

Title (en)

VALVE ASSEMBLY WITH ELECTRONIC TIMER TO CONTROL OPEN/SHUT FUNCTIONS

Title (de)

VENTILANORDNUNG MIT ELEKTRONISCHEM ZEITSCHALTER FÜR ÖFFNE/SCHLIESS FUNKTION

Title (fr)

ENSEMBLE ROBINET A HORLOGE ELECTRONIQUE POUR COMMANDER LES FONCTIONS D'OUVERTURE ET FERMETURE

Publication

EP 1264131 A4 20050921 (EN)

Application

EP 01910165 A 20010227

Priority

- KR 0100294 W 20010227
- KR 20000010220 A 20000229

Abstract (en)

[origin: WO0165160A1] The present invention relates to a valve assembly equipped with an electronic timer to control the length of time a valve is opened. A valve assembly comprising a timer to electronically predetermine the operation period, a motor having a pin fixed on to one side operates based on a signal from the timer, a valve sensor 15 which is turned on or off by the rotation of the lever member and monitors open/close status of the valve and a valve having a home formed at the valve cap, and a winding spring which is secured onto the main body of the valve and a valve cap connected to the knob to perform the open/close functions of the valve and other end is fixed onto the inside of a valve cap to push the valve cap in the direction of a closed position of the valve as the lever member moves. The valve assembly according to the present invention provides safer way to use a gas fueled cooking device and allows more precise control of valve system.

IPC 1-7

F16K 37/00; **F16K 31/56**

IPC 8 full level

F16K 31/44 (2006.01); **F16K 31/48** (2006.01); **F16K 31/56** (2006.01); **F16K 31/66** (2006.01); **F16K 37/00** (2006.01); **F23N 5/20** (2006.01); **F23N 5/12** (2006.01)

CPC (source: EP KR)

F16K 31/00 (2013.01 - KR); **F16K 31/485** (2013.01 - EP); **F16K 31/56** (2013.01 - EP); **F16K 37/0041** (2013.01 - EP)

Citation (search report)

- [X] GB 2018389 A 19791017 - ROTORK LTD
- [X] US 5915668 A 19990629 - HODAPP GARY DENNIS [US], et al
- [A] US 5094259 A 19920310 - HSU CHUNG-HSIUNG [TW]
- See references of WO 0165160A1

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 0165160 A1 20010907; AU 3774601 A 20010912; CN 1170078 C 20041006; CN 1363023 A 20020807; EP 1264131 A1 20021211; EP 1264131 A4 20050921; JP 2003525413 A 20030826; KR 100359624 B1 20021107; KR 20010084871 A 20010906; KR 200191106 Y1 20000816

DOCDB simple family (application)

KR 0100294 W 20010227; AU 3774601 A 20010227; CN 01800241 A 20010227; EP 01910165 A 20010227; JP 2001563824 A 20010227; KR 20000005683 U 20000229; KR 20000010220 A 20000229