

Title (en)

SYSTEM, APPARATUS AND METHOD FOR CONTROLLING IGNITION INCLUDING RE-IGNITION OF GAS AND GAS FIRED APPLIANCES USING SAME

Title (de)

SYSTEM, VORRICHTUNG UND VERFAHREN ZUR STEUERUNG VON ZÜNDUNG EINSCHLIESSLICH WIEDERZÜNDUNG VON GAS UND DIESE VERWENDENDE GASBEFEUERTERGEGERÜTE

Title (fr)

SYSTEME, APPAREIL ET PROCEDE DE COMMANDE D'ALLUMAGE Y COMPRIS DE RALLUMAGE DE GAZ ET APPAREILS A GAZ LES UTILISANT

Publication

EP 1558872 A4 20071226 (EN)

Application

EP 03768597 A 20031104

Priority

- US 0335028 W 20031104
- US 42350902 P 20021104
- US 70033903 A 20031103

Abstract (en)

[origin: WO2004042485A2] Featured is a gas control device being configured and arranged so as to control operation of a hot surface igniter so it is warmed-up to ignition temperatures of a gas when a call for heat is made and, following ignition, to control operation of the igniter so it is capable of rapidly re-igniting the gas without having to continuously maintain the igniter at or above gas ignition temperatures. More particularly, the gas control device includes circuitry that controls energization of the igniter for ignition of the gas and, after ignition of the gas is determined to have occurred, controls energization of the igniter so that the igniter can be warmed up to ignition temperature conditions within desired re-ignition time periods. Also featured are systems and apparatuses embodying such control devices as well as methods related thereto.

IPC 8 full level

F23N 1/00 (2006.01); **F23N 5/00** (2006.01); **F23Q 7/12** (2006.01)

CPC (source: EP US)

F23N 1/002 (2013.01 - EP US); **F23Q 7/12** (2013.01 - EP US); **F23N 2223/08** (2020.01 - EP US); **F23N 2227/02** (2020.01 - EP US); **F23N 2227/38** (2020.01 - EP US); **F23N 2227/42** (2020.01 - EP US); **F23N 2237/02** (2020.01 - EP US)

Citation (search report)

- [PX] WO 03076848 A2 20030918 - SAINT GOBAIN CERAMICS [US]
- [XY] US 4863372 A 19890905 - BERLINCOURT DON A [US]
- [DY] US 4615282 A 19861007 - BROWN BERNARD T [US]
- See references of WO 2004042485A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004042485 A2 20040521; **WO 2004042485 A3 20050421**; AU 2003291705 A1 20040607; AU 2003291705 B2 20070614; BR 0315906 A 20050920; CA 2504839 A1 20040521; EP 1558872 A2 20050803; EP 1558872 A4 20071226; MX PA05004798 A 20050722; US 2004209209 A1 20041021

DOCDB simple family (application)

US 0335028 W 20031104; AU 2003291705 A 20031104; BR 0315906 A 20031104; CA 2504839 A 20031104; EP 03768597 A 20031104; MX PA05004798 A 20031104; US 70033903 A 20031103