

Title (en)

Flame detection and controlling the flow of fuel to a burner

Title (de)

Flammdetektion und Regelung des Brennstoffstromes zu dem Brenner

Title (fr)

Détection d'une flamme et commander le débit de carburant d'un brûleur

Publication

**EP 0884534 A1 19981216 (EN)**

Application

**EP 98304553 A 19980609**

Priority

GB 9712447 A 19970613

Abstract (en)

A flame detector comprises a flame rectification effect circuit (8, 9, 1, 2) receiving A.C and which charges a capacitor (10) in the presence of a flame between probes 1. (The flame is modelled (2) as a resistor (R1) and diode (D1). An oscillator (3) is powered solely by the capacitor (11) to produce a waveform indicative of a flame. In absence of a flame the capacitor (10) is not charged and the oscillator (3) is inoperative. The waveform produced by the oscillator (3) is applied to a transistor (4) to maintain a gas control valve open by energising its solenoid (5). <IMAGE>

IPC 1-7

**F23N 5/12**

IPC 8 full level

**F23N 5/12** (2006.01)

CPC (source: EP)

**F23N 5/123** (2013.01)

Citation (search report)

- [X] DE 4027090 A1 19920305 - KROMSCHROEDER AG G [DE]
- [X] US 3853455 A 19741210 - RIORDAN W, et al
- [A] US 4019854 A 19770426 - CARLSON ELMER A, et al
- [A] GB 1509705 A 19780504 - PACTROL CONTROLS LTD
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 275 (E - 438) 18 September 1986 (1986-09-18)
- [A] PATENT ABSTRACTS OF JAPAN vol. 005, no. 097 (M - 075) 24 June 1981 (1981-06-24)

Cited by

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