

Title (en)
COUPLING DEVICE FOR A COMPRESSED GAS CYLINDER

Title (de)
KUPPLUNG FÜR EINE DRUCKGASFLASCHE

Title (fr)
DISPOSITIF D'ACCOUPLEMENT D'UNE BOUTEILLE DE GAZ SOUS PRESSION

Publication
EP 1745231 B1 20080416 (DE)

Application
EP 05755933 A 20050509

Priority

- DE 2005000874 W 20050509
- DE 102004024597 A 20040513

Abstract (en)
[origin: US7757712B2] A coupling for a compressed gas cylinder (2) includes a separate coupling part (12) that can be screwed to the standardized fitting (3) on the cylinder valve (1). The connection to the coupling means (7) of a pressure reducer (6) or the like is provided by plug-and-socket-type connecting means that can be plugged into each other, interlocked, and closed off by means of locking elements to prevent contamination from outside, the locking element provided on the coupling part at the same time forming a blow-off protection that allows only a limited gas flow when the cylinder valve is opened in uncoupled condition.

IPC 8 full level
F16K 1/30 (2006.01); **F16L 37/23** (2006.01); **F16L 37/34** (2006.01); **F17C 13/04** (2006.01)

CPC (source: EP US)
F17C 13/04 (2013.01 - EP US); **F17C 2201/0109** (2013.01 - EP US); **F17C 2205/0329** (2013.01 - EP US); **F17C 2205/0338** (2013.01 - EP US); **F17C 2205/037** (2013.01 - EP US); **F17C 2221/031** (2013.01 - EP US); **F17C 2223/0123** (2013.01 - EP US); **F17C 2223/035** (2013.01 - EP US); **F17C 2250/0626** (2013.01 - EP US); **F17C 2270/0139** (2013.01 - EP US); **F17C 2270/025** (2013.01 - EP US); **F17C 2270/0745** (2013.01 - EP US); **Y10T 137/87949** (2015.04 - EP US); **Y10T 137/87965** (2015.04 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005111478 A1 20051124; AT E392576 T1 20080515; AU 2005243566 A1 20051124; AU 2005243566 B2 20090319; CN 100507326 C 20090701; CN 1961171 A 20070509; DE 102004024597 A1 20051208; DE 102004024597 B4 20060209; DE 502005003750 D1 20080529; EP 1745231 A1 20070124; EP 1745231 B1 20080416; ES 2306168 T3 20081101; JP 2007537401 A 20071220; JP 4547003 B2 20100922; RU 2006144103 A 20080620; RU 2351831 C2 20090410; US 2008236687 A1 20081002; US 7757712 B2 20100720

DOCDB simple family (application)
DE 2005000874 W 20050509; AT 05755933 T 20050509; AU 2005243566 A 20050509; CN 200580015337 A 20050509; DE 102004024597 A 20040513; DE 502005003750 T 20050509; EP 05755933 A 20050509; ES 05755933 T 20050509; JP 2007511858 A 20050509; RU 2006144103 A 20050509; US 59626505 A 20050509