

Title (en)
Safety gas valve with electromagnet

Title (de)
Sicherheitsgasventil mit einem Elektromagnet

Title (fr)
Soupape à gaz de sécurité avec un électro-aimant

Publication
EP 1624247 A3 20130703 (EN)

Application
EP 05380149 A 20050705

Priority
ES 200401895 U 20040803

Abstract (en)
[origin: EP1624247A2] The gas safety valve for a household electrical appliance is the electromagnet (2) actuator type with a U-shaped magnetic core (11) and a movable armature (13) fixed to the member (4) to open up the flow of gas. The electromagnet (2) comprises a thin wire (15) actuating bobbin (7) wound on an insulating spool (13) engaged on one branch (11a) of the core and energised by a DC current, and a thick wire winding (6) on the second branch (11b) of the core for holding the armature (10) attracted and supplied by a flame thermocouple, and a moulded tubular-shaped isolator bushing integral with the spool (13) for the insertion and guiding of the two "phase" conductors (9,8), of the windings (7,6). The phase conductor (9) of the actuating bobbin (7) is formed by braiding the end of the thin wire, and then connected in the valve connector (24).

IPC 8 full level
F23N 5/10 (2006.01); **F23D 14/72** (2006.01); **F23N 5/24** (2006.01)

CPC (source: EP)
F23N 5/102 (2013.01); **F23N 5/24** (2013.01)

Citation (search report)

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

Designated extension state (EPC)
AL BA HR MK YU

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