

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 2685168 B1 20151014 (EN)**

Application  
**EP 12176353 A 20120713**

Priority  
EP 12176353 A 20120713

Abstract (en)  
[origin: EP2685168A1] 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 the variation of the mixing ratio of the gas/air mixture as a function of the fan speed is allowed only at defined operating conditions of the gas burner (10). ( Figure 1 )

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Citation (examination)  
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• EP 1179159 B1 20041124 - 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  
EP3121516A1; FR3039260A1; EP3228936A1; US10520186B2; EP4155609A1; WO2023046466A1

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