

85 Mineral water, aerated water, water purification, water supply and sewerage

- 85a Mineral water, aerated water**
 - 85b Purification of water**
 - 85c Sewage purification**
 - 85d Water supply: plants and devices for obtaining, storing and supplying drinking water**
 - 85e Sewerage: system and apparatus for the draining of polluted and rain water, cleaning devices for sewers, structural design of washing, rinsing and draining basins**
 - 85f Mixing valve systems, shower devices and general supply fixtures for washbasins, rinsing basins, bathtubs, showers and the like**
 - 85g Fountains, atomisers**
 - 85h Water closets with flushing systems**
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- 85a Mineral water, aerated water (through fermentation 6b-21)**
- 85a-1 Chemicals for the manufacture of mineral and aerated water
- 85a-2 Apparatus for the manufacture of aerated water [soda water] (apparatus for dispensing carbon dioxide-containing water 64c-17)
- 85a-3 Filling closures for aerated water containers, also in connection with gas cartridges (85a-5)
- 85a-4 Gas cartridges for the production of aerated water (17g-4; 64c-7)
- 85a-5 Miscellaneous devices for the treatment of natural or artificial mineral or table water: storages, supply, etc. (85d); radioactivation of water
- 85b Purification of water (filters 12d; purification of steam boiler feed water and boiler water 13b-12 – 13b-21)**
- 85b-1/01 Purification of water for industrial purposes and of drinking water by means of chemical, softening and hardening of water in general
- 85b-1/05 Softening of water by base exchange (12i-38/01)
- 85b-1/07 Removal of iron and manganese from water (12d; 85b-2/01 – 85b-4)
- 85b-1/10 Chemical purification of water by oxidising agents other than ozone and halogens
- 85b-1/11 Purification by means of ozone (12i-15; 12i-13/10)
- 85b-1/12 Purification of water by means of chlorine, bromine, iodine, hypochlorites and other chlorine compounds
- 85b-1/20 Chemical purification of water by saturating with gas or degassing
- 85b-1/25 Chemical purification by irradiation with mercury lamps, etc.
- 85b-1/30 Chemical purification by utilising electric current
- 85b-1/35 Inorganic boiler scale-preventing agents
- 85b-1/36 Organic boiler scale-preventing agents
- 85b-1/40 Boiler scale solvents
- 85b-1/42 Boiler scale preventing paints (22g-3; 22g-7/01; 22g-7/02; 22g-10/01)
- 85b-2/01 Water-purifying apparatus using chemical precipitating agents, lime saturators for water purifiers (boiler feed water purifiers 13b-19)
- 85b-2/02 Apparatus for the removal and apparatus for the aeration of water
- 85b-2/03 Water-softening devices using base-exchanging substances

- 85b-3/01 Devices for the introduction of gaseous reagents in the water purification (12f-4; 42e-21)
- 85b-3/02 Devices for the introduction of liquid reagents in water purification (12f-4; 42e-21)
- 85b-3/03 Devices for the introduction of solid reagents in water purification (12f-4; 42e-21)
- 85b-4 Purification of water by distillation (12a-5; 13b-14)

85c Sewage purification

- 85c-1 Purely chemical sewage purification
 - 85c-2 Chemical and mechanical sewage purification
 - 85c-3/01 Purification of sewage in biological materials and filters
 - 85c-3/02 Purification of sewage according to the activated sludge process
 - 85c-4 Electrolytic sewage purification (12d-1/05; 85b-1/30)
 - 85c-5 Purification of sewage by means of centrifugal force (centrifuges 82b)
- Sewage clarification plants
- 85c-6/01 in general (12d-1/01; 55d-13/10)
 - 85c-6/02 with special devices for the separation of fatty and floating materials (23a-4; 85e-9; 85e-9/05)
 - 85c-6/03 Sand traps and emergency outlets
 - 85c-6/04 Sludge removing devices
 - 85c-6/05 Sewage sludge digestion and sludge tanks
 - 85c-6/06 Sewage gratings and screens (12d-13; 12d-15/01 – 12d-17)
 - 85c-6/07 Devices for the regulation of inflow and outflow
 - 85c-6/08 Distributing devices
 - 85c-6/09 Devices for the draining of sewage sludge (82a)

85d Water supply: plants and devices for obtaining, storing and supplying drinking water (pumps 59; structure of elevated tanks 37f; designs of cocks, valves and slide valves 47g)

