

CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

ENGINEERING IN GENERAL

F17 STORING OF DISTRIBUTING GASES OR LIQUIDS (water supply [E03B](#))

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](#))

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| <p>1/00 Pressure vessels, e.g. gas cylinder, gas tank, replaceable cartridge (pressurised apparatus for purposes other than storage, see the relevant subclasses such as A62C, B05B; associated with vehicles, see the appropriate subclass of classes B60 - B64; pressure vessels in general F16J 12/00 {; autoclaves B01J 3/04; tank vehicles B60P 3/22; railway tank wagons for carrying fluent materials B61D 5/00; accumulators for supplying fluid under pressure F15B 1/04; liquefied gas stoves F24C 3/00)</p> <p>1/002 . {Storage in barges or on ships}</p> <p>1/005 . {Storage of gas or gaseous mixture at high pressure and at high density condition, e.g. in the single state phase}</p> <p>1/007 . {Underground or underwater storage}</p> <p>1/02 . involving reinforcing arrangements ({F17C 1/14, F17C 1/16 take precedence})</p> <p>1/04 . . Protecting sheathings</p> <p>1/06 . . . built-up from wound-on bands or filamentary material, e.g. wires</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 ({F17C 1/14, F17C 1/16 take precedence}; inhibiting corrosion of metallic material or incrustation in general C23F)</p> <p>1/12 . with provision for thermal insulation ({F17C 1/14, F17C 1/16 take precedence}; thermal insulation in general F16L 59/00)</p> <p>1/14 . constructed of aluminium; constructed of non-magnetic steel</p> <p>1/16 . constructed of plastics materials ({shaping of plastics B29C})</p> <p>3/00 Vessels not under pressure</p> <p>3/005 . {Underground or underwater containers or vessels (storing in natural or artificial cavities in the earth in general B65G 5/00)}</p> <p>3/02 . with provision for thermal insulation (thermal insulation in general F16L 59/00 {; refrigerators F25D; insulation specially adapted for cryogenic vessels F17C 13/001; tank vehicles B60P 3/22; railway tank wagons B61D 5/00)</p> | <p>3/022 . . {Land-based bulk storage containers (civil engineering aspects E04H 7/00)}</p> <p>3/025 . . {Bulk storage in barges or on ships (constructive aspects B63B 25/16)}</p> <p>3/027 . . . {Wallpanels for so-called membrane tanks}</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</p> <p>3/08 . . by vacuum spaces, e.g. Dewar flask (for household use A47J 41/02)</p> <p>3/085 . . . {Cryostats}</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>5/00 Methods or apparatus for filling containers with liquefied, solidified, or compressed gases under pressures (adding propellants to aerosol containers B65B 31/00)</p> <p>NOTE</p> <p>This group includes not only the filling of vessels for storage of compressed or liquefied gases, but also the filling of pressurised apparatus insofar as it is not covered by a single other subclass, e.g. A62C, B05B.</p> <p>5/002 . {Automated filling apparatus}</p> <p>5/005 . . {for gas bottles, such as on a continuous belt or on a merry-go-round}</p> <p>5/007 . . {for individual gas tanks or containers, e.g. in vehicles (filling with liquid fuel not under pressure, B60S 5/02, B67D 7/00)}</p> <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>6/00 Methods and apparatus for filling vessels not under pressure with liquefied or solidified gases</p> |
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- 7/00 Methods or apparatus for discharging liquefied, solidified, or compressed gases from pressure vessels, not covered by another subclass**
- 7/02 . Discharging liquefied gases
 - 7/04 . . with change of state, e.g. vaporisation
- 9/00 Methods or apparatus for discharging liquefied or solidified gases from vessels not under pressure**
- 9/02 . with change of state, e.g. vaporisation
 - 9/04 . . Recovery of thermal energy
- 11/00 Use of gas-solvents or gas-sorbents in vessels**
{(absorbing compositions for acetylene [C10L 3/04](#); absorbing compositions for hydrogen [C01B 3/0005](#))}
- 11/002 . {for acetylene}
 - 11/005 . {for hydrogen}
 - 11/007 . {for hydrocarbon gases, such as methane or natural gas, propane, butane or mixtures thereof [LPG]}
- 13/00 Details of vessels or of the filling or discharging of vessels**
- 13/001 . {Thermal insulation specially adapted for cryogenic vessels (vessels not under pressure with insulation [F17C 3/02](#); thermal insulation in general [F16L 59/00](#))}
