

Title (en)
Flame monitoring system

Title (de)
Flammenüberwachungssystem

Title (fr)
Système de surveillance de flammes

Publication
EP 1741979 A1 20070110 (EN)

Application
EP 05106090 A 20050705

Priority
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Abstract (en)
The invention relates to a flame monitoring system (20) for a combustion space (2) having a first ionisation sensor electrode (8) in said combustion space and a second electrode (3). The system comprises an AM signal generator (21) arranged to communicate an AM signal, comprising an amplitude modulation frequency (f m), to said first electrode to generate a detection signal. The system further has means (27,28,29,30,31,32) for monitoring a component of said detection signal, corresponding to said modulation frequency and indicative of a presence of a flame in said combustion space. Accordingly, a flame monitoring system is provided which is more robust against dirt and moisture within the combustion space (2).

IPC 8 full level
F23N 5/12 (2006.01)

CPC (source: EP)
F23N 5/123 (2013.01); **F23N 2229/06** (2020.01); **F23N 2229/14** (2020.01)

Citation (search report)

- [XY] FR 2022908 A6 19700807 - COMBUSTION ENG
- [Y] EP 0437352 A1 19910717 - POTTERTON INT LTD [GB]
- [Y] US 5899683 A 19990504 - NOLTE HUBERT [DE], et al
- [A] EP 1519114 A1 20050330 - BETRONIC DESIGN B V [NL]
- [A] DE 19631821 A1 19980212 - STIEBEL ELTRON GMBH & CO KG [DE]

Cited by
EP2136141A3

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

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AL BA HR MK YU

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