Title (en)

Method and device for flame detection

Title (de)

Verfahren und Anordnung zum Detektieren einer Flamme

Title (fr)

Procédé et dispositif de détection de flamme

Publication

EP 0718814 B1 20010711 (DE)

Application

EP 94120083 A 19941219

Priority

EP 94120083 A 19941219

Abstract (en)

[origin: EP0718814A1] The flame detection system uses a microprocessor with a fuzzy-controller for analysis of the radiation intensity variations resulting from the flame, with signals outside a defined frequency band identified as interference signals. The mean and limit frequencies of the detected radiation are determined, with detection of periodic and non-periodic signals, the periodic signals with a mean frequency above a first given value (G1) and the non-periodic signals with a limit frequency above a second given value (G2) identified as noise signals. The first given frequency is determined from the flicker frequency of a stationary flame of min. flame size and the second given frequency lies above the first given frequency.

IPC 1-7

G08B 17/12

IPC 8 full level

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CPC (source: EP US)

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Cited by

CN111123423A; EP0834845A1; US6011464A; WO9815931A1

Designated contracting state (EPC)

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DOCDB simple family (application)

EP 94120083 A 19941219; AT 94120083 T 19941219; AU 3781095 A 19951113; CN 95120895 A 19951219; CZ 321895 A 19951205; DE 59409799 T 19941219; US 57477395 A 19951219