

Title (en)

Safety electromagnetic valve with internal spring

Title (de)

Elektromagnetisches Sicherheitsventil mit Innenfeder

Title (fr)

Soupape électromagnétique de sécurité dotée d'un ressort interne

Publication

**EP 1909029 A3 20161005 (EN)**

Application

**EP 07380257 A 20070920**

Priority

ES 200602526 A 20061004

Abstract (en)

[origin: EP1909029A2] Electromagnetic flame safety gas valve of the type that is incorporated into a housing (6) of a domestic gas supply tap, that comprises an electromagnet (2) with a core (3) and a movable armature (4) attracted by the core (3) of the electromagnet (2) when it is switched on thereby opening a valve seat (20), a valve sealing member (9) connected to said movable armature (4) in order to move it, a protective casing (10) that houses the electromagnet (2) by enclosing it and a return spring (8) of the sealing member (9) in a rest position when the valve seat is closed. The protective casing (10) is extendable axially and comprises at least one moving element (12) that is moved in conjunction with the sealing member (9) and the movable armature (4), and the return spring (8) is housed in said protective casing (10).

IPC 8 full level

**F23N 1/00** (2006.01); **F23N 5/10** (2006.01)

CPC (source: EP ES)

**F23N 1/005** (2013.01 - EP ES); **F23N 5/105** (2013.01 - EP); **F23N 2235/14** (2020.01 - EP); **F23N 2235/24** (2020.01 - EP)

Citation (search report)

- [X] FR 1436509 A 19660422 - DANFOSS AS
- [A] DE 19837908 A1 19990304 - MIKUNI ADEC CORP [JP]
- [A] US 6745738 B1 20040608 - BOSSCHER RICHARD J [US]

Cited by

EP2211099A1; CN110118279A; EP2873918A1; CN105190176A; CN111878616A; EP2708816A2; US9822976B2; EP2708815A2; EP2827060A1; WO2014139798A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1909029 A2 20080409**; **EP 1909029 A3 20161005**; BR PI0705123 A 20080527; ES 2327993 A1 20091105; ES 2327993 B1 20100906

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