

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 2685167 B1 20151216 (EN)

Application

EP 12176351 A 20120713

Priority

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Abstract (en)

[origin: EP2685167A1] 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 within the burner chamber (11), wherein the gas/air mixture is provided by mixing an air flow sucked in by a fan (14) with a gas flow, and wherein the defined mixing ratio of the gas/air mixture is controlled by comparing an actual value of a signal provided by an electrical or electronic sensor (23) coupled to a gas duct (16) with a nominal value for the signal provided by the electrical or electronic sensor (23) 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. The mixing ratio of the gas/air mixture is changed depending on the speed of the fan (14), whereby for fan speeds being smaller than a lower threshold a gas/air mixture is provided having a mixing ratio of gas and air adapted to provide a stable combustion of the gas/air mixture, and whereby for fan speeds being larger than the lower thresholds the mixing ratio of gas and air of the gas/air mixture is freely adjustable as a function of the fan speed.

IPC 8 full level

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CPC (source: EP)

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Citation (examination)

- EP 1084369 B1 20030115 - HONEYWELL BV [NL]
- W. BEITZ: "Strömungstechnische Messgrößen", DUBBEL TASCHENBUCH FÜR DEN MASCHINENBAU, 31 December 1997 (1997-12-31), XP055135135, ISBN: 978-3-54-062467-7, [retrieved on 20140818]

Cited by

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