

Title (en)

Gas burner, method for operating the same and multi gas burner system

Title (de)

Gasbrenner, Betriebsverfahren davon und Brennersystem für mehrere Gase

Title (fr)

Brûleur à gaz, procédé de fonctionnement associé et système de brûleur à gaz multiples

Publication

EP 2623865 B1 20200408 (EN)

Application

EP 12153790 A 20120203

Priority

EP 12153790 A 20120203

Abstract (en)

[origin: EP2623865A1] Method for operating a gas burner (10), wherein during burner-on phases a gas/air mixture having a defined mixing ratio of gas and air is provided to a burner chamber (11) of the gas burner (10) for combusting the gas/air mixture with the burner chamber (11), wherein the gas/air mixture is provided by mixing an air flow provided by an air duct (15) with a gas flow provided by a gas duct (16), wherein the defined mixing ratio of the gas/air mixture is controlled by comparing an actual value provided by an electrical or electronic sensor (23) coupled to the gas duct (16) with a nominal value and by generating a control variable for a gas valve (17) assigned to the gas duct (16) on basis of the control deviation between the actual value and the nominal value, and wherein during burner-off phases the actual value provided by the electrical or electronic sensor (23) is used to determine backflow.

IPC 8 full level

F23N 5/18 (2006.01); **F23N 5/24** (2006.01)

CPC (source: EP)

F23N 5/187 (2013.01); **F23N 5/242** (2013.01); **F23N 2227/02** (2020.01); **F23N 2237/02** (2020.01); **F23N 2237/08** (2020.01)

Cited by

EP3763997A1; EP2966354A1; DE102019118764A1; JP2020094764A

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

DOCDB simple family (publication)

EP 2623865 A1 20130807; EP 2623865 B1 20200408

DOCDB simple family (application)

EP 12153790 A 20120203