

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 A1 20130807 (EN)

Application

EP 12153790 A 20120203

Priority

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Abstract (en)

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 5/24 (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)

Citation (applicant)

- EP 1084369 B1 20030115 - HONEYWELL BV [NL]
- EP 1179159 B1 20041124 - HONEYWELL BV [NL]
- US 2010330512 A1 20101230 - KIM SI-HWAN [KR]

Citation (search report)

- [XII] AT 510002 A4 20120115 - VAILLANT GROUP AUSTRIA GMBH [AT]
- [XA] DE 102005034758 B3 20060810 - HONEYWELL TECHNOLOGIES SARL [CH]
- [XA] EP 1084369 A1 20010321 - HONEYWELL BV [NL]

Cited by

EP3763997A1; JP2020094764A; EP2966354A1; DE102019118764A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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