

Title (en)  
A MULTIPLE SEAL GAS CYLINDER

Title (de)  
GASZYLINDER MIT MEHRFACHDICHTUNG

Title (fr)  
CYLINDRE À GAZ À MULTIPLES JOINTS D'ÉTANCHÉITÉ

Publication  
**EP 3130833 A1 20170215 (EN)**

Application  
**EP 15002420 A 20150813**

Priority  
EP 15002420 A 20150813

Abstract (en)  
A connecting arrangement for a gas cylinder having a neck with a side surface and a top surface including a gas outlet comprises, - a piercing housing for receiving the neck of the gas cylinder comprising an opening, a side wall and a bottom wall - a piercing member arranged in the piercing housing for piercing the gas outlet - a collar arranged on the neck of the gas cylinder having a side surface which extends above the top surface of the gas cylinder and defines an inner space - a primary seal element arranged in the inner space forming a seal with the top surface of the gas cylinder - wherein the primary seal element is so arranged that a spacing is formed between the collar and the primary seal element wherein in that a seal support element is arranged in the piercing housing which defines a chamber having an opening in the direction of the opening of the piercing housing such that the primary seal element fills the chamber when the piercing member is received in the collar to pierce the gas outlet and a radial expansion of the primary seal element in response to forming a seal with the piercing member is restrained in this chamber by the seal support element, wherein the primary seal element and the collar are unattached to the piercing member and the seal support element.

IPC 8 full level  
**F17C 1/00** (2006.01)

CPC (source: EP)  
**F17C 1/00** (2013.01); **F17C 2201/058** (2013.01); **F17C 2205/032** (2013.01); **F17C 2205/0373** (2013.01); **F17C 2221/011** (2013.01); **F17C 2221/013** (2013.01); **F17C 2221/014** (2013.01); **F17C 2221/016** (2013.01); **F17C 2221/03** (2013.01); **F17C 2221/031** (2013.01); **F17C 2260/036** (2013.01); **F17C 2270/0736** (2013.01)

Citation (search report)  
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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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DOCDB simple family (application)  
**EP 15002420 A 20150813**; EP 2016001329 W 20160802; TW 105125844 A 20160812