

Title (en)
METHOD FOR DELIVERING A LIQUID PRESSURISED BY THE COMBUSTION GASES FROM AT LEAST ONE PYROTECHNIC CHARGE

Title (de)
VERFAHREN ZUR ABGABE EINER DURCH VERBRENNUNGSGASE AUS MINDESTENS EINER PYROTECHNISCHEN LADUNG UNTER DRUCK STEHENDEN FLÜSSIGKEIT

Title (fr)
PROCÉDÉ DE DÉLIVRANCE D'UN LIQUIDE PRESSURISÉ PAR LES GAZ DE COMBUSTION D'AU MOINS UN CHARGEMENT PYROTECHNIQUE

Publication
EP 3013438 B1 20230802 (FR)

Application
EP 14749902 A 20140627

Priority
• FR 1356287 A 20130628
• FR 2014051644 W 20140627

Abstract (en)
[origin: WO2014207403A1] The present invention mainly concerns a method for delivering a liquid (L) contained in a tank (1), said tank (1) having at least one port (2) for delivering said liquid (L) sealed by a seal (3) that can be retracted when a threshold pressure is applied to said liquid (L), comprising: the combustion of at least one pyrotechnic charge (7) in order to generate combustion gases, the pressurisation of said liquid (L) under the action of said combustion gases, and the retraction of said retractable seal (3) from said at least one delivery port (2) and the delivery of said pressurised liquid (L), characterised in that the flow of generated combustion gases during the delivery of said liquid (L) provides almost constant pressurisation of said liquid (L) and therefore the delivery of said liquid (L) at an almost constant flow rate; the pressure of said liquid (L) during the delivery of said liquid varying by a maximum of only +/- 30 %, advantageously by a maximum of only +/- 20 %, and very advantageously by a maximum of only +/- 10 %, relative to the initial of same at the time when said seal or seals (3) is/are retracted; and in that it is implemented in a device (100; 101; 102) comprising said tank (1) and at least one pyrotechnic gas generator (15; 16; 17) containing said at least one pyrotechnic charge (7; 7'; 70; 700; 700'); said at least one pyrotechnic gas generator (15; 16; 17) being connected to said tank (1) and a movable member (4) for separating the generated combustion gases and said liquid (L) being provided inside said device (100; 101; 102).

IPC 8 full level
A62C 13/22 (2006.01); **A62C 35/02** (2006.01); **A62C 35/08** (2006.01)

CPC (source: EP US)
A62C 13/22 (2013.01 - EP US); **A62C 35/023** (2013.01 - EP US); **A62C 35/08** (2013.01 - 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 3007659 A1 20150102; **FR 3007659 B1 20170324**; CN 105492085 A 20160413; CN 105492085 B 20191001; EP 3013438 A1 20160504; EP 3013438 B1 20230802; JP 2016523646 A 20160812; JP 6358511 B2 20180718; US 10159861 B2 20181225; US 2016175628 A1 20160623; WO 2014207403 A1 20141231

DOCDB simple family (application)
FR 1356287 A 20130628; CN 201480047078 A 20140627; EP 14749902 A 20140627; FR 2014051644 W 20140627; JP 2016522711 A 20140627; US 201414392170 A 20140627