

Title (en)

Control and monitoring equipment for gas burners

Title (de)

Regelungs- und Überwachungsschaltung eines Gasbrenners

Title (fr)

Circuit de régulation et de sûreté d'un brûleur à gaz

Publication

**EP 0793059 B1 20000202 (EN)**

Application

**EP 97107692 A 19931005**

Priority

- EP 93116050 A 19931005
- IT VI920148 A 19921007

Abstract (en)

[origin: EP0591910A1] The invention discloses a control and monitoring equipment for gas burners which is characterized in that when the figure of the reference physical value to be monitored has been reached, if the flame continues to burn in the burner after the safety gas solenoid valve has been de-energized, the feeding of the motor (M) of the electric fan supplying air for the combustion continues, said feeding being insured by the closing of the contacts (B1, B2) placed before the motor (M) of the electric fan, before a first relay (B) belonging to the power circuit and which is excited by the closing of a normally closed contact (1E), wherein said normally closed contact belongs to a second de-energized relay (E) inserted in the logic part of the equipment, said second relay (E) being placed in series to a first resistance (BLG) wound around a bi-metallic element and in parallel with a closed contact (2RF) belonging to the flame monitoring logic circuit (A RF), the feeding of the motor (M) ceasing when the flame goes out because of the commutation of the contact (2RF) belonging to the flame monitoring logic circuit (A RF). <IMAGE>

IPC 1-7

**F23N 5/20**; **F23N 5/24**

IPC 8 full level

**F23N 5/20** (2006.01); **F23N 5/24** (2006.01); **F23N 5/18** (2006.01)

CPC (source: EP)

**F23N 5/203** (2013.01); **F23N 5/242** (2013.01); **F23N 5/18** (2013.01); **F23N 2005/182** (2013.01); **F23N 2223/24** (2020.01); **F23N 2223/38** (2020.01); **F23N 2225/04** (2020.01); **F23N 2225/08** (2020.01); **F23N 2227/04** (2020.01); **F23N 2227/36** (2020.01); **F23N 2233/06** (2020.01); **F23N 2235/14** (2020.01); **F23N 2235/18** (2020.01)

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

**EP 0591910 A1 19940413**; **EP 0591910 B1 19980422**; AT E165434 T1 19980515; DE 69318092 D1 19980528; DE 69327811 D1 20000309; EP 0793059 A2 19970903; EP 0793059 A3 19971001; EP 0793059 B1 20000202; IT 1259837 B 19960328; IT VI920148 A0 19921007; IT VI920148 A1 19940407

DOCDB simple family (application)

**EP 93116050 A 19931005**; AT 93116050 T 19931005; DE 69318092 T 19931005; DE 69327811 T 19931005; EP 97107692 A 19931005; IT VI920148 A 19921007