

Title (en)
Measuring device for a flame

Title (de)
Messeinrichtung für eine Flamme

Title (fr)
Dispositif de mesure pour une flamme

Publication
EP 1154203 A3 20030514 (DE)

Application
EP 01107100 A 20010322

Priority
DE 10023273 A 20000512

Abstract (en)
[origin: EP1154203A2] The measurement device for a flame, is particularly for use in a regulating device for a burner. It has an ionization electrode in the burner flame area, to which alternating voltage is connected and dependent upon the ionization current a direct voltage constituent is superimposed. The alternating voltage constituent influenced by the flame resistance is separable by first devices (5,6) from the direct voltage constituent, with which it is comparable via second devices (9,10) in order to produce a pulse width modulated signal. The two voltage constituents are separable by a high pass and a deep pass. They are comparable by a comparator (9). The direct voltage constituent is comparable with a reference voltage (U REF) in order to be used as a flame signal. The flame signal is applied to a monoflop (11), in order to form a static on/off signal.

IPC 1-7
F23N 5/12

IPC 8 full level
F23N 5/12 (2006.01)

CPC (source: EP US)
F23N 5/123 (2013.01 - EP US)

Citation (search report)

- [A] EP 0525345 A1 19930203 - BOSCH GMBH ROBERT [DE]
- [A] DE 4433425 A1 19960321 - STIEBEL ELTRON GMBH & CO KG [DE]
- [A] DE 19631821 A1 19980212 - STIEBEL ELTRON GMBH & CO KG [DE]

Cited by
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Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1154203 A2 20011114; EP 1154203 A3 20030514; EP 1154203 B1 20060823; EP 1154203 B2 20150715; AT E337525 T1 20060915; DE 10023273 A1 20011115; DE 50110780 D1 20061005; JP 2001355840 A 20011226; JP 4965028 B2 20120704; KR 100778145 B1 20071121; KR 20010104274 A 20011124; US 2002004186 A1 20020110; US 6676404 B2 20040113

DOCDB simple family (application)
EP 01107100 A 20010322; AT 01107100 T 20010322; DE 10023273 A 20000512; DE 50110780 T 20010322; JP 2001130555 A 20010427; KR 20010025778 A 20010511; US 84670001 A 20010501