

**CLASS 4, BATHS, CLOSETS, SINKS, AND SPIT-TOONS****SECTION I - CLASS DEFINITION**

This class includes bathing apparatus, water-closets, dry closets, urinals, bed-pans, spittoons, closet tanks or cisterns, and ventilating and disinfecting apparatus for the above-noted apparatus and for sewers, except such devices as have been especially provided for in other classes.

Search the classes in References to Other Class, below, for art relating to this class (4).

**SECTION II - SUBCLASS REFERENCES TO THE CURRENT CLASS****SEE OR SEARCH THIS CLASS, SUBCLASS:**

238, 250, 335+, 338, 408, 436, 468, 473, and 486, for seat-operated devices.  
 238, 469, 473, and 486, for lid-operated devices.  
 248, 360, and 388, for dash-pots.

**SECTION III - REFERENCES TO OTHER CLASSES****SEE OR SEARCH CLASS:**

5, Beds, subclasses 60+ for an invalid bed, subclasses 81.1+ for means to lift and transfer an invalid independent of a bed and subclass 90 for an invalid bed with a toilet.  
 15, Brushing, Scrubbing, and General Cleaning, subclasses 104.03+ for mechanical or gaseous pressure devices for hammering, cutting, scraping, loosening or flushing deposits from conduits, pipes or tubes; and subclasses 406+ for an air blast soot blower for tubing.  
 16, Miscellaneous Hardware (e.g., Bushing, Carpet Fastener, Caster, Door Closer, Panel Hanger, Attachable or Adjunct Handle, Hinge, Window Sash Balance, etc.), subclasses 221+.  
 49, Movable or Removable Closures, subclasses 381+ for an obstructive structure that bars traffic through a passage and is mounted to (1) move in a regular, repetitive, predetermined path, or (2) be taken away.  
 52, Static Structures (e.g., Buildings), subclasses 34+ for a prefabricated bathroom.  
 68, Textiles: Fluid Treating Apparatus, subclasses 216+ for a hand held pounder with plunger.

119, Animal Husbandry, subclasses 161+ for a waste toilet or related device.  
 126, Stoves and Furnaces, subclasses 344 through 363.1 for a liquid heater that may include a kettle, a steam generator, stove pipe for use with a stove, and a domestic water heater or boiler (e.g., kitchen boiler, range boiler, etc.) for use with a stove or furnace.  
 134, Cleaning and Liquid Contact With Solids, subclasses 22.11+ for internal surface treatment of pipe etc., subclass 24 for internal surface treatment of hollow work with movable fluid applying nozzle and/or with plugging or sealing of work passage or opening, subclass 166 for a conduit cleaner, subclass 167 for a conduit cleaner with movably or flexibly mounted spray or jet applying conduits or nozzle, subclass 168 for a conduit cleaner with a pump and movable nozzle, and subclass 169 for a conduit cleaner using a pump.  
 137, Fluid Handling, subclass 240 for a system in which a material (e.g., a chemical or physical agent) different from the fluent material of the system is introduced to clean parts of the system, subclasses 247.41+ for U-shaped liquid trap seal, subclasses 312+ for leakage or drip collecting, subclass 362 for a floor drain, subclasses 386+ for a liquid level condition responsive device in means to receive an accumulation thereof (float actuated inlet valve for a toilet tank), subclasses 577+ for a tank with a movable or adjustable outlet or overflow pipe, subclasses 615+ for an articulated faucet or spout, subclass 800 for a nozzle or spout with a removable closure member, subclass 801 for a faucet or spout, and subclasses 861+ for flow control means for branched passages.  
 138, Pipes and Tubular Conduits, subclasses 89+ for a closure or plug for a pipe and subclass 90 for a closure or plug having means to introduce pressurized fluid into the pipe.  
 181, Acoustics, subclasses 233+ for a fluid conducting motion silencer and especially subclass 234 for a flush closet type.  
 210, Liquid Purification or Separation, subclasses 632, 638, 660+, 696+, 702+, and 749+ for processes of chemical treatment for purification or separation, and subclasses 198.1+ for apparatus for purification or separation with additional treating material.  
 220, Receptacles, and see the notes to the main class definition for receptacles and see the notes to subclass 200 for closures in other classes.

- 221, Article Dispensing, appropriate subclasses for a general article dispensing mechanism.
- 222, Dispensing, appropriate subclasses for dispensing means in general, and subclasses 67+ for a float that follows the material level and actuates a dispenser.
- 226, Advancing Material of Indeterminate Length, subclasses 120+ for a mechanism that intermittently moves material and subclasses 127+ for a manual material mover (e.g., a dispenser) mechanism.
- 236, Automatic Temperature and Humidity Regulation, subclasses 12.1+ for apparatus that mixes two or more supplies at dissimilar temperatures where one supply is controlled according to the temperature of the mixed fluid or the temperature of one of the fluid supplies.
- 239, Fluid Sprinkling, Spraying, and Diffusing, subclasses 225.1+ for a jet that continuously moves relative to the support during spraying, subclasses 398+ for the combining of separately supplied fluids, subclass 428.5 for liquid flow entraining atmospheric air into the stream and Digest 13 for a tube cleaner.
- 241, Solid Material Comminution or Disintegration, appropriate subclasses for comminutors, per se, especially subclass 46.013 for an under-sink disposal including mounting structure to support the disposal under a sink. Combinations of such devices with sinks and the like are classified in Class 4.
- 242, Winding, Tensioning, or Guiding, subclasses 578+ for a delivery roll holder (e.g., a dispenser) mechanism or subclasses 538+ for a winding machine mechanism with a supply roll.
- 248, Supports, subclasses 129, 146, 241, 274.1, and 311.2+.
- 249, Static Molds, subclass 58 for molding apparatus for forming closet fixtures.
- 251, Valves and Valve Actuation, subclass 12 for flush valves of the fluid actuated or retarded type, subclasses 153+ for valves combined with inlet or outlet structure comprising a single flow path, especially subclass 155 for a valve associated with a nozzle or spout, subclasses 213+ for a mechanical movement actuator and especially subclasses 231+ for a lever type mechanical movement actuator, subclass 340 for a valve actuator surrounding a nozzle, and subclasses 349+ for an inlet or outlet element which serves as a valve actuator.
- 261, Gas and Liquid Contact Apparatus, subclasses 75+ for device specifically designed to produce an intimate contact between a gas and a liquid, and Digest 75 for a device using flowing liquid to aspirate gas.
- 285, Pipe Joints or Couplings, subclass 8 for a slip-on coupling for a faucet, subclass 46 for an escutcheon for a pipe joint or coupling, subclass 64 for a static building construction support for a pipe joint or coupling, subclasses 125.1+ for means to provide a coupling for several lines, subclasses 134.1+ for a U-shaped fitting, subclasses 179+ for an elbow joint and subclass 193 for an end that pierces or penetrates a side or a plate.
- 297, Chairs and Seats, subclasses 219.1+ for a connected pad or cover (e.g., a slipcover) and Digest 10 for a chair or seat with occupant arising assistance.
- 312, Supports: Cabinet Structure, subclasses 228 and 229 for cabinets with washbasins and drains. Also see 2(a) of the Class Definition.
- 401, Coating Implements With Material Supply, appropriate subclasses, particularly subclasses 196+, 261+ and 268+ for a coating implement with material supply, used for cleaning.
- 403, Joints and Connections, appropriate subclasses for joints and connections in general.
- 414, Material or Article Handling, subclass 921 for handicapped person handling.
- 417, Pumps, appropriate subclasses for a pump of general utility, per se, which may be used to clear an obstruction but is not adapted for use on a bath, flush closet, sink, or drain pipe.
- 418, Rotary Expansible Chamber Devices, appropriate subclasses for a rotary expansible chamber pump, per se.
- 422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 1+ for a process to disinfect, preserve, deodorize, or sterilize, and subclasses 243+ for apparatus to treat a solid article or material with a fluid chemical.
- 424, Drug, Bio-Affecting and Body Treating Compositions, subclasses 40+ for a composition that is usually incompletely burned or at least has a chemical reaction to project the composition into the air as a smoke, mist, or aerosol, and subclasses 76.1+ for a deodorant, disinfectant, or olfactory desensitizer composition.
- 454, Ventilation, for ventilating devices not peculiar to the subject matter of this class, subclass 43 for a flue heater, subclass 48 the ventilation of an exterior vault or manhole cover, subclasses

- 83+ for ventilation of rail vehicles in general, and subclasses 1+, 115+, 162+, and 341+ for exhaust type ventilating devices associated with roof structure.
- 510, Cleaning Compositions for Solid Surfaces, Auxiliary Compositions Therefor, or Processes of Preparing the Compositions, for cleaning compositions having a particular shape or structure to adapt them for use, search subclasses 109+ for compositions tailored for a specific utility (e.g., toilet soap bars, including packages); for cleaning compositions of general utility, search subclasses 406 and 439 for packaged compositions, subclasses 382+ for antiseptic or biocidal compositions, and subclasses 440 and 447+ for shaped, barlike compositions.
- 601, Surgery: Kinesitherapy, particularly subclasses 154+ for a device or method therefor which may be structurally similar to a Class 4 bathing device which provides medical treatment to the body for a named ailment or injury thereof. Generic terms such as "treatment", "therapy", "massage", "hydrotherapy", "hydro-massage", etc. are to be interpreted broadly for placement in Class 4 lacking a disclosed body treatment for a named medical condition or physical injury. Exceptions to this rule comprise generically disclosed and claimed hydrotherapy of dental tissue or genitalia, or a device for applying a force which imparts a specific motion to the body or portion thereof which shall be classified in Class 601.

## SUBCLASSES

**111.1 With heating means:**

This subclass is indented under subclass 449. Device having means for elevating the temperature of material discharged to the closet to dry or burn the same.

SEE OR SEARCH THIS CLASS, SUBCLASS:

221, for sewer gas conducted to a furnace or to a fluid fuel burner.

SEE OR SEARCH CLASS:

110, Furnaces, subclasses 235+ for incinerators of refuse material.

- 424, Drug, Bio-Affecting and Body Treating Compositions, subclasses 40+ for a composition that is usually incompletely burned or at least has a chemical reaction to project the composition into the air as a smoke, mist, or aerosol, and subclasses 76.1+ for a deodorant, disinfectant, or olfactory desensitizer composition.

**111.2 And cyclic control means:**

This subclass is indented under subclass 111.1. Device wherein means is provided to regulate the sequence within which operations occur or the length of time required for the performance of any particular operation.

SEE OR SEARCH CLASS:

110, Furnaces, subclass 191 for refuse burners having cyclic control means.

**111.3 Having seat actuator or interlock:**

This subclass is indented under subclass 111.2. Device wherein the position of the seat either initiates actuation of an operation or allows the operation to be initiated.

**111.4 Fluid fuel burner:**

This subclass is indented under subclass 111.1. Device wherein means is provided for supplying a combustible gas or liquid to the combustion chamber to effect incineration of the waste material.

**111.5 Electric:**

This subclass is indented under subclass 111.1. Device wherein an electric heating means is used to effect combustion of the material discharged to the closet.

SEE OR SEARCH CLASS:

110, Furnaces, subclass 250 for refuse incinerators having electric heating means.

**111.6 And separate drying zone:**

This subclass is indented under subclass 111.1. Device wherein moisture is driven off the material prior to its introduction into an incinerating region.

SEE OR SEARCH CLASS:

110, Furnaces, subclasses 224+ for refuse incinerators having drying means.

**114.1 Urinal:**

This subclass is indented under subclass 458. Subject matter wherein the closet is for receiving urine as distinguished from fecal matter.

**144.1 Urinal:**

This subclass is indented under subclass 449. Subject matter means for receiving urine only.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

301+, for a urinal with a liquid flush.

SEE OR SEARCH CLASS:

600, Surgery, particularly subclasses 573+ for a urinal disclosed for use in collecting a specimen for a diagnostic purpose.

604, Surgery, particularly subclasses 327+ for a device for collecting a bodily discharge, e.g., urine, and which is (a) attached to or worn on the body for any reason, including for the convenience of the user, or (b) used to receive the urinary discharge from a patient suffering from a urinary control ailment, e.g., incontinence. An unclaimed article of clothing, e.g., underpants, may be used to attach the device to the body of the user.

**144.2 Disposable, entirely or a portion:**

This subclass is indented under subclass 144.1. wherein receiver is designed to be taken away as a unit or a part may be removed.

**144.3 Contacting and conforming to anatomy:**

This subclass is indented under subclass 144.1. Subject matter wherein the receiver is designed to touch and have the same form as the structure of the body.

**144.4 Spout only:**

This subclass is indented under subclass 144.1. Subject matter wherein the receiver is in the shape of a pipe or tube.

**209 VENTILATION:**

This subclass is indented under the class definition. The general miscellaneous subclass for devices for ventilation of apparatus included in this class.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

111.1+, for ventilation of a dry closet having heating means to dry or burn human waste material.

219+, for ventilation of a sewer.

306, for ventilation (i.e., noxious fume removal) of a urinal type flush closet.

347+, for ventilation (i.e., noxious fume removal) of a flush closet.

472, for ventilation of a dry closet having a valved bowl.

475, for ventilation of a dry closet having a two receptacles, one being a sub-chamber.

477, for ventilation of a dry closet having a receptacle inside an enclosure that includes a closet seat.

479, for ventilation of a dry closet having a receptacle such as a bowl, pot, bag, or etc.

SEE OR SEARCH CLASS:

454, Ventilation, for ventilating devices not peculiar to subject matter of this class, particularly subclasses 341+ for ventilating devices which exhaust stale air from a room.

**210 Railway car:**

This subclass is indented under subclass 209. Devices for ventilating railway-car closets.

SEE OR SEARCH CLASS:

454, Ventilation, particularly subclasses 83+ for the ventilation of rail vehicles, in general.

**211 House plumbing:**

This subclass is indented under subclass 209. Systems of piping for apparatus relating to this class used in a house having ventilating structure combined therewith.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

219+, for means to ventilate a sewer.

252.1+, for a flush closet bowl support, coupling, seal, or fastener.

- SEE OR SEARCH CLASS:  
 137, Fluid Handling, for fluid handling apparatus in general, see particular subclasses 357+ for fluid handling devices combined with building structure.
- 138, Pipes and Tubular Conduits, for pertinent subclass(es) as determined by schedule review.
- 285, Pipe Joints or Couplings, subclasses 125.1+ for multiple outlet fittings, subclasses 134.1+ for a U-type fitting, and subclass 179 for elbow fittings of general utility.
- 213 Electric-motor pump:**  
 This subclass is indented under subclass 209. The air and gases are carried away by an air pump operated by an electric motor.
- SEE OR SEARCH CLASS:  
 310, Electrical Generator or Motor Structure, appropriate subclasses for electric motor structure.
- 318, Electricity: Motive Power Systems, appropriate subclasses, for electric motor control systems.
- 214 Water-motor pump:**  
 This subclass is indented under subclass 209. The pump is operated by a water motor.
- 215 Water-jet pump:**  
 This subclass is indented under subclass 209. The gases are removed by a water-jet pump.
- SEE OR SEARCH CLASS:  
 417, Pumps, subclasses 151+ for jet pump structure, per se.
- 216 Bowl structure or vent valve:**  
 This subclass is indented under subclass 209. The general miscellaneous structure of a bowl provided with a ventilator, not provided for in preceding subclasses. Also includes the valve structure controlling the vent pipe.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
 348+, for a flush closet with a ventilated bowl.
- 217 Seat structure:**  
 This subclass is indented under subclass 209. Closet seats provided with ventilating means.
- 218 Roof outlet:**  
 This subclass is indented under subclass 209. The structure of the roof connection with the vent pipe.
- SEE OR SEARCH CLASS:  
 285, Pipe Joints or Couplings, subclasses 42+ for roof flashing.
- 454, Ventilation, for ventilating devices not peculiar to subject matter of this class, particularly subclasses 1+, 115+, 162+, and 341+ for exhaust-type ventilating devices, in general, which are associated with roof structure.
- 219 Sewer:**  
 This subclass is indented under subclass 209. Means for ventilating sewers.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
 211, for house systems.
- 220 Disinfecting:**  
 This subclass is indented under subclass 219. Sewer ventilators provided with disinfecting apparatus.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
 221, for sewer gas conducted to a furnace or to a fluid fuel burner.
- 222+, for general disinfecting or chemical dispensing apparatus.
- SEE OR SEARCH CLASS:  
 422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 1+ for a process to disinfect, preserve, deodorize, or sterilize, and subclasses 243+ for apparatus to treat a solid article or material with a fluid chemical.
- 424, Drug, Bio-Affecting and Body Treating Compositions, subclasses 40+ for a composition that is usually incompletely burned or at least has a chemical reaction to project the composition into the air as a smoke, mist, or aero-

sol, and subclasses 76.1+ for a deodorant, disinfectant, or olfactory desensitizer composition.

**221 Burner:**

This subclass is indented under subclass 219. The sewer gases are conducted to a furnace or to a fluid-fuel burner.

SEE OR SEARCH THIS CLASS, SUBCLASS:

222+, for general disinfecting or chemical dispensing apparatus.

SEE OR SEARCH CLASS:

424, Drug, Bio-Affecting and Body Treating Compositions, subclasses 40+ for a composition that is usually incompletely burned or at least has a chemical reaction to project the composition into the air as a smoke, mist, or aerosol, and subclasses 76.1+ for a deodorant, disinfectant, or olfactory desensitizer composition.

454, Ventilation, subclass 43 for a flue heater and subclass 48 for exterior vault or manhole covers.

**222 DISINFECTION:**

The general subclass for disinfecting apparatus pertaining to this class not provided for in any of the following subclasses: 111.1, 220, 221, 261, 294, 309, or 459.

(1) Note. This subclass also includes a dispensed material that can deodorize, clean, or color.

SEE OR SEARCH THIS CLASS, SUBCLASS:

111.1+, for a dry closet having a drying or burning means.

220+, for a sewer, a ventilator provided with disinfecting apparatus.

261, for a spittoon provided with disinfecting apparatus.

294, for a closure adapted to be placed over the waste outlet of a sink or bath having a disinfectant means.

309, for a urinal only, including a disinfecting or deodorizing means.

459, for a dry closet using a chemical for disinfection.

464+, for a dry closet having a magazine containing granular material and means for discharging a portion to the bowl.

SEE OR SEARCH CLASS:

210, Liquid Purification or Separation, subclasses 632, 638, 660+, 696+, 702+, and 749+ for processes of chemical treatment for purification or separation, and subclasses 198.1+ for apparatus for purification or separation with additional treating material.

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 1+ for a process to disinfect, preserve, deodorize, or sterilize, and subclasses 243+ for apparatus to treat a solid article or material with a fluid chemical.

424, Drug, Bio-Affecting and Body Treating Compositions, subclasses 40+ for a composition that is usually incompletely burned or at least has a chemical reaction to project the composition into the air as a smoke, mist, or aerosol, and subclasses 76.1+ for a deodorant, disinfectant, or olfactory desensitizer composition.

510, Cleaning Compositions for Solid Surfaces, Auxiliary Compositions Therefor, or Processes of Preparing the Compositions, for cleaning compositions having a particular shape or structure to adapt them for use, search subclasses 109+ for compositions tailored for a specific utility (e.g., toilet soap bars, including packages); for cleaning compositions of general utility, search subclasses 406 and 439 for packaged compositions, subclasses 382+ for antiseptic or biocidal compositions, and subclasses 440 and 447+ for shaped, barlike compositions.

**222.1 With screen:**

This subclass is indented under subclass 222. Subject matter including means to strain material from a drain outlet.

**223 Dispensing to bowl:**

This subclass is indented under subclass 222. The disinfectant is dispensed directly to the bowl.

- SEE OR SEARCH THIS CLASS, SUBCLASS:
- 225.1, for dispensing to bowl through overflow.
- 226.1, for dispensing to bowl through flush pipe.
- 227.1+, for dispensing to bowl through the water in flush tank.
- 464+, for a dry closet having a magazine containing granular material and means for discharging a portion to the bowl.
- 224 Combined with flusher:**  
This subclass is indented under subclass 223. The dispenser acts in combination with and generally after the device which flushes out the bowl.
- 225.1 Dispensing to overflow of flush tank:**  
This subclass is indented under subclass 222. Subject matter wherein the apparatus discharges a chemical into a structure which prevents spill over in the reservoir, containing flush water used to wash out a closet bowl, by discarding the excess to the bowl for the purpose of disinfecting, deodorizing, cleaning, or coloring the water.
- 226.1 Dispensing to or dispenser in flush pipe:**  
This subclass is indented under subclass 222. Subject matter wherein the apparatus discharges a chemical into a conduit which conducts flush water from a source of water under pressure to a closet bowl of a flush closet for the purpose of disinfecting, deodorizing, cleaning, or coloring the water.
- 227.1 Dispensing to water in flush tank:**  
This subclass is indented under subclass 222. Subject matter wherein the apparatus discharges a chemical into the reservoir of water, used to wash out a closet bowl, of a flush closet for the purpose of disinfecting, deodorizing, cleaning, or coloring the water.
- 227.2 Float actuated:**  
This subclass is indented under subclass 227.1. Subject matter wherein the dispenser is activated by a member that is buoyed by and which uses the rise or fall of the water level in the flush tank to discharge a chemical into the water of the flush tank for the purpose of disinfecting, deodorizing, cleaning, or coloring the water.
- 227.3 Valve:**  
This subclass is indented under subclass 227.2. Subject matter wherein the float actuates a device to control the flow of the chemical from the dispenser into the water of the flush tank for the purpose of disinfecting, deodorizing, cleaning, or coloring the water.
- SEE OR SEARCH CLASS:  
222, Dispensing, subclasses 67+ for a float that follows the material level and actuates a dispenser.
- 227.4 Water level actuated:**  
This subclass is indented under subclass 227.1. Subject matter wherein the dispenser is activated by the rise or fall of the water level in the flush tank to discharge the chemical into the water of the flush tank for the purpose of disinfecting, deodorizing, cleaning, or coloring the water.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
227.2+, for a float actuated dispenser.
- 227.5 Static dispenser (i.e., no moving part):**  
This subclass is indented under subclass 227.4. Subject matter wherein the dispenser is a passive structure (having no moving parts) that is actuated by the rise or fall of the water level in the flush tank to discharge a chemical into the water of the flush tank for the purpose of disinfecting, deodorizing, cleaning, or coloring the water.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
227.1, for a static dispenser that constantly saturates the flush water with a chemical.
- 227.6 Having a flush water dosing chamber:**  
This subclass is indented under subclass 227.5. Subject matter wherein the dispenser has an enclosed space for the chemical to mix with the flush water received from the flush tank to form a concentrated solution that is to some degree isolated from the water in the flush tank during the quiescent period between flushes and is then discharged during flushing or filling

- for the purpose of disinfecting, deodorizing, cleaning, or coloring the water.
- 227.7 With a siphon:**  
This subclass is indented under subclass 227.6. Subject matter wherein the dispenser uses the suction created by the weight of falling water to discharge the concentrated solution in the dosing chamber into the flush water of the flush tank for the purpose of disinfecting, deodorizing, cleaning, or coloring the water.
- 228.1 Dispensing to air from closet:**  
This subclass is indented under subclass 222. Subject matter wherein the apparatus is disclosed for use with a closet to discharge a chemical into the atmosphere surrounding the closet for the purpose of disinfecting or deodorizing the air.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
220+, for a sewer ventilator provided with disinfecting apparatus.
- 229 Chemical holder in seat:**  
This subclass is indented under subclass 222. The closet seat is provided with a chemical holder.
- 230 Chemical holder in lid:**  
This subclass is indented under subclass 222. The closet-seat lid is provided with a chemical holder.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
470,
- 231 Chemical holder suspended in bowl:**  
This subclass is indented under subclass 222. The holder is suspended in the closet bowl.
- 232 Chemical chamber formed in bowl:**  
This subclass is indented under subclass 222. The closet bowl is constructed with a chamber for chemicals.
- 233 Seat and cover treating:**  
This subclass is indented under subclass 222. Means are provided for washing, cleaning or disinfecting the seat or cover, or both.
- 234 SEAT AND LID:**  
This subclass is indented under subclass 222. The combination of a closet seat with its lid.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
237, for seats, 242, for covers and 251, for operators.
- 235 Plural seats:**  
This subclass is indented under subclass 234. More than one seat is provided for the closet.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
239,
- 236 Hinges:**  
This subclass is indented under subclass 234. The invention resides in means for hinging both the seat and lid.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
240, for seat hinges.
- SEE OR SEARCH CLASS:  
16, Miscellaneous Hardware (e.g., Bushing, Carpet Fastener, Caster, Door Closer, Panel Hanger, Attachable or Adjunct Handle, Hinge, Window Sash Balance, etc.), subclass 365 for other hinges for pivotally connecting three or more members.
- 237 SEAT:**  
This subclass is indented under the class definition. The structure of the closet seat.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
234, for seats and covers combined, and 98 and 217.
- 238 Subclosure, seat operated:**  
This subclass is indented under subclass 237. Closures for the hole in the seat operated by movement of the seat when occupied.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
485,



**239 Superposed:**

This subclass is indented under subclass 237. The seat is one adapted to be placed over the closet seat, either for sanitary reasons or for the use of children, or is adapted to be employed on a vessel.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

235, for a closet bowl having more than one seat.

