

Title (en)

COMBUSTION MONITORING METHOD, DEVICE AND SYSTEM FOR NATURAL GAS BURNER

Title (de)

VERBRENNUNGSÜBERWACHUNGSVERFAHREN, VORRICHTUNG UND SYSTEM FÜR ERDGASBRENNER

Title (fr)

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

Publication

**EP 3418636 A4 20191225 (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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CPC (source: CN EP)

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Citation (search report)

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- [IY] WO 2015062966 A1 20150507 - SIEMENS AG [DE]
- [IY] US 2016061114 A1 20160303 - GUETHE FELIX [CH], et al
- See references of WO 2017152845A1

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CN113640347A

Designated contracting state (EPC)

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