

Title (en)

SAFETY DEVICE FOR A PRESSURIZED GAS TANK AND METHOD FOR OPERATING SAID SAFETY DEVICE

Title (de)

SICHERHEITSVORRICHTUNG FÜR EINEN DRUCKGASTANK UND VERFAHREN ZUM BETREIBEN DER SICHERHEITSVORRICHTUNG

Title (fr)

DISPOSITIF DE SÉCURITÉ POUR RÉSERVOIR DE GAZ SOUS PRESSION ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication

EP 3358240 A1 20180808 (EN)

Application

EP 18154522 A 20180131

Priority

IT 201700010577 A 20170131

Abstract (en)

Safety device for a pressurized gas tank, comprising a support body (2) internally delimiting an evacuation channel (4), and a shutter (7) placed to intercept the evacuation channel (4), extended along a main extension axis (Y) and movable between a closed position, in which the shutter (7) is placed to close the evacuation channel (4) and an open position, in which the shutter (7) at least partially frees the evacuation channel (4). The shutter (7) comprises: a shaft (10) extended along the main extension axis (Y) and at least partially inserted within the evacuation channel (4); a closure head (8) placed at a first end (27) of the shaft (10); a spring (9) wound around the shaft (10) and interposed between the support body (2) and a contrast element (11) fixed to a second end (23) of the shaft (10), adapted to force the closure head (8) of the shutter (7) into the closed position; and a fusible element (14). The closure head (8) comprises a hollow sleeve (17) provided with a through hole (16) slidably traversed by the shaft (10) and delimiting a housing space (15) in which the fusible element (14) is housed; the shutter (7) comprises a retention element (21) fixed to the shaft (10) at its first end (27), which is pulled by the spring (9) against the fusible element (14).

IPC 8 full level

F17C 13/04 (2006.01)

CPC (source: EP)

F17C 13/04 (2013.01); **F17C 2205/0317** (2013.01); **F17C 2205/0332** (2013.01); **F17C 2221/035** (2013.01); **F17C 2223/0123** (2013.01); **F17C 2223/0153** (2013.01); **F17C 2223/033** (2013.01); **F17C 2223/036** (2013.01); **F17C 2260/021** (2013.01); **F17C 2260/023** (2013.01); **F17C 2260/026** (2013.01); **F17C 2270/0168** (2013.01)

Citation (search report)

- [A] EP 1521022 A1 20050406 - FIAT RICERCHÉ [IT]
- [A] WO 2013145777 A1 20131003 - SANYO ELECTRIC CO [JP]
- [A] WO 2012091522 A2 20120705 - CIJ CO LTD [KR], et al
- [A] WO 2009010177 A1 20090122 - TOMASETTO ACHILLE S P A [IT], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3358240 A1 20180808; **EP 3358240 B1 20190814**; IT 201700010577 A1 20180731; PL 3358240 T3 20200430

DOCDB simple family (application)

EP 18154522 A 20180131; IT 201700010577 A 20170131; PL 18154522 T 20180131