- 85d-1 Artesian wells including filters and other systems for obtaining and containing water (12d)
- 85d-2 Drinking-water supply pipe system
- 85d-3 Domestic water reservoirs (37f-3/02)
- 85d-4 Safety devices and apparatus for faucets and for the changing of faucets in drinking-water mains (faucets 47g-1/02), valves for drinking-water fountains
- 85d-5 Faucets with hose connections
- 85d-6 Surge absorbers, devices and systems for sound damping in drinking-water pipes (surge absorbers, sound dampers and braking devices in valves, general 47g-35, 47g-36)
- 85d-7 Jet regulators for faucets
- 85d-8 Safety devices to prevent bursting of water pipes in case of frost
- 85d-9 Devices for the prevention of damages in case of pipe bursting
- 85d-10 Thawing out devices for frozen water pipes (21h-10/08)
- 85d-11 Devices for the prevention of freezing of water pipes (21h-10/08)
- 85d-12 Hydrants
- 85d-13 Apparatus for draining water ducts (valves etc. 47g-37)
- 85d-14 Air inlets for vertical drinking-water pipes (aeration and de-aeration apparatus, general 47g-38)

85e Sewerage: system and apparatus for the draining of polluted and rain water, cleaning devices for sewers, structural design of washing, rinsing and draining basins (sewage purification systems 85c)

- 85e-1 Sewer systems in general

- 85e-2 Appliances for the emptying of sewers and cesspools
- 85e-4 Equipment for separation of solid and liquid wastes in sewer pipes (in general 85c)

Sewer networks

- 85e-4/01 Sewer pipes and fittings
- 85e-4/10 Methods and apparatus for the laying of sewer pipes and fittings
- 85e-4/20 Connection of sewer pipes and fittings and pipe joint sealing
- 85e-4/30 Pipe-cleaning openings cleaning pipes, cleaning tanks
- 85e-4/40 Cutting, branching and closing clamps
- 85e-5 Ventilation systems for sewers and trenches
- 85e-6 Sewer installations in streets
- 85e-7 Sewer installations in buildings
- 85e-8/01 Pipe connections in sewers
- 85e-8/10 Methods of laying sewer pipes

Drains for streets and floors

- 85e-9/01 Systems and installations for draining streets and floor, also sludge traps and devices for keeping out animals
- 85e-9/05 Separators for light liquid and grease
- 85e-10 Manhole covers
- 85e-11 Gutters and grates for draining streets and floors

Siphons for sewer installations

- 85e-12 for drain pipes
- 85e-13 for street and floor drains
- 85e-14 with means for preventing loss of the water in the siphon

Flow restriction means for sewers

- 85e-17 Means for preventing back-flow in sewer installations (47g)

Cleaning appliances for sewer systems

- 85e-18 Appliances for cleaning and unplugging outlet pipes, drains and the like (85h)
- 85e-19 Sludge scoops for outlet pipes and drains
- 85e-20 Means for flushing sewers

Sewer structures and elements of drainage systems

- 85e-5 Manholes (manhole covers 85e-11)
- 85e-6 Ventilation systems for sewers and trenches
- 85e-7 Emergency outlets, sand traps, grating and other equipment in sewer pipes for the separation of solid and liquid wastes (light liquid separators and grease traps 85e-9)
- 85e-8/01 Rainwater shafts and drain traps (street, courtyard and ceiling drain traps) with and without water seal
- 85e-8/10 Gutter grates
- 85e-9 Light liquid separators and grease traps
- 85e-10 Snow chutes
- 85e-11/01 Manhole covers, trap doors
- 85e-11/05 Rungs
- 85e-12 Disinfection, neutralisation and cooling pools in sewer pipes
- 85e-13 Sewage lifting apparatus
- 85e-15/01 Valves for sewer pipes, general
- 85e-15/05 Devices for keeping out rats and other pests
- 85e-15/10 Devices for preventing sewerage backup, backup traps

Cleaning appliances for sewer systems

- 85e-18/01 Appliances for cleaning sewers and risers (flushing devices 85e, 1820)
- 85e-18/05 Appliances for cleaning and unplugging outlet pipes, drains and the like

