

Title (en)
AN OPERATING MECHANISM FOR SEQUENTIALLY OPERATING A FUEL GAS VALVE AND AN IGNITION MEANS, AND A GAS POWERED APPLIANCE INCORPORATING SUCH A MECHANISM

Title (de)
BETÄTIGUNGSMECHANISMUS ZUM SEQUENTIELLEN BETRIEB VON EINEM BRENNGASVENTIL UND EINER ZÜNDVORRICHTUNG UND GASBETRIEBENES GERÄT MIT EINEM SOLCHEN MECHANISMUS

Title (fr)
MECANISME DE MANOEUVRE POUR MANOEUVRER SEQUENTIELLEMENT UNE SOUPAPE DE GAZ COMBUSTIBLE ET UN MOYEN D'ALLUMAGE, ET APPAREIL A ESSENCE INCORPORANT CE MECANISME

Publication
EP 1327105 A1 20030716 (EN)

Application
EP 01976580 A 20011016

Priority
• IE 0100132 W 20011016
• IE 20000832 A 20001016

Abstract (en)
[origin: WO0233319A1] A hot melt glue gun comprising a main housing (5) having a glue stick accommodating bore (8) extending therethrough and terminating in a dispensing nozzle (9) through which melted glue is dispensed. A catalytic combustion element (16) is located in a combustion chamber (15) for raising the temperature of the main housing (5) to an appropriate temperature for melting the glue stick. Fuel gas is supplied to the catalytic combustion element (16) through a fuel gas valve (20) having a spindle (40) extending therefrom. A piezo electric ignition unit (27) generates an EMF for generating a spark across a pair of electrodes (25) in the combustion chamber (15) for igniting the fuel gas to initially burn with flame combustion to raise the temperature of the catalytic element (16) to its ignition temperature. An operating member (51) and an integral camming member (52) are slideable in the direction of the arrow D from an inoperative state to an operative state for sequentially operating the fuel gas valve (20) from a closed to an open state, and then the piezo electric ignition unit (27) for igniting the fuel gas in the combustion chamber (15). An idle camming surface (55) of the camming member (52) engages a cam follower (53) of the spindle (40) of the fuel gas valve (20) with the fuel gas valve (20) in the closed state, and an operating camming surface (59) engages the cam follower (53) with the fuel gas valve (20) in the open state.

IPC 1-7
F23D 14/28; **F23D 14/18**; **F23Q 3/00**; **F23Q 2/28**

IPC 8 full level
F23D 14/00 (2006.01); **F23D 14/18** (2006.01); **F23D 14/28** (2006.01); **F23N 5/20** (2006.01); **F23Q 2/28** (2006.01); **F23Q 3/00** (2006.01)

CPC (source: EP US)
F23D 14/28 (2013.01 - EP US); **F23Q 2/287** (2013.01 - EP US); **F23Q 3/002** (2013.01 - EP US); **F23D 2207/00** (2013.01 - EP US)

Citation (search report)
See references of WO 0233319A1

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)
WO 0233319 A1 20020425; AU 9584401 A 20020429; EP 1327105 A1 20030716; IE S20010908 A2 20020612; US 2004029060 A1 20040212

DOCDB simple family (application)
IE 0100132 W 20011016; AU 9584401 A 20011016; EP 01976580 A 20011016; IE S20010908 A 20011016; US 39927703 A 20030416