

Title (en)

Control arrangement for catalytic gas burners

Title (de)

Steuervorrichtung für katalytische Gasbrenner

Title (fr)

Dispositif de commande pour des brûleurs catalytique à gaz

Publication

EP 0757207 B1 19980923 (EN)

Application

EP 96109737 A 19960618

Priority

IT PN950042 A 19950801

Abstract (en)

[origin: EP0757207A1] The control arrangement comprises a thermocouple (15) that detects the temperature of the catalyst (10) and drives an electronic control arrangement (6) which in turn controls an ignition device (12, 13) and a valve (5) supplying gas to the burner (1). During a first operational phase (t0-t2), said valve is caused to close when the temperature of the catalyst (10) rises by a value (A) above a pre-determined temperature value (T) at which the catalytic reaction is triggered; furthermore, said valve (5) is caused to open again when the temperature of the catalyst (10) decreases by a pre-determined value (B) below the value (T + A), wherein B < A. As a result, the catalytic flame of the burner can ignite spontaneously, without any need arising for the ignition device to be operated any more. <IMAGE>

IPC 1-7

F23N 5/02; **F23D 14/18**

IPC 8 full level

F23D 14/18 (2006.01); **F23N 5/02** (2006.01)

CPC (source: EP US)

F23D 14/18 (2013.01 - EP US); **F23N 5/022** (2013.01 - EP); **F23N 2225/16** (2020.01 - EP); **F23N 2227/10** (2020.01 - EP); **F23N 2227/36** (2020.01 - EP); **F23N 2235/14** (2020.01 - EP); **F23N 2237/12** (2020.01 - EP)

Cited by

WO2013106892A1; FR2791415A1; EP1058055A4; EP2930424A1; US6776608B2; US11160417B2; WO2018095988A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0757207 A1 19970205; **EP 0757207 B1 19980923**; DE 69600683 D1 19981029; DE 69600683 T2 19990218; ES 2124611 T3 19990201; IT 1282428 B1 19980323; IT PN950042 A0 19950801; IT PN950042 A1 19970201

DOCDB simple family (application)

EP 96109737 A 19960618; DE 69600683 T 19960618; ES 96109737 T 19960618; IT PN950042 A 19950801