CLASS 4 BATHS, CLOSETS, SINKS, AND SPITTOONS

RESTROOM OR BATHROOM SELF-CLEANING SYSTEMS

FLUSH CLOSET, WASH RECEPTACLE, AND BATHTUB OR SHOWER

FLUSH CLOSET OR URINAL AND WASH RECEPTACLE

Wash receptacle water empties into toilet facility

DIAPER WASHING DEVICES

FLUSH CLOSET SEAT ASSIST TO RAISE USER

FLUSH CLOSET

. With toilet tissue holder

. With bedpan rinser

. With splash guard or water baffle

Urinals only

. Flush actuation automatically responsive to condition

. Periodic flush

. By radiant energy responsive means

. By electric condition responsive means

. Ventilated, i.e., noxious fume removal

. Folding type

. Pedal actuated flush

. With disinfectant means

. Vertical type

. Bowl type

. Folding type

. With automatic flush responsive means

. With indicator

. With disposable container

. Reduced gravity environment type

. With recirculating means

. Including specified filtering means

. With macerator

. Including additional treatment

. With holding tank

. And heater

. And valve for emptying

. Manual selection of the amount of flush

. Alternate unicyclic flush

. Plural flush valves

. . In axial alignment

. Tank and bowl with plural connections, one being pneumatic

. Low profile tank and bowl

. Seat actuated flush

. Float-controlled valve

. Pressure flush

. Normally empty tank

. Pressure tank

. With seat-actuated valve

. And siphon bowl

. And drain means

. With seat-actuated valve

. And drain means

. Plural receptacles

. Diverse

. Separate and distinct

. Overhead tank with bowl

. Siphon bowl

. Plural flush, preliminary or subsequent

. Including plural compartments in tank

. Ventilated, i.e., noxious fume removal

. Bowl

. Unitary with flush supply to bowl

. Unitary with discharge from bowl

. Trap or siphon

. Annular ventilator

. Tank only

. Pressure tank

. Float-released outlet valve

. Float outlet valve

. Free floating

. . With guide (e.g., a cage)

. Valve held open by flow

. . Dashpot-controlled outlet valve

. . Pneumatic or hydraulic adjustability

. . By air under pressure

. . With plural compartments

. . Single tank with divider

. . Pivotal compartment

. . With simultaneous common actuating means for supply and outlet valves

. . By fluid or electrical means

. . With outlet siphon

. . Including means to relieve trapped air

. . By releasing trapped air

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371 By raising trapped air
372 Including means to immerse
373 ...Pump starter
374 ...Jet starter
375 Including means to raise
376 ...Valve starter
377 ...By moving siphon
378 ...With outlet valve
379 ...With delay of valve closing
380 ...By pressure or suction
381 ...By float releasable latch
382 ....Tiltable or pivoted valve
383 ....With overflow through valve
384 .....Latched actuator
385 .....By varying weight releasable
386 .....By shifting weight
387 .....By flow-responsive element in
388 .....By retarding mechanism, e.g.,
389 .....With overflow through valve
390 .....With overflow through valve
391 .....Float connected or float type
392 .....Swinging
393 .....Pivoted
394 .....Connected to float
395 .....Float type
396 .....Free floating during flush
397 .....Having seating guide
398 .....Cage type
399 .....Valve moves relative to
400 .....Valve-attached seating
401 .....Plural static guides
402 .....Having liquid receptacle open
403 .....Hollow
404 .....Open at bottom
405 .....Actuator
406 .....Electrical
407 .....Pneumatic or hydraulic
408 .....Seat actuated
409 With overhead tank
410 Button type
411 Portion of linkage external
to tank
412 Including flexible linkage
element in tank (e.g., chain
or cord)
413 Including articulated rigid
linkage
414 Having stationary pivot
within tank
415 Water saver
416 With lining
417 With connector or seal
418 Enclosure or housing for
connector or seal
419 With support
420 .Bowl
420.1 With body-contacting nozzle
420.2 With heated bidet fluid
420.3 With bidet basin
420.4 With bidet nozzle
420.5 Integral with flush closet
421 Siphon discharge
422 With flush valve
423 With vacuum breaker
424 Extra trap or false trap
425 Siphonic jet at trap
426 With check valve
427 Overflow inhibitor
428 Configured outlet
429 Pan bowl
430 Distinct from bowl
431 Pump or suction-type discharge
432 With flush supply pump
433 Unitary with discharge pump
434 Valved discharge
435 With flush supply actuated by
valved discharge
436 By movement of seat or lid
437 Float control of fluid in
bowl
438 Pivoted valve
439 With additional valve (e.g.,
draft control)
440 Pan type
441 Pivoted valve
442 Pan type
443 .With seat
444 .Bidet basin for flush closet
445 .Bidet bowl with drain
446 .Nozzle with seat