 - 13/002 . {for vessels under pressure ([F17C 13/008](#) and [F17C 13/02](#) - [F17C 13/12](#) take precedence)}
 - 13/003 . . {Means for coding or identifying them and/or their contents}
 - 13/004 . {for large storage vessels not under pressure ([F17C 13/008](#) and [F17C 13/02](#) - [F17C 13/12](#) take precedence)}
 - 13/005 . {for medium-size and small storage vessels not under pressure ([F17C 13/008](#) and [F17C 13/02](#) - [F17C 13/12](#) take precedence)}
 - 13/006 . . {for Dewar vessels or cryostats}
 - 13/007 . . . {used for superconducting phenomena (investigating by nuclear magnetic resonance [G01N 24/08](#); magnets having superconductive winding [H01F 6/00](#))}
 - 13/008 . {for use under microgravity conditions}
 - 13/02 . Special adaptations of indicating, measuring, or monitoring equipment (measuring in general [G01](#))
 - 13/021 . . {having the height as the parameter}
 - 13/023 . . {having the mass as the parameter}
 - 13/025 . . {having the pressure as the parameter}
 - 13/026 . . {having the temperature as the parameter}
 - 13/028 . . {having the volume as the parameter}
 - 13/04 . Arrangement or mounting of valves (valves [per se](#) [F16K](#) {; snap-coupling of nipples [F16L 37/00](#))}
 - 13/045 . . {Automatic change-over switching assembly for bottled gas systems with two (or more) gas containers}
 - 13/06 . Closures, e.g. cap, breakable member ({for autoclaves [B01J 3/03](#)}; closures for {large} containers in general [B65D](#) {[B65D 90/54](#)}; {for pressure vessels in general [F16J 13/00](#))}
 - 13/08 . Mounting arrangements for vessels
 - 13/081 . . {for large land-based storage vessels (supports for large containers in general [B65D 90/12](#))}
 - 13/082 . . {for large sea-borne storage vessels (load-accommodating arrangements for ships or waterborne vessels [B63B 25/12](#))}
 - 13/083 . . {for medium-sized mobile storage vessels, e.g. tank vehicles or railway tank vehicles}
- 13/084 . . {for small-sized storage vessels, e.g. compressed gas cylinders or bottles, disposable gas vessels, vessels adapted for automotive use}
- 13/085 . . . {on wheels ([hand carts](#) [B62B](#))}
- 13/086 . . . {for Dewar vessels or cryostats}
- 13/087 . . . {used for superconducting phenomena}
- 13/088 . . {for use under microgravity conditions}
- 13/10 . Arrangements for preventing freezing
- 13/12 . Arrangements or mounting of devices for preventing or minimising the effect of explosion ([flame traps](#) [A62C 4/00](#)) {; Other safety measures}
- 13/123 . . {for gas bottles, cylinders or reservoirs for tank vehicles or for railway tank wagons}
- 13/126 . . {for large storage containers for liquefied gas (for large containers in general [B65D 90/22](#))}
- 2201/00 Vessel construction, in particular geometry, arrangement or size**
- 2201/01 . Shape
 - 2201/0104 . . cylindrical
 - 2201/0109 . . . with exteriorly curved end-piece
 - 2201/0114 . . . with interiorly curved end-piece
 - 2201/0119 . . . with flat end-piece
 - 2201/0123 . . . with variable thickness or diameter
 - 2201/0128 . . spherical or elliptical
 - 2201/0133 . . toroidal
 - 2201/0138 . . tubular
 - 2201/0142 . . conical
 - 2201/0147 . . complex
 - 2201/0152 . . . Lobes
 - 2201/0157 . . . Polygonal
 - 2201/0161 . . . Honeycomb
 - 2201/0166 . . . divided in several chambers
 - 2201/0171 . . . comprising a communication hole between chambers
 - 2201/0176 . . variable
 - 2201/018 . . . with bladders
 - 2201/0185 . . . with separating membrane
 - 2201/019 . . . with pistons
 - 2201/0195 . . . with bellows
 - 2201/03 . Orientation
 - 2201/032 . . with substantially vertical main axis
 - 2201/035 . . with substantially horizontal main axis
 - 2201/037 . . with sloping main axis
 - 2201/05 . Size
 - 2201/052 . . large (>1000 m³)
 - 2201/054 . . medium (>1 m³)
 - 2201/056 . . Small (<1 m³)
 - 2201/058 . . portable (<30 l)
 - 2201/06 . Vessel construction using filling material in contact with the handled fluid
- 2203/00 Vessel construction, in particular walls or details thereof**
- 2203/01 . Reinforcing or suspension means
 - 2203/011 . . Reinforcing means
 - 2203/012 . . . on or in the wall, e.g. ribs
 - 2203/013 . . . in the vessel, e.g. columns
 - 2203/014 . . Suspension means
 - 2203/015 . . . Bars
 - 2203/016 . . . Cords
 - 2203/017 . . . Magnetic means
 - 2203/018 . . . by attachment at the neck

