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)

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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)

1/002 . [Storage in barges or on ships]

1/005 . [Storage of gas or gaseous mixture at high pressure and at high density condition, e.g. in the single state phase]

1/007 . [Underground or underwater storage]

1/02 . involving reinforcing arrangements ([F17C 1/14, F17C 1/16 take precedence])

1/04 . . Protecting sheathings

1/06 . . . built-up from wound-on bands or filamentary material, e.g. wires

1/08 . . . Integral reinforcements, e.g. ribs

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)

1/12 . with provision for thermal insulation ([F17C 1/14, F17C 1/16 take precedence]; thermal insulation in general F16L 59/00)

1/14 . constructed of aluminium; constructed of non-magnetic steel

1/16 . constructed of plastics materials { (shaping of plastics B29C)

3/00 Vessels not under pressure

3/005 . [Underground or underwater containers or vessels (storing in natural or artificial cavities in the earth in general B65G 5/00)]

3/02 . with provision for thermal insulation (thermal insulation in general F16L 59/00; refrigerators F25D; insulation specially adapted for cryogenic vessels F17C 13/00; tank vehicles B60P 3/22; railway tank wagons B61D 5/00)]

3/022 . . [Land-based bulk storage containers (civil engineering aspects E04H 7/00)]

3/025 . . [Bulk storage in barges or on ships (constructive aspects B63B 25/16)]

3/027 . . . [Wallpanels for so-called membrane tanks]

3/04 . . by insulating layers (F17C 3/08 takes precedence)

3/06 . . . on the inner surface, i.e. in contact with the stored fluid

3/08 . . by vacuum spaces, e.g. Dewar flask (for household use A47J 41/02)

3/085 . . . [Cryostats]

3/10 . . by liquid-circulating or vapour-circulating jackets

3/12 . . with provision for protection against corrosion, e.g. due to gaseous acid (protection against corrosion in general C23F)

5/00 Methods or apparatus for filling containers with liquefied, solidified, or compressed gases under pressures (adding propellants to aerosol containers B65B 31/00)

NOTE

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.

5/002 . [Automated filling apparatus]

5/005 . . [for gas bottles, such as on a continuous belt or on a merry-go-round]

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)]
13/00 Details of vessels or of the filling or discharging of vessels

13/001 . (Thermal insulation especially adapted for cryogenic vessels (vessels not under pressure with insulation F17C 3/02; thermal insulation in general F16L 5/00))
13/002 . (for vessels under pressure (F17C 13/008 and F17C 13/012 - 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 13/012 - F17C 13/12 take precedence))
13/005 . (for medium-size and small storage vessels not under pressure (F17C 13/008 and F17C 13/012 - 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)
13/009 . 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 90/01))
13/082 . . . (for large sea-borne storage vessels (load-accommodating arrangements for ships or waterborne vessels B63B 29/12))
13/083 . . . (for medium-sized mobile storage vessels, e.g. tank vessels 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 t)
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
2203/02 . . . . Reinforcing means
2203/067 . . . . . . . . . . . . helically wound
2203/0673 . . . . . . . . . . . . Polymers
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
2203/0687 . . . . . . . . . . . . superconducting
2203/069 . . . . . . . . . . . . Break point in the wall
2203/0692 . . . . . . . . . . . . transparent
2203/0695 . . . . . . . . . . . . pre-constrained
2203/0697 . . . . . . . . . . . . comprising nanoparticles

2205/00 Vessel construction, in particular mounting arrangements, attachments or identifications means