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448 . Nozzle attachment
449 DRY CLOSETS
111.1 . With heating means
111.2 . And cyclic control means
111.3 . Having seat actuator or interlock
111.4 . Fluid fuel burner
111.5 . Electric
111.6 . And separate drying zone
450 . Bedpans
451 . Disposable type
452 . With liner
453 . With deodorizing means
454 . With urinal
455 . With drain means
456 . Cushioned
457 . Accessories
458 . Automobile
114.1 . Urinal
459 . Chemical
460 . Field
461 . Plural
462 . With urinal
463 . Separate receiver
464 . With magazine
465 . Furniture type
466 . Valved bowl
467 . Movable receiver
468 . Seat operated
469 . Lid or covering operated
470 . In lid
471 . Valved bowl
472 . Ventilated
473 . Seat, lid or covering operated
474 . Vault type
475 . Ventilated
476 . Enclosed receptacle type
477 . Ventilated
478 . With arm or back support
479 . Receptacle type
480 . In invalid
481 . Muffler for liquid
482 . Ventilated
483 . With seat
484 . Flexible material
485 . Seat subclosure
486 . Seat or lid operated
144.1 . Urinal
144.2 . Disposable, entirely or a portion
144.3 . Contacting and conforming to anatomy
144.4 . Spout only
487 OPEN-WATER BARRIER

488 POOL TYPE
489 . Plural separate receptacles
489 - . With cleaning means
490 - . With wave-making means
490 - . With water-jet means
490 - . With heating means
491 - . Combined or convertible
492 - . Adjustable bottom
493 - . Accessory
494 - . Wave quelling
495 - . Covering
496 - . Air inflatable or supported
497 - . Including storage area
497 - . On pool bottom
497 - . On a roll
498 - . Including securing means
499 - . Safety means
500 - . Divider
501 - . Construction details
502 - . Including water inlet or outlet means
503 - . And water level control
504 - . And pump
505 - . Gutter
506 - . With handhold (e.g., life rail)
507 - . Including weir
508 - . Shape

144 CONVERTIBLE CLASS-TYPE APPARATUS

HAIR WASHING MACHINE OR DEVICE OR ACCESSORY
516 - . Portable
517 - . Combined
518 - . With water supply means
519 - . Head or neck receiving or supporting sink
520 - . Shield or drain
521 - . Supported by body
522 - . With post-type support
523 - . Body-portion rest

VAPOR OR HEAT IN BATH (E.G., SAUNA, STEAM BATH, OR SUDATORIUM)
524 - . With additional means for washing
525 - . Collapsible
526 - . Flexible fabric supported by a folding frame
527 - . With body support means
528 - . Bed type
529 - . With head or back rest
530 - . Seat
531 - . Fixed
532 - . Conversion means

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Flexible covering

MEANS FOR APPLYING VAPOR OR HOT AIR DIRECTLY TO BODY OF USER

With means for covering a majority of the user's body

To the head or face

TUBS

With means for turning tub for aiding access

Means for agitating or circulating water in a tub

With condition response

By liquid flow

And aerating

By aerating

Jet detail

With heating of tub structure

Combined with diverse means

Couch or bed

Storage or support means

Cabinet

Pivoted tub

Dressing table

A complete and separate shower

Basin or sink

Relatively movable tub or basin

With user access means in side of the tub

Pivoted door

With movable closure

Flexible type

Convenience accessories

Means for handling user

Vertically and horizontally

Horizontally, only (e.g., lifts)

Supported by tub

Hydraulically operated

Vertically, only (e.g., lifts)

Support for user, static

For infant

Body type

Foot

Head or back

...Hand grip

...Mounted on tub, only

...Seat

...Supported by tub, only

...Protective liner or covering

...Mat type

...With antislip means

...In contact with tub bottom

...Particular construction or configuration details

...Flexible material (e.g., collapsible, etc.)

...For infant

...Supported by folding frame

...Inflatable

...With integral body support

...Seat

...Rim supply

...Means for securing tub in place

SHOWER (E.G. STALL, WITH WALLS, RECEPTOR, AND SPRAY)

Combined with diverse means

With heating means

Collapsible or expandable

Wall type

Plural spray heads

With self-contained water supply

And pump

With special feature for physically handicapped

Convenience accessories

Scrubber

Movable closure

Flexible type

Shield or guard means

Mounting or supporting means for movable closure

Support for user

Particular construction

Of receptor

Wall or panel

With self-contained water supply

Overhead-gravity feed

Supported by neck or shoulder of user

WASH RECEPTACLES

Emergency fountains

With human body support

Foot
CLASS 4 BATHS, CLOSETS, SINKS, AND SPITTOONS

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

Supply outlet valve linked to a drain, overflow or trap valve
Supply outlet and drain
And overflow

SUPPLY OUTLET FOR A SINK OR BATH
Mixing faucet
Having only one actuating means
Faucet or spout

DRAIN, OVERFLOW OR TRAP FOR A SINK OR BATH
Drain and overflow
And trap
With valve
Ell having fluid communication with the drain and overflow openings of a sink or bath
Pop-up drain valve
Contacted by a rotating member
Standpipe overflow
Bi-transit for drain of sink or bath
Lever
Having at least a semi-spherical fulcrum
Operating means in sink or bath
Overflow opening attachment

