

Title (en)
Poly valve device for gas tank

Title (de)
Vorrichtung mit mehreren Ventilen für einen Gasbehälter

Title (fr)
Dispositif poly-valve pour réservoir de gaz

Publication
EP 2006600 A1 20081224 (EN)

Application
EP 07110903 A 20070622

Priority
EP 07110903 A 20070622

Abstract (en)
A poly valve device for a gas tank comprising a valve body (1) with a flange (2) for mounting the device on the gas tank; an overfill protection valve (3) mounted on an internal side of the valve body (1) with regard to the tank when the device is mounted thereon; a fill port (4) on an external side of the valve body (1) and in communication with the overfill protection valve (3); a level indicator means (6,7) on the internal side of the valve body (1); means (8,9) for transmitting information of the level of liquid in the tank from the level indicator means (6) to the external side of the valve body (1); a valve means mounted on the valve body for delivering gas from the tank to a user; wherein the poly valve device further comprises a level sensing means (5) with a floater (10) hinged on the overfill protection valve (3) and/or on the level indicator means (6) and cooperating with both of them for providing information of the level of liquid.

IPC 8 full level
F17C 13/04 (2006.01); **F17C 13/02** (2006.01)

CPC (source: EP)
F17C 13/021 (2013.01); **F17C 13/04** (2013.01); **F17C 2221/035** (2013.01); **F17C 2223/0153** (2013.01); **F17C 2223/033** (2013.01); **F17C 2250/0408** (2013.01); **F17C 2250/0413** (2013.01); **F17C 2250/075** (2013.01); **F17C 2260/022** (2013.01); **F17C 2270/0168** (2013.01)

Citation (search report)

- [XY] EP 1688650 A1 20060809 - TORRENT TRADING LTD [VG]
- [X] US 4483367 A 19841120 - ROSS JR HERBERT G [US], et al
- [A] EP 1666779 A2 20060607 - TORRENT TRADING LTD [VG]
- [DA] FR 2816033 A1 20020503 - GIAT IND SA [FR]
- [Y] WO 0002015 A2 20000113 - ROCHESTER GAUGES INC [US]
- [A] US 5027871 A 19910702 - GUENTHER MATHIAS J J [CA]
- [Y] EP 0026407 A1 19810408 - LAMSON & SESSIONS CO [US]
- [A] US 4651628 A 19870324 - ZAG HEINZ [DE], et al
- [A] JP 2002242571 A 20020828 - KOKEN BORING MACHINE CO

Cited by
WO2016146741A1

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 2006600 A1 20081224; EP 2006600 B1 20120425; AT E555347 T1 20120515; AU 2008267824 A1 20081231; CN 101779073 A 20100714; CN 101779073 B 20120215; EA 017571 B1 20130130; EA 201070043 A1 20100630; JP 2010530944 A 20100916; JP 5420536 B2 20140219; PL 2006600 T3 20120928; WO 2009000770 A2 20081231; WO 2009000770 A3 20090226

DOCDB simple family (application)
EP 07110903 A 20070622; AT 07110903 T 20070622; AU 2008267824 A 20080620; CN 200880025556 A 20080620; EA 201070043 A 20080620; EP 2008057871 W 20080620; JP 2010512702 A 20080620; PL 07110903 T 20070622