

Title (en)

Method for operating a gas burner

Title (de)

Verfahren zum Betrieb eines Gasbrenners

Title (fr)

Procédé de fonctionnement d'un brûleur à gaz

Publication

**EP 2631541 B1 20180411 (EN)**

Application

**EP 12157091 A 20120227**

Priority

EP 12157091 A 20120227

Abstract (en)

[origin: EP2631541A1] Method for operating a gas burner (10), wherein during burner-on phases a defined 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 defined gas/air mixture within the burner chamber (11). The defined gas/air mixture is provided by a mixing device (23) mixing an air flow provided by an air duct (15) with a gas flow provided by a gas duct (16). The defined mixing ratio of gas and air of the defined gas/air mixture is calibrated to different gas qualities on basis of a signal provided by a sensor (13) positioned downstream of the mixing device (23). Before the calibration of the defined gas/air mixture is started the gas/air mixture is changed and a dead time between the change of the gas/air mixture and a corresponding signal change of a sensor (13, 24) positioned downstream of the mixing device (23) is determined. The dead time is compared with a reference value, whereby the defined gas/air mixture is calibrated to different gas qualities only if the determined dead time is equal or smaller than the reference value.

IPC 8 full level

**F23N 1/02** (2006.01); **F23N 3/00** (2006.01); **F23N 5/08** (2006.01); **F23N 5/18** (2006.01); **F23N 5/20** (2006.01)

CPC (source: EP)

**F23N 1/022** (2013.01); **F23N 3/002** (2013.01); **F23N 5/082** (2013.01); **F23N 5/184** (2013.01); **F23N 5/203** (2013.01); **F23N 2223/48** (2020.01); **F23N 2227/20** (2020.01); **F23N 2233/08** (2020.01); **F23N 2241/06** (2020.01)

Citation (examination)

EP 0833106 B1 20011114 - HONEYWELL BV [NL]

Cited by

DE102015223177A1; EP3477201A1; EP3043115A1; EP3228936A1; US10520186B2; WO2019081464A1; EP3875855A1; DE102020106040A1

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 2631541 A1 20130828; EP 2631541 B1 20180411**

DOCDB simple family (application)

**EP 12157091 A 20120227**