- 85e-18/10 Sludge scoops
85e-18/20 Devices for flushing sewers and sewer systems
- Odour-preventing closures for drain pipes**
- 85e-19/01 General
85e-19/05 with devices for the prevention of siphoning-off of seal water
- Washing, rinsing and draining basins connected to the drain pipes, bathtub outlets and overflows (34c; 34i; 34k; 34l)**
- 85e-21/01 Structural design of washbasins
85e-21/05 Structural design of rinsing and draining basins (of bathtubs 34k)
85e-21/08 Structural design of wash fountains
85e-21/10 Outlets, outlet-valve bodies and actuators for outlet valve bodies for washing, rinsing and draining basins, and bathtubs
85e-21/11 Actuators for outlet valve bodies for washing and rinsing basins, and bathtubs
85e-21/15 Overflows for washing and rinsing basins and bathtubs
85e-21/20 Screens and other built-in elements for the overflows of washing, rinsing and draining basins, bathtubs
85e-21/25 Brackets and supports for washing, rinsing and draining basins
85e-21/30 Overflows and emptying means for bathtubs
- 85f Mixing valve systems, shower devices and general supply fixtures for washbasins, rinsing basins, bathtubs, showers and the like (mixing valves in general 47g-20/02; shower apparatus not connected to water pipes 34k-6)**
- 85f-4 Mixing valve systems
85f-5 Shower fixtures for washbasins and bathtubs
85f-6 Shower nozzles for washbasins and bathtubs
85f-8 Supply pipes and miscellaneous equipment and accessories for washbasins and bathtubs (washbasins and rinsing basin structures 85e-21; bathtub structures 34k)
- 85g Fountains, atomisers (room fountains 34l)**
- 85g-1 Fountains, general (room fountains 34l-26; illumination 4b; 21f)
85g-2 Spouts for fountains (61a-16; 45f-25)
85g-3 Liquid atomisers for general use when not classified in special classes (special classes, e.g. 8a-1; 12a-3; 12e-1/02; 12e-2; 12e-4; 17e-4/02; 19c-11/36; 19c-19/16; 23f-4; 24b-8; 24b-9; 26c-3; 27d-2/01; 30k-9; 30k-10; 30k-11; 33c-21/02; 34c-8/06; 36d-1/11; 36d-1/13; 37d-32/02; 39a; 45b-27; 45f-23/05; 45f-25; 45f-26; 45k-4/01 – 45k-4/40; 46c2-43; 46c2-85 – 46c2-91; 48b-11/01; 48b-12; 48b-7/00; 49l-3; 53e-4; 53i-4; 75c-22; 75c-23; 80b-5/06 – 80b-5/07)
- 85h Water closets with flushing systems**
- 85h-1 Closet flushing tanks with bell siphons
85h-2/01 Closet flushing tanks with bent tube siphons
85h-2/02 Flexible siphon tubes
85h-2/03 Initiation of the siphoning action by compression of the water
85h-2/04 Initiation of the siphoning action by lifting the water content, e.g. by displacement apparatus
85h-2/05 De-aeration devices for siphons
85h-3/01 Closet flushing tanks with valves
85h-3/02 Inflow valves (47g)
85h-3/03 Flushing tanks with devices for flushing with variable amounts of water
85h-4 Intermittently operating closet flushing tanks with siphons
85h-5 Intermittently operating closet flushing tanks without siphons
85h-6 Closet flushing systems with air and pressure chambers

- 85h-7 Closet flushing tanks with tilting vessels
- 85h-8 Closet flushing tanks empty when not in use
- 85h-9 Closet flushing devices and system without tanks, e.g. flushing valves or cocks (automatically closing valves, cocks, slide valves dispensing measured amounts of water, in general 47g-7)
- 85h-10/01 Devices connected to closet covers, seats and doors for starting the flushing operation (for railway vehicles 20c-42)
- 85h-10/02 Flushing triggered by movement of cover or seat
- 85h-10/03 Flushing triggered by movement of the door
- 85h-10/04 Pedal-initiate flushing operation
- 85h-11 Devices for the prevention of drinking water pipe contamination
- 85h-12/01 Flushed closet bowls (bowls without flushing 34k; ship and airplane closets 65a2-45; 62b-3/10)
- 85h-12/02 Siphon bowls
- 85h-12/03 Water-closet bowls with container for the flush water
- 85h-13 Valves and tilting cups for closet bowls
- 85h-14 Cleaning devices in connection with the flushing of closet bowls (34k-10/03; 85e-18)
- 85h-15 Pipe joints for closet bowls (47f)
- 85h-16 Ventilation of water closets
- 85h-17 Disinfection devices for water closets

- Miscellaneous devices in connection with water closets
- 85h-18/01 General
- 85h-18/02 Flushing-tank designs
- 85h-18/03 Row closets
- 85h-18/04 Flushing tanks with two sections
- 85h-18/05 Bidets (bathing apparatus for therapeutic purposes, 30f-11; shower baths 34k-6)
- 85h-19 Urinals with flushing systems (without flushing 34k-7)