2203/03	. Thermal insulations	2203/0687	. . . superconducting
2203/0304	. . by solid means	2203/069	. . . Break point in the wall
2203/0308	. . . Radiation shield	2203/0692	. . . transparent
2203/0312	. . . . cooled by external means	2203/0695	. . . pre-constrained
2203/0316	. . . . cooled by vaporised gas from the interior	2203/0697	. . . comprising nanoparticles
2203/032	. . . . Multi-sheet layers	2205/00	Vessel construction, in particular mounting arrangements, attachments or identifications means
2203/0325	. . . Aerogel	2205/01	. Mounting arrangements
2203/0329	. . . Foam	2205/0103	. . Exterior arrangements
2203/0333	. . . . Polyurethane	2205/0107	. . . Frames
2203/0337	. . . Granular	2205/0111	. . . Boxes
2203/0341	. . . . Perlite	2205/0115	. . . Dismountable protective hulls
2203/0345	. . . Fibres	2205/0119	. . . Vessel walls form part of another structure
2203/035	. . . . Glass wool	2205/0123	. . characterised by number of vessels
2203/0354	. . . Wood	2205/0126	. . . One vessel
2203/0358	. . . in form of panels	2205/013	. . . Two or more vessels
2203/0362	. . by liquid means	2205/0134	. . . . characterised by the presence of fluid connection between vessels
2203/0366	. . . Cryogen	2205/0138	. . . . . bundled in series
2203/037	. . . Water	2205/0142	. . . . . bundled in parallel
2203/0375	. . by gas	2205/0146	. . . . . with details of the manifold
2203/0379	. . . Inert	2205/0149	. . . . . Vessel mounted inside another one
2203/0383	. . . Air	2205/0153	. . Details of mounting arrangements
2203/0387	. . . Cryogen	2205/0157	. . . for transport
2203/0391	. . by vacuum	2205/0161	. . . . with wheels
2203/0395	. . . Getter	2205/0165	. . . . with handgrip
2203/06	. Materials for walls or layers thereof; Properties or structures of walls or their materials	2205/0169	. . . . stackable
2203/0602	. . Wall structures; Special features thereof	2205/0173	. . . lockable
2203/0604	. . . Liners	2205/0176	. . . with ventilation
2203/0607	. . . Coatings	2205/018	. . . Supporting feet
2203/0609	. . . Straps, bands or ribbons	2205/0184	. . . Attachments to the ground, e.g. mooring or anchoring
2203/0612	. . . Wall structures	2205/0188	. . . Hanging up devices
2203/0614	. . . . Single wall	2205/0192	. . . with external bearing means
2203/0617	. . . . . with one layer	2205/0196	. . . with shock absorbing means
2203/0619	. . . . . with two layers	2205/03	. Fluid connections, filters, valves, closure means or other attachments
2203/0621	. . . . . with three layers	2205/0302	. . Fittings, valves, filters, or components in connection with the gas storage device
2203/0624	. . . . . with four or more layers	2205/0305	. . . Bosses, e.g. boss collars
2203/0626	. . . . Multiple walls	2205/0308	. . . Protective caps
2203/0629	. . . . . Two walls	2205/0311	. . . Closure means
2203/0631	. . . . . Three or more walls	2205/0314	. . . . breakable, e.g. with burst discs
2203/0634	. . Materials for walls or layers thereof	2205/0317	. . . . fusing or melting
2203/0636	. . . Metals	2205/032	. . . . pierceable
2203/0639	. . . . Steels	2205/0323	. . . Valves
2203/0641	. . . . . Non-magnetic steels	2205/0326	. . . . electrically actuated
2203/0643	. . . . . Stainless steels	2205/0329	. . . . manually actuated
2203/0646	. . . . Aluminium	2205/0332	. . . . Safety valves or pressure relief valves
2203/0648	. . . . Alloys or compositions of metals	2205/0335	. . . . Check-valves or non-return valves
2203/0651	. . . . . Invar	2205/0338	. . . Pressure regulators
2203/0653	. . . . Lead	2205/0341	. . . Filters
2203/0656	. . . . in form of filaments	2205/0344	. . . . Sinter type
2203/0658	. . . Synthetics	2205/0347	. . . . Active charcoal type
2203/066	. . . . Plastics	2205/035	. . . Flow reducers
2203/0663	. . . . in form of fibers or filaments	2205/0352	. . . Pipes
2203/0665	. . . . . radially wound	2205/0355	. . . . Insulation thereof
2203/0668	. . . . . axially wound	2205/0358	. . . . coaxial
2203/067	. . . . . helically wound	2205/0361	. . . . corrugated
2203/0673	. . . . . Polymers	2205/0364	. . . . flexible or articulated, e.g. a hose
2203/0675	. . . . with details of composition		
2203/0678	. . . Concrete		
2203/068	. . Special properties of materials for vessel walls		
2203/0682	. . . with liquid or gas layer		
2203/0685	. . . flexible		

