Title (en)

Method and burner with flame detection based on ionisation flow measurement

Title (de)

Verfahren und Brenner mit einer auf Ionisationsstrommessung basierenden Flammenerkennung

Title (fr)

Procédé et brûleur avec détection de flammes basée sur une mesure du courant d'ionisation

Publication

EP 2357410 B1 20190717 (DE)

Application

EP 11152479 A 20110128

Priority

DE 102010001307 A 20100128

Abstract (en)

[origin: EP2357410A2] The method involves producing a measuring voltage (12a), which is larger than a saturation voltage for producing an ionization current (16a) at an ionization electrode (16) of the flame monitoring system in the primary operating condition of the burner (22) by a device (12) for producing the measuring voltage in a voltage range, which varies from a voltage level above the saturation voltage and a voltage level below the saturation voltage. An independent claim is also included for a device for use in a flame monitoring system for producing a measuring voltage for flame detection corresponding to ionization current measurement.

IPC 8 full level

F23N 5/12 (2006.01)

CPC (source: EP)

F23N 5/123 (2013.01); F23N 5/12 (2013.01); F23N 2227/02 (2020.01); F23N 2229/12 (2020.01)

Citation (examination)

US 3215499 A 19651102 - ALFRED DEWAR ROBERT, et al

Cited by

DE102018120377A1; DE102019003451A1; DE102019119214A1; EP3712501A1; WO2023217328A1; WO2023217327A1; WO2017081307A1; WO2020038919A1; US11761629B2; US10605458B2; WO2020228979A1; 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 2357410 A2 20110817; **EP 2357410 A3 20180314**; **EP 2357410 B1 20190717**; DE 102010001307 A1 20110818; DE 102010001307 B4 20131224; PL 2357410 T3 20200131

DOCDB simple family (application)

EP 11152479 A 20110128; DE 102010001307 A 20100128; PL 11152479 T 20110128