2205/01 . . . . . . . . . . . . Mounting arrangements
2205/0103 . . . . . . . . . . . . Exterior arrangements
2205/0107 . . . . . . . . . . . . Frames
2205/0111 . . . . . . . . . . . . Boxes
2205/0115 . . . . . . . . . . . . Dismountable protective hulls
2205/0119 . . . . . . . . . . . . Vessel walls form part of another structure
2205/0123 . . . . . . . . . . . . characterised by number of vessels
2205/0126 . . . . . . . . . . . . One vessel
2205/013 . . . . . . . . . . . . Two or more vessels
2205/0134 . . . . . . . . . . . . characterised by the presence of fluid connection between vessels
2205/0138 . . . . . . . . . . . . bundled in series
2205/0142 . . . . . . . . . . . . bundled in parallel
2205/0146 . . . . . . . . . . . . with details of the manifold
2205/0149 . . . . . . . . . . . . Vessel mounted inside another one
2205/0153 . . . . . . . . . . . . Details of mounting arrangements
2205/0157 . . . . . . . . . . . . for transport
2205/0161 . . . . . . . . . . . . with wheels
2205/0165 . . . . . . . . . . . . with handgrip
2205/0169 . . . . . . . . . . . . stackable
2205/0173 . . . . . . . . . . . . lockable
2205/0176 . . . . . . . . . . . . with ventilation
2205/018 . . . . . . . . . . . . Supporting feet
2205/0184 . . . . . . . . . . . . Attachments to the ground, e.g. mooring or anchoring
2205/0188 . . . . . . . . . . . . Hanging up devices
2205/0192 . . . . . . . . . . . . with external bearing means
2205/0196 . . . . . . . . . . . . with shock absorbing means
2205/03 . . . . . . . . . . . . Fluid connections, filters, valves, closure means or other attachments
2205/0302 . . . . . . . . . . . . Fittings, valves, filters, or components in connection with the gas storage device
2205/0305 . . . . . . . . . . . . Bosses, e.g. boss collars
2205/0308 . . . . . . . . . . . . Protective caps
2205/0311 . . . . . . . . . . . . Closure means
2205/0314 . . . . . . . . . . . . breakable, e.g. with burst discs
2205/0317 . . . . . . . . . . . . fusing or melting
2205/032 . . . . . . . . . . . . pierceable
2205/0323 . . . . . . . . . . . . Valves
2205/0326 . . . . . . . . . . . . electrically actuated
2205/0329 . . . . . . . . . . . . manually actuated
2205/0332 . . . . . . . . . . . . Safety valves or pressure relief valves
2205/0335 . . . . . . . . . . . . Check-valves or non-return valves
2205/0338 . . . . . . . . . . . . Pressure regulators
2205/0341 . . . . . . . . . . . . Filters
2205/0344 . . . . . . . . . . . . Sinter type
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 (>10 bar)
- 2225/036 . . Very high pressure (>80 bar)
- 2225/038 . . Subatmospheric pressure
- 2225/04 . . characterised by other properties of handled fluid before transfer
- 2225/041 . . Stratification
- 2225/042 . . Localisation of the removal point
- 2225/043 . . . in the gas
- 2225/045 . . . with a dip tube
- 2225/046 . . . in the liquid
- 2225/047 . . . with a dip tube
- 2225/048 . . . in the solid
Fluid contained in the vessel; Filling and discharging the fluid

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
2227/0176 . Solids and gas
2227/0184 . Liquids and solids
2227/0192 . Three-phase, e.g. CO₂ at triple point
2227/03 . characterised by the pressure level
2227/031 . Not under pressure, i.e. containing liquids or solids only
2227/033 . Small pressure, e.g. for liquefied gas
2227/035 . High pressure, i.e. between 10 and 80 bars
2227/036 . Very high pressure, i.e. above 80 bars
2227/038 . Subatmospheric pressure
2227/04 . characterised by other properties of handled fluid after transfer
2227/041 . Stratification
2227/042 . Localisation of the filling point
2227/043 . in the gas
2227/044 . at several points, e.g. with a device for recondensing gas
2227/045 . with a dip tube
2227/046 . in the liquid
2227/047 . with a dip tube
2227/048 . in the solid

2227/04 Transfer of fluids, i.e. method or means for transferring the fluid; Heat exchange with the fluid