245.1+, for a sanitary seat cover.

246.1+, for an opener or closer for a closet seat or lid.

SEE OR SEARCH CLASS:

297, Chairs and Seats, subclasses 188.09+ for a seat having a receptacle of general utility thereunder, and subclasses 250.1+, for a seat detachably connected to a subjacent seat. An apertured seat having means to connect it to a subjacent apertured seat is classified in this class (4).

**240 Hinges:**

This subclass is indented under subclass 237. The invention resides in the hinging of the closet seat.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

236, and 241.

SEE OR SEARCH CLASS:

16, Miscellaneous Hardware (e.g., Bushing, Carpet Fastener, Caster, Door Closer, Panel Hanger, Attachable or Adjunct Handle, Hinge, Window Sash Balance, etc.), subclasses 221+ for hinges of general application.

**241 Counterbalanced or spring biased:**

This subclass is indented under subclass 237. Means for counterbalancing or causing a seat to be swung upward, generally by a weight or spring.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

248,

**242.1 LID:**

This subclass is indented under the class definition. Subject matter comprising a cap that closes the opening of a seat or a closet bowl of the closet.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

234, for a lid combined with a seat.

SEE OR SEARCH CLASS:

297, Chairs and Seats, subclasses 219.1+ for a connected pad or cover (e.g., a slipcover).

**243.1 MECHANISM POSITIONS COVER ON SEAT:**

This subclass is indented under the class definition. Subject matter comprising a machine that places a shield on a seat having an opening to a closet bowl and blankets the seat rim leaving the opening clear for the purpose of providing user access to the closet and a sanitary surface upon which to sit.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

244.1+, for a device that dispenses a sanitary cover.

245.1+, for a sanitary cover.

SEE OR SEARCH CLASS:

226, Advancing Material of Indeterminate Length, subclasses 120+ for a mechanism that intermittently moves material.

242, Winding, Tensioning, or Guiding, subclasses 550+ for a machine for unwinding elongated material and subclasses 590+ for a coil holder.

**243.2 Tubular type cover:**

This subclass is indented under subclass 243.1. Subject matter wherein the mechanism is of the type that uses a hose shaped shield that encloses the rim of the seat and may have a longitudinal slot to enable it to be slipped over the seat's rim to provide a sanitary surface upon which to sit.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

245.2, for a tubular shaped cover for seat.

**243.3 Single continuous roll of flat covers:**

This subclass is indented under subclass 243.1. Subject matter wherein the mechanism is of the type that uses only one sheet of flexible material having a row of consecutive shields formed thereon and wound into a tubular form so that successive shields are positioned on the seat providing a sanitary surface upon which to sit.

**244.1 COVER DISPENSER:**

This subclass is indented under the class definition. Subject matter comprising an apparatus for the disbursement of a shield to blanket the rim of a closet seat while leaving the opening in the seat clear for user access to the closet while sitting upon a sanitary surface.

SEE OR SEARCH THIS CLASS, SUBCLASS:

243.1+, for a dispenser also having means to place a sanitary cover upon the seat of a closet.

245.1+, for a sanitary cover.

SEE OR SEARCH CLASS:

221, Article Dispensing, appropriate subclasses for a general article dispensing mechanism.

226, Advancing Material of Indeterminate Length, subclasses 120+ for a mechanism that intermittently moves material and especially 127+ for a manual material-mover (e.g., a dispenser) mechanism.

242, Winding, Tensioning, or Guiding, subclasses 550+ for a machine for unwinding elongated material and subclasses 590+ for a coil holder.

**244.2 Continuous roll:**

This subclass is indented under subclass 244.1. Subject matter wherein the device uses only one sheet of flexible material having a row of consecutive shields formed thereon and wound into a tubular form so that a single shield may be extracted to blanket the rim of a closet seat while leaving the opening in the seat clear for user access to the closet while sitting upon a sanitary surface.

**244.3 Pad mounted on seat:**

This subclass is indented under subclass 244.1. Subject matter wherein the device uses shields stacked up on top of each other, aligned and mounted to the closet seat so that an old shield may be removed and a new shield exposed, and blankets the closet seat rim leaving the opening clear to provide user access to the closet while sitting upon a sanitary surface.

SEE OR SEARCH THIS CLASS, SUBCLASS:

245.3+, for means to mount a cover on a seat.

**245.1 COVER FOR SEAT:**

This subclass is indented under the class definition. Subject matter comprising an article manually placed over or upon a seat of a closet to protect the seat or to aid the user (e.g., comfort, boost, or sanitation) and leave the opening in the seat clear to provide a user access to the closet.

(1) Note. A cover provides for the opening in a seat while a lid closes off the seat and its opening.

SEE OR SEARCH THIS CLASS, SUBCLASS:

239, for a seat adapted to be placed over a closet seat.

243.1+, for a mechanism that positions a sanitary cover on a seat of a closet.

244.1+, for a sanitary cover dispenser.

SEE OR SEARCH CLASS:

297, Chairs and Seats, subclasses 219.1+ for a connected pad or cover (e.g., a slipcover).

**245.2 Tubular type:**

This subclass is indented under subclass 245.1. Subject matter wherein the cover is hose shaped to enclose the rim of the closet seat and may have a longitudinal slot to enable it to be slipped over the seat's rim which leaves the opening in the seat clear to provide the user access to the closet.

(1) Note. This does not include a cover that envelopes the entire seat.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

243.2, for a mechanism that positions a tubular sanitary cover on the seat of a closet.

**245.3 Securing means:**

This subclass is indented under subclass 245.1. Subject matter wherein the cover has means that may be separate from or a part of the cover to hold it to the closet seat and leave the opening in the seat clear to provide the user access to the closet.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

243.1+, for a mechanism that positions and holds a cover to a seat.

244.3, for covers stacked up on top of each other, aligned and mounted to the seat.

245.2, for a cover structure that is inherently secure by enclosing the seat rim.

**245.4 Adhesive:**

This subclass is indented under subclass 245.3. Subject matter wherein the securing means is a gummed or sticky surface that holds the cover to or in alignment with the closet seat and leaves the opening in the seat clear to provide the user access to the closet.

**245.5 Peripheral:**

This subclass is indented under subclass 245.3. Subject matter wherein the securing means extends substantially around the inner or outer rim of the closet seat to secure the cover to the seat and leaves the opening in the seat clear to provide the user access to the closet.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

242.1, for a peripheral securing means for a lid covering.

**245.6 Specific material:**

This subclass is indented under subclass 245.1. Subject matter wherein the cover is disclosed as being made out of a definite substance (e.g., paper, plastic, rubber or cloth) and leaves the opening in the seat to provide the user access to the closet.

(1) Note. This does not include an article which as disclosed as being made out of a generic substance (e.g., a “flexible”, “disposable”, or “destructible” material).

**245.7 Plastic or rubber:**

This subclass is indented under subclass 245.6. Subject matter wherein the cover is disclosed as made out of plastic or rubber and leaves the opening in the seat clear to provide the user access to the closet.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

Fig. 8, for a rubber seat.

**245.8 Paper:**

This subclass is indented under subclass 245.6. Subject matter wherein the cover is disclosed as made out of paper and leaves the opening in the seat clear to provide the user access to the closet.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

243.1+, for a mechanism that positions a paper cover on a seat.

244.1+, for a paper cover dispenser.

**245.9 Having dependent member in closet bowl:**

This subclass is indented under subclass 245.8. Subject matter wherein the cover has a portion of itself hanging down into the bowl and leaves the opening in the seat clear to provide the user access to the closet.

(1) Note. This dependent member may serve a purpose such as preventing the user from contacting the inside of the closet bowl, protecting the inside of the closet bowl from urination or defecation, or as drag anchor to pull the rest of the cover into the closet bowl when it is flushed.

**246.1 OPENER OR CLOSER FOR A CLOSET SEAT OR LID:**

This subclass is indented under the class definition. Subject matter comprising means to assist a user in moving that part of closet providing support and access for a user to the closet, and the cap; which are both articulated to the closet; from one position to another.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

241, for a seat having a counterbalancing weight or spring biasing means urging it to an upward position.

243.1, for a mechanism that moves a seat from one position to another when putting a sanitary cover on the seat.

**246.2 Fluid mechanism:**

This subclass is indented under subclass 246.1. Subject matter wherein the means uses fluid as a source of power or to transmit force to assist the user in moving the seat or lid from one position to another.

**246.3 Lever operated opener:**

This subclass is indented under subclass 246.1. Subject matter wherein the user actuates one end of a body having a fixed axis or fulcrum which is mechanically linked to the seat or lid and is manipulated by the user in moving the seat or lid from one position to another.

**246.4 Four bar link:**

This subclass is indented under subclass 246.3. Subject matter wherein the mechanical link includes two members that are each connected to a stationary rotatable joint and have a rod connected to the members by rotatable joints, where one of the members is a lever manipulated by the user while the other member or rod is or is in contact with the seat or lid, so that the motion of the lever is transmitted by the mechanical link to move the seat or lid from one position to another.

**246.5 Using a seat or lid for a link:**

This subclass is indented under subclass 246.4. Subject matter wherein the seat or lid is the other member or rod of the four bar link so that the motion of the lever is transmitted by the by the mechanical link to move the seat or lid from one position to another.

**248 BUFFERS AND DASHPOTS:**

This subclass is indented under the class definition. Means for preventing injury to parts of a closet by means of a buffer or dashpot applied to the relatively moving parts.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

360, and 388+, for a dashpot controlled outlet valve.

SEE OR SEARCH CLASS:

188, Brakes, subclasses 297+ for a dashpot or shock absorber or general utility.

**249 FLUSH-VALVE OPERATORS:**

This subclass is indented under the class definition. The miscellaneous subclass for devices for operating flush valves or supply valves.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

405+, for flush valve actuator and linkage.

SEE OR SEARCH CLASS:

137, Fluid Handling, subclasses 624.11+ for programmer or time controlled valves of general utility.

222, Dispensing, subclasses 59+ for cut-offs operated by rate of flow responsive mechanism.

251, Valves and Valve Actuation, for valve actuators in general, particularly subclasses 12+ for fluid operated or retarded valves.

**250 Seat operated:**

This subclass is indented under subclass 249. The valve is operated by movement of the seat.

(1) Note. See special structures in this class, subclasses 238, 408, 468, 473, and 486.

**251.1 DRIP CATCHER:**

This subclass is indented under the class definition. Subject matter comprising means for collecting water trickling down from a flush closet such as a urinal, closet bowl or tank.

SEE OR SEARCH CLASS:

137, Fluid Handling, subclasses 312+ for drip collecting means.

**251.2 For flush closet tank only:**

This subclass is indented under subclass 251.1. Subject matter wherein the drip catcher is solely for use in collecting water trickling down from the flush closet tank.

- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
901, for a covering for a flush closet tank.
- 252.1 FLUSH CLOSET BOWL SUPPORT, COUPLING, SEAL OR FASTENER:**  
This subclass is indented under the class definition. Subject matter comprising a means to bear or hold up, to join a waste pipe in fluid communication with, to prevent the escape of fluid from or to secure a flush closet bowl.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
643+, for a support for a sink.
- SEE OR SEARCH CLASS:  
285, Pipe Joints or Couplings, for a pipe joint or coupling in general, and especially subclasses 56+ for a floor supported flush closet type and subclass 64 for a static building construction support.
- 252.2 Support for a wall hung closet bowl:**  
This subclass is indented under subclass 252.1. Subject matter wherein the means to bear or hold up suspends, from a building partition, the flush closet bowl.
- 252.3 Adjustable:**  
This subclass is indented under subclass 252.2. Subject matter wherein the wall hung closet bowl support is adaptable in the plane parallel to the wall to align a waste pipe with the discharge opening of the closet bowl or an intermediary coupling for the discharge opening of the closet bowl.
- 252.4 Flange with aperture for fastener:**  
This subclass is indented under subclass 252.1. Subject matter wherein the coupling for the flush closet bowl, which provides for the fluid flow communication between the closet bowl discharge and the waste pipe, has a projecting rim with an opening or slot for a securing member to hold the coupling to the closet bowl.
- 252.5 Having a seal:**  
This subclass is indented under subclass 252.4. Subject matter wherein the coupling having a flange has a gasket between the closet bowl discharge or waste pipe to prevent fluid from escaping from the waste pipe or the closet bowl.
- 252.6 Seal structure detail:**  
This subclass is indented under subclass 252.1. Subject matter wherein significance is attributed to the claimed particulars of the means to prevent the escape of fluid between the coupling, the fastener or the flush closet bowl.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
252.1+, for the coupling, the fastener or the closet bowl disclosing a nominal seal structure.
- 253 CLOSET-BOWL CLOSURES:**  
This subclass is indented under the class definition. Closures secured to the bowl to prevent its use.
- 254 CLOSET HEAD, FOOT, AND BODY RESTS:**  
This subclass is indented under the class definition. Devices for resting the body or parts thereof when the closet is being used.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
185,
- SEE OR SEARCH CLASS:  
297, Chairs and Seats, for a body rest for an occupant of a seat of that class, i.e., subclasses 391+ for headrest, subclasses 411.2+ for armrest, and subclasses 423.1+ for a knee-, leg-, or footrest.
- 255.01 OBSTRUCTION REMOVER:**  
This subclass is indented under the class definition. Subject matter comprising apparatus specialized to clean or clear an obstacle within or clear an obstacle from a drain pipe of a sink, bath, or flush closet.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
694, for means to block the overflow preventing water from flowing into or gas escaping from the overflow.

## SEE OR SEARCH CLASS:

- 15, Brushing, Scrubbing, and General Cleaning, subclasses 104.03+ for mechanical or gaseous pressure devices for hammering, cutting, scraping, loosening or flushing deposits from conduits, pipes or tubes; and subclasses 406+ for an air blast soot blower for tubing.
- 68, Textiles: Fluid Treating Apparatus, subclasses 216+ for a hand held pounder with plunger.
- 134, Cleaning and Liquid Contact With Solids, subclasses 22.11+ for internal surface treatment of pipe etc., subclass 24 for internal surface treatment of hollow work with movable fluid applying nozzle and/or with plugging or sealing of work passage or opening, subclass 166 for a conduit cleaner, subclass 167 for a conduit cleaner with movably or flexibly mounted spray or jet applying conduits or nozzle, subclass 168 for a conduit cleaner with a pump and movable nozzle, and subclass 169 for a conduit cleaner using a pump.
- 137, Fluid Handling, subclass 240 for a system in which a material (e.g., a chemical or physical agent) different from the fluent material of the system is introduced to clean parts of the system.
- 138, Pipes and Tubular Conduits, subclasses 89+ for a closure or plug for a pipe and subclass 90 for a closure or plug having means to introduce pressure.
- 239, Fluid Sprinkling, Spraying, and Diffusing, subclass Digest 13 for a tube cleaner.

**255.02 Piston:**

This subclass is indented under subclass 255.01. Subject matter wherein the apparatus uses a piston in fluid communication with the obstruction to agitate the fluid to clean or clear the obstruction within or clear the obstruction from the drain pipe of the sink, bath or flush closet.

## SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 694, for means to block the overflow preventing water from flowing into or gas escaping from the overflow.

## SEE OR SEARCH CLASS:

- 417, Pumps, appropriate subclasses for a pump of general utility, per se, which may be used to clear an obstruction but is not adapted for use on a bath, flush closet, sink or drain pipe.
- 418, Rotary Expandable Chamber Devices, appropriate subclasses for a rotary expandable chamber pump, per se.

**255.03 With one way valve:**

This subclass is indented under subclass 255.02. Subject matter wherein the apparatus has a device in the fluid communication with the piston and the obstruction to make the fluid flow in one direction to clean or clear the obstruction within or clear the obstruction from the drain pipe of the sink, bath, or flush closet.

**255.04 Connected to a source of external fluid under pressure:**

This subclass is indented under subclass 255.01. Subject matter wherein the apparatus includes a conduit with one end connected to an external source of fluid under pressure while the other end is brought into fluid communication with an opening on the sink, bath or flush closet pipe to clean or clear the obstruction within or clear the obstruction from the drain pipe of the sink, bath, or flush closet.

## SEE OR SEARCH CLASS:

- 285, Pipe Joints or Couplings, subclass 8 for a slip-on coupling for a faucet.

**255.05 With force cup (e.g., a plunger):**

This subclass is indented under subclass 255.04. Subject matter wherein the other end of the conduit has a flexible cup or head used to close the opening and flexed to provide additional fluid pressure to clear the obstruction from the drain pipe of the sink, bath or flush closet.

**255.06 With flow control valve:**

This subclass is indented under subclass 255.04. Subject matter wherein the apparatus includes a device to control the flow of fluid between the external source of fluid under pressure to the obstruction, to clear the obstruction from the drain pipe of the sink, bath, or flush closet.

**255.07 With means to block or clear the overflow:**

This subclass is indented under subclass 255.04. Subject matter wherein the apparatus includes means to close an overflow during obstruction removal (i.e. to prevent loss of fluid pressure) or is used to remove an obstruction from the overflow.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

255.01+, for another type of obstruction remover having means to block or clear the overflow.

694, for means to block the overflow preventing water from flowing into or gas escaping from the overflow.

**255.08 With head structure that grips drain opening or pipe:**

This subclass is indented under subclass 255.04. Subject matter wherein the other end of the conduit has a gripping structure at its other end that fastens it to the drain opening or pipe to clear the obstruction from the drain pipe of the sink, bath, or flush closet.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

255.01+, for another type of obstruction remover having a head structure that grips the drain opening.

**255.09 With head structure that increases velocity or turbulence:**

This subclass is indented under subclass 255.04. Subject matter wherein the other end of the conduit has a head designed to boost the rate of change or violence of the flow into the opening to clear the obstruction from the drain pipe of the sink, bath, or flush closet.

**255.11 Force cup (e.g., a plunger):**

This subclass is indented under subclass 255.01. Subject matter wherein the apparatus includes a flexible cup that is placed over the opening and manually flexed to agitate fluid to clean or clear the obstruction within or clear the obstruction from the drain pipe of the sink, bath, or flush closet.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

255.01+, for other cup like structure having a force or sealing function.

**255.12 With one way valve:**

This subclass is indented under subclass 255.11. Subject matter wherein the force cup has a device that will make the fluid flow in one direction to clean or clear the obstruction within or clear the obstruction from the drain pipe of the sink, bath, or flush closet.

**256.1 DEBRIS CATCHER FOR A FLUSH CLOSET, OR A CLEAN OUT PLUG:**

This subclass is indented under the class definition. Subject matter comprising either a collector for a flush closet that intercepts miscellaneous foreign objects before they can clog a trap or sewer line; or an access with a fitted sealing cover for a sink, bath, or flush closet that provides an entrance to a trap or a sewer line.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

255.01, for an agitating obstruction remover that attaches to the clean out opening.

255.04, for an obstruction remover that attaches to the clean out opening.

286+, for a debris catcher or a plug for a sink.

SEE OR SEARCH CLASS:

138, Pipes and Tubular Conduits, subclasses 89+ for a plug or closure relating to a pipe or pipe fitting.

220, Receptacles, subclasses 200+ for a plug or closure having a more general use.

- 258 SPITTOONS:**  
This subclass is indented under the class definition. Devices to receive and dispose of sputa or expectorations.
- (1) Note. For ash receivers, see Class 131, Tobacco, subclasses 231+ Class 220 Receptacles, appropriate subclasses, particularly subclasses 501+ for a receptacle having intercommunicable compartments, and subclasses 910+ for cross reference art collections of table-top trash or ash containers.
- SEE OR SEARCH CLASS:  
126, Stoves and Furnaces, subclass 32 for spittoon attachments to cooking stoves.
- 259 Pocket:**  
This subclass is indented under subclass 258. Receptacles carried in a person's pocket or attached to the person.
- 260 Bar:**  
This subclass is indented under subclass 258. Spittoons for saloon bars.
- 261 Disinfecting:**  
This subclass is indented under subclass 258. Spittoons provided with disinfecting apparatus.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
222+, for general disinfecting or chemical dispensing apparatus.
- 262 Flushing:**  
This subclass is indented under subclass 258. Spittoons having means for washing away the sputa.
- 263 Dental:**  
This subclass is indented under subclass 262. Spittoons specialized for the use of dentists.
- 264 Rotary member:**  
This subclass is indented under subclass 263. Either the bowl or the plate in the bowl for receiving the sputa or the flush nozzle rotates.
- 265 Hand pump:**  
This subclass is indented under subclass 262. The water is supplied by a hand pump.
- 266 Flush valve and outlet valve:**  
This subclass is indented under subclass 262. The spittoon is provided with a water-supply valve and discharge valve cooperating in operation.
- 267 Covered:**  
This subclass is indented under subclass 258. The spittoon is provided with a cover.
- 268 Floor orifice:**  
This subclass is indented under subclass 267. The spittoon is located in a hole in the floor of a building, car, or vehicle.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
275,
- 269 Valved outlet:**  
This subclass is indented under subclass 268. The outlet is provided with a valve.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
266, and 276.
- 270 Receptacle:**  
This subclass is indented under subclass 268. The spittoon has a closed bottom.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
269, and 277.
- 271 Hand operated:**  
This subclass is indented under subclass 267. The cover is operated by mechanism actuated by hand.
- 272 Pedal operated:**  
This subclass is indented under subclass 267. The cover is operated by a pedal.
- 273 Two-part cover:**  
This subclass is indented under subclass 272. The cover consists of two similar parts conjoined.



- 274 Flexible material and holder:**  
This subclass is indented under subclass 267. The spittoon is made of flexible material generally paper, and the holder has a cover.  
  
SEE OR SEARCH THIS CLASS, SUB-CLASS:  
259, and 285.
- 275 Floor orifice:**  
This subclass is indented under subclass 258. The spittoon is placed in a hole in the floor of the building or car.  
  
SEE OR SEARCH THIS CLASS, SUB-CLASS:  
268,
- 276 Valved outlet:**  
This subclass is indented under subclass 275. A valve controls the outlet of the spittoon.  
  
SEE OR SEARCH THIS CLASS, SUB-CLASS:  
266, and 269.
- 277 Receptacle:**  
This subclass is indented under subclass 275. The spittoon has a closed bottom.  
  
