626; JP 2009002944 W 20090626; JP 2009009019 A 20090119