

Title (en)

COMBUSTION MONITORING METHOD AND SYSTEM FOR NATURAL GAS BURNER

Title (de)

VERBRENNUNGSÜBERWACHUNGSVERFAHREN UND SYSTEM FÜR ERDGASBRENNER

Title (fr)

PROCÉDÉ ET SYSTÈME DE SURVEILLANCE DE COMBUSTION POUR BRÛLEUR À GAZ NATUREL

Publication

EP 3418636 B1 20210811 (EN)

Application

EP 17762531 A 20170308

Priority

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- CN 2017075984 W 20170308

Abstract (en)

[origin: EP3418636A1] A natural gas burner control system and combustion monitoring method therefor. The natural gas burner control system comprises a combustion controller (10) and a gas analyzer (20). The combustion controller (10) is connected, in a wired or wireless connection manner, to the gas analyzer (20) and a control valve (50) that is located in a gas supply line (30), so as to obtain a signal sent from the gas analyzer (20) and send or obtain information to or from the control valve (50) in the gas supply line (30). The combustion monitoring method comprises: a gas analyzer (20) samples from a gas supply line (30) and analyzes the natural gas, so as to obtain measurement results of gas components comprised in the natural gas and corresponding contents; then, the gas analyzer (20) sends the measurement results to a combustion controller (10); after obtaining the measurement results, the combustion controller (10) inputs the measurement results, as input data, to a preset control model, and directly or indirectly determines control information corresponding to the measurement results according to the output result provided by the control model for the input data; then the combustion controller (10) increases or decreases the flow according to the corresponding control information. The device and method can pre-control a natural gas burner, thereby reducing the main combustion risks of the natural gas burner.

IPC 8 full level

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