SEE OR SEARCH THIS CLASS, SUB-CLASS:  
270,
- 278 Agitator:**  
This subclass is indented under subclass 258. Means are provided for moving the part receiving the sputa into the liquid or for moving the liquid in the spittoon to wash the sputa down.
- 279 Reversible:**  
This subclass is indented under subclass 258. The spittoon is provided with a plurality of inlet openings for the sputa and either one may be uppermost.  
  
SEE OR SEARCH THIS CLASS, SUB-CLASS:  
280, 281, 283, and 284, for different types of anti-spilling spittoons.
- 280 Floor controlled valve:**  
This subclass is indented under subclass 258. The inlet is provided with a valve generally closed by a spring. The valve is opened by a member connected to it when the member comes into contact with the floor on which the spittoon rests.
- 281 Gravity controlled valve:**  
This subclass is indented under subclass 258. The valve governing the inlet to the spittoon is normally open; but if the spittoon is tipped over the valve will close.  
  
SEE OR SEARCH THIS CLASS, SUB-CLASS:  
284,
- 282 Positively operated inlet valve:**  
This subclass is indented under subclass 258. The inlet valve is positively actuated.
- 283 Trapped liquid:**  
This subclass is indented under subclass 258. The construction is such that if the spittoon is upset the liquid will be trapped and prevented from spilling.
- 284 Gravity receptacle:**  
This subclass is indented under subclass 258. The receiver is mounted in a frame or holder, so that gravity will operate on the counter-weighted receptacle to keep it upright when the holder is overturned.  
  
SEE OR SEARCH THIS CLASS, SUB-CLASS:  
279,
- 285 Flexible material and holder:**  
This subclass is indented under subclass 258. The receptacle is made of flexible or paper material and is generally placed in a cup or holder.  
  
SEE OR SEARCH THIS CLASS, SUB-CLASS:  
259, and 274.

- 286 STRAINER, STOPPER, PLUG OR CLOSURE:**  
This subclass is indented under the class definition. The miscellaneous subclass for strainers, closures and stoppers, for basins, sinks, tubs or other specialized strainer or stopper structure classified in this class.
- (1) Note. A stopper is distinguished from a valve by being bodily removable from the sink or bath structure.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
256.1, for a debris catcher or clean out plug for a flush closet.  
292, for strainers, per se, or if of general application, see search notes below.  
295, for a closure or stopper that enters the waste outlet of a sink or bath.  
652, for a sink or bath having a drain and strainer.
- SEE OR SEARCH CLASS:  
210, Liquid Purification or Separation, especially subclasses 348+ for strainers of general application.  
241, Solid Material Comminution or Disintegration, subclass 32.5 for a comminuting apparatus including a sink drain stopper interlock and subclass 46.016 for a comminuting apparatus in combination with stopper or strainer in combination with a garbage disposal inlet.
- 287 Combined strainer, plug, or valve:**  
This subclass is indented under subclass 286. The strainer is combined with a plug, valve or other closure.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
693, for a drain valve or plug having the operating means inside sink or bath.
- 288 Combined strainer and pipe coupling:**  
This subclass is indented under subclass 286. The strainer is combined with the coupling uniting the outlet pipe to the receptacle.
- 289 Strainers in series:**  
This subclass is indented under subclass 286. The water passes through a plurality of strainers arranged in series.
- 290 Strainer, receptacle:**  
This subclass is indented under subclass 286. The strainer is in the form of a dish or receptacle.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
289,
- 291 Depending:**  
This subclass is indented under subclass 290. The receptacle strainer is suspended in the outlet conduit of the receptacle tub, sink or basin.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
289,
- 292 Strainer:**  
This subclass is indented under subclass 286. Consists of a single strainer.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
289, 290, 291, and 650+.
- SEE OR SEARCH CLASS:  
210, Liquid Purification or Separation, subclasses 348+ for strainers or filters of general utility.
- 293 Closure:**  
This subclass is indented under subclass 286. Closures adapted to be placed over the outlet of the receptacle.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
668+, for a condition responsive drain valve plug or closure.  
671+, for a supply outlet combined with a drain valve plug or closure for a sink or bath.  
679+, for a drain valve having a plug or closure.

**294 Disinfecting:**

This subclass is indented under subclass 293. The closure is provided with disinfecting means for holding a disinfectant.

SEE OR SEARCH THIS CLASS, SUBCLASS:

222+, for a general disinfecting or chemical dispensing apparatus.

**295 Plugs:**

This subclass is indented under subclass 286. The closure or stopper enters the outlet of the receptacle.

SEE OR SEARCH THIS CLASS, SUBCLASS:

287, for a strainer combined with a plug, valve or other closure.

668+, for a condition responsive drain valve plug or closure.

671+, for a supply outlet combined with a drain valve plug or closure for a sink or bath.

SEE OR SEARCH CLASS:

215, Bottles and Jars, subclasses 355+ for stopper type closures.

**300 Flush closet:**

This subclass is indented under the class definition. Subject matter receptacle for receiving bowel material and/or a liquid handling means to assist the removal of the bowel material from the receptacle.

(1) Note. The liquid handling can be a rapid flow of liquid or liquid to assist the removal of the bowel material.

(2) Note. The liquid can have a gas, e.g., air, added to it, the gas is usually to save the amount of water used.

(3) Note. A subcombination of basic subject matter of this subclass and the indented subclasses that is specialized for use in a flush closet is proper for this subclass and the indented subclasses unless otherwise provided for in another class, e.g., tank outlet valve, however, a tank inlet valve is elsewhere. See Search notes below.

(4) Note. Patents issued prior to 1950 have not in all instances been classified by their claimed disclosure so the placement of these patents does not necessarily indicate lines of classification.

SEE OR SEARCH CLASS:

137, Fluid Handling, for a tank inlet valve.

181, Acoustics, subclasses 233+ for a fluid conducting motion silencer and especially subclass 234 for a flash closet type.

251, Valves and Valve Actuation, for a tank inlet valve.

**300.1 With toilet tissue holder:**

This subclass is indented under subclass 300. Subject matter which includes a toilet tissue receptacle combined with a flush closet or a portion thereof.

(1) Note. The portion of a flush closet includes a flush tank, a flush tank bowl, or a flush toilet seat.

(2) Note. Included are roll-type and sheet-type toilet tissue receptacles.

SEE OR SEARCH THIS CLASS, SUBCLASS:

443+, for receptacles and devices for washing the perineum region of the human body.

661, for devices not elsewhere classified to clean the perineum region with toilet tissue.

SEE OR SEARCH CLASS:

206, Special Receptacle or Package, subclasses 389+ for roll or reel material.

242, Winding, Tensioning, or Guiding, subclasses 564+ for a motor driven dispenser of wound material, and subclasses 590+ for a mounted dispenser for wound material.

312, Supports: Cabinet Structure, subclasses 34.2, 34.3, 34.4, 34.7, 34.8, and 34.18+ for continuous strip material.

**300.2 With bedpan rinser:**

This subclass is indented under subclass 300. Subject matter including a water closet bowl and a water nozzle (a) built into the closet bowl, or (b) connected to part of the closet bowl's water supply system, or (c) being separate from the closet bowl or the closet bowl's water supply wherein the water from the nozzle washes a bedpan and the wash water from the bedpan empties into the water closet which can dispose of the waste water by flushing the waste water down the toilet drain.

- (1) Note. The water closet may be structurally formed to support a bedpan in or on the closet for the purpose of cleaning the bedpan.

SEE OR SEARCH THIS CLASS, SUBCLASS:

450+, for bedpans and accessories for bedpans.

**300.3 With splash guard or water baffle:**

This subclass is indented under subclass 300. Subject matter which includes a device to prevent or minimize splashing of fluids as a result of use of the water closet to direct the flow of water within the water closet.

- (1) Note. Included are the baffle or the splash guard, per se.

SEE OR SEARCH THIS CLASS, SUBCLASS:

415, for water-saving devices used with flush closet tanks.

SEE OR SEARCH CLASS:

210, Liquid Purification or Separation, subclass 285 for an embedded baffle in a particulate material type separator, and subclass 521 for superposed baffles in a gravitational separator.

239, Fluid Sprinkling, Spraying, and Diffusing, subclasses 461+ for flow-deflecting means, particularly subclasses 518+ for a deflector and terminal flow element.

**301 Urinals only:**

This subclass is indented under subclass 300. Subject matter having means to receive urine solely.

- (1) Note. This and indented subclasses will take plural receptacles where one receptacle is for urine only.

- (2) Note. For a supply tank and/or control means only for flushing a urinal, see search notes below.

- (3) Note. This and indented subclasses provide for a urinal receptacle and flushing means or a receptacle adapted to be flushed with a liquid.

SEE OR SEARCH THIS CLASS, SUBCLASS:

353+, for tanks and control means for flushing.

449+, for urinals which do not use a fluid flush.

**302 Flush actuation automatically responsive to condition:**

This subclass is indented under subclass 301. Subject matter having means to cause a flushing device to operate when an automatic condition occurs.

- (1) Note. Flushing means actuated by an indirect means, e.g., opening a door, lighting a light, is proper for this area, but if the flushing means is actuated by a person pushing an electric switch, lever, or button the patent is placed lower in the schedule.

SEE OR SEARCH THIS CLASS, SUBCLASS:

308, for a pedal actuated flush.

313, for automatic flush means of general use.

367, for fluid or electric actuated flush.

405+, for direct actuated flush means.

**303 Periodic flush:**

This subclass is indented under subclass 302. Subject matter wherein the flushing device is actuated at recurrent intervals, e.g., as often as a certain condition is reached.

- (1) Note. The periodic flush can take place after a direct flush.
- SEE OR SEARCH CLASS:  
137, Fluid Handling, subclasses 396+ for a self-emptying tank periodically emptied in response to filling, and subclass 624.14 for self-cycling programmed valves.
- 304 By radiant energy responsive means:**  
This subclass is indented under subclass 302. Subject matter wherein the flushing device is actuated by the breaking of radiant energy waves.
- 305 By electric condition responsive means:**  
This subclass is indented under subclass 302. Subject matter wherein the flushing device is actuated by an electric current.
- 306 Ventilated, i.e., noxious fume removal:**  
This subclass is indented under subclass 301. Subject matter including means for removing gases having a disagreeable odor.
- (1) Note. The subject matter of this subclass is not intended to include only handling of air or gas which affects the flow of the flushing liquid or waste material.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
209+, for general ventilation of this class type.  
347+, for ventilation of odor from a bowl.
- 307 Folding type:**  
This subclass is indented under subclass 301. Subject matter having structure to allow the urinal to be moved from an operative position to an inoperative position.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
312, for a folding bowl type.
- 308 Pedal actuated flush:**  
This subclass is indented under subclass 301. Subject matter including a flushing device which is actuated by foot.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
249, for a flush actuator of the class type.  
405+, for a flush actuator and a tank structure.
- SEE OR SEARCH CLASS:  
251, Valves and Valve Actuation, subclass 295 for a pedal actuator.
- 309 With disinfectant means:**  
This subclass is indented under subclass 301. Subject matter including means for disinfecting or deodorizing.
- (1) Note. The disinfectant or deodorant may also be housed in a screen device.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
222+, for a general disinfecting or chemical dispensing apparatus.
- SEE OR SEARCH CLASS:  
210, Liquid Purification or Separation, subclasses 632, 638, 660+, 696+, 702+, and 749+ for processes of chemical treatment for purification or separation, and subclasses 198.1+ for apparatus for purification or separation with additional treating material.  
422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 1+ for a process to disinfect, preserve, deodorize or sterilize, and subclasses 243+ for apparatus to treat a solid article or material with a fluid chemical.  
424, Drug, Bio-Affecting and Body Treating Compositions, subclasses 40+ for a composition that is usually incompletely burned or at least has a chemical reaction to project the composition into the air as a smoke, mist, or aerosol, and subclasses 76.1+ for a deodorant, disinfectant, or olfactory desensitizer composition.  
510, Cleaning Compositions for Solid Surfaces, Auxiliary Compositions There-

for, or Processes of Preparing the Compositions, for cleaning compositions having a particular shape or structure to adapt them for use, search subclasses 109+ for compositions tailored for a specific utility (e.g., toilet soap bars, including packages); for cleaning compositions of general utility, search subclasses 406 and 439 for packaged compositions, subclasses 382+ for antiseptic or biocidal compositions, and subclasses 440 and 447+ for shaped, barlike compositions.

**310 Vertical type:**

This subclass is indented under subclass 301. Subject matter wherein the means to receive urine has a slab or wall that is substantially vertical with respect to the rest of the structure.

**311 Bowl type:**

This subclass is indented under subclass 301. Subject matter wherein the means to receive urine is a hollow shaped receptacle open at the top.

**312 Folding type:**

This subclass is indented under subclass 300. Subject matter having an arrangement for moving the closet from an operative position to an inoperative position, usually smaller.

SEE OR SEARCH THIS CLASS, SUBCLASS:  
307, for a urinal type folding device.

**313 With automatic flush responsive means:**

This subclass is indented under subclass 300. Subject matter including means to cause a flushing device to operate when an automatic condition occurs.

(1) Note. A person actuating an electric switch or other type lever or button device to cause a flush is not automatic and patents are placed lower in the schedule.

SEE OR SEARCH THIS CLASS, SUBCLASS:  
302, for a urinal type automatic flush device.  
405+, for manual type flush devices.

**314 With indicator:**

This subclass is indented under subclass 300. Subject matter including means for informing the operation of some condition of the closet.

SEE OR SEARCH CLASS:

116, Signals and Indicators, appropriate subclasses for mechanical signals or indicators.

340, Communications: Electrical, appropriate subclasses for electric signals.

**315 With disposable container:**

This subclass is indented under subclass 300. Subject matter having a receiver for waste material which is designed to be taken away from the closet.

SEE OR SEARCH THIS CLASS, SUBCLASS:

321, for a holding tank wherein the removal of waste material is by a positive means.

**316 Reduced gravity environment type:**

This subclass is indented under subclass 300. Subject matter having an arrangement which will permit the closet to be operated at a lower pressure or near zero gravity.

**317 With recirculating means:**

This subclass is indented under subclass 300. Subject matter including means to pump a liquid in a closed system and means for filtering the waste material so that the liquid can be used for another flush.

(1) Note. This system is self-contained and operation does not depend upon connection to an outside source of liquid after being charged or to a sewer system for discharge.

**318 Including specified filtering means:**

This subclass is indented under subclass 317. Subject matter wherein the filter is a particularly described means to remove or separate solid particles, impurities, etc., from a liquid by passing it through a porous substance.

**319 With macerator:**

This subclass is indented under subclass 300. Subject matter including means for breaking up a solid waste material into smaller particles.

- (1) Note. The means for breaking up the solid waste material may be a pump, if the purpose of the pump is for dividing the waste material.

**SEE OR SEARCH CLASS:**

241, Solid Material Comminution or Disintegration, appropriate subclasses for comminutors, per se.

**320 Including additional treatment:**

This subclass is indented under subclass 319. Subject matter having additional means to modify the waste material.

**321 With holding tank:**

This subclass is indented under subclass 300. Subject matter including a storage receptacle for waste material after discharge from the flush closet, and for subsequent positive waste material removal by external means.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

315, for a storage receptacle which is bodily removed from the flush closet for the disposing of the waste material.

**322 And heater:**

This subclass is indented under subclass 321. Subject matter including means for introducing heat to the tank for the purpose of warming, preventing freezing and/or sterilizing the contents of the tank.

**323 And valve for emptying:**

This subclass is indented under subclass 321. Subject matter including means by which the flow of waste material from the tank may be started or regulated.

**324 Manual selection of the amount of flush:**

This subclass is indented under subclass 300. Subject matter having means external of a tank by which an operator may flush the closet in a chosen operational mode and elements connected to a flush valve.

- (1) Note. The elements inside the tank which may be adjusted for different flushes are elsewhere. See search notes below.

- (2) Note. Included in this subclass is a mode where an operator actuates the flush and the flush is stopped by elements inside the tank. Another mode is where an operator must hold the flush actuator for the time the flush is required.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

249+, for flush valve actuators.

378+, for adjustable means inside a tank to change the flush cycle.

**325 Alternate unicyclic flush:**

This subclass is indented under subclass 324. Subject matter wherein the manual means for selectively controlling the flush is an arrangement for releasing either substantially all or a preselected portion of a quantity of liquid held in a flush tank. Each release completes a cycle and the operator must start another cycle.

**326 Plural flush valves:**

This subclass is indented under subclass 325. Subject matter having more than one flush valve wherein they are arranged for selectively releasing either all or a preselected portion of the water in the tank.

**SEE OR SEARCH CLASS:**

16, Miscellaneous Hardware (e.g., Bushing, Carpet Fastener, Caster, Door Closer, Panel Hanger, Attachable or Adjunct Handle, Hinge, Window Sash Balance, etc.), subclass 365 for other hinges for pivotally connecting three or more members.

**327 In axial alignment:**

This subclass is indented under subclass 326. Subject matter wherein the flush valves are positioned such that their axes are in alignment.

- 328 Tank and bowl with plural connections, one being pneumatic:**  
This subclass is indented under subclass 300. Subject matter wherein there is more than one pipe between the tank and bowl, one being for gas or air.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
368+, for a tank with an outlet siphon which includes an air release pipe.
- 329 Low profile tank and bowl:**  
This subclass is indented under subclass 300. Subject matter wherein the tank extends only a small distance above the top of the bowl or is even with the top of the bowl.
- (1) Note. The water levels in the tank and bowl are substantially equal.
- 330 Seat actuated flush:**  
This subclass is indented under subclass 329. Subject matter wherein the outlet valve is operated by elements connected to a seat.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
408+, for a seat actuated outlet valve of general use.
- 331 Float controlled valve:**  
This subclass is indented under subclass 329. Subject matter having means in the tank to control a valve by a buoyant device.
- SEE OR SEARCH CLASS:  
137, Fluid Handling, subclasses 386+ for liquid level responsive valves.
- 332 Pressure flush:**  
This subclass is indented under subclass 329. Subject matter wherein the tank is hermetically sealed.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
354+, for a pressure tank of general use.
- 333 Normally empty tank:**  
This subclass is indented under subclass 300. Subject matter wherein the tank does not have liquid in it until a valve is actuated.
- (1) Note. Usually the supply valve is open and the outlet valve is closed by common actuating means.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
366, for a common actuating means for the supply and outlet valves.
- 334 Pressure tank:**  
This subclass is indented under subclass 333. Subject matter wherein the tank is hermetically sealed and the air is compressed as the liquid fills the tank.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
354+, for a pressure tank where the liquid in the tank is at the same pressure as the liquid supply pressure.
- 335 With seat actuated valve:**  
This subclass is indented under subclass 334. Subject matter including a seat which, when moved, operates a valve to supply liquid to the tank and/or operates the outlet valve from the tank.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
338+, for seat actuated valves where the tank is not under pressure.  
408, for a seat actuated outlet valve.
- 336 And siphon bowl:**  
This subclass is indented under subclass 335. Subject matter having a siphon discharged bowl to receive the liquid from an outlet valve of the tank.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
421+, for a siphon discharge bowl.
- 337 And drain means:**  
This subclass is indented under subclass 335. Subject matter having means to drain the liquid from the tank supply and/or valves after a flush.



- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
339, for drain means where the tank is not under pressure.
- SEE OR SEARCH CLASS:  
137, Fluid Handling, subclass 302 for freeze protection means.
- 338 With seat actuated valve:**  
Subject matter under Class 333 including a seat which, when moved, operates a valve to supply liquid to the tank and/or operates the outlet valve from the tank.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
335+, for a seat operated valve where the tank is under pressure.  
408, for a seat actuated outlet valve.
- 339 And drain means:**  
This subclass is indented under subclass 338. Subject matter having means to draw the liquid from the tank supply line and/or valves after a flush.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
337, for drain means and a pressure tank.
- SEE OR SEARCH CLASS:  
137, Fluid Handling, subclass 302 for freeze protection means.
- 340 Plural receptacles:**  
This subclass is indented under subclass 300. Subject matter having more than one means for receiving liquid or a single means with more than one opening to receive the waste material.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
461, for plural dry closets.
- 341 Diverse:**  
This subclass is indented under subclass 340. Subject matter wherein the receptacles are different in shape or function, e.g., one for waste material and the other for wetting paper, or the receptacles are different in size.
- 342 Separate and distinct:**  
This subclass is indented under subclass 340. Subject matter wherein the receptacles are each set apart from each other and not joined together.
- 343 Overhead tank with bowl:**  
This subclass is indented under subclass 300. Subject matter wherein the tank is mounted at a much higher level than the top of the bowl, and not supported by the bowl structure.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
409, for an overhead tank.
- 344 Siphon bowl:**  
This subclass is indented under subclass 343. Subject matter having a siphon discharge bowl to receive the liquid from an outlet valve of the tank.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
421+, for a siphon discharge bowl.
- 345 Plural flush, preliminary or subsequent:**  
This subclass is indented under subclass 300. Subject matter wherein in addition to a main flush means there is provided an additional flush before or after the main, the additional flush is actuated by the operation of the main flush.
- 346 Including plural compartments in tank:**  
This subclass is indented under subclass 345. Subject matter wherein the tank has more than one compartment.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
363, for plural compartment tanks of general use.
- 347 Ventilated, i.e., noxious fume removal:**  
This subclass is indented under subclass 300. Subject matter including means for removing gases having disagreeable odor.
- (1) Note. The subject matter of this subclass is not intended to include only handling of air or gas which affects the flow of the flushing liquid or waste material.

- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
209+, for general ventilation of the class type.  
306, for urinal type ventilation.
- SEE OR SEARCH CLASS:  
454, Ventilation, for ventilating devices not peculiar to subject matter of this class, particularly subclasses 341+ for ventilating devices which exhaust stale air from a room.
- 348 Bowl:**  
This subclass is indented under subclass 347. Subject matter wherein the gas removing means is connected to the bowl or an adjunct thereof.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
420+, for bowl structure.
- 349 Unitary with flush supply to bowl:**  
This subclass is indented under subclass 348. Subject matter wherein some portion of the means providing liquid to flush the bowl also forms part of the gas removal means.
- (1) Note. For purpose of this subclass, the liquid providing means is not deemed to include the tank.
- 350 Unitary with discharge from bowl:**  
This subclass is indented under subclass 348. Subject matter wherein the gas removing means is connected to the discharge from the bowl.
- 351 Trap or siphon:**  
This subclass is indented under subclass 350. Subject matter wherein the gas removing means is directly connected to a trap or siphon.
- 352 Annular ventilator:**  
This subclass is indented under subclass 348. Subject matter wherein the gas removing means has an intake which includes a channel subtending a portion of the cross section of the bowl in a horizontal plane and is usually located below the rim.
- 353 Tank only:**  
This subclass is indented under subclass 300. Subject matter wherein the fluid handling means includes structure for holding a flushing fluid.
- SEE OR SEARCH CLASS:  
137, Fluid Handling, subclasses 386+ for float controlled supply valves for closet tanks, and subclasses 624.11+ for timer controlled flush valves.  
251, Valves and Valve Actuation, subclasses 12+ for flush closet valves.
- 354 Pressure tank:**  
This subclass is indented under subclass 353. Subject matter wherein the tank is hermetically sealed and is to be filled with a fluid at the same pressure as the supply line.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
334+, for a pressure tank that is normally empty.
- 355 Float released outlet valve:**  
This subclass is indented under subclass 354. Subject matter wherein an outlet valve is held open by a detent of other device and is released, to close, by a float.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
379, for delay means to close an outlet valve.
- 356 Float outlet valve:**  
This subclass is indented under subclass 354. Subject matter wherein an outlet valve is buoyant or is held open by a buoyant device.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
392, for an outlet valve connected to a float.  
395+, for a float type outlet valve.
- 357 Free floating:**  
This subclass is indented under subclass 356. Subject matter wherein the float is not directly connected to the tank.

- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
396, for a free floating outlet valve.
- 358 With guide (e.g., a cage):**  
This subclass is indented under subclass 357. Subject matter wherein the float is restrained for movement within a defined zone in the tank.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
397+, for an outlet valve and guide means.
- 359 Valve held open by flow:**  
This subclass is indented under subclass 354. Subject matter wherein an outlet valve is held open by the liquid flow or pressure acting against a valve, piston, or diaphragm.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
397, for a flow responsive element to hold an outlet valve open.
- 360 Dashpot controlled outlet valve:**  
This subclass is indented under subclass 354. Subject matter having retarding mechanism to control the closing of an outlet valve.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
388, for retarding mechanism for an outlet valve.
- 361 Pneumatic or hydraulic adjustability:**  
This subclass is indented under subclass 354. Subject matter wherein the amount of liquid in the tank is controlled by means to change the fluid and/or air pressure in the tank.
- 362 By air under pressure:**  
This subclass is indented under subclass 354. Subject matter wherein a gaseous medium is used to aid in expelling the liquid from the tank.
- 363 With plural compartments:**  
This subclass is indented under subclass 353. Subject matter including more than one section for holding flushing fluid.
- (1) Note. A series of tanks with a common connection is regarded as a tank with plural compartments.
- (2) Note. Valves and floats which have sections for holding fluid for the purpose of controlling or actuating the flushing action are not regarded as subject matter of this subclass. The compartments must hold an appreciable amount for flushing fluid.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
378+, for valves or floats which have means for holding a fluid.  
415, for a tank designed to save fluid.
- 364 Single tank with divider:**  
This subclass is indented under subclass 363. Subject matter wherein the compartments of the tank are formed by one tank and a partition in the tank.
- 365 Pivotal compartment:**  
This subclass is indented under subclass 363. Subject matter wherein one of the compartments is mounted for turning about an axis.
- SEE OR SEARCH CLASS:  
222, Dispensing, subclass 160 for a movably mounted supply container.
- 366 With simultaneous common actuating means for supply and outlet valves:**  
This subclass is indented under subclass 353. Subject matter including a single means for moving an inlet and outlet valve at the same time to cause liquid to flow into and out of the tank at the same time.
- (1) Note. If common means move an inlet and outlet valve but fluid does not flow from both at the same time, at actuation, the patents are in subclass 378.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
378+, for inlet and outlet valves opened and closed at the same time.  
435+, for inlet and outlet valves actuated by common means in a bowl.

## SEE OR SEARCH CLASS:

137, Fluid Handling, subclass 391 for liquid level sensing means (e.g., a float) which controls both the inflow and the outflow of a tank.

**367 By fluid or electrical means:**

This subclass is indented under subclass 366. Subject matter wherein the means for moving the valves include pneumatic or hydraulic means or an electric device.

**368 With outlet siphon:**

This subclass is indented under subclass 353. Subject matter including a flow passage comprising two branches or legs of unequal length by which a liquid can be transferred to a lower level over an intermediate elevation by the pressure of the atmosphere in forcing the liquid up the shorter branch or leg immersed in it while the excess of weight of the liquid in the longer branch or leg causes a continuous flow.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

328, for a tank with outlet siphon and a bowl.

## SEE OR SEARCH CLASS:

137, Fluid Handling, subclasses 123+ for discharge type siphons.

**369 Including means to relieve trapped air:**

This subclass is indented under subclass 368. Subject matter having means to reduce trapped air pressure, in the siphon, to initiate liquid flow through the siphon.

## SEE OR SEARCH CLASS:

137, Fluid Handling, subclasses 136+ for periodic discharge siphons which include means for releasing trapped air for initiating the flow of liquid through the siphon.

**370 By releasing trapped air:**

This subclass is indented under subclass 369. Subject matter wherein the air escapes into the atmosphere directly and lowers the pressure to cause liquid flow through the siphon.

(1) Note. If the air is forced out with the liquid or allowed to expand, the patents are not proper for this subclass.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

369, for means to force air out with the liquid.

371, for means to allow the air to expand.

**371 By raising trapped air housing:**

This subclass is indented under subclass 369. Subject matter wherein the air pressure is lowered by moving the device holding the trapped air in an upward direction so as to allow the air to expand and initiate liquid flow through the siphon.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

368, for means to raise a housing covering a siphon where the raising causes a vacuum to cause liquid flow.

**372 Including means to immerse siphon:**

This subclass is indented under subclass 368. Subject matter wherein at least a part of the siphon is movable so that a surge of liquid will fill the siphon when the siphon is moved below the normal liquid level in the tank to initiate flow through the siphon.

**373 Pump starter:**

This subclass is indented under subclass 368. Subject matter where in the liquid is forced into the siphon by a piston or plunger which is in a cylinder and initiates fluid flow through the siphon.

(1) Note. The cylinder may be part of the siphon.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

375, for means to raise the overall fluid level in the tank.

## SEE OR SEARCH CLASS:

137, Fluid Handling, subclasses 147+ for a pump to start liquid flow in a siphon.

**374 Jet starter:**

This subclass is indented under subclass 368. Subject matter wherein a stream of liquid is discharged directly into the siphon to cause initiation of liquid flow.

- (1) Note. The stream of liquid is other than the liquid in the tank.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

373, for liquid, from the tank, forced into the siphon by a pump.

**375 Including means to raise liquid level:**

This subclass is indented under subclass 368. Subject matter having means to cause the upper surfaces of the liquid in the tank to be elevated above its normal level to cause initiation of liquid flow through the siphon.

- (1) Note. If only a part of the upper surface of the liquid is raised, e.g., in bell housing, the patents are in subclasses 368+.
- (2) Note. The liquid level is raised by not adding more liquid.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

368+, for raising only part of the liquid level.

SEE OR SEARCH CLASS:

137, Fluid Handling, subclass 145 for means to start a siphon by applying pressure to a liquid.

**376 Valve starter:**

This subclass is indented under subclass 368. Subject matter having a flow control stopping means which, when open, initiates liquid flow through the siphon by induction.

**377 By moving siphon:**

This subclass is indented under subclass 376. Subject matter wherein one leg or branch of the siphon is movable to cause the liquid flow by induction.

**378 With outlet valve:**

This subclass is indented under subclass 353. Subject matter including a liquid flow control means to permit a quantity of flushing liquid to pass from the tank to the bowl. The flow control means includes a solid element movable from a position blocking the cross section opening of a liquid outlet pipe by covering or entering the outlet pipe, which position is referred to as the seated position of the valve.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

324, for a similar device having manual selection of the amount of flush liquid.

**379 With delay of valve closing:**

This subclass is indented under subclass 378. Subject matter including means to maintain the valve in an open condition until some predetermined condition occurs.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

355, for a float released outlet valve in a pressure tank.

**380 By pressure of suction control of valve:**

This subclass is indented under subclass 379. Subject matter wherein the movable element is held open by the direct application of pressure or suction to the movable element.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

407, for tank outlet valves actuated by pressure variation.

**381 By float releasable latch:**

This subclass is indented under subclass 379. Subject matter wherein the valve is held open by a locking element upon flushing. The locking element is controlled by a float so as to be disabled by tank liquid level reaching a predetermined position.

**382 Tiltable or pivoted valve body:**

This subclass is indented under subclass 381. Subject matter wherein the valve blocking element is moved from its seated position with a motion having a component other than parallel to the length of the outlet pipe at its opening.

The element may turn about a fixed axis through a portion thereof.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

392+, for a swinging valve.

**383 With overflow through valve closure:**

This subclass is indented under subclass 381. Subject matter including a tubular conduit mounted in and passing through the valve blocking element to conduct liquid above a predetermined level through the valve.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

390, for an overflow through a tank valve closure.

**384 Latched actuator:**

This subclass is indented under subclass 381. Subject matter wherein the valve is held open by locking of an element of the actuating means in an appropriate position.

- (1) Note. The valve stem of a discharge valve is not considered to be an element of the actuating means.

**385 By varying weight releasable latch:**

This subclass is indented under subclass 379. Subject matter wherein the valve is held open by a locking element upon flushing. The locking element is controlled by an element, the weight of which varies in accordance with tank liquid level and which disables the locking element at a predetermined liquid level.

- (1) Note. The weight may vary by displacement of the flushing fluid by the element, retention of fluid by the element, or drainage of the fluid from a receptacle type element.

SEE OR SEARCH CLASS:

137, Fluid Handling, subclass 134 for dumping tanks employed as starters for siphons, and subclass 396 for self-emptying tanks controlled by auxiliary dumping tanks.

**386 By shifting weight:**

This subclass is indented under subclass 379. Subject matter having a weight movable in response to the level of liquid in the tank, which weight sequentially holds the valve open and then closes the valve in response to the falling liquid level during flush.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

363+, for a similar device in which the weight includes a liquid filled container.

**387 By flow responsive element in valve outlet:**

This subclass is indented under subclass 379. Subject matter wherein a flow actuated element in the valve outlet prevents the valve from closing until the flow has stopped or decreased below a predetermined valve.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

359, for an outlet valve held open by flow in a pressure tank.

**388 By retarding mechanism, e.g., dashpot:**

This subclass is indented under subclass 379. Subject matter having means to damp the motion of the valve blocking element into the seated position.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

360, for a dashpot controlled outlet valve in a pressure tank.

SEE OR SEARCH CLASS:

188, Brakes, subclasses 297+ for a dashpot of general use.

**389 With overflow through valve closure:**

This subclass is indented under subclass 388. Subject matter including a tubular conduit mounted in and passing through the valve blocking element to conduct liquid above a predetermined level through the valve.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

390+, for an overflow through a tank valve closure.

**390 With overflow through valve closure:**

This subclass is indented under subclass 378. Subject matter including a tubular conduit mounted in and passing through the valve blocking element to conduct liquid above a predetermined level through the valve.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 383, for a similar device in which the valve is held open by a float releasable latch.
- 389, for a similar device in which valve seating is delayed by a motion retarding mechanism.

**391 Float connected or float type valve:**

This subclass is indented under subclass 390. Subject matter wherein either the valve is buoyant in the flushing liquid or is rigidly connected to a body buoyant in the flushing liquid.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 394, and 395+, respectively, for such devices including float connected and float type valves, respectively, without an overflow through the valve bodies.

**392 Swinging:**

This subclass is indented under subclass 378. Subject matter wherein the valve is caused to follow a curved path by an element having one end attached thereto and its other end fixedly attached to the tank or structure element therein.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 382, for a swinging valve which is released by a float.

**393 Pivoted:**

This subclass is indented under subclass 392. Subject matter wherein the element attached to the valve is rigid and is relatively rotatable about a fixed axis with respect to a stationary element.

**394 Connected to float:**

This subclass is indented under subclass 378. Subject matter wherein a float is rigidly connected to the valve.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 356, for a float connected to a outlet valve in a pressure tank.
- 391, for an outlet valve having an overflow through the valve body.

**395 Float type:**

This subclass is indented under subclass 378. Subject matter wherein the valve blocking element is buoyant in the flushing liquid.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 356, for float type outlet valve in a pressure tank.
- 391, for an outlet valve having an overflow through the valve body.
- 394, for an outlet having a float rigidly connected to the valve.

**396 Free floating during flush:**

This subclass is indented under subclass 395. Subject matter wherein the valve blocking element has no element fixedly attached thereto and is returned to its seated position by suction of the liquid draining out through the valve seat.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 357, for a free floating outlet valve in a pressure tank.
- 398, for a free floating valve which has an element fixedly attached to it, or in a cage.

**397 Having seating guide:**

This subclass is indented under subclass 395. Subject matter includes means to limit lateral valve motion as the valve approaches the seated position.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 358, for an outlet valve with a guide in a pressure tank.
- 393, for a pivoted outlet valve.

- 396, for a static guide means for a free floating outlet valve.
- 398 Cage type:**  
This subclass is indented under subclass 397. Subject matter having an openwork structure or frame to confine the outlet valve to limit its lateral motion.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
358, for an outlet valve with a guide, e.g., cage in a pressure tank.  
396, for a free floating outlet valve.
- 399 Valve moves relative to guide through bottom of valve:**  
This subclass is indented under subclass 397. Subject matter having a guide extending upwardly from a valve seat, and the valve has an opening in the bottom which cooperates with the guide as it approaches the seated position.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
390, for a fixed guide through the bottom of a valve which may be an overflow pipe.
- 400 Valve attached seating element enters discharge pipe:**  
This subclass is indented under subclass 397. Subject matter having a projecting element rigidly connected to and depending from the valve and positioned within the discharge pipe when the valve is in its seated position.
- (1) Note. The term "projecting element" may refer to an element distinct from the valve body or may be a section of the valve body other than the seating surface.
- (2) Note. A projecting element maintained in a stationary position from the discharge pipe and entering the valve is not classified in this subclass.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
399, for a valve with a stationary guide positioned in the discharge pipe.
- 401 Plural static guides:**  
This subclass is indented under subclass 397. Subject matter having more than one stationary guide element.
- 402 Having liquid receptacle open upwardly:**  
This subclass is indented under subclass 395. Subject matter wherein the valve has a recess on the top surface to hold liquid to cause the valve to seat.
- 403 Hollow:**  
This subclass is indented under subclass 395. Subject matter wherein the valve body is formed with a cavity therein.
- (1) Note. A cavity intended solely to receive solid material, including other mechanical elements is not, of itself, sufficient for placement in this subclass.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
397, for a similar device in which the valve also has a seating guide.
- 404 Open at bottom:**  
This subclass is indented under subclass 403. Subject matter wherein the valve body has an area on the bottom where air or liquid can enter the cavity.
- 405 Actuator:**  
This subclass is indented under subclass 378. Subject matter having particularly described means to effect operation of the flush valve.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
249+, for a general device for actuating a flush device without linkage.
- 406 Electrical:**  
This subclass is indented under subclass 405. Subject matter wherein the actuator is energized by an electric current.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
302, for an automatic flush actuator which includes electric devices in a urinal system.



- 313, for an automatic flush actuator which includes electric devices in a stool system.
- 407 Pneumatic or hydraulic:**  
This subclass is indented under subclass 405. Subject matter wherein the actuation is effected by a variation in fluid pressure or flow.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
- 302, for an automatic actuated flush device which includes pneumatic or hydraulic means.
- 367, for a device which simultaneously actuates a tank supply and flush valve.
- 408 Seat actuated:**  
This subclass is indented under subclass 405. Subject matter wherein the valve is actuated by motion of a closet seat.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
- 335+, for a pressure tank where the valve is actuated by a seat.
- 338, for a normally empty tank where the valve is actuated by a seat.
- 411, for linkage external to the tank operated other than by a seat.
- 436, for a seat actuated valve in a bowl.
- 409 With overhead tank:**  
This subclass is indented under subclass 408. Subject matter including a flush tank mounted above a bowl and not supported by bowl structure.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
- 343, for an overhead tank and a bowl.
- 410 Button type:**  
This subclass is indented under subclass 405. Subject matter having an element mounted on and extending through the tank wall which is movable toward or away from the tank to cause a mechanism therein to actuate the valve.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
- 406, for a push button device which actuates an electrical device to cause a flush.
- 407, for a push button device which actuates a pneumatic or hydraulic device to cause a flush.
- 408+, for a push button device which actuates a flush valve by a seat.
- 411 Portion of linkage external to tank:**  
This subclass is indented under subclass 405. Subject matter wherein the motion of a handle is transmitted to the flush valve by a mechanical linkage, a portion of which linkage is positioned externally of the tank.
- (1) Note. For purposes of this classification, a handle, an extension thereof, or a flexible connection thereto are not considered portions of a linkage. However, a pivot or a connection between relatively movable elements are considered portions of a linkage, which located exteriorly of the tank, will cause placement in this subclass.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
- 408+, for linkage external to tank actuated by a seat.
- 412 Including flexible linkage element in tank (e.g., chain or cord):**  
This subclass is indented under subclass 405. Subject matter wherein the valve is actuated by a mechanism including a mechanical linkage in the tank, which linkage includes a flexible force transmitting element such as a chain or cord.
- 413 Including articulated rigid linkage:**  
This subclass is indented under subclass 405. Subject matter wherein the valve is actuated by a mechanism having a mechanical linkage in the tank, which linkage includes plural, relatively movable, rigid force transmitting elements.
- 414 Having stationary pivot within tank:**  
This subclass is indented under subclass 413. Subject matter wherein an element of the linkage, other than a handle or shaft thereof, rotates about an axis which is fixed with respect to the tank.

- 415 Water saver:**  
This subclass is indented under subclass 353. Subject matter having an arrangement for reducing the amount of liquid used in flushing.
- (1) Note. Most receptacles also have an outlet open.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
256.1, for a debris catcher or a cleanout plug for a flush closet bowl.  
901, for a bowl skirt.  
905, for a squat bowl.
- 416 With lining:**  
This subclass is indented under subclass 353. Subject matter including a covering for the inner surface of the tank or a receptacle placed close to the tank inner surface to minimize tank sweating.
- (1) Note. This subclass includes tank liners, per se.
- SEE OR SEARCH CLASS:  
220, Receptacles, subclasses 23.9, 62.21, 574.3, 495.01+, and 908.1+ for a receptacle having a liner.  
229, Envelopes, Wrappers, and Paperboard Boxes, subclasses 117.27+ and 164.2 for a paperboard box having a lining.
- 417 With connector or seal:**  
This subclass is indented under subclass 353. Subject matter including means to connect a tank and bowl together and/or means to prevent leakage of fluid between the tank and bowl.
- 418 Cover or housing for connector or seal:**  
This subclass is indented under subclass 417. Subject matter having means to enclose the connector and/or seal.
- 419 With support:**  
This subclass is indented under subclass 453. Subject matter including structure for holding the tank against the force of gravity.
- SEE OR SEARCH CLASS:  
52, Static Structures (e.g., Buildings), subclasses 262+ for spaced vertical supports with transverse member, e.g., floor on legs.  
248, Supports, appropriate subclasses for supports of more general application.
- 420 Bowl:**  
This subclass is indented under subclass 300. Subject matter wherein the receptacle is open at the top.
- 420.1 With body-contacting nozzle:**  
This subclass is indented under subclass 420. Subject matter including a bidet nozzle for contacting the human body internally or externally.
- 420.2 With heated bidet fluid:**  
This subclass is indented under subclass 420. Subject matter including a bidet nozzle or an air blower and means to heat a fluid delivered to the bidet nozzle or to the air blower.
- (1) Note. The term "fluid" includes water which is used in a bidet bath and air which is used to dry the washed areas of a bidet bath.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
420.3, for a flush closet combined with a bidet basin.  
420.4+, for a flush closet combined with a bidet nozzle.  
447, for a bidet nozzle with a seat.  
448, for a bidet nozzle attachment.
- 420.3 With bidet basin:**  
This subclass is indented under subclass 420. Subject matter including a bidet receptacle supported by the flush-closet bowl or the seat.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
443, for the bidet receptacle, per se.
- 420.4 With bidet nozzle:**  
This subclass is indented under subclass 420. Subject matter including means to supply water to the perineum region of a person while seated on the flush closet.

- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
 447, for bidet nozzle combined with a flush closet seat.  
 448, for bidet nozzle attachments for use with a flush closet.
- 420.5 Integral with flush closet:**  
 This subclass is indented under subclass 420.4. Subject matter wherein the means to supply water is part of the flush closet.
- 421 Siphon discharge:**  
 This subclass is indented under subclass 420. Subject matter wherein the bowl is provided with a siphon discharge either as an integral part of the bowl or specially adapted to connect with a waste pipe to complete the siphon.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
 328, for a low profile type tank and bowl which includes a siphon discharge.  
 336, for a siphon bowl and a pressure tank.  
 344, for a siphon bowl and an overhead tank.
- 422 With flush valve:**  
 This subclass is indented under subclass 421. Subject matter wherein a valve is combined with the bowl structure to provide the fluid supply for the bowl.
- 423 With vacuum breaker:**  
 This subclass is indented under subclass 422. Subject matter wherein the valve includes means to break a vacuum to prevent back siphonage or reverse flow.
- 424 Extra trap or false trap:**  
 This subclass is indented under subclass 421. Subject matter wherein the bowl discharges to a liquid-seal trap or to a similar unsealed trap.
- 425 Siphonic jet at trap:**  
 This subclass is indented under subclass 421. Device wherein a fluid jet means assists an evacuation of the siphon.
- 426 With check valve:**  
 This subclass is indented under subclass 421. Subject matter including a check valve in the siphon passage between a trap and a waste pipe.
- SEE OR SEARCH CLASS:  
 137, Fluid Handling, subclass 217 for an anti-siphon valve.
- 427 Overflow inhibitor:**  
 This subclass is indented under subclass 421. Subject matter having means to prevent the bowl from overflowing.
- 428 Configured outlet:**  
 This subclass is indented under subclass 421. Subject matter wherein the discharge of the bowl has a somewhat tortuous path before the connection to a waste pipe.
- 429 Pan bowl:**  
 This subclass is indented under subclass 421. Subject matter wherein the bowl has a material receiving platform therein.
- 430 Distinct from bowl:**  
 This subclass is indented under subclass 421. Subject matter wherein the siphon is located exteriorly of the bowl and its supporting structure.
- 431 Pump or suction type discharge:**  
 This subclass is indented under subclass 420. Subject matter including means located in the discharge from the bowl through which means the discharged material flows and which directly applies a force to the discharged material to move the material away from the bowl.
- (1) Note. This subclass includes those devices using an external source of pressure or suction to effect the material movement.
- SEE OR SEARCH CLASS:  
 417, Pumps, for pumps, per se.  
 418, Rotary Expansible Chamber Devices, for rotary expansible chamber pumps, per se.

- 432 With flush supply pump:**  
This subclass is indented under subclass 431. Subject matter including means directly applying force on the flushing liquid so as to move the flushing liquid toward the bowl.
- 433 Unitary with discharge pump:**  
This subclass is indented under subclass 432. Subject matter wherein the flush supply pump and the discharge pump are in a single chamber or adjacent chambers and have at least one common movable element.
- (1) Note. A device with separate movable elements even though powered by a single driving element will be classified in subclass 432.
- 434 Valved discharge:**  
This subclass is indented under subclass 420. Subject matter wherein the bowl outlet is controlled by a valve directly connected to the bowl.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
420, for a valve or plunger discharge located downstream of the bowl outlet.  
466, and 471+, for a dry closet with a valve discharge bowl.
- 435 With flush supply actuated by valved discharge:**  
This subclass is indented under subclass 434. Subject matter including a single means for moving an inlet and outlet valve at the same time to cause fluid to flow into and out of the bowl.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
366, for simultaneous actuating means for supply and outlet valve in a tank.
- 436 By movement of seat or cover:**  
This subclass is indented under subclass 435. Subject matter wherein the valves are actuated by motion of a closet seat or lid.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
408, for a seat actuated valve in a tank.
- 437 Float control of fluid in bowl:**  
This subclass is indented under subclass 435. Subject matter wherein an element which senses the fluid level floats in the fluid and is buoyed up thereby to stop the supply of fluid.
- 438 Pivoted valve:**  
This subclass is indented under subclass 435. Subject matter wherein the discharge valve turns about a fixed axis.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
411, for a pivoted discharge valve.
- 439 With additional valve (e.g., draft control):**  
This subclass is indented under subclass 438. Subject matter including another valve.
- 440 Pan type:**  
This subclass is indented under subclass 438. Subject matter wherein the valve has a bowl or hollow shape.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
442, for discharge pan type valve.
- 441 Pivoted valve:**  
This subclass is indented under subclass 434. Subject matter wherein the discharge valve turns about a fixed axis.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
438+, for a pivoted discharge valve and a supply valve.
- 442 Pan type:**  
This subclass is indented under subclass 441. Subject matter wherein the valve has a bowl or hollow shape.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
440, for a pan type discharge valve and a supply valve.
- 443 BIDETS:**  
This subclass is indented under the class definition. Subject matter for devices for washing the perineum region of the human body.

