

Title (en)
A REGULATOR ASSEMBLY FOR A PRESSURISED GAS CYLINDER

Title (de)
REGLERBAUGRUPPE FÜR EINEN DRUCKGASZYLINDER

Title (fr)
ENSEMBLE DE RÉGULATEUR DESTINÉ À UNE BOUTEILLE DE GAZ SOUS PRESSION

Publication
EP 3312494 A1 20180425 (EN)

Application
EP 17197877 A 20171023

Priority
GB 201616545 A 20160929

Abstract (en)
The regulator assembly has a first stage regulator with a first inlet for receiving high pressure gas from the cylinder. A first regulator element reduces the pressure of the gas which exits the first stage regulator via a first outlet at a regulated pressure. A second stage regulator is provided with a second inlet for receiving the gas at the regulated pressure, and a second regulator element further reduces the pressure of the gas which exits the second stage regulator via a second outlet at an outlet pressure which is lower than the regulated pressure. A pilot regulator receives gas at the regulated pressure from the first stage regulator. The pilot regulator is controlled by an actuator to set a pilot pressure which is communicated to the second stage regulator to set the outlet pressure delivered by the second stage regulator.

IPC 8 full level
F17C 13/00 (2006.01); **F17C 13/04** (2006.01)

CPC (source: EP GB)
F17C 13/04 (2013.01 - EP GB); **F17C 2201/056** (2013.01 - EP); **F17C 2201/058** (2013.01 - EP); **F17C 2205/0338** (2013.01 - EP GB); **F17C 2205/0385** (2013.01 - EP); **F17C 2205/0394** (2013.01 - EP); **F17C 2223/0123** (2013.01 - EP); **F17C 2223/035** (2013.01 - EP); **F17C 2270/0545** (2013.01 - EP)

Citation (search report)

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- [A] WO 2009077520 A1 20090625 - LUXEMBOURG PATENT CO [LU], et al
- [A] US 4219017 A 19800826 - BURR JOHN D [US], et al
- [AP] WO 2016156520 A1 20161006 - LINDE AG [DE]
- [AP] WO 2016156519 A1 20161006 - LINDE AG [DE]

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 3312494 A1 20180425; **EP 3312494 B1 20210414**; AU 2017235903 A1 20180412; AU 2017235903 B2 20230202; CA 2980428 A1 20180329; GB 201616545 D0 20161116; GB 2554642 A 20180411

DOCDB simple family (application)
EP 17197877 A 20171023; AU 2017235903 A 20170926; CA 2980428 A 20170927; GB 201616545 A 20160929