

Title (en)

MEASURING ARRANGEMENT FOR A GAS BURNER, GAS BURNER AND METHOD FOR OPERATING THE GAS BURNER

Title (de)

MESSANORDNUNG FÜR EINEN GASBRENNER, GASBRENNER UND VERFAHREN ZUM BETREIBEN DES GASBRENNERS

Title (fr)

AGENCEMENT DE MESURE POUR UN BRÛLEUR À GAZ, BRÛLEUR À GAZ ET PROCÉDÉ POUR FAIRE FONCTIONNER LE BRÛLEUR À GAZ

Publication

EP 3059496 B1 20181010 (EN)

Application

EP 16150776 A 20160111

Priority

- EP 15156090 A 20150223
- EP 16150776 A 20160111

Abstract (en)

[origin: EP3059496A1] A measuring arrangement (43) for a gas burner, comprising: a flame rod (13); a first power supply device (26) configured to apply a supply voltage to the flame rod (13), wherein the first power supply device (26) is configured to be switched on and off thereby switching on and off the supply voltage to the flame rod (13); a measuring device (27) configured to measure a flame ionization current at the flame rod (13) with the aid of the supply voltage applied to the flame rod (13), wherein the flame ionization current is measurable with the supply voltage being switched on and with the supply voltage being switched off; a microcontroller (44) for receiving the flame ionization current from the flame rod (13). The measuring arrangement (43) further comprises an input definition circuit (34) configured to switch the measuring arrangement (43) between a relative low impedance measuring circuit and a relative high impedance measuring circuit, wherein the measuring arrangement (43) is configured to measure the flame ionization current at the flame rod (13) when the measuring arrangement (43) is switched by the input definition circuit (34) to a relative low measuring impedance circuit, and wherein the measuring arrangement (43) is adapted to measure a thermionic voltage at the flame rod (13) when the measuring arrangement (43) is switched by the input definition circuit (34) to a relative high impedance measuring circuit.

IPC 8 full level

F23N 5/12 (2006.01)

CPC (source: EP)

F23N 5/123 (2013.01)

Cited by

US2016047542A1; US10458647B2; US11287131B2; EP3825610A1; DE102019131577A1; EP3869101A1; WO2021165032A1

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

DOCDB simple family (publication)

EP 3059496 A1 20160824; EP 3059496 B1 20181010

DOCDB simple family (application)

EP 16150776 A 20160111