

## SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

### F17 STORING OR DISTRIBUTING GASES OR LIQUIDS

**F17C VESSELS FOR CONTAINING OR STORING COMPRESSED, LIQUEFIED, OR SOLIDIFIED GASES; FIXED-CAPACITY GAS-HOLDERS; FILLING VESSELS WITH, OR DISCHARGING FROM VESSELS, COMPRESSED, LIQUEFIED, OR SOLIDIFIED GASES** (storing fluids in natural or artificial cavities or chambers in the earth B65G 5/00; construction or assembling of bulk storage containers employing civil-engineering techniques E04H 7/00; variable-capacity gas-holders F17B; liquefaction or refrigeration machines, plants, or systems F25)

#### Subclass index

VESSELS UNDER PRESSURE; VESSELS NOT UNDER PRESSURE; DETAILS.....1/00, 3/00, 13/00  
 FILLING; DISCHARGING.....5/00, 6/00, 7/00, 9/00  
 USE OF GAS-SOLVENTS OR GAS-ABSORBENTS.....11/00

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| <p><b>1/00 Pressure vessels, e.g. gas cylinder, gas tank, replaceable cartridge</b> (pressurised apparatus for purposes other than storage, <u>see</u> the relevant subclasses such as A62C, B05B; associated with vehicles, <u>see</u> the appropriate subclass of classes B60-B64; pressure vessels in general F16J 12/00)</p> <p>1/02 • involving reinforcing arrangements [4]</p> <p>1/04 • • Protecting sheatings</p> <p>1/06 • • • built-up from wound-on bands or filamentary material, e.g. wires [4]</p> <p>1/08 • • Integral reinforcements, e.g. ribs</p> <p>1/10 • with provision for protection against corrosion, e.g. due to gaseous acid (inhibiting corrosion of metallic material or incrustation in general C23F) [4]</p> <p>1/12 • with provision for thermal insulation (thermal insulation in general F16L 59/00) [4]</p> <p>1/14 • constructed of aluminium; constructed of non-magnetic steel</p> <p>1/16 • constructed of plastics materials</p> <p><b>3/00 Vessels not under pressure</b></p> <p>3/02 • with provision for thermal insulation (thermal insulation in general F16L 59/00)</p> <p>3/04 • • by insulating layers (F17C 3/08 takes precedence)</p> <p>3/06 • • • on the inner surface, i.e. in contact with the stored fluid [4]</p> <p>3/08 • • by vacuum spaces, e.g. Dewar flask (for household use A47J 41/02)</p> <p>3/10 • • by liquid-circulating or vapour-circulating jackets</p> <p>3/12 • with provision for protection against corrosion, e.g. due to gaseous acid (protection against corrosion in general C23F)</p> <p><b>5/00 Methods or apparatus for filling pressure vessels with liquefied, solidified, or compressed gases</b> (adding propellants to aerosol containers B65B 31/00)</p> <p><b>Note(s)</b><br/>       This group <u>covers</u>:</p> | <ul style="list-style-type: none"> <li>• the filling of vessels for storage of compressed or liquefied gases;</li> <li>• the filling of pressurised apparatus insofar as it is not covered by a single other subclass, e.g. A62C, B05B.</li> </ul> <p>5/02 • for filling with liquefied gases</p> <p>5/04 • • requiring the use of refrigeration, e.g. filling with helium or hydrogen</p> <p>5/06 • for filling with compressed gases</p> <p><b>6/00 Methods or apparatus for filling vessels not under pressure with liquefied or solidified gases</b> [3]</p> <p><b>7/00 Methods or apparatus for discharging liquefied, solidified, or compressed gases from pressure vessels, not covered by another subclass</b></p> <p>7/02 • Discharging liquefied gases</p> <p>7/04 • • with change of state, e.g. vaporisation [3]</p> <p><b>9/00 Methods or apparatus for discharging liquefied or solidified gases from vessels not under pressure</b></p> <p>9/02 • with change of state, e.g. vaporisation</p> <p>9/04 • • Recovery of thermal energy [3]</p> <p><b>11/00 Use of gas-solvents or gas-sorbents in vessels</b></p> <p><b>13/00 Details of vessels or of the filling or discharging of vessels</b></p> <p>13/02 • Special adaptations of indicating, measuring, or monitoring equipment (measuring in general G01)</p> <p>13/04 • Arrangement or mounting of valves (valves <u>per se</u> F16K)</p> <p>13/06 • Closures, e.g. cap, breakable member (closures for containers in general B65D)</p> <p>13/08 • Mounting arrangements for vessels</p> <p>13/10 • Arrangements for preventing freezing</p> <p>13/12 • Arrangements or mounting of devices for preventing or minimising the effect of explosion (flame traps A62C 4/00)</p> |
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