- 2205/0367 Arrangements in parallel
- 2205/037 . . . Quick connecting means, e.g. couplings
- 2205/0373 Adapters
- 2205/0376 . . . Dispensing pistols
- 2205/0379 . . . Manholes or access openings for human beings
- 2205/0382 . . . Constructional details of valves, regulators
- 2205/0385 in blocks or units
- 2205/0388 . . Arrangement of valves, regulators, filters
- 2205/0391 . . . inside the pressure vessel
- 2205/0394 . . . in direct contact with the pressure vessel
- 2205/0397 on both sides of the pressure vessel
- 2205/05 . Vessel or content identifications, e.g. labels
- 2205/051 . . by coating
- 2205/052 . . by stickers
- 2205/054 . . by bar codes
- 2205/055 . . by magnetic means
- 2205/057 . . by chips
- 2205/058 . . by Radio Frequency Identification

2209/00 Vessel construction, in particular methods of manufacturing

- 2209/21 . Shaping processes
- 2209/2109 . . Moulding
- 2209/2118 . . . by injection
- 2209/2127 . . . by blowing
- 2209/2136 . . . using wax moulds
- 2209/2145 . . . by rotation
- 2209/2154 . . Winding
- 2209/2163 . . . with a mandrel
- 2209/2172 . . Polishing
- 2209/2181 . . Metal working processes, e.g. deep drawing, stamping or cutting
- 2209/219 . . Working processes for non metal materials, e.g. extruding
- 2209/22 . Assembling processes
- 2209/221 . . Welding
- 2209/222 . . . by friction
- 2209/224 . . Press-fitting; Shrink-fitting
- 2209/225 . . Spraying
- 2209/227 . . by adhesive means
- 2209/228 . . by screws, bolts or rivets
- 2209/23 . Manufacturing of particular parts or at special locations
- 2209/232 . . of walls
- 2209/234 . . of closing end pieces, e.g. caps
- 2209/236 . . . Apparatus therefore
- 2209/238 . . Filling of insulants

2221/00 Handled fluid, in particular type of fluid

- 2221/01 . Pure fluids
- 2221/011 . . Oxygen
- 2221/012 . . Hydrogen
- 2221/013 . . Carbene dioxide
- 2221/014 . . Nitrogen
- 2221/015 . . Carbon monoxide
- 2221/016 . . Noble gases (Ar, Kr, Xe)
- 2221/017 . . . Helium
- 2221/018 . . Acetylene
- 2221/03 . Mixtures
- 2221/031 . . Air
- 2221/032 . . Hydrocarbons
- 2221/033 . . . Methane, e.g. natural gas, CNG, LNG, GNL, GNC, PLNG

- 2221/035 . . . Propane butane, e.g. LPG, GPL
- 2221/036 . . . Hydrates
- 2221/037 . . Containing pollutant, e.g. H₂S, Cl
- 2221/038 . . Refrigerants
- 2221/05 . Ultrapure fluid
- 2221/07 . Hyperpolarised gases
- 2221/08 . Ergols, e.g. hydrazine

Fluid contained in the vessel; Filling and discharging the fluid

2223/00 Handled fluid before transfer, i.e. state of fluid when stored in the vessel or before transfer from the vessel