- (1) Note. In this subclass are washbasins configured to conform to the shape of portions of the human body but do not support the weight of the body.
- (2) Note. The term “devices” includes wash receptacles as well as other means to wash the cited region of the body.

**444 With seat:**

This subclass is indented under subclass 443. Subject matter including a support for a person to permit a person to assume a sitting or a reclining position and a receptacle for washing the perineum area of the person positioned upon the support.

- (1) Note. The “support” includes a chair, stool, couch, or other type of seat.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 420+, for the combination of a flush closet and a bidet.  
 443, for body-supported bidet basins.  
 447, for a seat and a bidet nozzle.

**445 Bidet basin for flush closet:**

This subclass is indented under subclass 443. Subject matter including a bidet receptacle which is designed to be supported by the seat or the bowl of a flush closet.

- (1) Note. The bidet receptacle may include an overflow, drain hole with or without a plug for the drain hole, or a water supply to the basin with water valve or a hot and cold mixer valve.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 420.3, for the combination of a bidet receptacle and flush closet.

**446 Bidet bowl with drain:**

This subclass is indented under subclass 443. Subject matter including a receptacle having means to let water out.

**447 Nozzle with seat:**

This subclass is indented under subclass 443. Subject matter including a seat and a spray device for washing the perineum region of the body.

- (1) Note. Included are a nozzle integral with a flush-closet seat, a nozzle supported by the flush-closet seat as well as the broad combination of a nozzle and a flush-closet seat.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 237+, for a seat, per se.  
 615+, for means for spraying user generally.

**448 Nozzle attachment:**

This subclass is indented under subclass 443. Subject matter including an attachment to deliver and spray water for a bidet bath.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 420.4+, for combination of a flush closet and bidet nozzle.  
 447, for a bidet nozzle with a seat.

**449 DRY CLOSETS:**

This subclass is indented under the class definition. Subject matter having means for receiving human waste material wherein a flush liquid is not used to assist the removal of the material from the means.

- (1) Note. When it cannot be determined if means to assist removal of bowel material is a liquid or dry material, the document is placed as an original in Miscellaneous subclass 661 and cross-referenced in appropriate subclasses.
- (2) Note. A bedpan may be cleaned by using water from a supply. If liquid handling means is used to flush the bedpan, the patents will be placed in subclasses for a liquid flush closet. See search notes below.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 300+, for a liquid flush closet.

- 450 Bedpans:**  
This subclass is indented under subclass 449. Subject matter wherein the receptacle is adapted to be placed under a person.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
144.1, for a urinal of general use.  
300.2, for a bedpan rinser used with a flush closet.
- 451 Disposable type:**  
This subclass is indented under subclass 450. Subject matter wherein the receptacle is designed to be used only once.
- 452 With liner:**  
This subclass is indented under subclass 450. Subject matter including a covering for the inner surface of the receptacle.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
451, for a receptacle to be used only once.
- 453 With deodorizing means:**  
This subclass is indented under subclass 450. Subject matter including means for destroying or counteracting undesired odors.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
309, for urinal with disinfecting or deodorizing means.
- 454 With urinal:**  
This subclass is indented under subclass 450. Subject matter including a divider or separate place in the receptacle for urine.
- 455 With drain means:**  
This subclass is indented under subclass 450. Subject matter including means for emptying the bedpan.
- 456 Cushioned:**  
This subclass is indented under subclass 450. Subject matter wherein the top of the bedpan has a soft padded area.
- 457 Accessories:**  
This subclass is indented under subclass 450. Subject matter wherein there is provided additional means specialized for use with a bedpan.
- (1) Note. This subclass provides for devices not classifiable in other classes.
- 458 Automobile:**  
This subclass is indented under subclass 449. Subject matter wherein the receptacle is part of or combined with an automobile.
- 459 Chemical:**  
This subclass is indented under subclass 449. Subject matter wherein a chemical is used for disinfection.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
222+, for general disinfecting or chemical dispensing apparatus.  
464+, for a dry closet having a magazine containing granular material and means for discharging a portion to the bowl.
- SEE OR SEARCH CLASS:  
210, Liquid Purification or Separation, subclasses 632, 638, 660+, 696+, 702+, and 749+ for processes of chemical treatment for purification or separation, and subclasses 198.1+ for apparatus for purification or separation with additional treating material.  
422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 1+ for a process to disinfect, preserve, deodorize or sterilize, and subclasses 243+ for apparatus to treat a solid article or material with a fluid chemical.  
424, Drug, Bio-Affecting and Body Treating Compositions, subclasses 40+ for a composition that is usually incompletely burned or at least has a chemical reaction to project the composition into the air as a smoke, mist or aerosol, and subclasses 76.1+ for a deodorant, disinfectant, or olfactory desensitizer composition.  
510, Cleaning Compositions for Solid Surfaces, Auxiliary Compositions There-

for, or Processes of Preparing the Compositions, for cleaning compositions having a particular shape or structure to adapt them for use, search subclasses 109+ for compositions tailored for a specific utility (e.g., toilet soap bars, including packages); for cleaning compositions of general utility, search subclasses 406 and 439 for packaged compositions, subclasses 382+ for antiseptic or biocidal compositions, and subclasses 440 and 447+ for shaped, barlike compositions.

**460 Field:**

This subclass is indented under subclass 449. Subject matter wherein the dry closet is for use outside in an open area and the ground is used to receive the waste.

**461 Plural:**

This subclass is indented under subclass 449. Subject matter having more than one means for receiving bowel material or a single means with more than one opening to receive bowel material.

**462 With urinal:**

This subclass is indented under subclass 449. Subject matter including a divider or separate place in the receptacle for urine.

**463 Separate receiver:**

This subclass is indented under subclass 462. Subject matter wherein the urinal receptacle is a distinct area.

**464 With magazine:**

This subclass is indented under subclass 449. Subject matter including a container for granular material with means for discharging a portion upon the bowel material in the receptacle.

SEE OR SEARCH THIS CLASS, SUBCLASS:

222+, for general disinfecting or chemical dispensing apparatus.

459, for a dry closet using a chemical for disinfection.

SEE OR SEARCH CLASS:

210, Liquid Purification or Separation, subclasses 632, 638, 660+, 696+, 702+, and 749+ for processes of

chemical treatment for purification or separation, and subclasses 198.1+ for apparatus for purification or separation with additional treating material.

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 1+ for a process to disinfect, preserve, deodorize or sterilize, and subclasses 243+ for apparatus to treat a solid article or material with a fluid chemical.

424, Drug, Bio-Affecting and Body Treating Compositions, subclasses 40+ for a composition that is usually incompletely burned or at least has a chemical reaction to project the composition into the air as a smoke, mist or aerosol, and subclasses 76.1+ for a deodorant, disinfectant, or olfactory desensitizer composition.

510, Cleaning Compositions for Solid Surfaces, Auxiliary Compositions Therefor, or Processes of Preparing the Compositions, for cleaning compositions having a particular shape or structure to adapt them for use, search subclasses 109+ for compositions tailored for a specific utility (e.g., toilet soap bars, including packages); for cleaning compositions of general utility, search subclasses 406 and 439 for packaged compositions, subclasses 382+ for antiseptic or biocidal compositions, and subclasses 440 and 447+ for shaped, barlike compositions.

**465 Furniture type:**

This subclass is indented under subclass 464. Subject matter wherein the closet is formed as a part of furniture used in a room.

**466 Valved bowl:**

This subclass is indented under subclass 464. Subject matter wherein the receptacle has a movable element stopping means which, when open, allows the bowel material to pass through.

**467 Movable receiver:**

This subclass is indented under subclass 464. Subject matter wherein the receptacle is moved from an inoperable position to an operative position.

- 468 Seat operated:**  
This subclass is indented under subclass 464. Subject matter wherein the discharging means is actuated by motion of a closet seat.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
473, for a seat-operated valved bowl.
- 469 Cover operated:**  
This subclass is indented under subclass 464. Subject matter wherein the discharge means is actuated by motion of a closet lid or covering for the seat.
- 470 In cover:**  
This subclass is indented under subclass 464. Subject matter wherein the magazine is formed as a part of a lid for a seat.
- 471 Valved bowl:**  
This subclass is indented under subclass 449. Subject matter wherein there is a movable element stopping means which, when open, allows the bowel material to pass through.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
466, for a valved bowl with a magazine.
- 472 Ventilated:**  
This subclass is indented under subclass 471. Subject matter including means for removing gases having a disagreeable odor.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
209+, for general ventilation of the class type.  
475, for a ventilated vault.  
477, for a ventilated closed receptacle.  
482, for a ventilated receptacle.
- SEE OR SEARCH CLASS:  
454, Ventilation, for ventilating devices not peculiar to subject matter of this class, particularly subclasses 341+ for ventilating devices which exhaust stale air from a room.
- 473 Seat or cover operated:**  
This subclass is indented under subclass 471. Subject matter wherein the valve is actuated by motion of a closet seat, lid, or covering for the seat.
- 474 Vault type:**  
This subclass is indented under subclass 449. Subject matter wherein there are two receptacles, one being a subchamber.
- 475 Ventilated:**  
This subclass is indented under subclass 474. Subject matter including means for removing gases having a disagreeable odor.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
472, for a ventilated valve bowl, and see search notes for ventilation.
- 476 Enclosed receptacle type:**  
This subclass is indented under subclass 449. Subject matter wherein the receptacle is inside an enclosure which is provided with a closet seat.
- (1) Note. The receptacle cannot be seen unless a door or covering over an opening is removed.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
479, for a receptacle placed under a chair-type device.
- SEE OR SEARCH CLASS:  
297, Chairs and Seats, appropriate subclasses for a seat, per se, and particularly subclasses 188.09+ for a chair having a receptacle of general utility thereunder. The presence of an aperture in a seat together with a closet receptacle under the seat is classified in Class 4.
- 477 Ventilated:**  
This subclass is indented under subclass 476. Subject matter including means for removing gases having a disagreeable odor.



- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
472, for ventilated valve bowl, and see search notes for ventilation.
- 478 With arm or back support:**  
This subclass is indented under subclass 476. Subject matter including means for resting or holding the arm or back of a person.
- 479 Receptacle type:**  
This subclass is indented under subclass 449. Subject matter wherein the receptacle is a bowl, pot, bag, or etc.
- (1) Note. The receptacle usually has means to support it.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
476, for an enclosed receptacle.
- SEE OR SEARCH CLASS:  
297, Chairs and Seats, appropriate subclasses for a seat, per se, and particularly subclasses 188.09+ for a chair having a receptacle of general utility thereunder. The presence of an aperture in a seat together with a receptacle under the seat, is classifiable in this class (4).
- 480 Invalid:**  
This subclass is indented under subclass 479. Subject matter including means to assist or help a disabled person.
- 481 Muffler for liquid:**  
This subclass is indented under subclass 479. Subject matter including means for preventing the noise of liquid entering the receptacle.
- 482 Ventilated:**  
This subclass is indented under subclass 479. Subject matter including means for removing gases having a disagreeable odor.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
472, for a ventilated valve bowl, and see search notes for ventilation.
- 483 With seat:**  
This subclass is indented under subclass 479. Subject matter including means to support a person above or on the receptacle.
- 484 Flexible material:**  
This subclass is indented under subclass 479. Subject matter wherein the receptacle is made of a clothlike material.
- (1) Note. The receptacle can be of flexible material itself or a flexible liner in a shaped receptacle.
- (2) Note. The receptacles are usually of the disposable type.
- 485 Seat subclosure:**  
This subclass is indented under subclass 449. Subject matter wherein a valve or closure is beneath a seat.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
466, for a valved bowl with magazine means.  
471+, for a valved bowl.
- 486 Seat or cover operated:**  
This subclass is indented under subclass 485. Subject matter wherein the valve is actuated by the movement of a seat or lid.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
238, for seat-operated valve.
- 487 OPEN-WATER BARRIER:**  
This subclass is indented under the class definition. Subject matter having means for containing a person within a certain area in a large body of water.
- (1) Note. The open water is the ocean, lake, pond, etc. The barrier can be used in a pool if it blocks an irregular area, but if it divides a pool into portions, see search notes below.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
505, for a pool divider.

**488 POOL TYPE:**

This subclass is indented under the class definition. Subject matter having means for holding water, open at the top for user to enter, for the purpose of swimming, relaxation, or recreation.

- (1) Note. Class 52 has enclosure structure open at the top, also wall sections, or panels, above or below the ground, edging and other structure provided for in use Class 52, which can be used for pool structure, whereas Class 4 has a complete pool with water inlet and outlet, also structure related to a pool not in Class 52, e.g., cover, gutter, pump, diving area, or etc.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

191+, for receptacle fittings.

SEE OR SEARCH CLASS:

52, Static Structures (e.g., Buildings), appropriate subclasses for an enclosure structure, particularly subclasses 169.7 for an enclosure structure having an earth-to-structure relationship, and subclass 741.11+ for pool methods. Also see (1) Note above.

220, Receptacles, appropriate subclasses for a receptacle of general use of the class type.

**489 Plural separate receptacles:**

This subclass is indented under subclass 488. Subject matter wherein there is more than one complete receptacle each having its own area.

- (1) Note. A divider to separate a receptacle is not a complete receptacle.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

505, for pool dividers.

**490 With cleaning means:**

This subclass is indented under subclass 488. Subject matter having means to loosen or agitate slit or other sediment so the slit or sediment can be removed.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

492, for water jets in a spa or the like.

SEE OR SEARCH CLASS:

15, Brushing, Scrubbing, and General Cleaning, subclass 1.7 for submerged devices having cleaning means for that class.

134, Cleaning and Liquid Contact With Solids, subclasses 167+ for jet applying conduits or nozzles for that class.

210, Liquid Purification or Separation, subclass 167.1 and 167.2 for liquid purification or separation means in a structural installation with a closed circulating system for a swimming pool or spa.

**491 With wave-making means:**

This subclass is indented under subclass 488. Subject matter having means to move the water in such a manner as to create waves, e.g., to simulate ocean waves.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

541.1+, for means to agitate or circulate water in a tub.

SEE OR SEARCH CLASS:

405, Hydraulic and Earth Engineering, subclasses 52+ for wave generating of general use, e.g., for surfing.

**492 With water-jet means:**

This subclass is indented under subclass 488. Subject matter having means which causes the water to flow in a well-defined stream from an orifice, nozzle, or etc.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

541.1+, for means to agitate or circulate water in a tub.

904, for a swim-in-place pool.

**493 With heating means:**

This subclass is indented under subclass 488. Subject matter having means to raise the temperature of the water.

## SEE OR SEARCH CLASS:

126, Stoves and Furnaces, subclasses 561+ for solar heating means which may include a pool.

**494 Combined or convertible:**

This subclass is indented under subclass 488. Subject matter to which has been added a subcombination or assembly which is recognized as the subject matter of some other class, or which selectively performs two dissimilar functions by appropriate rearrangement of parts or use.

- (1) Note. The subject matter of the specific subclasses herein following (subclass 496 to end) are considered basic to the area rather than as combinations. Thus accessory or construction details are considered common in the art.

**495 Adjustable bottom:**

This subclass is indented under subclass 488. Subject Matter wherein the lower part of the pool is movable to different positions and supports a person when moved to the different positions.

- (1) Note. The bottom can be either an actual part of the pool or a false or movable section which move relative to a fixed bottom.

## SEE OR SEARCH THIS CLASS, SUB-CLASS:

498, for a cover for a pool.  
504, for a safety device which can lift a person from the bottom of a pool.

**496 Accessory:**

This subclass is indented under subclass 488. Subject matter wherein there is provided additional means specialized for use with a pool.

- (1) Note. These subclasses provide for devices not classified in other classes.

**497 Wave quelling:**

This subclass is indented under subclass 496. Subject matter having means to quiet, baffle or suppress the movement of water.

## SEE OR SEARCH THIS CLASS, SUB-CLASS:

505, for a line divider without wave quelling means.

## SEE OR SEARCH CLASS:

405, Hydraulic and Earth Engineering, subclass 27 for means for controlling the action of water in a channel.  
441, Buoys, Rafts, and Aquatic Devices, subclass 6 for buoys fixed to a line to indicate a certain area of the class type.

**498 Cover:**

This subclass is indented under subclass 496. Subject matter having a protective shield or screen which acts to prevent unwanted objects from entering the pool.

## SEE OR SEARCH THIS CLASS, SUB-CLASS:

494, for a pool cover convertible to a secondary function, e.g., cover to sun screen.  
495, for an adjustable bottom which can also be a cover.

## SEE OR SEARCH CLASS:

126, Stoves and Furnaces, subclass 171.1 for a solar cover to heat a pool.  
135, Tent, Canopy, Umbrella, or Cane, subclasses 87+ for a flexible cover used as a tent.  
220, Receptacles, subclasses 216+ for a receptacle with a cover which floats on its contents.

**499 Air inflatable or supported:**

This subclass is indented under subclass 498. Subject matter wherein a gaseous fluid is utilized to shape, strengthen, or keep the cover above the surface of the water.

- (1) Note. The gaseous fluid is applied when the cover is used: a buoyant cover wherein air is sealed permanently within the cover is placed in other subclasses.

## SEE OR SEARCH THIS CLASS, SUB-CLASS:

501+, for liquid means to raise a cover.

## SEE OR SEARCH CLASS:

52, Static Structures (e.g., Buildings), subclasses 2.11+ for a structure, or a component thereof, of that class which is shaped, supported or strengthened by an enclosed fluid. See (1) Note of subclass 2.11 for other locations of inflatable devices, elements, members, structures, etc.

**500 Including storage area:**

This subclass is indented under subclass 498. Subject matter having a place where the cover is kept when not in use.

(1) Note. The cover is usually moved by a mechanical device to the storage area.

**501 On pool bottom:**

This subclass is indented under subclass 500. Subject matter wherein the cover rests on the lowest part of the pool when not in a covering position.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

495, for an adjustable floor which may also be a cover.

**502 On a roll:**

This subclass is indented under subclass 500. Subject matter wherein the cover is wound on a cylindrical device for storage.

SEE OR SEARCH CLASS:

242, Winding, Tensioning, or Guiding, subclasses 370+ for a reeling device of general use and 919 for a reeling device for a ground cover; e.g., a tarp.

**503 Including securing means:**

This subclass is indented under subclass 498. Subject matter wherein the cover is held in place by fastening or retaining means.

**504 Safety means:**

This subclass is indented under subclass 496. Subject matter having means to prevent injury or damage to those using the pool or to the pool itself.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

495, for a movable floor or a support which is also a safety device.

498, for a cover for a pool which can also be a safety device.

SEE OR SEARCH CLASS:

256, Fences, appropriate subclasses for a fence, per se.

**505 Divider:**

This subclass is indented under subclass 496. Subject matter having means to separate a pool into separate parts so that a person can be in each part.

(1) Note. The divider may be from the top of liquid to the bottom of the pool, just on the top of the liquid as a lane marker, or any other proportion to separate the pool.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

489, for plural receptacles.

**506 Construction details:**

This subclass is indented under subclass 488. Subject matter wherein the pool structure relates to shape, material, strength, or etc.

**507 Including water inlet or outlet means:**

This subclass is indented under subclass 506. Subject matter wherein the pool has means for allowing water to enter or leave the pool.

**508 And water level control:**

This subclass is indented under subclass 507. Subject matter including means to keep the water at a certain height.

**509 And pump:**

This subclass is indented under subclass 507. Subject matter including means to force water into or out of the pool.

**510 Gutter:**

This subclass is indented under subclass 507. Subject matter wherein the means for allowing the water to leave via trough or channel along the upper area of the pool.

**511 With handhold (e.g., life rail):**

This subclass is indented under subclass 510. Subject matter including means where a person can grip a portion of the gutter or other structure to support himself.

**512 Including weir:**

This subclass is indented under subclass 510. Subject matter having a movable element for surface skimming the water.

**513 Shape:**

This subclass is indented under subclass 506. Subject matter wherein the external surface has a special form.

- (1) Note. The surface is usually formed by continuous line and not made up of surfaces joined together.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

494, for a pool-shaped surface with another useful surface connected to it, e.g., pool and slide.

**514 CONVERTIBLE CLASS-TYPE APPARATUS:**

This subclass is indented under the class definition. Subject matter, which, by the addition or the omission of a part, changes (a) a wash receptacle into a plurality of wash receptacles or vice versa or (b) a wash receptacle into another type of wash receptacle.

- (1) Note. Here are included the partitions and the means to secure the partition to the bathtub, sink, or other wash receptacle.

SEE OR SEARCH CLASS:

68, Textiles: Fluid Treating Apparatus, subclasses 232+ for laundry tubs or other tubs for the fluid treating of textiles.

**515 HAIR WASHING MACHINE OR DEVICE OR ACCESSORY:**

This subclass is indented under the class definition. Subject matter having means especially designed for washing a person's hair or means to assist in the washing of the hair.

- (1) Note. The washing or treating of a person's hair includes: washing by a liquid, usually water, the head, scalp, or hair of a person and includes washing, shampooing, or treating the hair or scalp where no special treatment is claimed such as dyeing the hair, putting oil on the hair or scalp, or permanent waving the hair.

- (2) Note. In this subclass or group are washbasins with or without a drain, and face shields to prevent the wash liquid or water from getting into ones eyes or on to ones clothes while having the hair washed. The washbasins are generally specifically designed to support the head while the hair is being washed with the liquid.

- (3) Note. For head coverings including shields to prevent water or a liquid from getting in ones eyes or on ones clothes while washing, see search notes notes.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

567+, for means to spray a user associated with a tub.

596+, for means to spray a user associated with a stall having walls and a drain.

615+, for means to spray a user.

619, for washbasins, sinks, or lavatories with or without a drain, with or without a support, supports for the washbasins, lavatories or sinks and elements, and attachments designed for use with the washbasin, lavatory, or bathroom sink.

SEE OR SEARCH CLASS:

2, Apparel, subclass 174 for a shield to protect the eyes and face during shampooing.

15, Brushing, Scrubbing, and General Cleaning, for machine and devices used in general cleaning particularly subclasses 320+ with liquid or other cleaning material application.

52, Static Structures (e.g., Buildings), subclasses 34+ for a static structure and a lavatory fixture.

