

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 A1 20140115 (EN)

Application
EP 12176351 A 20120713

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 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.

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Citation (applicant)
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Citation (search report)
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