

Title (en)

HEATING DEVICE AND METHOD FOR REGULATING A FAN-OPERATED GAS BURNER

Title (de)

HEIZVORRICHTUNG UND VERFAHREN ZUM REGELN EINES GEBLÄSEBETRIEBENEN GASBRENNERS

Title (fr)

DISPOSITIF CHAUFFANT ET PROCÉDÉ DESTINÉ À RÉGLER UN BRÛLEUR À GAZ FONCTIONNANT PAR SOUFFLERIE

Publication

**EP 3841326 A1 20210630 (DE)**

Application

**EP 19758669 A 20190820**

Priority

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- EP 2019072226 W 20190820

Abstract (en)

[origin: CA3095949A1] A method for regulating a gas burner, wherein the gas burner has a combustion air supply fan whose rotational speed can be set variably, has the following steps: operating the fan and detecting a fan rotational speed (nVBL); changing the fan rotational speed; measuring an ionization voltage (UION) which correlates with an ionization flow in a flame region of the gas burner; finding a minimum of a gradient of the measured ionization voltage at the current fan rotational speed; determining an operating point by measuring the current ionization voltage and storing as an operating point; while the burner is operating, continuously measuring the current ionization voltage; determining a deviation between the currently measured ionization voltage and the operating point; checking whether the deviation (Delta UION) is within a predefined limit (UY) and carrying out a case differentiation: + if the deviation is within the predefined limit (UY), continuing the continuous measurement of the current ionization voltage; + if the deviation is not within the predefined limit (UY), repeating the method from the above change in the fan rotational speed.

IPC 8 full level

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CPC (source: EP US)

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