

Title (en)

METHOD AND DEVICE FOR CONTROLLING OR MONITORING FIRING SYSTEMS AND FOR MONITORING BUILDINGS HAVING GAS BURNERS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR REGELUNG ODER ÜBERWACHUNG VON FEUERUNGSANLAGEN SOWIE ZUR ÜBERWACHUNG VON GEBÄUDEN MIT GASBRENNERN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE RÉGULATION OU DE CONTRÔLE D'INSTALLATIONS DE CHAUFFAGE ET DE CONTRÔLE DE BÂTIMENTS CONTENANT DES BRÛLEURS À GAZ

Publication

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Application

**EP 09780118 A 20090703**

Priority

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Abstract (en)

[origin: WO2010003890A2] The invention relates to a method for controlling or monitoring firing systems and for monitoring buildings having gas burners using spectroscopy having at least one monochromatic light source which is wavelength-tunable, wherein an absorption spectrum of a measuring gas is received with at least one photodetector in an absorption path with the spectral tuning of the light source, and the concentration of the target gases carbon monoxide (CO) and methane (CH<sub>4</sub>) can be determined simultaneously during tuning of the light source. The invention also relates to a device for carrying out the method, comprising a monochromatic laser diode, in particular a VCSEL, an absorption path positioned in the exhaust gas region or in a space endangered by leakage, a photodetector for receiving the light passed through the absorption path, an evaluation unit for determining the concentration of target gases on the basis of the absorption spectrum covered during tuning of the laser or the laser diode. Application: laser-optical gas sensors in gas firing systems.

IPC 8 full level

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