1 PROCESSES OF DISPENSING
2 .Molten metal
3 CHECK CONTROL
4 GAS OR VAPOR DISPENSING
5 .With nongaseous material dispensing
6 .With cutter or punch
7 .Parallel connected, serially used
8 MOLTEN METAL DISPENSING
9 .With heating or cooling
10 .Heating
11 .Flow controllers or assists
12 ..Fluid pressure assist
13 ..Piston displacement
14 ..Closure
15 ...Movable about an axis
16 ....Perpendicular to flow
17 ...Reciprocating transverse to flow
18 ...Stopper operator structure beneath receptacle
19 ...Stopper operator structure above receptacle
20 .Gaseous fluid engages molten metal
21 .Submersible dipper or trap chamber
22 .Tilting receptacle
23 ..Teakettle type
24 .With subjacent flow guide
25 ..Unattached
26 CUTOFF OPERATED BY SELECTIVELY PRESET VOLUME OR RATE OF FLOW-RESPONSIVE MECHANISM
27 .With means to prevent change of setting during discharge
28 .Operating cycle including reset to starting position
29 .Moving cutoff operating element with variable initial position
30 ..Having plural revolutions
31 ...Plural dials
32 ..Cutoff by valve closing
33 .Cutoff by single trapped volume
34 .Cutoff set after discharge begins
35 WITH RECORDER, REGISTER, INDICATOR, SIGNAL OR EXHIBITOR
36 .Register with shutter
37 .Plural
38 ...Two or more volume devices
39 ..Register and signal
40 ..With common operating means
41 .Plural scale
42 .Recorder
43 ..With motion ratio adjusting means and/or relatively adjustable scale and pointer
44 ..With zero-setting mechanism
45 ..Operating cycle including reset to zero
46 ..With means to prevent zero setting during discharge
47 ..With means to prevent discharge prior to zero setting
48 .Totalizer for successive dispenser cycles
49 ..Varying cycles or quantities per cycle
50 ..Reciprocating (including oscillating) dispenser part
51 .Audible
52 .Flow and/or overflow type
53 .Position or extent of motion indicator
54 ..Selection from plural outlets, valves or traps
55 ..Comprising an adjustable stop or stops
56 ..Scale and pointer, with detents
57 ..Flexibly connected indicator and dispenser element
58 ..Common screw means for indicator element and dispenser part
59 ..Indicating element rigidly carried by movable dispenser element
60 ...Pivoted or rotary dispensing part
61 ...Slidable indicator element projecting from container
62 ....Scale or container
63 ..Float-level indicators
64 AUTOMATIC CONTROL
65 .Involving conveying conduit jacket and/or inert atmosphere (including vacuum) providing means
66 .Temperature responsive or soluble controller
67 .Constant weight, volume or pressure control by output
68 .Delivery from source controlled by quantity in discharging receiver
.By weight, volume or pressure of a second dispensed material
.57 By the weight of the material in the supply container
.58 Cutoff operated by rate of flow responsive mechanism
.59 Single complete revolution of controller element
.60 .Of dispensers with fluid pressure discharge assistance
.61 Float-controlled pressure liquid
.62 Motor control
.63 .Material level control
.64 Full and/or empty interlock
.65 Empty container cutoff
.66 .Float-operated flow controllers
.67 Plural
.68 For vent only
.69 INCLUDING TIMER
.639 For timing dispensing period
.640 Of beverage or beverage component dispenser
.641 Including electrical timing circuit
.642 Of discharge assistant
.643 Rotary
.644 And means for timing the period between dispensing cycles
.645 Of aerosol dispenser
.646 Including electrical timing circuit
.647 And mechanical timing element
.648 And battery power supply
.649 For aerosol dispenser
.650 For plant or animal feed dispenser
.651 For wash cycle ingredient dispenser
.652 Movably mounted ingredient container
.71 VOLUME OR RATE OF FLOW METERING
.72 With meter bypass, gas separation, antisyphon priming
.73 With hose pressure relief or maintenance
.74 HOSE OR OTHER MOVABLE DISCHARGE GUIDE INTERLOCKS AND INTERCONNECTIONS
.75 Switch or motor control and discharge controller actuator
.77 WEIGHING
.78 SIMULATIONS
.79 .Firearms
.80 WITH CUTTER AND/OR PUNCH
.81 To form dispensing opening in container
.82 With discharge assistant
.83 Mounted for relative motion
.84 ...With sleeve or rest for container cut
.85 ...For cutting plural openings
.86 ...With sleeve or rest for container cut
.87 ...With container-destroying means
.88 ...With sleeve or rest for container cut
.89 ...With nonfriction fit means to secure discharge guide to container
.90 ...Abutment for container interior
.91 ...Screw
.92 COLLAPSIBLE WALL-TYPE CONTAINER
.93 With additional article-holding means
.94 Plural container and/or compartment
.95 With wall-collapsing means
.96 With interconnected flow controller or closure operating means
.97 Plural types
.98 Winding and roller types
.99 Winding type
.100 With casing or support
.101 Roller type
.102 Plural roller
.103 Clamping type
.104 Twisting type
.105 With casing or support
.106 Combined
.107 Nonmetallic
.108 DRIP, LEAKAGE OR WASTE CATCHING OR DISPOSAL
.109 Return to main supply
.110 Valved
.111 With enclosing cover
.113 WITH ILLUMINATOR OR BURNER INKWELL
.114 With support (i.e., inkstand)
.115 Including nongravity feed to dip well
.116 Spillover type
CLASS 222 DISPENSING