SUPPORT OR MOUNT FOR A SUPPLY, DRAIN, OVERFLOW OR TRAP MEANS FITTING OR MANIFOLD FOR A SINK OR BATH

VENTILATION
Railway car
House plumbing
Electric-motor pump
Water-motor pump
Water-jet pump
Bowl structure or vent valve
Seat structure
Roof outlet
Sewer
Disinfecting
Burner
With fluid filter

DISINFECTION
With screen
Dispensing to bowl
Combined with flusher

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225.1 .Dispensing to overflow of flush tank 249 FLUSH-VALVE OPERATORS
226.1 .Dispensing to or dispenser in flush pipe 250 .Seat operated
227.1 .Dispensing to water in flush tank 251.1 DRIP CATCHER
227.2 ...Float actuated 251.2 .For flush closet tank only
227.3 ...Valve 252.1 FLUSH CLOSET BOWL SUPPORT,
227.4 ...Water level actuated 252.2 COUPLING, SEAL OR FASTENER
227.5 ...Static dispenser (i.e., no moving part) 252.3 .Support for a wall hung closet bowl
227.6 ...Having a flush water dosing chamber 252.4 .Flange with aperture for fastener
227.7 .....With a siphon 252.5 .Having a seal
228.1 .Dispensing to air from closet 252.6 .Seal structure detail
229 .Chemical holder in seat 253 CLOSET-BOWL CLOSURES
230 .Chemical holder in lid 254 CLOSET HEAD, FOOT, AND BODY RESTS
231 .Chemical holder suspended in bowl 255.01 OBSTRUCTION REMOVER
232 .Chemical chamber formed in bowl 255.02 .Piston
233 .Seat and cover treating 255.03 .With one way valve
234 SEAT AND LID 255.04 .Connected to a source of external fluid under pressure
235 .Plural seats 255.05 .With force cup (e.g., a plunger)
236 .Hinges 255.06 .With flow control valve
237 SEAT 255.07 .With means to block or clear the overflow
238 .Subclosure, seat operated 255.08 .With head structure that grips drain opening or pipe
239 .Superposed 255.09 .With head structure that increases velocity or turbulence
240 .Hinges 255.11 .Force cup (e.g., a plunger)
241 .Counterbalanced or spring biased 255.12 .With one way valve
242.1 LID 256.1 DEBRIS CATCHER FOR A FLUSH CLOSET OR CLEAN OUT PLUG
243.1 MECHANISM POSITIONS COVER ON SEAT 258 SPITTOONS
243.2 .Tubular type cover 259 .Pocket
243.3 .Single continuous roll of flat covers 260 .Bar
244.1 COVER DISPENSER 261 .Disinfecting
244.2 .Continuous roll 262 .Flushing
244.3 .Pad mounted on seat 263 ..Dental
245.1 COVER FOR SEAT 264 ...Rotary member
245.2 .Tubular type 265 ..Hand pump
245.3 .Securing means 266 ..Flush valve and outlet valve
245.4 ..Adhesive 267 .Covered
245.5 ..Peripheral 268 ..Floor orifice
245.6 ..Specific material 269 ...Valved outlet
245.7 ..Plastic or rubber 270 ...Receptacle
245.8 ..Paper 271 ..Hand valve
245.9 ...Having dependent member in closet bowl 272 ..Pedal operated
246.1 OPENER OR CLOSER FOR A CLOSET SEAT OR LID 273 ...Two-part cover
246.2 .Fluid mechanism 274 ..Flexible material and holder
246.3 .Lever operated opener 275 .Floor orifice
246.4 ..Four bar link 276 ..Valved outlet
246.5 ...Using a seat or lid for a link 277 ..Receptacle
248 BUFFERS AND DASHPOTS

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CLASS 4 BATHS, CLOSETS, SINKS, AND SPITTOONS

DIG 11  OIL TOILET
DIG 12  AEROBIC (DECOMPOSING) TOILET
DIG 13  TOILET HAVING DEFORMABLE TRAP
DIG 14  PIPE STRAINERS
DIG 15  PRISON BATHROOMS
DIG 16  DEFORMABLE TOILET TRAPS
DIG 17  ELECTROLYTIC TOILETS
DIG 18  BATHROOM FIXTURE LINERS
DIG 19  LIQUID-SOLID SEPARATORS

CROSS-REFERENCE ART COLLECTIONS

900  DECONTAMINATION SHOWER
901  BOWL SKIRT OR TANK COVER
902  TOILET TRAINING
903  SHOWER HEAD WITH MATERIAL DISPENSING
904  SWIM-IN-PLACE POOL
905  SQUAT BOWL

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

DIGESTS

DIG 1  PLURAL CONNECTED FLOATS
DIG 2  DISAPPEARING BOWL
DIG 3  ELECTRIC FLUSHING
DIG 4  GARBAGE GRINDER
DIG 5  URINE GUARDS
DIG 6  HEATED SEATS
DIG 7  HOUSE PLUMBING FITTINGS
DIG 8  RUBBER SEATS
DIG 9  METHODS
DIG 10  WATER ADDITIVE OR SUBSTITUTE

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