- 2223/01 . characterised by the phase
- 2223/0107 . . Single phase
- 2223/0115 . . . dense or supercritical, i.e. at high pressure and high density
- 2223/0123 . . . gaseous, e.g. CNG, GNC
- 2223/013 . . . liquid
- 2223/0138 solid
- 2223/0146 . . Two-phase
- 2223/0153 . . . Liquefied gas, e.g. LPG, GPL
- 2223/0161 cryogenic, e.g. LNG, GNL, PLNG
- 2223/0169 subcooled
- 2223/0176 . . . Solids and gas
- 2223/0184 . . . Liquids and solids
- 2223/0192 . . Three-phase, e.g. CO₂ at triple point
- 2223/03 . characterised by the pressure level
- 2223/031 . . Not under pressure, i.e. containing liquids or solids only
- 2223/033 . . Small pressure, e.g. for liquefied gas
- 2223/035 . . High pressure (>10 bar)
- 2223/036 . . Very high pressure (>80 bar)
- 2223/038 . . Subatmospheric pressure
- 2223/04 . characterised by other properties of handled fluid before transfer
- 2223/041 . . Stratification
- 2223/042 . . Localisation of the removal point
- 2223/043 . . . in the gas
- 2223/045 with a dip tube
- 2223/046 . . . in the liquid
- 2223/047 with a dip tube
- 2223/048 . . . in the solid

2225/00 Handled fluid after transfer, i.e. state of fluid after transfer from the vessel

- 2225/01 . characterised by the phase
- 2225/0107 . . Single phase
- 2225/0115 . . . dense or supercritical, i.e. at high pressure and high density
- 2225/0123 . . . gaseous, e.g. CNG, GNC
- 2225/013 . . . liquid
- 2225/0138 solid
- 2225/0146 . . Two-phase
- 2225/0153 . . . Liquefied gas, e.g. LPG, GPL
- 2225/0161 cryogenic, e.g. LNG, GNL, PLNG
- 2225/0169 subcooled
- 2225/0176 . . . Solids and gas
- 2225/0184 . . . Liquids and solids
- 2225/0192 . . Three-phase, e.g. CO₂ at triple point
- 2225/03 . characterised by the pressure level
- 2225/031 . . Not under pressure, i.e. containing liquids or solids only