580 ...Including discharge assistant supporting and movable with dip well
581 ...Diaphragm-type discharge assistant
582 ...Biased for resetting
583 ...Including dip well filled by immersion into supply
584 ...Tiltable to fill dip well
585 ...Barometric
586 ...Including base supporting removable inverted container
587 ...And valve or base-opened closure
588 ...Dip opening below peak level of supply
589 ...Including closure or valve for dip well outlet

129 PLURAL SOURCES, COMPARTMENT, CONTAINERS AND/OR SPACED JACKET

129.1 ...Cabinet-type dispenser for single mixed drinks
129.2 ...One ingredient operates dispensing means for another
129.3 ...With ingredient charge measuring
129.4 ...Plural measured charges in single drink
130 ...At least one nondispensing
131 ...Jacketed
132 ...Three or more diverse sources
133 ...Measured discharge from one and indeterminate flow from another
134 ...Interconnected discharge volume varying means
135 ...With discharge assistant for each source
136 ...Single, operable on material from all sources
137 ...Unitary reciprocating
138 ...Two or more rotary or swinging
139 ...Co-axial
140 ....Vertical axis
141 .....Single plane
142 ...Parallel axes
142.1 ...Hand manipulable shaker type
142.2 ...Selection by relative movement between containers or containers and casing
142.3 ...Containers removable from base or casing

142.4 ...Selection as a result of container shape, configuration or arrangement
142.5 ...Container within container concentrically arranged
142.6 ...With common selector
142.7 ...Interconnected relatively movable closures
142.8 ...Bodily slidable closure
142.9 ...Axially rotary closure for axial outlets

143 ...Packing or stacking arrangements
144 ...Rotatably mounted assembly
144.5 ...With selecting means
145.1 ...With common discharge
145.2 ...Including discharge path cleaning
145.3 ...Dispensed product retains identity of individual material (e.g., striped toothpaste)

145.4 ...Movable material discharge guide
145.5 ...Having mixing chamber
145.6 ...Including mixing means
145.7 ...Having variable flow control
145.8 ...For common path

WITH HEATING OR COOLING MEANS

146.1
146.2 ...Heating only
146.3 ...Having an aerosol
146.4 ...By steam
146.5 ...By electrical energy
146.6 ...Cooling only

WITH REFILL PREVENTING MEANS

WITH CLEANING MEANS

150 ...Operated by resilient container walls
151 ...Extending inwardly through container outlet

