

Title (en)  
ANALYSIS AND REGULATING METHOD FOR MULTI-FUEL BURNERS

Title (de)  
AUSWERTE- UND REGELUNGSVERFAHREN FÜR MEHRSTOFFBRENNER

Title (fr)  
PROCÉDÉ D'ÉVALUATION ET DE RÉGULATION POUR UN BRÛLEUR MULTICOMBUSTIBLE

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Application  
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Abstract (en)  
[origin: WO2017121449A1] The invention relates to an analysis and regulating assembly and to an analysis and regulating method of a multi-fuel burner for alternative fuels. The multi-fuel burner (1) has a measuring and regulating assembly (10) which has an infrared camera (4) that is paired with a burner mouth (3) of the multi-fuel burner (2), a data processing unit (6), and a regulating and control unit (7). The data processing unit (6) is operatively connected to the regulating and control unit (7) and the infrared camera (4). A current combustion image in the infrared spectral range is captured by means of the infrared camera (4) during a combustion process, and the combustion image indicates image data of a captured section (A) which comprises the combustion mouth (3) and contains substitute fuel particles (5). The substitute fuel particles (5) are ascertained from the image data using a data processing unit (6), and current characteristic combustion parameters are determined. The combustion parameters are compared with specified target combustion parameters. If the current characteristic combustion parameters deviate from the target combustion parameters, regulating and/or control parameters in the regulating and control unit (7) are adapted.

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