2227/01 . Propulsion of the fluid
2227/0176 . Solids and gas
2227/0184 . Liquids and solids
2227/0192 . Three-phase, e.g. CO₂ at triple point
2227/03 . characterised by the pressure level
2227/031 . Not under pressure, i.e. containing liquids or solids only
2227/033 . Small pressure, e.g. for liquefied gas
2227/035 . High pressure, i.e. between 10 and 80 bars
2227/036 . Very high pressure, i.e. above 80 bars
2227/038 . Subatmospheric pressure
2227/04 . characterised by other properties of handled fluid after transfer
2227/041 . Stratification
2227/042 . Localisation of the filling point
2227/043 . in the gas
2227/044 . at several points, e.g. with a device for recondensing gas
2227/045 . with a dip tube
2227/046 . in the liquid
2227/047 . with a dip tube
2227/048 . 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
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2227/042 . Localisation of the filling point
2227/043 . in the gas
2227/044 . at several points, e.g. with a device for recondensing gas
2227/045 . with a dip tube
2227/046 . in the liquid
2227/047 . with a dip tube
2227/048 . in the solid

2225/00 Accessories; Control means; Indicating, measuring or monitoring of parameters

2225/01 . Intermediate tanks
2225/03 . Control means
2225/032 . using computers
2225/034 . using wireless transmissions
2225/036 . using alarms
2225/038 . using cameras
2225/04 . Indicating or measuring of parameters as input values
2225/0404 . Parameters indicated or measured
2225/0408 . Level of content in the vessel
2225/0413 . with floats
2225/0417 . with electrical means
2225/0421 . Mass or weight of the content of the vessel
2225/0426 . Volume
2225/043 . Pressure
2225/0434 . Pressure difference
2225/0439 . Temperature
2225/0443 . Flow or movement of content
2225/0447 . Composition; Humidity
2225/0452 . Concentration of a product
2225/0456 . Calorific or heating value
2225/046 . Humidity
2225/0465 . Vibrations, e.g. of acoustic type
2225/0469 . Constraints, e.g. by gauges
2225/0473 . Time or time periods
2225/0478 . Position or presence
2225/0482 . Acceleration

2225/00 Accessories; Control means; Indicating, measuring or monitoring of parameters

2225/01 . Intermediate tanks
2225/03 . Control means
2225/032 . using computers
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2225/04 . Indicating or measuring of parameters as input values
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2225/0413 . with floats
2225/0417 . with electrical means
2225/0421 . Mass or weight of the content of the vessel
2225/0426 . Volume
2225/043 . Pressure
2225/0434 . Pressure difference
2225/0439 . Temperature
2225/0443 . Flow or movement of content
2225/0447 . Composition; Humidity
2225/0452 . Concentration of a product
2225/0456 . Calorific or heating value
2225/046 . Humidity
2225/0465 . Vibrations, e.g. of acoustic type
2225/0469 . Constraints, e.g. by gauges
2225/0473 . Time or time periods
2225/0478 . Position or presence
2225/0482 . Acceleration
Fluid contained in the vessel; Filling and discharging the fluid

**2260/0486** Indicating or measuring characterised by the location

**2260/0491** Parameters measured at or inside the vessel

**2260/0495** the indicated parameter is a converted measured parameter

**2260/06** Controlling or regulating of parameters as output values

**2260/0605** Parameters

**2260/061** Level of content in the vessel

**2260/0615** Mass or weight of the content of the vessel

**2260/0621** Volume

**2260/0626** Pressure

**2260/0631** Temperature

**2260/0636** Flow or movement of content

**2260/0642** Composition; Humidity

**2260/0647** Concentration of a product

**2260/0652** Calorific or heating value

**2260/0657** Humidity

**2260/0663** Vibrations, e.g. of acoustic type

**2260/0668** Constraints, e.g. by gauges

**2260/0673** Time or time periods

**2260/0678** Position or presence

**2260/0684** Acceleration

**2260/0689** Methods for controlling or regulating

**2260/0694** with calculations

**2260/07** Actions triggered by measured parameters

**2260/072** Action when predefined value is reached

**2260/075** when full

**2260/077** when empty

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**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 overpressurising

**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

**2265/001** 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

### Applications

**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** immerged

**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
Purposes or effects

- 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