

Title (en)
COMPRESSED GAS CYLINDER BUNDLE

Title (de)
DRUCKGASFLASCHENBÜNDEL

Title (fr)
CADRES DE BOUTEILLES DE GAZ COMPRIMÉ

Publication
EP 2904307 B1 20180704 (DE)

Application
EP 13766354 A 20130925

Priority
• DE 102012019702 A 20121006
• EP 2013069991 W 20130925

Abstract (en)
[origin: WO2014053376A1] In compressed gas cylinder bundles according to the prior art, the mechanical energy arising in the event of impacts or falls must be absorbed elastically by the frame elements of the bundle frame in order to protect compressed gas cylinders, pipes and fittings against damage. The bundle frames are built correspondingly solidly, have a high weight and are difficult to handle. According to the invention, the bundle frame of a compressed gas cylinder bundle is fitted with safety elements which deform plastically in the event of an impact or fall and in this way absorb at least a part of the forces arising. In this way, the bundle frame can be designed to be lighter, maintaining the same level of safety. Loops, collars or horns are provided as the elastically deformable elements.

IPC 8 full level
F17C 13/08 (2006.01)

CPC (source: EP)
F17C 13/084 (2013.01); **F17C 2201/0109** (2013.01); **F17C 2201/032** (2013.01); **F17C 2201/056** (2013.01); **F17C 2205/0107** (2013.01); **F17C 2205/0142** (2013.01); **F17C 2205/0196** (2013.01); **F17C 2205/0329** (2013.01); **F17C 2205/0338** (2013.01); **F17C 2223/0123** (2013.01); **F17C 2223/035** (2013.01); **F17C 2250/043** (2013.01); **F17C 2260/012** (2013.01)

Citation (examination)
• US 2004159352 A1 20040819 - FRIEDLMEIER GERARDO [DE], et al
• US 2008164251 A1 20080710 - FAWLEY NORMAN C [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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102012019702 A1 20140410; EP 2904307 A1 20150812; EP 2904307 B1 20180704; ES 2689438 T3 20181114;
WO 2014053376 A1 20140410

DOCDB simple family (application)
DE 102012019702 A 20121006; EP 13766354 A 20130925; EP 2013069991 W 20130925; ES 13766354 T 20130925