WITH CONVEYING CONDUIT JACKET AND/OR INERT ATMOSPHERE (INCLUDING VACUUM) PROVIDING MEANS

153.01 ...With lock or fastening seal
153.02 ...Plural
153.03 ...Lock actuated by key or tool
153.04 ...Lock operation dependent upon dispenser position
153.05 ...Single-use fastening seal
153.06 ...Frangible
153.07 ...Pull tab
153.08 ...Cord
153.09 ...Inhibiting disassembly

June 2011
CLASS 222 DISPENSING

153.1 . . .Overcap 615 . . .With variable transmission
153.11 . . .For a fluid pressure discharge 616 . . .With clutch
assistant 617 . . .Fluid flow discharge
153.12 . . .Maintain dispenser in open 618 . . .Plural ground wheel driven
position 619 . . .Ground wheel driven vibrator
153.13 . . .Inhibiting actuation of 620 . . .Rotary motion of ground wheel
discharge assistant or jarring means
to reciprocating, oscillating,
controller or closure or jarring means
154 . INSPECTION DEVICES
155 . External gauge tubes 621 . . .Fluid pump
156 . Sight openings 622 . . .Endless conveyer
157 . . .Graduated for level 623 . . .Ground wheel driven rotary
determination 624 . . .With adjustable discharge
158 . . .Graduated transparent container controller
or trap 625 . . .Sliding gate or shutter
159 . . .Transparent flow-line section 626 . . .Motor operated dispensing means
160 . MOVABLY MOUNTED SUPPLY CONTAINER 627 . . .Power take off
161 . . .Vibratory (i.e., for agitation 628 . . .Manually actuated fluid pump
of container contents) 179 . . .With pedal-controlled discharge
162 . . .Moving relatively to trap, 629 . . .Removable for discharge
impeller or valve to cause 180 . . .Bracket or suspension supported
discharge 181 . . .For bottom discharge
163 . . .Adjustable relatively to 181.1 . . .For bottom discharge
discharge assistant to vary 181.2 . . .Suspension supported
the discharge volume 181.3 . . .Supported on vertical wall by
164 . . .Tiltable 182 . . .Enclosing cover for actuating
165 . . .For refilling or changing 183 . . .Jacketed
cartridges or containers 184 . . .Extended sidewall base
166 . . .For gravity discharge 185 . . .For bottom discharge
167 . . .Rotatable 185.1 . . .Supported on horizontal
168 . . .Vertical axis 186 . . .Foot piece or rest
168.5 . . .Circumferentially arranged 187 . . .WITH WICK OR ABSORBENT MATERIAL
measuring or trap chambers FEED
169 . . .Peripheral discharge 188 . WITH FLUID TRAP SEAL FOR INLETS
170 . . .With trap chambers OR OUTLETS (E.G., VENTS)
171 . . .With sleeve-type discharge 189.01 . WITH FLAME ARRESTER
controller 189.02 . WITH SIFTER
172 . . .With annular outlet 189.03 . Integral with container
173 . . .WITH CASING OR SUPPORT 189.04 . Plural
174 . . .Pole or extension 189.05 . Including moving mechanism
175 . . .Body carried and/or operated 189.06 . WITH FILTER (E.G., STRAINER)
type 189.07 . Portable drainer
608 . . .Ambulant 189.08 . Plural
609 . . .With assembly or disassembly 189.09 . Associated with vent passage
feature 189.1 . Internally extended outlet pipe
610 . . .Dispensing means detachably (e.g., diptube)
carried upon vehicle 189.11 . With discharge assistant
611.1 . . .With guide or guide line marker 189.12 . With discharge assistant
611.2 . . .Mortar applying machine 189.13 . With discharge assistant
612 . . .With height adjustment 189.14 . With discharge assistant
613 . . .Dispensing means driven or 189.15 . With discharge assistant
controlled by surface contact 189.16 . With discharge assistant
WITH MATERIAL TREATMENT OR CONDITIONING MEANS

