

Title (en)

Safety sealing connecting device for gas cylinder

Title (de)

Sicherheits-Abdichtungsverbindung für einen Gaszylinder

Title (fr)

Connexion sécurée d'étanchéité pour un cylindre de gas

Publication

EP 3037712 A1 20160629 (EN)

Application

EP 14004382 A 20141223

Priority

EP 14004382 A 20141223

Abstract (en)

A sealing device comprising, - a piercing housing for holding a gas cylinder with a top surface comprising a gas outlet - the piercing housing comprising side walls and a bottom wall which is vertical to the axis of the cylinder - a piercing member arranged in the piercing housing for piercing the gas outlet of the cylinder and at least one first seal assembly to form a seal for the pierced top surface of the cylinder between the bottom wall of the piercing housing and the top surface of the cylinder and at least one second seal assembly to form a seal between the side walls of the piercing housing and the cylinder. At least one bayonet mount with a male part and a female part is provided for connecting the cylinder with the piercing housing.

IPC 8 full level

F17C 1/00 (2006.01)

CPC (source: EP)

F17C 1/00 (2013.01); **F17C 13/04** (2013.01); **F17C 2201/0109** (2013.01); **F17C 2201/0123** (2013.01); **F17C 2201/058** (2013.01); **F17C 2203/0614** (2013.01); **F17C 2205/0111** (2013.01); **F17C 2205/0305** (2013.01); **F17C 2205/0311** (2013.01); **F17C 2205/032** (2013.01); **F17C 2205/0323** (2013.01); **F17C 2205/0332** (2013.01); **F17C 2205/0373** (2013.01); **F17C 2209/2109** (2013.01); **F17C 2209/2118** (2013.01); **F17C 2221/011** (2013.01); **F17C 2221/013** (2013.01); **F17C 2221/016** (2013.01); **F17C 2221/031** (2013.01); **F17C 2223/0123** (2013.01); **F17C 2223/036** (2013.01); **F17C 2270/0736** (2013.01)

Citation (applicant)

US 2012073674 A1 20120329 - TATAREK ANDREW RICHARD THOMAS [GB], et al

Citation (search report)

- [XII] US 2004107951 A1 20040610 - D ARCY KENNETH R [US], et al
- [X] US 2890815 A 19590616 - FELICIEN CORLET GABRIEL
- [A] WO 2014037425 A1 20140313 - LINDE AG [DE]
- [A] FR 2216514 A1 19740830 - NIPPON PISTON RING CO LTD [JP]
- [A] GB 2496456 A 20130515 - LINDE AG [DE]

Cited by

GB2552988A; CN107327692A; CN113531383A; CN116928592A; WO2023072506A1

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)

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