

Title (en)  
METHOD AND DEVICE FOR RECALIBRATING A MEASURING SYSTEM FOR REGULATING A FUEL-AIR MIXTURE IN A HEATING DEVICE

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR NACHKALIBRIERUNG EINES MESSSYSTEMS ZUR REGELUNG EINES BRENNGAS-LUFT-  
GEMISCHES IN EINEM HEIZGERÄT

Title (fr)  
PROCÉDÉ ET DISPOSITIF D'ÉTALONNAGE ULTÉRIEUR D'UN SYSTÈME DE MESURE PERMETTANT DE RÉGULER UN MÉLANGE GAZ-AIR  
DE COMBUSTION DANS UN APPAREIL DE CHAUFFAGE

Publication  
**EP 3767174 C0 20240417 (DE)**

Application  
**EP 20185284 A 20200710**

Priority  
DE 102019119214 A 20190716

Abstract (en)  
[origin: CN112240565A] The invention relates to a method for re-calibrating the calibration data of a first measurement system (S1) for measuring a first ionization signal in a flame region (2) of a heater (1) operated with combustion air and gas, wherein the first measurement system (S1) measures the first ionization signal (I1), the first ionization signal is derived on the basis of a first ionic current flowing through the flame region (2) from the ionization electrode (8) to the counter electrode (9), and a ratio (lambda) of combustion air to fuel gas during combustion in the heater (1) is determined and adjusted from the first ionic current by means of adjustment data. The first measuring system (S1) is re-calibrated at least in accordance with a pre-determinable criterion or at a pre-determinable time interval, and the re-calibration is carried out by means of an ignition electrode (7) for ignition in the heater (1), wherein the ignition electrode (7) is operated to generate a second ionization signal(I2). The invention also relates to a device, in particular for carrying out the aforementioned method.

IPC 8 full level  
**F23N 1/02** (2006.01); **F23D 14/02** (2006.01); **F23N 5/12** (2006.01)

CPC (source: CN EP)  
**F23D 14/02** (2013.01 - CN EP); **F23N 1/022** (2013.01 - CN EP); **F23N 5/123** (2013.01 - EP); **F23N 5/265** (2013.01 - CN);  
**F23N 2227/20** (2020.01 - EP); **F23N 2229/16** (2020.01 - EP)

Cited by  
CN114576648A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Participating member state (EPC – UP)  
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)  
**EP 3767174 A1 20210120**; **EP 3767174 B1 20240417**; **EP 3767174 C0 20240417**; CN 112240565 A 20210119; DE 102019119214 A1 20210121

DOCDB simple family (application)  
**EP 20185284 A 20200710**; CN 202010675567 A 20200714; DE 102019119214 A 20190716