

Title (en)

Method and device for operating a gas burner

Title (de)

Verfahren und Einrichtung zum Betrieb eines Gasbrenners

Title (fr)

Procédé et dispositif pour le fonctionnement d'un brûleur à gaz

Publication

**EP 0806610 A3 19980415 (DE)**

Application

**EP 97105850 A 19970409**

Priority

- DE 19618573 A 19960509
- DE 19627857 A 19960711
- DE 19631821 A 19960807

Abstract (en)

[origin: EP0806610A2] The method uses a regulation circuit, receiving an ionisation signal (Ui) from an ionisation electrode, for regulation of the gas/air ratio to provide a required lambda value corresponding to a required ionisation signal value (Uis). The regulation is effected within a limited regulation range (RB), for ensuring acceptable emission levels, the upper limit (Uio) of this range lying below the maximum value of the ionisation signal and the lower limit (Uiu) lying above the dangerous emission level. A cut- out signal for the burner is provided when the ionisation signal is outside the regulation range for longer than a given interval.

IPC 1-7

**F23N 1/02**; **F23N 5/12**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [A] GB 2286038 A 19950802 - CARVER & CO [GB]
- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 399 (P - 1261) 9 October 1991 (1991-10-09)
- [A] PATENT ABSTRACTS OF JAPAN vol. 006, no. 043 (M - 117) 17 March 1982 (1982-03-17)

Cited by

DE10057233C2; DE19936696A1; EP1154202A3; DE19831648A1; DE19831648B4; EP2667097A1; DE102010055567A1; DE102010055567B4; DE102006006964A1; EP1026446A1; DE102006006964B4; DE102008005216B3; US10520186B2; DE102005024763B3; EP2362145A3; EP3859210A1; DE102004058087A1; CN105987397A; EP3339735A1; AT510002A4; AT510002B1; EP1522790A3; WO2012041777A1; EP1154202A2; US6537059B2; EP3382277A1; US11231174B2

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