

Title (en)

RESIDUAL PRESSURE VALVE DEVICE, VALVE AND CYLINDER HAVING SUCH A DEVICE

Title (de)

RESTDRUCKVENTILVORRICHTUNG, VENTIL UND ZYLINDER MIT EINER SOLCHEN VORRICHTUNG

Title (fr)

DISPOSITIF DE CLAPET DE PRESSION RÉSIDUELLE, ROBINET ET BOUTEILLE COMPORTANT UN TEL DISPOSITIF

Publication

**EP 2904306 B1 20161130 (FR)**

Application

**EP 13782772 A 20131001**

Priority

- FR 1259299 A 20121002
- FR 2013052334 W 20131001

Abstract (en)

[origin: WO2014053764A1] The invention relates to a residual pressure valve device comprising a shut-off member (1) that is able to move in the body (9) relative to a seat (2), a return member (5) that urges the shut-off member (1) by default towards the seat (2), the shut-off member (1) comprising an internal duct (6) having a first end in communication with the gas inlet (3) and a second end that leads, via a calibrated orifice (8), into a control chamber (7) that is closed by the shut-off member (1) such that, when the gas pressure in the control chamber (7) reaches a predetermined threshold, this pressure causes the shut-off member (1) to move away from the seat (2), the body of the shut-off member (1) comprising a first portion (11) that forms a male element which is able to move in translation in a female passage of the body (9) with a predetermined fit forming a restriction ensuring partial and progressive opening of the passage for the gas between the inlet (3) and the outlet (4).

IPC 8 full level

**F17C 13/04** (2006.01)

CPC (source: EP US)

**F17C 13/04** (2013.01 - EP US); **F17C 2205/0323** (2013.01 - EP US); **F17C 2205/0338** (2013.01 - EP US); **F17C 2205/0382** (2013.01 - EP US); **F17C 2205/0394** (2013.01 - EP US); **F17C 2223/0123** (2013.01 - EP US); **F17C 2223/036** (2013.01 - EP US); **F17C 2227/048** (2013.01 - EP US); **Y10T 137/7758** (2015.04 - EP US)

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

DOCDB simple family (publication)

**FR 2996278 A1 20140404**; **FR 2996278 B1 20141031**; CA 2884804 A1 20140410; CN 104685288 A 20150603; CN 104685288 B 20160907; EP 2904306 A1 20150812; EP 2904306 B1 20161130; JP 2015532401 A 20151109; JP 6254171 B2 20171227; KR 20150063398 A 20150609; US 2015276132 A1 20151001; US 9677715 B2 20170613; WO 2014053764 A1 20140410

DOCDB simple family (application)

**FR 1259299 A 20121002**; CA 2884804 A 20131001; CN 201380051434 A 20131001; EP 13782772 A 20131001; FR 2013052334 W 20131001; JP 2015535088 A 20131001; KR 20157007872 A 20131001; US 201314433266 A 20131001