WITH TOOL OR IMPLEMENT HANDLE COMBINED

FLUID FLOW DISCHARGE

Fluid flow generated by manually actuated working member

Flexible working member

Bellows or bulb

Telescoping supply container

Pressurized aerosol container

From movable trap chamber

Open blast

WITH GAS AGITATION

JARRING AND/OR VIBRATING

Hand manipulable shaker type

Movable outlet element

Pattern-type outlet with hole clearers

Caged outlet element

Guided or restrained internal element

Movable or conveyer-type trap chamber

Single outlet bounded by plural vibrating members

Bottom forming member reciprocable (including oscillatable)

Member reciprocable (including oscillatable) transversely of material flow

Discharge rotor is actuator for vibratable wall

Supply container wall flexing

Flexible wall

SIPHON COMBINED WITH DISCHARGE ASSISTANT

NONGRAVITY FEED TO TRAP OF VACUUM, GRAVITY, OR MANUAL REMOVAL TYPE

RESONANT WALL

Supply container delivering to receiving chamber

Fluid pressure generating pump or pulsator and/or removable flexible wall closures

With container handle or handgrip

Internally extending outlet pipe

With flow controllers or closures

Resilient wall actuated

Wall deflecting means

Nonmetallic

AGITATOR AND/OR EJECTOR OPERATING ON MATERIAL IN EITHER (1) CONVEYER TYPE DISCHARGE ASSISTANTS HAVING TRAP CHAMBERS OR TRANSVERSE GROOVES, OR (2) MOVABLE TRAP CHAMBERS

Mounted on or in conveyer or movable trap chamber

Radially movable ejector in rotary conveyer or trap chamber

Double-ended ejector

Meshing conveyer trap or groove and ejector rotor

Cam-operated agitator or ejector

Pivoted ejector

With pivoted striker

Ball or roller form agitator or ejector

Resilient ejector

AGITATOR FOLLOWED BY DISCHARGE ASSISTANT AND/OR INTERCONNECTED DISCHARGE CONTROLLER

Three or more in series

Flexible or pivoted agitator carried by assistant or controller movable about an axis

Axially aligned, with axially rotary and longitudinally movement

Biasing means constitutes agitator

Free engagement-type connection

Connection through eccentric carried by rotary assistant or controller

One rotary and one reciprocating (including oscillating)

Reciprocating, nonpivoted

Rotary agitator

All rotary

Relatively rotatable rings and/or plates

Parallel axes

Coaxial

Helix or vane agitator and terminal element

Agitator and terminal screw, helix, or vane

Agitator rigidly mounted on succeeding device

June 2011
CLASS 222 DISPENSING

222 - 6

June 2011

All reciprocating (including oscillating)

Relatively movable in parallel planes, nonpivoted

Pivoted and nonpivoted reciprocating elements

Reciprocable axially of outlet

Pivoted only

Unitary

FLOATING PISTON WITH PLURAL OR ALTERNATE DISCHARGE

With discharge volume varying means

WITH DISCHARGE ASSISTANT (E.G., IMPELLER, PUMP, CONVEYER, MOVABLE TRAP CHAMBER, ETC.)

Plural

With material-operated differential piston

Three or more in series

Pumps only

Follower combined with casing enclosed impeller

Interconnected with movable nozzle

Utilizing fluid pressure and/or motor

Follower and impeller coaxial or parallel and interconnected

Interchangeable, removable or selectively usable discharge assistant or element thereof

Reversible

Adjustable deflector for conveyer-type discharge assistant

Retractable projections

Interconnected radially movable adjusting means for plural rotor projection or traps

