

Title (en)

Device for controlling the air-fuel ratio for an oil or gas burner

Title (de)

Regeleinrichtung zum Einstellen eines Brennstoff-Verbrennungsluft-Gemisches für einen mit Öl oder Gas betriebenen Brenner

Title (fr)

Dispositif de commande du rapport de air -carburant d'un brûleur à mazout ou à gaz

Publication

EP 1207345 A3 20040428 (DE)

Application

EP 01126118 A 20011103

Priority

DE 10055832 A 20001111

Abstract (en)

[origin: EP1207345A2] The photosensor may have optical filters to cut out unwanted wavelengths, e.g. radiated by hot furnace walls. The system measures the intensity of radiation from the flame (A) which rises steeply with falling lambda number. Fuel-rich conditions give a luminous sooty flame. Wavelengths of greater than 500 nm may give a characteristic curve (B) with a trough at lambda equals 1. A third curve (C) is produced giving the degree of flicker or intensity of pulsations produced by the flame.

IPC 1-7

F23N 5/08

IPC 8 full level

F23N 5/08 (2006.01)

CPC (source: EP)

F23N 5/082 (2013.01)

Citation (search report)

- [A] DE 19650972 A1 19980610 - ELBAU ELEKTRONIK BAUELEMENTE G [DE]
- [AD] DE 19746786 A1 19990429 - GIER SCH GMBH OEL UND GASBRENNE [DE]
- [A] US 5037291 A 19910806 - CLARK DANIEL R [US]

Cited by

EP1956292A4

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

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EP 1207345 A2 20020522; EP 1207345 A3 20040428; EP 1207345 B1 20060802; AT E335170 T1 20060815; DE 10055832 A1 20020529; DE 10055832 C2 20021031; DE 50110598 D1 20060914

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