- 132, Toilet, subclasses 202+ for hair-treating methods; subclasses 212+ for devices, including subclasses 219+ for combs; and subclasses 223+ for crimpers and curlers.
- 137, Fluid Handling, subclasses 1+ for processes and particularly subclasses 602+ for systems having a multiple fluid inlet with a single outlet; subclass 605 for systems with flow control; and subclass 801 for spouts and faucets.
- 220, Receptacles, appropriate subclasses for containers generally.
- 239, Fluid Sprinkling, Spraying, and Diffusing, subclasses 1+ for processes; subclass 152 for body- or animal-carried sprinklers, sprayers, or diffuser.
- 248, Supports, appropriate subclasses.
- 312, Supports: Cabinet Structure, subclass 228 for cabinets combined with a tub or basin; and subclass 229 for a cabinet with a liquid drain.
- 424, Drug, Bio-Affecting and Body Treating Compositions, subclass 62 for live hair and skin bleach; subclass 63 for live-skin colorant containing; and subclasses 70+ for live hair or scalp-treating compositions.
- 510, Cleaning Compositions for Solid Surfaces, Auxiliary Compositions Therefor, or Processes of Preparing the Compositions, subclasses 119+ for shampoo compositions, with or without a conditioner component.
- 607, Surgery: Light, Thermal, and Electrical Application, subclasses 81+ for bathing apparatus using light, thermal, and electrical application.
- 516 Portable:**  
This subclass is indented under subclass 515. Subject matter which includes portable machines which include a liquid supply tank and a means to apply the liquid of the supply tank to the hair of a person, and a receptacle to receive the liquid draining from the hair, and a receiver of the liquid received in the receptacle.
- (1) Note. Portable includes wheeled machines or devices or a composite container for the above with a handle.
- 517 Combined:**  
This subclass is indented under subclass 515. Subject matter which includes structure to perform a function which perfects the hair-washing machine or device, or performs a function which is distinct from the function of the hair-washing machine or device.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
- 519, for sinks and lavatories with head and neck rests.
- 520+, for shampoo drain boards, trays, pans, and shields.
- 523, for head, chin, forehead, face, and neck rests, per se.
- SEE OR SEARCH CLASS:
- 5, Beds, particularly subclasses 600+ for invalid beds and subclass 92 for invalid bed accessories.
- 15, Brushing, Scrubbing, and General Cleaning, subclasses 3+ for machines, and subclass 104.001 for implements for brushing or scrubbing.
- 34, Drying and Gas or Vapor Contact With Solids, subclass 283 for processes and subclasses 96+ for apparatus for treating hair on human head.
- 52, Static Structures (e.g., Buildings), particularly subclass 34 with a lavatory fixture.
- 297, Chairs and Seats, subclasses 68+ for barber's chairs and having leg and footrests interconnected to move relative to and concurrent with the instrument of the bottom or back of chair; subclasses 15+ for collapsible chairs; and subclasses 391+ for headrests.
- 312, Supports: Cabinet Structure, subclass 228 for cabinets with a basin or wash-tub.
- 424, Drug, Bio-Affecting and Body Treating Compositions, subclass 70.1 for live hair or scalp treatment composition, and subclass 62 for bleach composition for live hair or skin.
- 518 With water supply means:**  
This subclass is indented under subclass 515. Subject matter wherein the machines, devices, or equipment include means to apply washing water to the head or hair of the person.

- (1) Note. Included are water-tight head coverings which have a water supply connected thereto to wash the head or hair. These devices can include dispensers of soap or other liquids in addition to water.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
520, for liquid shields or drains for head or hair washing, or treatment.
- 519 Head or neck receiving or supporting sink:**  
This subclass is indented under subclass 515. Subject matter which includes sinks or lavatories configured to receive or support the neck or head of a person for the purpose of washing the person's hair.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
619+, for washbasins for washing a person generally where the person is not supported within the washing receptacle.
- 520 Shield or drain:**  
This subclass is indented under subclass 515. Subject matter wherein a device has a wash liquid-diverting surface to divert the hair-washing liquid away from the body or clothes onto the diverting surface so that the wash liquid can be collected and/or drained into a sink or conveyed into a sewage system.
- 521 Supported by body:**  
This subclass is indented under subclass 520. Subject matter wherein the shield or drain is held in position for use solely by a part of a person.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
515, for face shields without a surface to drain away the liquid.
- SEE OR SEARCH CLASS:  
2, Apparel, subclass 174 for a head-supported shield to protect the eyes and face during shampooing of the hair.
- 522 With post-type support:**  
This subclass is indented under subclass 520. Subject matter including a post or pedestal or pole-type support for the shield and/or drain.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
646, for washbasin supports of the staff, pedestal, or post-type support.
- SEE OR SEARCH CLASS:  
248, Supports, subclasses 511+ for staff-type supports where the support is not claimed with the washbasin or an appliance for hair washing.
- 523 Body-portion rest:**  
This subclass is indented under subclass 515. Subject matter having a support for the head or the neck to hold the head or neck in relation to a wash receptacle for the purpose of washing the hair.
- (1) Note. The term "head" includes the chin, forehead, face.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
517, for a human-body support combined with a hair-washing device.  
520, for shields or drains to divert the hair-washing water away from a person or the person's clothes.  
656, for drainboards for wash receptacle generally.  
658, for splash and drip guards for wash receptacles generally.
- SEE OR SEARCH CLASS:  
248, Supports, subclasses 127+ for supports of the stand type and subclasses 200+ for bracket supports generally.
- 524 VAPOR OR HEAT IN BATH (E.G., SAUNA, STEAM BATH OR SUDATORIUM):**  
This subclass is indented under the class definition. Subject matter having an enclosure designed to surround or enclose a person wholly and having steam or conditioned gases supplied to the enclosure for the purpose of bathing a person by the application of dry or moist heat.

- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
535+, for applying vapor or hot air to a portion of a person, which includes means to cover part of a person.
- SEE OR SEARCH CLASS:  
126, Stoves and Furnaces, subclass 350.2 for a fluid fuel burner other than a top-accessible liquid heating vessel vaporizer or humidifier.  
607, Surgery: Light, Thermal, and Electrical Application, subclasses 1+ for vapor or hot-air bath with an additional treating means, particularly subclasses 81+ and 83 for enclosures.
- 525 With additional means for washing:**  
This subclass is indented under subclass 524. Subject matter including separate means for cleaning the user in the form of bathtub, shower, or washbasin.
- 526 Collapsible:**  
This subclass is indented under subclass 524. Subject matter in which the enclosure is capable of being folded compactly, with at least some of its constituent parts still connected together.
- (1) Note. Merely because the enclosure could be dismantled into its constituent parts does not make the device the subject matter of this subclass.
- 527 Flexible fabric supported by a folding frame:**  
This subclass is indented under subclass 526. Subject matter wherein the enclosure is constructed of a clothlike material which covers a support which folds so as to reduce the size of the enclosure.
- 528 With body support means:**  
This subclass is indented under subclass 526. Subject matter wherein the enclosure has means upon which the user comes into contact for the purpose of adding to the comfort of the user.
- 529 Bed type:**  
This subclass is indented under subclass 528. Subject matter wherein the support means allows the user to assume a recumbent position.
- 530 With head or back rest:**  
This subclass is indented under subclass 529. Subject matter wherein the bed has a portion which is adapted to specially support the head or back of the user.
- 531 Seat:**  
This subclass is indented under subclass 528. Subject matter wherein the support is a means which allows the users to sit in an upright position.
- 532 Fixed:**  
This subclass is indented under subclass 531. Subject matter wherein the seat is secured to a position of the enclosure or formed as part of the enclosure.
- 533 Conversion means:**  
This subclass is indented under subclass 524. Subject matter including additional means to change a bath receptacle into an enclosure.
- 534 Flexible cover:**  
This subclass is indented under subclass 533. Subject matter wherein the additional means is constructed of a clothlike material.
- 535 MEANS FOR APPLY VAPOR OR HOT AIR DIRECTLY TO BODY OF USER:**  
This subclass is indented under the class definition. Subject matter which has an element for directing steam or conditioned gases to a portion of a person for the purpose of bathing a person.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
524+, for a vapor or a hot-air bath for a person within an enclosure.
- SEE OR SEARCH CLASS:  
126, Stoves and Furnaces, subclass 350.2 for a fluid fuel burner other than a top-accessible liquid heating vessel vaporizer or humidifier.



607, Surgery: Light, Thermal, and Electrical Application, subclasses 81+ for vapor or hot bath with additional treating means.

**536 With means covering a majority of the user's body:**

This subclass is indented under subclass 535. Subject matter including means placed over or on a user except for a small part of the user.

**537 To the head or face:**

This subclass is indented under subclass 535. Subject matter wherein the steam or gases are applied to the area above the shoulder.

**538 TUBS:**

This subclass is indented under the class definition. Subject matter having an open receptacle large enough for most or a majority of a user's body to be received therein for the purpose of washing or bathing the user.

- (1) Note. The receptacle is capable of holding the washing or bathing liquid.
- (2) Note. A tub differs from a swimming pool or tank primarily by intended uses.
- (3) Note. A receptacle used for washing or bathing an infant placed herein is proper for this area and not in the basin or sink area.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 488+, for swimming pool type receptacles.  
 619+, for a sink capable of holding a portion of the body of a user.  
 668+, for a supply outlet, drain, overflow or trap having condition responsive means for use with a sink or bath.  
 670, for a prefabricated or modular plumbing system for use with a sink or bath.  
 671+, for a supply outlet combined with a drain, overflow or trap for use with a sink or bath.  
 675+, for a supply outlet for use with a sink or bath.  
 679+, for a drain, overflow or trap for use with a sink or bath.  
 695, for a support or mount for a supply, drain, overflow or trap means.

696, for a fitting or manifold for a sink or bath.

SEE OR SEARCH CLASS:

52, Static Structures (e.g., Buildings), subclasses 34+ for structures providing for the mounting of a lavatory fixture in a building wherein (1) no feature having a Class 4 function is defined or (2) more structure of a barrier or enclosure is defined than is necessary to support the fixture.

**539 Plural tub (i.e., all for bathing):**

This subclass is indented under subclass 538. Subject matter wherein more than one receptacle is provided, and wherein each receptacle is capable of holding bathing water independent of the other.

- (1) Note. Intercommunication of the fluids between receptacles under normal use is placed in appropriate subclasses below.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 639+, for plural sinks or baths.  
 675+, for a hot and cold supply outlet for use with a compartmented sink or bath.

**540 With means for turning tub for aiding access:**

This subclass is indented under subclass 538. Subject matter including means for handling the tub in such a manner that a user will find it easier to get into the tub other than in the conventional manner.

**541.1 Means for agitating or circulating water in a tub:**

This subclass is indented under subclass 538. Subject matter comprising an apparatus for use with the tub (e.g., a spa, hot tub, or whirlpool) that causes the water within the tub to churn or flow.

- (1) Note. The tub need not be claimed in order for a reference to be properly included in this and the indented subclasses.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 491, for a pool with wave making means.

493, for a pool with heating means.  
 545, for heating of tub structure.  
 668+, for condition responsive supply means.

**SEE OR SEARCH CLASS:**

126, Stoves and Furnaces, subclasses 373.1 through 390.1 for an open-top liquid heating vessel that may include a lid.  
 601, Surgery: Kinesitherapy, subclasses 160+ for hydromassage apparatus having a method of treatment for the body.

**541.2 With condition response:**

This subclass is indented under subclass 541.1. Subject matter wherein the apparatus has means to sense a change in the environment to effect a change in the operation of the apparatus that causes the water within the tub to churn or flow.

**541.3 By liquid flow:**

This subclass is indented under subclass 541.1. Subject matter wherein the apparatus uses liquid discharged from a pressure source to cause the water within the tub to churn or flow.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

492, for a pool with water jet means.  
 904, for a swim-in-place pool.

**541.4 And aerating:**

This subclass is indented under subclass 541.3. Subject matter wherein the apparatus uses liquid and gas discharged from a pressure source to cause the water within the tub to churn or flow.

(1) Note. The gas may come from a source of pressure or be entrained by the discharged liquid.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

541.5, for liquid aerating apparatus for use in a tub.

**SEE OR SEARCH CLASS:**

261, Gas and Liquid Contact Apparatus, subclasses 75+ for a device specifically designed to produce an intimate

contact between a gas and a liquid that is beyond aeration, and Digest 75 for a device using flowing liquid to aspirate gas.

**541.5 By aerating:**

Subject matter under subclass definition 541.1 wherein the apparatus uses gas discharged from a pressure source to cause the water within the tub to churn or flow.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

541.4, for similar apparatus combined with liquid flow.

**SEE OR SEARCH CLASS:**

261, Gas and Liquid Contact Apparatus, subclasses 75+ for a device specifically designed to produce an intimate contact between a gas and a liquid that is beyond aeration, and Digest 75 for a device using flowing liquid to aspirate gas.

**541.6 Jet detail:**

Subject matter under subclass definition 541.1 wherein significance is attributed to the discharge nozzle which directs liquid or gas from a pressure source as the means to cause to water in the to churn or flow.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

492, for a pool with a water jet means.

**SEE OR SEARCH CLASS:**

239, Fluid Sprinkling, Spraying, and Diffusing; subclasses 225.1+ for a jet that continuously moves relative to the support during spraying, 398+ for the combining of separately supplied fluids and especially 428.5 for liquid flow entraining atmospheric air into the stream.

261, Gas and Liquid Contact Apparatus, subclasses 75+ for device specifically designed to produce an intimate contact between a gas and a liquid, and Digest 75 for a device using flowing liquid to aspirate gas.

**545 With heating of tub structure:**

This subclass is indented under subclass 538. Subject matter which includes means for heating the tub directly or through a heat exchange which may contain a liquid or air as the heat exchange medium.

- (1) Note. Immersion-type heaters, and the heating of the water in a separate tank are not regarded as heating tub structure.

**546 Combined with diverse means:**

This subclass is indented under subclass 538. Subject matter wherein the tub is combined with other devices or structure having an added purpose or independent utility other than to perfect the tub.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 557+, for movable closure and tub.  
559+, for perfecting means or accessories for a tub.

**547 Couch or bed:**

This subclass is indented under subclass 546. Subject matter including an article of furniture on which a user may sit or lie down.

**548 Storage or support means:**

This subclass is indented under subclass 546. Subject matter including a place or space for storing the tub or for storing an article, or means for holding an article or person.

**549 Cabinet:**

This subclass is indented under subclass 548. Subject matter having an enclosure or space for storing the tub or an article.

**550 Pivoted tub:**

This subclass is indented under subclass 549. Subject matter wherein a tub turns about an axis for placement into the enclosure or space.

**551 Dressing table:**

This subclass is indented under subclass 548. Subject matter including a surface for placing an infant for dressing.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 586, for infant tubs.

**552 A complete and separate shower:**

This subclass is indented under subclass 546. Subject matter including an enclosure with spray means which is divided from the tub so that each can be used at the same time by different users.

**553 Basin or sink:**

This subclass is indented under subclass 546. Subject matter wherein the diverse means if another wash receptacle in which only part of a users body is placed.

- (1) Note. Included under the term wash receptacle are washbasins, sinks and lavatories.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 539, for plural bathtubs including a bath tub with a sitz bath or a sitz bath with a foot bath.  
549, for a cabinet combined with a bathtub.  
619+, for a washbasin.  
638, for a washbasin combined with a shower.  
643, for a support for a washbasin which is an attachment for a bathtub.

**554 Relatively movable tub or basin:**

This subclass is indented under subclass 553. Subject matter wherein the basin or sink is movable relative to the tub.

**555 With user access means in side of the tub:**

This subclass is indented under subclass 538. Subject matter wherein a wall portion of the receptacle is movable to permit entry into the tub.

**556 Pivoted door:**

This subclass is indented under subclass 555. Subject matter wherein the access means is a closure that moves about a vertical axis.

**557 With movable closure:**

This subclass is indented under subclass 538. Subject matter including means to support an element and allow it to move so that the area above the tub is enclosed.

- (1) Note. The area above is usually enclosed so that a person can take a shower.

- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
607+, for a movable closure, per se, for use with a tub or shower.  
610, for mounting or support means for movable closure means.
- 558 Flexible type:**  
This subclass is indented under subclass 557. Subject matter wherein the closure is made of a clothlike material.
- 559 Convenience accessories:**  
This subclass is indented under subclass 538. Subject matter wherein there is provided additional means for aiding or adding to the comfort of the user.
- (1) Note. The tub need not be positively recited in order to be properly included as subject matter for these subclasses.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
609, for a shield or guard to prevent splash, per se.
- 560.1 Means for handling user:**  
This subclass is indented under subclass 559. Subject matter including means for moving the user into and out of the tub.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
667, for a vertical lift seat for use with a closet.
- 561.1 Vertically and horizontally:**  
This subclass is indented under subclass 560.1. Subject matter wherein the handling means moves perpendicular and parallel to the plane of the horizon.
- 562.1 Horizontal movement is pivotal:**  
This subclass is indented under subclass 561.1. Subject matter wherein the handling means moves in a plane around a vertical axis.
- 563.1 Hydraulically operated:**  
This subclass is indented under subclass 562.1. Subject matter having a fluid means to move the handling means.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
566.1, for hydraulic-operated vertical moving means.
- 564.1 Vertically only (e.g., lifts):**  
This subclass is indented under subclass 560.1. Subject matter wherein the handling means moves perpendicular to the plane of the horizon.
- 565.1 Supported by tub:**  
This subclass is indented under subclass 564.1. Subject matter wherein the handling means is held or secured to tub structure.
- 566.1 Hydraulically operated:**  
This subclass is indented under subclass 565.1. Subject matter having a fluid means to move the handling means.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
563.1, for hydraulically operated horizontal and vertical moving means.
- 567 Means for spraying user:**  
This subclass is indented under subclass 559. Subject matter wherein there is provided an element which can direct water in a mist or fine liquid particles in a stream upon the body of a person located within the confines of the tub.
- (1) Note. This includes a hot and cold mixing faucet combined with a means to spray the body of a user and disclosing a tub.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
596+, for means to spray the body of a user including a room, stall or other structure framing an enclosure and having a drain.  
615+, for means to spray the body of a user.  
676+, for a hot-cold mixing valve having a diverter valve for a shower.  
903, for a shower head with material dispensing means.

- 568 Located inside of the tub:**  
This subclass is indented under subclass 567. Subject matter wherein the spray means is positioned within the confines of the tub.
- 569 Conduit having rectilinearly spaced spray holes:**  
This subclass is indented under subclass 568. Subject matter wherein the spray means is in the form of a tube having the spray holes arranged in lines which define a plane.
- 570 Mounted on support external to tub:**  
This subclass is indented under subclass 567. Subject matter wherein the spraying means is mounted on structure (e.g., wall, floor, etc.) which is distinct from the tub.
- 571.1 Support for user, static:**  
This subclass is indented under subclass 559. Subject matter wherein the accessory means stationary and the user comes into contact with it for holding or steadying, during, before, or after bathing.
- 572.1 For infant:**  
This subclass is indented under subclass 571.1. Subject matter wherein the support means is used for a very young child or baby.
- 573.1 Body Type:**  
This subclass is indented under subclass 571.1. Subject matter wherein only a portion of the user's body is involved.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
589+, for a body support structure integral with a tub.
- 574.1 Foot:**  
This subclass is indented under subclass 573.1. Subject matter wherein the user's foot rests or is held on the support means.
- 575.1 Head or back:**  
This subclass is indented under subclass 573.1. Subject matter wherein the user's head or back is held or rests on the support means.
- 576.1 Hand grip:**  
This subclass is indented under subclass 573.1. Subject matter having means for a user to hold onto for support or help in getting into or out of the tub or for aid while in the tub.
- 577.1 Mounted on tub, only:**  
This subclass is indented under subclass 576.1. Subject matter wherein the handgrip is held or secured to tub structure only.
- 578.1 Seat:**  
This subclass is indented under subclass 573.1. Subject matter wherein the support is a means which allows the user to sit in an upright position.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
590, for a seat integral with a tub.
- 579 Supported by tub, only:**  
This subclass is indented under subclass 578.1. Subject matter wherein the seat is held for use by structure of the tub only.
- 580 Liner or cover:**  
This subclass is indented under subclass 559. Subject matter wherein the accessory is a means for shielding the tub surface from damage or guarding a user against injury.
- 581 Mat type:**  
This subclass is indented under subclass 580. Subject matter wherein the accessory means is generally a flat piece of material for use on the bottom of the tub.
- (1) Note. The mat may be used at the side of a tub if an element is in contact with the tub.
- 582 With antislip means:**  
This subclass is indented under subclass 581. Subject matter including means to prevent the mat from moving when placed in contact with another surface.
- 583 In contact with tub bottom:**  
This subclass is indented under subclass 582. Subject matter wherein the mat is used on the lower surface of the tub.

- 584 Particular construction or configuration details:**  
This subclass is indented under subclass 538. Subject matter relating to the shape, material, strength, support or such, of the tub structure.
- 585 Flexible material (e.g., collapsible, etc.):**  
This subclass is indented under subclass 584. Subject matter wherein the main part of the receptacle is made of clothlike material.
- SEE OR SEARCH CLASS:  
220, Receptacles, subclasses 9.1+ and 9.4 for a receptacle of flaccid material permanently united with a skeletal framework.
- 586 For infant:**  
This subclass is indented under subclass 585. Subject matter wherein the tub is used for a very young child or baby.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
546, for an infant tub with diverse means.
- 587 Supported by folding frame:**  
This subclass is indented under subclass 586. Subject matter wherein the tub is constructed so that when not in use it can be reduced in size.
- 588 Inflatable:**  
This subclass is indented under subclass 586. Subject matter wherein the tub is shaped or strengthened by a gaseous fluid.
- 589 With integral body support:**  
This subclass is indented under subclass 584. Subject matter including means to hold a person or means for a person to hold onto, which form a part of the tub.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
573+, for a body support accessory for a tub.
- 590 Seat:**  
This subclass is indented under subclass 589. Subject matter wherein the support is a means which allows user to sit in an upright position.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
578+, for a seat accessory for a tub.
- 591 Rim supply:**  
This subclass is indented under subclass 584. Subject matter wherein water is discharged into the tub from its edge, border, margin, or such.
- 592 Support structure:**  
This subclass is indented under subclass 584. Subject matter wherein the tub has means to strengthen or hold, or secure the tub in position.
- 593 For strengthening bottom or side:**  
This subclass is indented under subclass 592. Subject matter wherein the tub has ribs, ridges or such, on the bottom or side surface to resist strain, stress, or such.
- 594 Legs:**  
This subclass is indented under subclass 592. Subject matter wherein the tub is supported at more than one place by means to hold the bottom surface of the tub above a floor or such.
- SEE OR SEARCH CLASS:  
126, Stove and Furnaces, subclass 304 for a stove leg, and means for attaching it to a stove body; and subclass 306 for a stove leg made of sheet metal.  
248, Supports, subclass 188 for a leg attaching connection; and subclass 188.8 for a leg or foot of general application.
- 595 Means for securing tub in place:**  
This subclass is indented under subclass 584. Subject matter including means to make fast a tub to another structure.
- 596 SHOWER (E.G., STALL, WITH WALLS, RECEPTOR, AND SPRAY):**  
This subclass is indented under the class definition. Subject matter having means for spraying water on the body of a user which means is located in a room, stall, or other structure framing an enclosure, or a receptor for allowing spray water to drain away or a means to deflect or repel spray water.

- (1) Note. The SHOWER (E.G., STALL, WITH WALLS, RECEPTOR AND SPRAY) need not be positively recited or disclosed for cross-referencing purposes this subclass and indented subclasses.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
567+, for a tub and means for spraying means for spraying user.  
615+, for means for spraying user, per se.  
670, for a prefabricated or modular plumbing system disclosing a means to spray the body of a user.
- 597 Combined with diverse means:**  
This subclass is indented under subclass 596. Subject matter wherein the shower is combined with other devices or structures having an added purpose or independent ability other than to perform the shower.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
605, for convenience accessories for a shower.
- 598 With heating means:**  
This subclass is indented under subclass 596. Subject matter including means to raise the temperature of the water or the temperature inside of the shower.
- 599 Collapsible or expandable:**  
This subclass is indented under subclass 596. Subject matter wherein the shower can be folded up compactly or decreased in size when not in use, or unfolded, extended, spread out, or such for use.
- 600 Wall type:**  
This subclass is indented under subclass 599. Subject matter wherein the shower is attached to a wall or is stored in a wall.
- 601 Plural spray heads:**  
This subclass is indented under subclass 596. Subject matter having more than one element for directing water in a mist or of fine particles or in a stream upon the body of a user or users.
- 602 With self-contained water supply:**  
This subclass is indented under subclass 596. Subject matter including a receptacle for holding the water for spraying.
- (1) Note. The receptacle does not have a positive supply-feed means.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
616+, for self-contained water supply for spraying a user.
- 603 And pump:**  
This subclass is indented under subclass 602. Subject matter wherein the water is forced through the spraying means by a force-moving device.
- 604 With special feature for physically handicapped:**  
This subclass is indented under subclass 596. Subject matter including means to assist or help a disabled person.
- 605 Convenience accessories:**  
This subclass is indented under subclass 596. Subject matter wherein there is provided additional means for aiding or adding to the comfort of the user, or to perfect the shower.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
581+, for a mat which is for use in a tub, shower, etc.  
903, for a shower head with material dispensing means.
- 606 Scrubber:**  
This subclass is indented under subclass 605. Subject matter having means to clean by rubbing or brushing.
- 607 Movable closure:**  
This subclass is indented under subclass 605. Subject matter having means to support an element and allow it to move so that an entrance to a shower may be closed or opened and providing for the draining, deflecting, or repelling of spray water.

- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
557, for a tub closure.
- SEE OR SEARCH CLASS:  
49, Movable or Removable Closures, subclasses 381+ for a swinging closure.
- 608 Flexible type:**  
This subclass is indented under subclass 607. Subject matter wherein the closure is made of clothlike material.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
558, for a tub flexible closure.
- 609 Shield or guard means:**  
This subclass is indented under subclass 605. Subject matter having means to prevent water from splashing out of the shower enclosure.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
607+, for a movable closure.
- 610 Mounting or supporting means for movable closure:**  
This subclass is indented under subclass 605. Subject matter having means to hold a movable closure to allow it to move.
- 611 Support for user:**  
This subclass is indented under subclass 605. Subject matter having means with which a user comes into contact for holding or steadying himself or herself during, before, or after showering.
- 612 Particular construction:**  
This subclass is indented under subclass 596. Subject matter relating to the shape, material, strength, support or such of the shower structure.
- 613 Of receptor:**  
This subclass is indented under subclass 612. Subject matter having details of the bottom part of the shower where the user stands.
- 614 Wall or panel:**  
This subclass is indented under subclass 612. Subject matter having details of the sides or vertical part of the shower.
- 615 MEANS FOR SPRAYING USER:**  
This subclass is indented under the class definition. Subject matter which has an element for directing water in a mist of fine particles or in a stream upon the body of a user.
- (1) Note. This includes a hot and cold mixing valve combined with a means for spraying the body of a user.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
567, for means for spraying user in a tub.  
596, for a shower enclosure with means for spraying user.  
620, for eyewash fountains.  
670, for a prefabricated or modular plumbing system disclosing a means to spray the body of a user.  
903, for a shower head with material dispensing means.
- 616 With self-contained water supply:**  
This subclass is indented under subclass 615. Subject matter including a receptacle for holding the water for spraying.
- (1) Note. The receptacle does not have a positive supply feed means.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:  
602+, for a self-contained water supply for spraying a user in a shower.
- 617 Overhead-gravity feed:**  
This subclass is indented under subclass 616. Subject matter wherein the receptacle is above the head of the user and there is no means to force the water out.
- 618 Supported by neck or shoulder of user:**  
This subclass is indented under subclass 615. Subject matter wherein the means for spraying is held in place by the upper part of the body.



**619 WASH RECEPTACLES:**

This subclass is indented under the class definition. Subject matter having a vessel for receiving water used for washing, attachments for such vessels, combinations of such vessels with diverse devices, or subcombinations of such vessels not provided for in other classes.

- (1) Note. The vessel is for holding water in a container for washing articles, parts of the human body, edible material, or the passing of water over an article, parts of the human body, or edible material and into the vessel.
- (2) Note. Washing is cleaning by the action of water to remove foreign or unwanted matter by drenching with water or by the rubbing with water parts or portions of the human body edible material, or articles.
- (3) Note. Mixture of water with soap and detergent is proper for these subclasses.

**SEE OR SEARCH CLASS:**

- 15, Brushing, Scrubbing, and General Cleaning, particularly subclass 300.1 for machines and manual devices for cleaning by air blast or suction; and subclasses 159.1+ for brushes and brooms; and subclasses 167.1+ for tooth and nail brushes.
- 68, Textiles: Fluid Treating Apparatus, subclass 3 for clothes washing machines alone or in combination with other devices for treating textile materials, and subclasses 232+ for washtubs.
- 132, Toilet, appropriate subclasses for devices to groom the human body.
- 134, Cleaning and Liquid Contact With Solids, subclass 1 for processes; and subclass 43 for apparatus for cleaning and liquid contact with solids; particularly subclass 56 for automatic control of dishwashing machines; and subclass 58 for electrically controlled dishwashing machines.
- 217, Wooden Receptacles, subclass 4 for tanks, and subclasses 5+ for boxes.

- 220, Receptacles, various subclasses, and particularly subclasses 694+ for attachments and subclass 904 for a pail or bucket of flexible or flaccid material.

**620 Emergency fountains:**

This subclass is indented under subclass 619. Subject matter which includes a water spray nozzle to irrigate the eyes, head, or face of a person to remove harmful substances contacting the cited parts of a person.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

- 615+, for means for spraying water.
- 621+, for a wash receptacle with a human body support.

**SEE OR SEARCH CLASS:**

- 239, Fluid Sprinkling, Spraying, and Diffusing, subclasses 16+ for fountains.
- 604, Surgery, for means to introduce or remove material from a body orifice; particularly subclass 515 for a method of use on a female reproductive tract, subclass 94.01 for dual nozzles inserted into paired body orifices (e.g., nasal passages, etc.), subclasses 212+ for hand held and inserted means having a collapsible material reservoir, sub 279 for an insertable nozzle for use on the female reproductive tract, and subclasses 294+ for means for such as an eye or the surface of the ocular cavity.

**621 With human body support:**

This subclass is indented under subclass 619. Subject matter which includes a vessel in which a person may stand, a vessel designed to support a portion or portions of the human body, or structure to support a portion of the human body in relation to the vessel.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

- 420+, for the combination of a flush bowl and a bidet.
- 443, for body-supporting bidet basins.
- 444, for a human body support combined with a bidet.
- 446, for bidet bowls.
- 447, for a bidet nozzle and a seat.

- 517, for hair-washing machines and devices which include a human body support.
- 523, for hair or neck support, per se, used in the washing of a person's hair.
- 528+, for vapor or hot-air baths with body-support means.
- 538+, particularly subclass 547 for a bathtub combined with a couch or bed.
- 571+, for static supports for users of a bathtub.
- 611, for supports for users of a shower.

**SEE OR SEARCH CLASS:**

- 5, Beds, subclass 503.1 for bathing-device attachments for beds and subclasses 630+ for surgical apparatus.
- 297, Chairs and Seats, particularly subclasses 180.1+ for chairs and seats with fluid or vapor treatment, and subclasses 217.1+ for a chair and seat combined with the subject matter of another class.
- 607, Surgery: Light, Thermal, and Electrical Application, subclasses 1+ for bathing tubs for a body member.

**622 Foot:**

This subclass is indented under subclass 621. Subject matter wherein a foot of a person is supported.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

- 574, for a foot support for use in a tub.

**SEE OR SEARCH CLASS:**

- 36, Boots, Shoes, and Leggings, subclasses 83+ for boots and shoes.

**623 With proximity-operated valve:**

This subclass is indented under subclass 619. Subject matter which includes a device that senses the presence or absence of a human being in relation to the wash vessel and controls the flow of water into the wash vessel as a result of the sensing.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

- 302+, for automatic flush urinals which includes proximity-operated water valves.

- 313+, for flush closets with automatic flush-responsive means.
- 668+, for a supply outlet, drain, overflow or trap having condition responsive means.

**SEE OR SEARCH CLASS:**

- 137, Fluid Handling, subclass 562 for faucet-connected sink-drained system.
- 239, Fluid Sprinkling, Spraying, and Diffusing, subclasses 16+ for fountains, and subclasses 569+ for valve means in flow line of sprinkling, spraying, or diffusing devices.
- 251, Valves and Valve Actuation, subclass 131 for remote-control system for electrical actuator of a valve.
- 331, Oscillators, subclass 6 for oscillators responsive to an external physical device.
- 340, Communications: Electrical, subclasses 591+ for intrusion-type signaling systems and subclasses 573.1+ for signalling systems responsive to humans or animals.
- 361, Electricity: Electrical Systems and Devices, subclass 173 for light control of electromagnetic devices; and subclasses 179+ for proximity control of electromagnetic devices.

**624 Wash fountain:**

This subclass is indented under subclass 619. Subject matter wherein the wash vessel is designed to permit more than one person to use the vessel concurrently.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

- 488+, for pool-type receptacles.
- 538+, for bathtubs.
- 596+, for showers.

**625 With water supply or waste-water tank:**

This subclass is indented under subclass 619. Subject matter including a container for water to be received by the vessel or a container for receiving from the vessel.

**626 And water control:**

This subclass is indented under subclass 625. Subject matter wherein there is a device to selectively permit the exchange of water from

the container to the vessel or from the vessel to the waste-water container.

**627 Having pivoted receptacle:**

This subclass is indented under subclass 625. Subject matter wherein the vessel is movable about an axis.

**628 With cleaning brush, soap dispenser or holder:**

This subclass is indented under subclass 619. Subject matter which includes a rubbing-type cleaning implement or a holder for soap.

SEE OR SEARCH CLASS:

- 15, Brushing, Scrubbing, and General Cleaning, subclass 3.14 for machines contacting fruit, vegetables, meat, or eggs with a liquid; subclass 21 for brushing machines; and subclasses 159.1+ for brushes and brooms.
- 68, Textiles: Fluid Treating Apparatus, subclass 17 for machines with a soap supply, and subclasses 63+ for machines which include scrubbing.
- 134, Cleaning and Liquid Contact With Solids, subclass 29 for processes using sequentially applied treating agents, one of which is soap; subclass 56 for automatically controlled dishwashing machines; and subclass 58 for electrically controlled dishwashing machines.
- 206, Special Receptacle or Package, subclass 77.1 for special receptacles with soap-handling means.
- 222, Dispensing, appropriate subclasses for dispensing of fluent material.
- 241, Solid Material Comminution or Disintegration, subclass 602 for soap dispensers.
- 248, Supports, subclasses 200+ for brackets for soapholders.

**629 With garbage receptor or tableware extractor:**

This subclass is indented under subclass 619. Subject matter including a separator to remove tableware from food waste, or a food-waste receptor associated with the sink, or an outlet drain of a sink.

- (1) Note. The term "receptor" includes a garbage disposal, a garbage pail, a gar-

bage chute, or a housing for a garbage vessel.

SEE OR SEARCH CLASS:

- 134, Cleaning and Liquid Contact With Solids, subclass 115 for a garbage grinder combined with cleaning and liquid contact with solids apparatus.
- 210, Liquid Purification or Separation, subclasses 348+ for filters to separate a solid from a liquid material.
- 241, Solid Material Comminution or Disintegration, subclasses 46.013+ for an under-sink garbage disposal intended to be attached to the drain of a sink and subclasses 68+ for a solid-material comminution or disintegration apparatus with separation or classification of material.

**630 With cabinet, shelf, or drawer:**

This subclass is indented under subclass 619. Subject matter including an enclosure for the wash receptacle, and/or for articles other than the wash receptacle, or a planar support for articles other than the wash receptacle.

- (1) Note. An enclosure solely for housing a wash receptacle is in this class. See Class 312, mainline note, section 2, for the line with this class.
- (2) Note. A planar surface for supporting a wash receptacle is in subclass 631.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 517, combined with a cabinet or shelf.
- 546, for a bathtub and diverse art means.
- 597, for a shower combined with diverse art means.
- 625+, for a wash receptacle and a water supply or a waste water tank.
- 631+, for a work surface including a table combined with a wash receptacle.

SEE OR SEARCH CLASS:

- 211, Supports: Racks, subclasses 134+ for shelf-type supports.
- 312, Supports: Cabinet Structure, subclass 228 for basins or washtubs combined with cabinet structures; subclass 281 for cabinets with continuously external article supports; subclass 313 for

cabinets with movable shelf or table components; and subclass 351 for components spaced from the bottom cabinet wall.

**631 With work surface:**

This subclass is indented under subclass 619. Subject matter including an article-support area in combination with a wash vessel.

- (1) Note. A wash vessel with a rim which is held to an area under the article-support area is proper for these subclasses.

SEE OR SEARCH THIS CLASS, SUB-CLASS:  
643, for a receptacle with a support.

**632 Sink rim rests on work-surface recess below top surfaces:**

This subclass is indented under subclass 631. Subject matter wherein the wash vessel has a flange at the extreme limit of the vessel, and the article-support area has a top and a bottom surface with a cutout completely therethrough, the border of the cutout having a ledge below the top surface on which the flange of the vessel rests.

**633 Sink rim clamped to work-surface top by clamp means partly on sink:**

This subclass is indented under subclass 631. Subject matter wherein the article-support area has a top and a bottom surface with a cutout completely therethrough, and the wash vessel has a flange at the extreme limit of the vessel to rest on the top surface when the vessel is within the cutout, and means partly on the sink which cooperates with the flange to clamp the vessel to the top surface.

**634 Sink rim clamped to work surface:**

This subclass is indented under subclass 631. Subject matter wherein the wash vessel has a flange at the extreme limit of the vessel and the article-support area has a top and a bottom surface with a cutout therethrough, the flange rests on the top surface when the vessel is within the cutout, and means cooperating with the flange to clamp the vessel to the top surface.

**635 Sink rim joined to work surface by molding frame:**

This subclass is indented under subclass 631. Subject matter wherein the wash vessel has a flange at the extreme limit of the vessel and the article-support area has a top and a bottom surface with a cutout therethrough in which the vessel is placed and a molding member contacts the top surface and the flange.

**636 Molding frame T-shaped:**

This subclass is indented under subclass 635. Subject matter wherein the molding member is T-shaped.

**637 Drainboard:**

This subclass is indented under subclass 631. Subject matter wherein the article-support area is a draining area to permit wet things placed thereon to dry by the action of gravity.

**638 Combined:**

This subclass is indented under subclass 619. Subject matter which includes diverse art devices combined with a wash receptacle not provided elsewhere.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 517, for hair-washing machines and devices combined with diverse art-type devices.  
546, for a bathtub combined with a diverse art means.  
597, for a shower combined with diverse art means.  
628, for wash receptacle and a cleaning brush, soap dispenser or holder.  
629, for the combination of a wash receptacle and a garbage receptor or table-ware extractor.  
630, for the combination of a cabinet, shelf, or a drawer with a wash receptacle.  
631+, for the combination of a work surface and wash receptacle.  
653, for the combination of a wash receptacle with a drain and a water-supply pipe or fitting or waste-water pipe or fitting.

**639 Plural receptacles:**

This subclass is indented under subclass 619. Subject matter having more than one vessel for washing.

SEE OR SEARCH THIS CLASS, SUBCLASS:

619, for a wash receptacle.

SEE OR SEARCH CLASS:

68, Textiles: Fluid Treating Apparatus, subclass 232 for washtubs restricted for used with textiles.  
220, Receptacles, subclasses 23.83+ for plural receptacles.

**640 With drain:**

This subclass is indented under subclass 639. Subject matter wherein the vessel has an opening in the vessel bottom wherein the water in the vessel can flow out under the action of gravity.

(1) Note. Here are plural sinks, lavatories, tubs, and basins with drains.

SEE OR SEARCH THIS CLASS, SUBCLASS:

539+, for plural bathtubs.  
549, for converting a sink or tub into plural receptacles.  
643+, for a wash receptacle with a support.  
650+, for a washbasin with a drain, sink, lavatory, or washtub with a drain.  
663, for a wash receptacle, bathtub, and flush closet.

**641 Nested:**

This subclass is indented under subclass 640. Subject matter wherein one of the wash vessels with a drain is of such size as to permit placement within the other vessel when desired.

SEE OR SEARCH THIS CLASS, SUBCLASS:

514, for converting one type of wash receptacle into another, converting a single wash receptacle into plural wash receptacles, or vice versa.  
553, for a nested sink or basin and a bathtub.

**642 Dissimilar:**

This subclass is indented under subclass 640. Subject matter wherein each wash vessel with a drain is different.

**643 With support:**

This subclass is indented under subclass 619. Subject matter which includes structure to hold the wash vessel.

(1) Note. The combination of a washbasin, sink, lavatory, or tub and its support, or the wash receptacle support, per se, specifically recited as being a support for a wash receptacle are here.

(2) Note. An adhesively joined wash receptacle and support is here.

SEE OR SEARCH THIS CLASS, SUBCLASS:

252.1+, for a closet bowl support.  
516, for portable hair washing receptacle.  
592+, for bathtub support structure.  
630, for a cabinet, shelf, or drawer with a wash receptacle.  
631+, for a wash receptacle with a work-surface support.

SEE OR SEARCH CLASS:

248, Supports, particularly subclasses 127+ for self-supporting devices in a spaced relation with a table, floor, or ground.

**644 Pivoted:**

This subclass is indented under subclass 643. Subject matter wherein the structure to support the receptacle is movable about an axis.

(1) Note. Claims to a housing with an opening and a movable closure which can fill the opening to complete the housing and connected to a wash receptacle hidden within the housing when the closure fills the opening and visible when brought out to a use position when the closure does not fill the opening is considered a cabinet for subclass 630.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 627, for a water supply or waste tank with a pivoted wash receptacle.
- 638, for a wall or other diverse structure with a pivoted wash receptacle.
- 640+, for plural wash receptacle with a pivoted support.

SEE OR SEARCH CLASS:

- 248, Supports, subclass 282.1 for adjustable brackets with vertical pivots, and subclass 284.1 for an adjustable bracket with horizontal pivots.

**645 Vertically adjustable:**

This subclass is indented under subclass 643. Subject matter wherein the structure to support the vessel can be changed vertically to place the vessel at various heights to accommodate persons of varying structures.

- (1) Note. The adjustment of the support to place a wash vessel at a certain height permanently is not in this subclass.

SEE OR SEARCH CLASS:

- 248, Supports, subclass 132 for a movable stand with receptacle or a stand with a movable receptacle; subclasses 161+ for a vertically adjustable standard; subclasses 157+ for a vertically adjustable stand; subclasses 274.1+ for adjustable bracket; subclasses 327+ for vertically adjustable suspended supports.

**646 Post:**

This subclass is indented under subclass 643. Subject matter wherein the structure to support includes a member between a floor or ground and the wash vessel which will take a proportionate share of the weight of the vessel.

- (1) Note. Included are post supports, per se, restricted to use with a wash receptacle.

SEE OR SEARCH CLASS:

- 248, Supports, subclasses 163.1+ for plural leg stands; subclass 188 for leg attaching connections; and subclasses 188.8+ for a leg of a stand.

**647 Hanger:**

This subclass is indented under subclass 643. Subject matter wherein the structure to support the wash vessel includes a member attached to a vertical support upon which the wash vessel is hung.

- (1) Note. Included are hanger supports, per se, restricted to use with wash receptacles.

SEE OR SEARCH CLASS:

- 248, Supports, subclass 311.2 for receptacle-type brackets of general utility.

**648 Bracket:**

This subclass is indented under subclass 643. Subject matter which includes a member projecting from a vertical support which statically supports the weight of the wash vessel.

- (1) Note. Included are brackets, per se, restricted to use with a wash receptacle.

SEE OR SEARCH CLASS:

- 248, Supports, subclasses 200+ for brackets supports of general utility.

**649 Clamp:**

This subclass is indented under subclass 643. Subject matter having means to hold the wash vessel to a support by a pressing or a holding action.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 631+, for wash-receptacle rim clamped to the underside of a work surface.
- 633, for a sink rim clamped to the top side of a work surface by means partly on the sink.
- 634, for a sink rim clamped to the top side of a work surface.
- 648, for a bracket and a clamp to support a wash receptacle.

SEE OR SEARCH CLASS:

- 248, Supports, subclass 316 for clamps for holding articles to a bracket.
- 403, Joints and Connections, subclass Dig. 11 for a separate connector, fastener, or retainer.

**650 With drain:**

This subclass is indented under subclass 619. Subject matter wherein the wash vessel has an opening in the bottom for the water in the vessel to flow out by the action of gravity.

- (1) Note. Here are basins, sinks, lavatories, and tubs with a drain.
- (2) Note. A comprehensive claim having a supply outlet, overflow, drain valve or trap combined with a sink or bath with a drain where the sink or bath is considered incidental to the invention is considered proper for a supply outlet, overflow, drain valve or trap subclass.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 443, for bidets, particularly subclass 445 for bidet basins used with a flush closet; and subclass 446 for bidet bowls.
- 507+, for pools with outlet means.
- 515+, for hair-washing machines and devices, particularly subclass 519 for head or neck receiving or supporting sinks.
- 538+, for bathtubs.
- 631+, for a work surface combined with a wash receptacle with a drain.
- 639+, for plural receptacles with a drain.
- 643+, for a wash receptacle with a support therefore.
- 663, for the combination of a wash receptacle, bathtub, and flush closet.
- 665, for a wash receptacle that empties into a flush closet or urinal.
- 671+, for a specifically detailed supply outlet and drain structure combined with a nominal sink or bath structure.
- 675+, for a specifically detailed supply outlet combined with a nominal sink or bath structure.
- 679+, for a specifically detailed drain structure combined with a nominal sink or bath structure.

SEE OR SEARCH CLASS:

- 68, Textiles: Fluid Treating Apparatus, subclass 3 for clothes washing machines; and subclasses 232+ for washtubs.

- 108, Horizontally Supported Planar Surfaces, subclass 24 for a surface with a drain.
- 114, Ships, subclasses 188+ for sinks and furniture used in ships.
- 134, Cleaning and Liquid Contact With Solids, subclasses 1+ for processes; and subclasses 43+ for apparatus for dishwashers, including sinks.
- 454, Ventilation, subclass 339 for laboratory-type sinks with an exhaust for noxious fumes.

**651 And overflow:**

This subclass is indented under subclass 650. Subject matter including means to prevent the water within the vessel from rising beyond a certain level in the vessel.

- (1) Note. Included here is an overflow combined with more than nominal sink or bath structure.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 508+, for pools having a water inlet or outlet and water-level control.
- 671+, for a specifically detailed supply outlet and overflow structure combined with nominal sink or bath structure.
- 679+, for a specifically detailed overflow structure combined with a nominal sink or bath structure.
- 688+, for a specifically detailed drain valve having an aperture that cooperates with the integral overflow of a nominal sink or bath structure.

SEE OR SEARCH CLASS:

- 137, Fluid Handling, subclasses 386+ for liquid level responsive or maintaining systems.

**652 And strainer:**

This subclass is indented under subclass 650. Subject matter which includes a screen so water flowing out of the opening must pass through the screen to prevent particles in the water larger than the screen openings from passing therethrough.

## SEE OR SEARCH CLASS:

210, Liquid Purification or Separation, subclasses 348+ for filters which include screens, particularly subclass 455 for receptacle and modified spacing surface or support for filter medium, and subclasses 464+ for portable receptacle-draining type.

**653 And water handling:**

This subclass is indented under subclass 650. Subject matter including water/pipe connections to deliver or to remove water from the wash vessel.

- (1) Note. The term "deliver" and "remove" include the control of the water entering or leaving the wash vessel by faucets, valves, or such.
- (2) Note. Included is a comprehensive claim where the supply outlet, drain valve or trap is combined with more than nominal sink or bath.

## SEE OR SEARCH THIS CLASS, SUB-CLASS:

671+, for a specifically detailed supply outlet including a drain, overflow or trap structure combined with a nominal sink or bath structure.

675+, for a specifically detailed supply outlet combined with a nominal sink or bath structure.

679+, for a specifically detailed drain, overflow or trap structure combined with a nominal sink or bath structure.

**654 Attachments:**

This subclass is indented under subclass 619. Subject matter including devices used in a wash receptacle.