Axially adjustable

Disk with axially projecting pins

Cup rotor with horizontal axis

Groove or trap rotor slidable through discharge channel

With channel blocking means

Nonrotary sleeve

Rose washer bearing

Material passage parallel to axis of rotation

Groove or trap blocking means

Axial pocket trap

Movable or conveyer-type trap chamber with capacity varying means

Single inlet-outlet, adjustable bottom
...Wall with straight line movements

308 ....Screw adjusting means
309 ..Adjustable stroke pump piston, pulsator or follower
310 ..With discharge controller
311 ....Rotor with discharge controller
312 ....Discharge passage between drum-type rotor and controller
313 .....Biased controller
314 .....Reciprocating nonpivoted controller
315 ....Cup rotor with horizontal axis
316 ....Sectional discharge controller
317 ....On container side of rotor
318 .With bypass or return to supply
319 .Displacement type
320 .With movable nozzle interconnected therewith
321.1 ..With material supply container and discharge assistant casing
321.2 ...With precompression
321.3 ...With antileak or antisiphon means
321.4 ...With plural-point inlet to casing
321.5 ...Inlet trap (e.g., sump)
321.6 ...Aligned discharge assistant, actuator, container and nozzle interconnected therewith
321.7 ...Container-mounted pump
321.8 ....With relatively movable actuator
321.9 ....Pump casing within supply container
322 ..Movable element actuator projection through outlet
323 .With container handle or handgrip
324 ..With material supply container and discharge assistant casing
325 .Insertable cartridge or removable container
326 ..With follower
327 ...Part of cartridge or removable container
328 ..With material discharge guide on container side of discharge assistant
329 ..Removable or movable depending cups for rotors
330 ..With plural material outlets
331 ..Of different types
332 .With vent passage for movable trap chamber
333 .Motor operated
334 ..Fluid motor
335 .Actuated by pressure of or suction on material to be dispensed
336 .With biasing means for discharge assistant and/or its casing
337 ..Joint sealing bias only
338 ...Movable encasing wall
339 ..For oscillating discharge assistant
340 ..For reciprocating piston on follower-type impeller
341 ...Biasing means within material chamber or passage
342 .With scraper or wiper for or carried by discharge assistant
343 .With retractable projections
344 .Movable or conveyer-type trap chamber
345 ...With striking or clearing means
346 ...Not part of the supply container outlet
347 ...Plural and/or interconnected with gate at point of trap reentry to supply
348 ...Sectional
349 ...Yielding
350 ....Pivoted
351 ....Reciprocating
352 ....Brush
353 ..Barometric or angle of repose
354 ...With relatively movable cutoff carried by trap chamber
355 ...With cutoff interconnected with trap chamber for operation
356 ..Dipping trap chamber, nonrotary, nonendless belt
357 ...Compound movement
358 ...Oscillating
359 ..With relatively movable actuator
360 ...Intermittent rotary
361 ..Reciprocating (including oscillating) conveyer-type trap chamber
362 ...Oscillating
363 ....Single inlet-outlet
364 .....Pivot lying in chamber rim
365 ...Plural concentric enlargements on stem
366 ...Single inlet-outlet
CLASS 222 DISPENSING

