

Title (en)

Pulsed sequence burner control with valve

Title (de)

Brenner mit einer Steuerung der Pulssequenz mit einem Ventil

Title (fr)

Commande de brûleur de séquence d'impulsions avec une soupape

Publication

EP 1215441 A2 20020619 (EN)

Application

EP 01128753 A 20011203

Priority

US 74022700 A 20001218

Abstract (en)

A cooking appliance with a cooktop including at least one gas burner includes a control for sequentially delivering gas and igniting the gas to burner ports. The control comprises a valve with a responsive element for controlling gas flow to the burner ports, an ignition module for generating a drive signal to an ignitor, an electronic controller interfacing with the ignition module and coupled to a driver for actuating a responsive element in the valve. The driver that causes displacement of the responsive element includes a pick up actuator enabling the responsive element to initiate a status that opens the passageway. The valve also includes a holding actuator that enables the responsive element to maintain the status of the passageway as open when flame is detected at the burner. <IMAGE>

IPC 1-7

F23N 5/20; **F23N 5/10**; **F24C 3/12**

IPC 8 full level

F23N 5/10 (2006.01); **F23N 5/20** (2006.01); **F24C 3/12** (2006.01)

CPC (source: EP US)

F23N 5/102 (2013.01 - EP US); **F23N 5/203** (2013.01 - EP US); **F24C 3/126** (2013.01 - EP US); **F23N 2227/36** (2020.01 - EP US); **F23N 2235/14** (2020.01 - EP US); **F23N 2237/02** (2020.01 - EP US); **F23N 2241/08** (2020.01 - EP US)

Cited by

CN106839000A; ES2391516A1; EP1657492A3; US2021116131A1; US11592185B2; ES2291084A1; EP1505344A3; EP1582816A1; ES2262387A1; ES2291083A1; EP1750059A3; ES2668231A1; CN108072056A; ES2310491A1; EP2703723A1; CN104583680A; US7669590B2; US7690916B2; WO2005012799A1; WO2005031215A1; WO2018144423A1; WO2016095003A1; US10739010B2; WO2008155278A3; WO2014032885A1; WO2019086743A3; EP2703723B1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1215441 A2 20020619; **EP 1215441 A3 20031015**; **EP 1215441 B1 20090311**; AT E425419 T1 20090315; CA 2365926 A1 20020618; DE 60137903 D1 20090423; ES 2322330 T3 20090619; US 2002073985 A1 20020620

DOCDB simple family (application)

EP 01128753 A 20011203; AT 01128753 T 20011203; CA 2365926 A 20011217; DE 60137903 T 20011203; ES 01128753 T 20011203; US 74022700 A 20001218