- (1) Note. Included are covers for wash receptacles, sink backs, receptacles supported in the wash receptacle, supports for holding something in the wash receptacle, and nonremovable wash receptacle liners.

## SEE OR SEARCH THIS CLASS, SUB-CLASS:

680, for a portable device that fits into the drain of a sink or bath and is intended to prevent the sink or bath from overflowing.

**655 Disposable receptacle liner:**

This subclass is indented under subclass 654. Subject matter having a removable inner-surface covering.

**656 Drainboard, rack or tray:**

This subclass is indented under subclass 654. Subject matter having a support device for an article so that water thereon drains by the action of gravity by dropping or flowing from the articles into or through the devices.

- (1) Note. Included are drainboards, trays or racks for dishes, cutlery, pots and pans, although other articles can be therein or thereon placed for draining purposes.

## SEE OR SEARCH THIS CLASS, SUB-CLASS:

520, for a hair-washing water shield or drain including a drainboard.

637, for the combination of a drainboard and a wash receptacle.

## SEE OR SEARCH CLASS:

34, Drying and Gas or Vapor Contact With Solids, subclass 238 for plural or single drying trays.

68, Textiles: Fluid Treating Apparatus, subclass 233 for washboards.

108, Horizontally Supported Planar Surfaces, subclass 24 for drains combined with planer surfaces.

134, Cleaning and Liquid Contact With Solids, appropriate subclasses for processes and apparatus using drains with washing means.

211, Supports: Racks, subclass 41 for plate-type supports; subclasses 86+ for specially mounted trays and racks; and subclasses 126+ for tray or receptacle-type supports.



**657 Receptacle or receptacle content protective device:**

This subclass is indented under subclass 654. Subject matter having means within or on a portion of the receptacle to prevent damage to the receptacle or to prevent damage to the materials in or on the receptacle.

- (1) Note. Included are mats, pads, and guards.

**658 Receptacle splash or drip guards:**

This subclass is indented under subclass 654. Subject matter having a device used with a receptacle to prevent (a) the splashing of a person or a person's clothes while using the sink, (b) the splashing of the surfaces about the receptacle, (c) the dripping of the wash water from the sides of the receptacle.

**659 Infant bathing support:**

This subclass is indented under subclass 654. Subject matter wherein the device is a support for a baby while being bathed.

- (1) Note. The support may be placed within a wash receptacle, held by a wash receptacle, or supported by a surface including a drainboard.
- (2) Note. Included, but not restricted thereto, are supports which include the draining of water from the support, baby-restraining means, or head-supporting structure in addition to the support.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 517, for baby supports combined with hair-washing devices.
- 520, for liquid shields or drains having head or neck supports.
- 572, for infant supports, per se, or combined with a bathtub.
- 586+, for wash receptacle with a human-body support.
- 656, for a drainboard attachment for a wash receptacle.

**660 Rim frames:**

This subclass is indented under subclass 619. Subject matter wherein the device is a molding designed to extend about the periphery of a sink rim.

- (1) Note. Generally claimed with the frame is the fastening device to hold the sink flange to the frame, the frame to the work surface, or the frame to the work surface and the sink flange.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 631, for the combination of a work surface and a wash receptacle with a rim frame.
- 650, for wash receptacles with a drain with a rim frame.

**661 MISCELLANEOUS:**

This subclass is indented under the class definition. Subject matter which is not provided for in any of the preceding subclasses.

**662 RESTROOM OR BATHROOM SELF-CLEANING SYSTEMS:**

This subclass is indented under the class definition. Subject matter which includes a room and a toilet facility or a toilet facility and means which washes the room with the toilet facility or which washes the toilet facility.

- (1) Note. Included under the term "toilet facility" are a water closet, urinal, bathtub, shower, or lavatory.
- (2) Note. Also means to dry the washed room and the toilet facility, or the toilet facility alone, or means to remove the washing liquid may be included in the claim.

**663 FLUSH CLOSET, WASH RECEPTACLE, AND BATHTUB OR SHOWER:**

This subclass is indented under the class definition. Subject matter which includes a flush closet, wash receptacle, and a bathtub and/or a shower.

**664 FLUSH CLOSET OR URINAL AND WASH RECEPTACLE:**

This subclass is indented under the class definition. Subject matter which includes a flush closet or a urinal and a wash receptacle.

- (1) Note. Superimposed wash receptacles and wash receptacles wherein the flush closet or the wash receptacle is movable between a nonuse and in-use position, are here.

**665 Wash receptacle water empties into toilet facility:**

This subclass is indented under subclass 664. Subject matter wherein the receptacle has a drain and the drain empties into a water tank, bowl of a flush closet, or a urinal.

- (1) Note. The term receptacle includes a lavatory, sink, or washbasin with a drain.
- (2) Note. The term toilet facility includes flush closet, flush closet tank or bowl, or flush urinal.

**666 DIAPER WASHING DEVICES:**

This subclass is indented under the class definition. Subject matter which includes at least a portion of a water closet and, (a) a device to hold a diaper in or on a portion of the water closet, to be washed by water of the water closet, or (b) a device to wash a diaper in a portion of the water closet.

- (1) Note. The portion of the water closet includes a toilet bowl, a flush tank, a toilet seat, or the rim of the toilet bowl.

SEE OR SEARCH CLASS:

- 68, Textiles: Fluid Treating Apparatus, subclass 235 for diaper washers; and subclass 241 for clothes wringers.

**667 FLUSH CLOSET SEAT ASSIST TO RAISE USER:**

This subclass is indented under the class definition. Subject matter comprising an apparatus having a seat for a flush closet and means to lift the seat and a user to help the user into a standing position.

- (1) Note. These devices are primarily used by handicapped persons.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 420, for a closet bowl that may be vertically adjustable.
- 560+, for a means to handle a user associated with a tub.

SEE OR SEARCH CLASS:

- 5, Beds, subclasses 81.1+ for means to lift and transfer an invalid independent of a bed.
- 297, Chairs and Seats, subclass Digest 10 for a chair or seat with occupant-arising assistance.
- 414, Material or Article Handling, subclass 921 for handicapped person handling.

**668 HAVING CONDITION RESPONSIVE SUPPLY OUTLET, DRAIN, OVERFLOW OR TRAP FOR A SINK OR BATH:**

This subclass is indented under the class definition. Subject matter comprising, for a sink or bath, apparatus to sense a randomly occurring situation or change in the environment to effect a change in the operation of the sink or bath.

- (1) Note. The change in operation may include: the control of the flow or temperature of water, emptying water from, preventing spill-over in, or preventing sewer gas from flowing into, a sink or bath.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 378+, for an outlet valve in the flush tank.
- 541.2, for a spa, hot tub, whirlpool etc. having condition responsive means.
- 623, for a sink or bath with a proximity operated valve.
- 671+, for a sink or bath having a supply outlet combined with a drain, overflow or trap.
- 675+, for a supply outlet for a sink or bath.
- 679+, for a drain, overflow or trap for a sink or bath.

## SEE OR SEARCH CLASS:

- 137, Fluid Handling, subclasses 386+ for a liquid level condition responsive device in means to receive an accumulation thereof (float actuated inlet valve for a toilet tank).
- 236, Automatic Temperature and Humidity Regulation, subclasses 12.1+ for apparatus that mixes two or more supplies at dissimilar temperatures where one supply is controlled according to the temperature of the mixed fluid or the temperature of one of the fluid supplies.

**669 Float actuated:**

This subclass is indented under subclass 668. Subject matter wherein the condition responsive means of the apparatus uses a buoyant body that rests or remains near the surface of a body of liquid to sense a randomly occurring situation or change in the environment to effect a change in the operation of the sink or bath.

**670 PREFABRICATED (E.G., MODULAR) PLUMBING SYSTEM:**

This subclass is indented under the class definition. Subject matter comprising manufactured conduit or fitting (e.g., a coupling, elbow, tee, union, or reducer) arranged into a standardized unit for quick construction or flexible arrangement to provide fluid communication between the plumbing of a building and a water supply outlet (e.g., a faucet or showerhead), a sanitary or lavatory fixture (e.g., a flush closet, a sink, or bath), or a trap.

- (1) Note. A straight conduit or valve is not considered to be a fitting.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

- 695, for a support for a supply, drain, overflow or trap.
- 696, for a fitting or manifold for a sink or bath.

## SEE OR SEARCH CLASS:

- 52, Static Structures (e.g., Buildings), subclasses 34+ for a prefabricated bathroom.

**671 SUPPLY OUTLET COMBINED WITH A DRAIN, OVERFLOW OR TRAP FOR A SINK OR BATH:**

This subclass is indented under the class definition. Subject matter comprising an apparatus in fluid communication with a source of water under pressure that directs or controls the flow of water from an opening, into a sink or bath, combined with other apparatus which empties water from, prevents water from spilling over the edge of or prevents sewer gas from flowing into the sink or bath.

- (1) Note. Nominal sink or bath structure claimed in combination with subject matter for this subclass is included herein.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

- 378+, for an outlet valve in a flush tank.
- 567+, for means to spray the body of a user where a tub is disclosed.
- 584, for a tub having a particular construction or configuration details for a supply, drain, overflow or trap.
- 596+, for means to spray the body of a user including a room, stall or other structure framing an enclosure and having a drain.
- 615+, for means to spray the body of a user.
- 650+, for a specifically detailed sink or bath having a drain opening and combined with an overflow or water handling.
- 668+, for a supply outlet, waste, trap or overflow which has a condition response means.
- 675+, for a supply outlet for a sink or bath.
- 679+, for a drain, overflow or trap for a sink or bath.

## SEE OR SEARCH CLASS:

- 137, Fluid Handling, subclasses 247.41+ for a U-shaped liquid trap seal, subclass 362 for a floor drain, subclasses 577+ for a tank with a movable or adjustable outlet or overflow pipe, and subclass 801 for a faucet or spout.
- 251, Valves and Valve Actuation, subclasses 153+ for valves combined with inlet or outlet structure comprising a single flow path and specifically subclass 155 for a valve associated

- with a nozzle or spout; subclasses 213+ for a mechanical movement actuator and specifically subclasses 231+ for a lever type mechanical movement actuator for a valve; subclass 340 for a valve actuator surrounding a nozzle; subclasses 349+ for an inlet or outlet element which serves as a valve actuator.
- 285, Pipe Joints or Couplings, subclasses 125.1+ for means to provide a coupling for several lines, subclasses 134.1+ for a U-shaped fitting, subclasses 179+ for an elbow joint and subclass 193 for an end that pierces or penetrates a side or plate.
- 672 Supply outlet valve linked to a drain, overflow or trap valve:**  
This subclass is indented under subclass 671. Subject matter wherein the supply outlet has a flow control mechanism to control the flow of water from an opening into the sink or bath and is operatively coupled to the other apparatus that empties water from, prevents water from spilling over the edge of or prevents sewer gas from flowing into the sink or bath.
- 673 Supply outlet and drain:**  
This subclass is indented under subclass 671. Subject matter wherein the apparatus directs or controls the flow of water from the supply outlet and is combined with other apparatus that empties water from the sink or bath.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
672, for a supply outlet linked to a drain, overflow or trap.
- 674 And overflow:**  
This subclass is indented under subclass 673. Subject matter wherein the other apparatus includes means to prevent water from spilling over the edge of a sink or bath.
- 675 SUPPLY OUTLET FOR A SINK OR BATH:**  
This subclass is indented under the class definition. Subject matter comprising an apparatus in fluid communication with a source of water under pressure that directs or controls the flow of water from an opening.
- (1) Note. Included herein is a supply outlet combined with nominally claimed sink or bath structure.
- SEE OR SEARCH THIS CLASS, SUBCLASS:  
567+, for a hot-cold mixing faucet combined with means to spray the body of a user having intended use for a tub.  
584, for a tub having a particular construction or configuration details for a supply outlet.  
596+, for means to spray the body of a user including a room, stall or other structure framing an enclosure and having a drain.  
615+, for means to spray the body of a user.  
624, for a spray means adapted for a wash fountain.  
653, for a specifically detailed sink or bath having a drain opening and combined with water handling means.  
668+, for a supply outlet having a condition responsive means.  
671+, for a supply outlet combined with a drain, overflow or trap.
- SEE OR SEARCH CLASS:  
137, Fluid Handling, subclasses 615+ for an articulated nozzle or spout, 800 for a nozzle or spout provided with a removable closure member, 801 for a faucet or spout, and 861+ for a deflector type spout forming a branch outlet.  
181, Acoustics, subclasses 233+ for a fluid conducting motion silencer.  
251, Valves and Valve Actuation, subclasses 153+ for valves combined with inlet or outlet structure comprising a single flow path, especially 155 for a valve associated with a nozzle or spout, 340 for a valve actuator surrounding a nozzle, and 349 for an inlet or outlet element which serves as a valve actuator.
- 676 Mixing faucet:**  
This subclass is indented under subclass 675. Subject matter wherein the apparatus is in fluid communication with separate supplies of hot and cold water under pressure having a valve that controls the rate or the temperature, in a

range between the hot and cold water supply, of the flow from a common outlet.

**677 Having only one actuating means:**

This subclass is indented under subclass 676. Subject matter wherein the mixing faucet uses a single handle, lever, grip, grasp, knob or button to regulate the rate of or temperature of the flow from the common outlet.

**678 Faucet or spout:**

This subclass is indented under subclass 675. Subject matter wherein the apparatus controls the flow of liquid from a single source of liquid under pressure to the outlet or directs the flow in a jet or continuous stream from the outlet.

- (1) Note. This includes a spout having a valve such as those used in a tub and shower combination to close the spout and force the water into the shower head.

SEE OR SEARCH THIS CLASS, SUBCLASS:

567+, for a tub and shower combination having a spout with a valve.

**679 DRAIN, OVERFLOW OR TRAP FOR A SINK OR BATH:**

This subclass is indented under the class definition. Subject matter comprising an apparatus that empties water from, prevents water from spilling over the edge of or prevents sewer gas from flowing into a sink or bath to control the flow of fluid.

- (1) Note. Included herein is a drain, overflow or trap combined with nominally claimed sink or bath structure.

SEE OR SEARCH THIS CLASS, SUBCLASS:

378+, for an outlet valve in the flush tank.

584, for a tub having a particular construction or configuration details for a drain, overflow or trap.

613, for a drain in a shower stall, room or other structure framing an enclosure.

650+, for a specifically detailed sink or bath having a drain opening and combined with an overflow or trap.

668+, for a drain, overflow or trap having a condition responsive means.

671+, for a drain, overflow or trap combined with a supply outlet.

SEE OR SEARCH CLASS:

137, Fluid Handling, subclasses 247.41+ for U-shaped liquid trap seal, 362 for a floor drain and 577+ for a tank with a movable or adjustable outlet or overflow pipe.

285, Pipe Joints or Couplings, subclasses 134.1+ for a U-shaped fitting having two or more joints of a diverse type.

**680 Drain and overflow:**

This subclass is indented under subclass 679. Subject matter wherein the apparatus empties water from and prevents water from spilling over the edge of the sink or bath to control the flow of fluid.

- (1) Note. This includes a removable stopper and overflow apparatus which is used in the drain opening of a sink or bath.

SEE OR SEARCH THIS CLASS, SUBCLASS:

654, for a sink or bath attachment that fits into the drain of the sink or bath and is intended to allow liquid or solid disposal while the sink or bath is full.

**681 And trap:**

This subclass is indented under subclass 680. Subject matter wherein the apparatus includes means to prevent sewer gas from flowing into the sink or bath.

**682 With valve:**

This subclass is indented under subclass 680. Subject matter wherein the apparatus has within a means to open, close or modify a passage in fluid communication with the drain or overflow of the sink or bath to control the flow of fluid.

- (1) Note. A stopper is distinguished from a valve by being bodily removable from the sink or bath structure.

SEE OR SEARCH THIS CLASS, SUBCLASS:

286+, for a stopper or strainer.

668+, for a valve having a condition responsive means.

671+, for a drain valve combined with a supply outlet.

**SEE OR SEARCH CLASS:**

251, Valves and Valve Actuation, for a valve in general, subclasses 213+ for a mechanical movement actuator and especially subclasses 231+ a lever type mechanical movement actuator.

**683 Ell having fluid communication with the drain and overflow openings of a sink or bath:**

This subclass is indented under subclass 682. Subject matter wherein the apparatus is substantially L shaped with a horizontal branch in fluid communication with the drain and a vertical branch in fluid communication with the overflow of the sink or bath to control the flow of fluid.

**684 Pop-up drain valve:**

This subclass is indented under subclass 683. Subject matter wherein the apparatus has a seat in the drain opening of the horizontal branch and, a plug with movement perpendicular to the seat, axial to the seat, shiftable off the seat towards the the interior of the sink or bath to open and onto the seat to close to control the flow of fluid.

(1) Note. A plug fills the gap in a drain opening.

**685 Contacted by a rotating member:**

This subclass is indented under subclass 684. Subject matter wherein the plug is actuated by a body which turns about an axis to control the flow of fluid.

**686 Standpipe overflow:**

This subclass is indented under subclass 682. Subject matter wherein the apparatus is substantially L shaped with a horizontal branch in fluid communication with the drain of the sink or bath so that water can rise in a vertical branch, matching the level in the sink or bath, until it reaches the overflow opening in the vertical branch which bypasses the drain valve to prevent overflow in the sink or bath to control the flow of fluid.

**687 Bi-transit for drain of sink or bath:**

This subclass is indented under subclass 682. Subject matter wherein the apparatus is a hollow member with one open end that fits into and is operated to open and close the drain of the sink or bath while the other end has an opening that is substantially upward from the drain and yet below the rim of the sink or bath to prevent overflow by providing a path through the member to the drain of the sink or bath to control the flow of fluid.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

654, for a sink or bath attachment that fits into the drain of the sink or bath and is intended to allow liquid or solid disposal while the sink or bath is full.

680, for a portable device that fits into the drain of a sink or bath and is intended to prevent the sink or bath from overflowing.

**688 Drain valve:**

This subclass is indented under subclass 679. Subject matter wherein the apparatus has within a means to open, close or modify a passage in fluid communication with the drain of the sink or bath to control the flow of fluid.

(1) Note. A stopper is distinguished from a valve by being bodily removable from the sink or bath structure.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

671+, for a drain valve combined with a supply outlet.

682+, for a drain valve combined with an overflow.

**SEE OR SEARCH CLASS:**

251, Valves and Valve Actuation, for a valve in general, subclasses 213+ for a mechanical movement actuator and especially subclasses 231+ a lever type mechanical movement actuator.

**689 Pop-up:**

This subclass is indented under subclass 688. Subject matter wherein the apparatus has a seat in the drain opening and a plug with movement perpendicular to the seat, axial to the seat,

shiftable off the seat towards the interior of the sink or bath to open and onto the seat to close to control the flow of fluid.

- (1) Note. A plug fills the gap in a drain opening.

SEE OR SEARCH THIS CLASS, SUB-CLASS:  
684+, for a pop-up drain valve combined with an overflow.

**690 Contacted by rotatable member:**

This subclass is indented under subclass 689. Subject matter wherein the plug is actuated by a body which turns about an axis to control the flow of fluid.

- (1) Note. Included here is a cam which is an irregularly shaped disk or cylinder that imparts a rocking motion to the plug.
- (2) Note. Included here is a crankshaft having a crank arm which is offset and parallel to the axis of rotation of the crankshaft and actuates the plug when rotated by the crankshaft.

**691 Lever:**

This subclass is indented under subclass 690. Subject matter wherein the plug is actuated by a rotatable member having a fulcrum offset and rotating axis perpendicular to the plug's axis of movement; one end touching the plug and moving along or parallel to its axis; and the other end regulated by an actuating mechanism to control the flow of fluid.

- (1) Note. Also included is a bell crank which is a lever having its fulcrum at the apex of the angle formed by its two arms.

SEE OR SEARCH THIS CLASS, SUB-CLASS:  
686, for a plug actuated by a lever combined with an overflow.

**692 Having at least a semi-spherical fulcrum:**

This subclass is indented under subclass 691. Subject matter wherein the lever has at least a partially ball shaped structure at its pivot point to control the flow of fluid.

**693 Operating means in sink or bath:**

This subclass is indented under subclass 688. Subject matter wherein the apparatus has a valve that cooperates in a sealing relationship with the seat in the waste outlet in the basin and has an actuator within the basin to shift the valve between a closed and open position in the drain opening of the sink or bath to control the flow of fluid.

**694 Overflow opening attachment:**

This subclass is indented under subclass 679. Subject matter wherein the apparatus is connectable to the overflow opening of the sink or bath to control the flow of fluid.

SEE OR SEARCH THIS CLASS, SUB-CLASS:

- 255.01+, for means to block an overflow for use with an agitating obstruction remover.
- 255.07, for means to block an overflow for use with an obstruction remover that uses external water pressure.

**695 SUPPORT OR MOUNT FOR A SUPPLY, DRAIN, OVERFLOW OR TRAP MEANS:**

This subclass is indented under the class definition. Subject matter comprising a means to hold up or secure to a sink, bath or a static structure (e.g., the wall, floor or ceiling of a building) an apparatus in fluid communication with a source of water under pressure that directs or controls the flow of water from an opening into, empties water from, prevents water from spilling over the edge of or prevents sewer gas from flowing into the sink or bath.

SEE OR SEARCH CLASS:

- 248, Supports, appropriate subclasses for a general support, per se.
- 285, Pipe Joints or Couplings, subclass 46 for an escutcheon and 64 for a static building construction support for a pipe joint or coupling.

**696 FITTING OR MANIFOLD FOR A SINK OR BATH:**

This subclass is indented under the class definition. Subject matter comprising a part of a pipeline such as a coupling, elbow, tee union or reducer; or a part that may have many inlets,

outlets or connections close together for use with a sink or bath.

- (1) Note. A fitting is not a straight conduit or valve.

SEE OR SEARCH THIS CLASS, SUBCLASS:

679+, for a drain, overflow or trap.

SEE OR SEARCH CLASS:

285, Pipe Joints or Couplings, subclasses 125.1+ for means to provide a coupling for several lines, subclasses 134.1+ for a U-shaped fitting and subclasses 179+ for an elbow joint of general utility.

#### CROSS-REFERENCE ART COLLECTIONS

The patents in the following collections have been placed without regard to their original classification or to their claimed subject matter. These collections, therefore, are only examples of the art encompassed by the definition and a thorough search for a desired concept should include a search in the preceding subclasses. Do not place originals in cross-reference art collections.

#### **900 DECONTAMINATION SHOWER:**

This subclass is indented under the class definition. Subject matter comprising apparatus disclosed as having a chamber for a user to remove contaminated clothing which leads to another chamber having a spray for the user to remove, neutralize or destroy any harmful substance (e.g., a poisonous chemical or radioactive material).

#### **901 BOWL SKIRT OR TANK COVER:**

This subclass is indented under the class definition. Subject matter comprising an article disclosed as bordering the opening of and covering the outside of a closet bowl; or a covering for a flush tank or tank lid.

#### **902 TOILET TRAINING:**

This subclass is indented under the class definition. Subject matter comprising apparatus disclosed for use in teaching a user (e.g., a toddler) how to use a closet.

#### **903 SHOWER HEAD WITH MATERIAL DISPENSING:**

This subclass is indented under the class definition. Subject matter comprising a spray outlet having means to inject a substance into the spray's flow.

#### **904 SWIM-IN-PLACE POOL:**

This subclass is indented under the class definition. Subject matter comprising an open receptacle large enough and having circulating means capable of enabling a user to swim in the receptacle when the water flowing against the user is at such a rate as to prevent the user from making any progress relative to the receptacle.

#### **905 SQUAT BOWL:**

This subclass is indented under the class definition. Subject matter comprising a closet receptacle open at the top and adapted for use by a user sitting in a low or crouching position with the legs drawn up closely beneath or in front of the body of the user.

END