

Title (en)

Flame monitoring device with voltage generator and voltage measuring device; Method for operation of the device

Title (de)

Flammenüberwachungsvorrichtung mit einer Spannungserzeugungs- und Messanordnung; Betriebsverfahren zur Vorrichtung

Title (fr)

Dispositif de surveillance de flammes doté d'un système de mesure et de production de tension; procédé de fonctionnement pour le dispositif

Publication

EP 1983264 B1 20170823 (DE)

Application

EP 08002271 A 20080207

Priority

DE 102007018122 A 20070416

Abstract (en)

[origin: EP1983264A2] The device has a voltage generating and measuring device (10) with a voltage generating unit (12) to generate an ignition voltage to operate an ignition device (14) of a burner (22) and/or an ionization voltage for an ionization electrode (16) to monitor a flame of the burner. A measuring unit (20) measures an ionization current generated by the ionization voltage. A control unit (24) controls the unit (12), and evaluates a measured value of the unit (20). The unit (24) determines dynamic feedbacks (30a, 30b) of the device (10), and identifies a malfunction of elements of the device (10). An independent claim is also included for a method for monitoring a burner by a flame monitoring device.

IPC 8 full level

F23N 5/12 (2006.01); **F23N 5/24** (2006.01)

CPC (source: EP)

F23N 5/123 (2013.01); **F23N 5/242** (2013.01); **F23N 2229/12** (2020.01); **F23N 2231/10** (2020.01)

Cited by

DE102010001307A1; DE102010001307B4; EP2682679A3; EP3369994A1; WO2017081307A1; WO2020020494A1; EP2843312A1; DE102013014379A1; US10605458B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

BA

DOCDB simple family (publication)

EP 1983264 A2 20081022; **EP 1983264 A3 20140219**; **EP 1983264 B1 20170823**; **EP 1983264 B8 20170927**; DE 102007018122 A1 20081023; DE 102007018122 B4 20131017; PL 1983264 T3 20180131

DOCDB simple family (application)

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