- 2225/033 . . Small pressure, e.g. for liquefied gas
- 2225/035 . . High pressure, i.e. between 10 and 80 bars
- 2225/036 . . Very high pressure, i.e. above 80 bars
- 2225/038 . . Subatmospheric pressure
- 2225/04 . . characterised by other properties of handled fluid after transfer
- 2225/041 . . Stratification
- 2225/042 . . Localisation of the filling point
- 2225/043 in the gas
- 2225/044 at several points, e.g. with a device for recondensing gas
- 2225/045 with a dip tube
- 2225/046 in the liquid
- 2225/047 with a dip tube
- 2225/048 in the solid
- 2227/00** **Transfer of fluids, i.e. method or means for transferring the fluid; Heat exchange with the fluid**
- 2227/01 . . Propulsion of the fluid
- 2227/0107 . . by pressurising the ullage
- 2227/0114 . . with vacuum injectors, e.g. venturi
- 2227/0121 . . by gravity
- 2227/0128 . . with pumps or compressors
- 2227/0135 Pumps
- 2227/0142 with specified pump type, e.g. piston or impulsive type
- 2227/015 with cooling of the pump
- 2227/0157 Compressors
- 2227/0164 with specified compressor type, e.g. piston or impulsive type
- 2227/0171 Arrangement
- 2227/0178 in the vessel
- 2227/0185 comprising several pumps or compressors
- 2227/0192 . . by using a working fluid
- 2227/03 . . Heat exchange with the fluid
- 2227/0302 . . by heating
- 2227/0304 using an electric heater
- 2227/0306 using the same fluid
- 2227/0309 using another fluid
- 2227/0311 Air heating
- 2227/0313 by forced circulation, e.g. using a fan
- 2227/0316 Water heating
- 2227/0318 using seawater
- 2227/032 using geothermal water
- 2227/0323 in a closed loop
- 2227/0325 by expansion using "Joule-Thompson" effect
- 2227/0327 with recovery of heat
- 2227/033 using solar energy
- 2227/0332 by burning a combustible
- 2227/0334 by radiation means
- 2227/0337 by cooling
- 2227/0339 using the same fluid
- 2227/0341 using another fluid
- 2227/0344 Air cooling
- 2227/0346 by forced circulation, e.g. using a fan
- 2227/0348 Water cooling
- 2227/0351 using seawater
- 2227/0353 using cryocooler
- 2227/0355 in a closed loop
- 2227/0358 by expansion
- 2227/036 "Joule-Thompson" effect
- 2227/0362 in a turbine
- 2227/0365 with recovery of heat
- 2227/0367 . . Localisation of heat exchange
- 2227/0369 in or on a vessel
- 2227/0372 in the gas
- 2227/0374 in the liquid
- 2227/0376 in wall contact
- 2227/0379 inside the vessel
- 2227/0381 integrated in the wall
- 2227/0383 outside the vessel
- 2227/0386 with a jacket
- 2227/0388 separate
- 2227/039 on the pipes
- 2227/0393 using a vaporiser
- 2227/0395 using a submerged heat exchanger
- 2227/0397 characterised by fins
- 2227/04 . . Methods for emptying or filling
- 2227/041 vessel by vessel
- 2227/042 with change-over from one vessel to another
- 2227/043 by pressure cascade
- 2227/044 by purging
- 2227/045 by vacuum
- 2227/046 by even emptying or filling
- 2227/047 by repeating a process cycle
- 2227/048 by maintaining residual pressure
- 2250/00** **Accessories; Control means; Indicating, measuring or monitoring of parameters**
- 2250/01 . . Intermediate tanks
- 2250/03 . . Control means
- 2250/032 using computers
- 2250/034 using wireless transmissions
- 2250/036 using alarms
- 2250/038 using cameras
- 2250/04 . . Indicating or measuring of parameters as input values
- 2250/0404 Parameters indicated or measured
- 2250/0408 Level of content in the vessel
- 2250/0413 with floats
- 2250/0417 with electrical means
- 2250/0421 Mass or weight of the content of the vessel
- 2250/0426 Volume
- 2250/043 Pressure
- 2250/0434 Pressure difference
- 2250/0439 Temperature
- 2250/0443 Flow or movement of content
- 2250/0447 Composition; Humidity
- 2250/0452 Concentration of a product
- 2250/0456 Calorific or heating value
- 2250/046 Humidity
- 2250/0465 Vibrations, e.g. of acoustic type
- 2250/0469 Constraints, e.g. by gauges
- 2250/0473 Time or time periods
- 2250/0478 Position or presence
- 2250/0482 Acceleration
- 2250/0486 . . Indicating or measuring characterised by the location
- 2250/0491 Parameters measured at or inside the vessel
- 2250/0495 the indicated parameter is a converted measured parameter
- 2250/06 . . Controlling or regulating of parameters as output values

2250/0605	. . Parameters
2250/061	. . . Level of content in the vessel
2250/0615	. . . Mass or weight of the content of the vessel
2250/0621	. . . Volume
2250/0626	. . . Pressure
2250/0631	. . . Temperature
2250/0636	. . . Flow or movement of content
2250/0642	. . . Composition; Humidity
2250/0647	. . . . Concentration of a product
2250/0652	. . . . Calorific or heating value
2250/0657	. . . . Humidity
2250/0663	. . . Vibrations, e.g. of acoustic type
2250/0668	. . . Constraints, e.g. by gauges
2250/0673	. . . Time or time periods
2250/0678	. . . Position or presence
2250/0684	. . . Acceleration
2250/0689	. . Methods for controlling or regulating
2250/0694	. . . with calculations
2250/07	. Actions triggered by measured parameters
2250/072	. . Action when predefined value is reached
2250/075	. . . when full
2250/077	. . . when empty

2260/00 Purposes of gas storage and gas handling

2260/01	. Improving mechanical properties or manufacturing
2260/011	. . Improving strength
2260/012	. . Reducing weight
2260/013	. . Reducing manufacturing time or effort
2260/015	. . Facilitating maintenance
2260/016	. . Preventing slosh
2260/017	. . by calculation
2260/018	. . Adapting dimensions
2260/02	. Improving properties related to fluid or fluid transfer
2260/021	. . Avoiding over pressurising
2260/022	. . Avoiding overfilling
2260/023	. . Avoiding overheating
2260/024	. . Improving metering
2260/025	. . Reducing transfer time
2260/026	. . by calculation
2260/027	. . Making transfer independent of vessel orientation
2260/028	. . Avoiding unauthorised transfer
2260/03	. Dealing with losses
2260/031	. . due to heat transfer
2260/032	. . . Avoiding freezing or defrosting
2260/033	. . . by enhancing insulation
2260/035	. . of fluid
2260/036	. . . Avoiding leaks
2260/037	. . . Handling leaked fluid
2260/038	. . . Detecting leaked fluid
2260/04	. Reducing risks and environmental impact
2260/042	. . Reducing risk of explosion
2260/044	. . Avoiding pollution or contamination
2260/046	. . Enhancing energy recovery
2260/048	. . Refurbishing
2260/05	. Improving chemical properties
2260/053	. . Reducing corrosion
2260/056	. . Improving fluid characteristics

Purposes or effects

2265/00 Effects achieved by gas storage or gas handling

2265/01	. Purifying the fluid
2265/012	. . by filtering
2265/015	. . by separating
2265/017	. . . different phases of a same fluid
2265/02	. Mixing fluids
2265/022	. . identical fluid
2265/025	. . different fluids
2265/027	. . . with odorizing
2265/03	. Treating the boil-off
2265/031	. . by discharge
2265/032	. . by recovery
2265/033	. . . with cooling
2265/034	. . . . with condensing the gas phase
2265/035	. . . . with subcooling the liquid phase
2265/036	. . . with heating
2265/037	. . . with pressurising
2265/038	. . . with expanding
2265/04	. using an independent energy source, e.g. battery
2265/05	. Regasification
2265/06	. Fluid distribution
2265/061	. . for supply of supplying vehicles
2265/063	. . for supply of refueling stations
2265/065	. . for refueling vehicle fuel tanks
2265/066	. . for feeding engines for propulsion
2265/068	. . Distribution pipeline networks
2265/07	. Generating electrical power as side effect

2270/00 Applications

2270/01	. for fluid transport or storage
2270/0102	. . on or in the water
2270/0105	. . . Ships
2270/0107	. . . . Wall panels
2270/011	. . . Barges
2270/0113	. . . . floating
2270/0115	. . . . immersed
2270/0118	. . . Offshore
2270/0121	. . . . Platforms
2270/0123	. . . . Terminals
2270/0126	. . . . Buoys
2270/0128	. . . . Storage in depth
2270/0131	. . . Submarines
2270/0134	. . placed above the ground
2270/0136	. . . Terminals
2270/0139	. . . Fuel stations
2270/0142	. . placed underground
2270/0144	. . . Type of cavity
2270/0147	. . . . by burying vessels
2270/0149	. . . . by digging cavities
2270/0152	. . . . . Salt caverns
2270/0155	. . . . by using natural cavities
2270/0157	. . . Location of cavity
2270/016	. . . . onshore
2270/0163	. . . . offshore
2270/0165	. . on the road
2270/0168	. . . by vehicles
2270/0171	. . . . Trucks
2270/0173	. . . . Railways
2270/0176	. . . . Buses
2270/0178	. . . . Cars

- 2270/0181 . . . Airbags
- 2270/0184 . . . Fuel cells
- 2270/0186 . . in the air or in space
- 2270/0189 . . . Planes
- 2270/0192 . . . Hot air balloons
- 2270/0194 . . . for use under microgravity conditions, e.g.
space
- 2270/0197 . . . Rockets
- 2270/02 . . for medical applications
- 2270/025 . . Breathing
- 2270/05 . . for industrial use
- 2270/0509 . . "Dewar" vessels
- 2270/0518 . . Semiconductors
- 2270/0527 . . Superconductors
- 2270/0536 . . . Magnetic resonance imaging
- 2270/0545 . . Tools
- 2270/0554 . . Hydraulic applications
- 2270/0563 . . Pneumatic applications
- 2270/0572 . . Isostatic presses
- 2270/0581 . . Power plants
- 2270/059 . . Mass bottling, e.g. merry belts
- 2270/07 . . for household use
- 2270/0709 . . Camping gas
- 2270/0718 . . Aerosols
- 2270/0727 . . Thermos flasks
- 2270/0736 . . Capsules, e.g. CO₂
- 2270/0745 . . Gas bottles
- 2270/0754 . . Fire extinguishers
- 2270/0763 . . Fuel cells
- 2270/0772 . . Inflation devices, e.g. for rescue vests or tyres
- 2270/0781 . . Diving equipments
- 2270/079 . . Respiration devices for rescuing