367.. Rotary conveyer-type trap
   chamber
368...Single inlet-outlet
369....Scoop type
370...Axial inlet and outlet
371..Endless belt carried
372..With material supply container
   and discharge assistant with
   casing (e.g., supply container
   and pump)
373..Fluid pressure discharge
374...With antileak or antisiphon
   means or full-stroke mechanism
375...Inlet trap (e.g., sump)
376...Aligned discharge assistant,
   actuator, container and nozzle
377...Telescopic outlet and/or
   discharge-assistant casing
378...Valve outlet
379...Movable discharge assistant
   casing
380...Internally extending outlet
   pipe
381..Container-mounted pump
382...Rotary pump
383.1..Movable material discharge
   guide
384...With piston holding means
385...Pump or pulsator casing within
   supply container
386...Container with follower
386.5..Nonrigid follower
387...Valved outlet, movable
   discharge guide and/or gas
   vent
388...With side wall filling opening
389..Fluid pressure actuated
390...Screw actuated
391..Intermittent grip-type actuator
392...Ribbon-type follower and/or
   stand actuator
393..Scoop type
394..Fluid pressure
395..Liquid pressure
396...With pressure limiting means
397...With pressure fluid relieving
   means
398..Telescopic container and/or
   outlet
399..With gas pressure supplying
   reservoir
400.5..Simultaneously operative
   material discharge valve and
   pump or pulsator operating
   member
400.7..Unitary mounting for fluid
   pressure inlet and material
   outlet
400.8...With pump or pulsator
401..Container-mounted fluid
   pressure generating pump or
   pulsator
402...With piston or pulsator
   holding means
402.1..Valve actuated by nozzle or
   through valve outlet
402.11...With actuation disabling means
402.12...With discharge orifice
   contamination guard
402.13...With container end overcap
   having actuator
402.14...With means to hold valve open
402.15...With container-carried
   actuating lever
402.16...With bypass for filling or
   charging
402.17...With external selector of
   flowpath
402.18...Separate inlets for gas and
   material in duct to valve
402.19...Alternative flowpath to valve
   when inverted
402.2...Pressure lock trap chamber
402.21...Tilting nozzle
402.22...Nozzle inner end valve headed
402.23...Valve stem in nozzle
402.24...Nozzle sliding in or flexing
   seal ring
402.25...Rod actuator pushed through
   valve outlet
403..Film accumulating type
404..Compound motions
405..Discharge of material from top
   of supply
406..Deformable discharging elements
407..Biased
408..Conveyor type with deflector
408.5..Agitator rigidly mounted on
   movable closure
409..Reciprocating (including
   oscillating)
410..Rotary
411..Central discharge
412..Helically arranged projections
   (e.g., screws)
413 ...Screw with terminal outlet only
414 ...Peripheral surface material contact
415 .Endless belt
416 **SIPHON**
420 **DROP FORMERS**
421 ..Grooved closure and/or container neck or outlet
422 .With valve
423 **WITH FILM ACCUMULATING MATERIAL REMOVERS**
424 **WITH MATERIAL RETURN TO SUPPLY**
424.5 **SUPPLY CONTAINERS WITH TRAPS**
425 ..With trap chamber cutoffs
426 ...Plural traps, nonserial
427 ...Single rotary cutoff member
428 ...Interconnected discharge controllers
429 ....For simultaneous discharge
430 ...Of different capacities
431 ..With plural discharge
432 ...Plural level discharge volume varying
433 ....Independent discharge controllers
434 ..With discharge volume varying means
435 ....With means to prevent adjustment during discharge
436 ...Trap chambers in series
437 ...Barometric or angle of repose
438 ...With means to change trap chamber volume
439 ....Movable cutoff of cutoff seat carrying elements
440 ....Having straight-line motion
441 ...With container handle or handgrip
442 ...With vent passage for trap adjustment
443 ...With bypass or free-flow adjustment
444 ...Single inflow-outflow trap passage
445 ...Nonrigidly interconnected cutoffs
446 ...Free engaging element carried by one cutoff
447 ...Both reciprocating, nonpivoted
448 ...With relatively movable actuator
449 ...With biasing means
450 ...For both inlet and outlet
451 ...Rigidly interconnected or unitary cutoffs
452 ....Rotary and/or pivoted only
453 ....Axially slideable only
454 .With tiltable container trap only
455 ..Supplementary trap
456 ..Single discharge passage forming trap
457 .Barometric or angle of repose trap chamber
457.5 **HAND MANIPULABLE SHAKER WITH REVERSE OUTLET PASSAGE**
459 **STATIONARY AGITATOR**
460 **FUNNEL-TYPE OUTLET**
461 .Movably interconnected
462 .Integral
464 **ROCKABLE OR WEIGHTED INTERNALLY EXTENDING OUTLET PIPE**
464.1 .Porous or having plural apertures
464.2 .Movable or having plural outlets
464.3 .Movable
464.4 .Weighted
464.5 .Telescopic
464.6 ..Float
464.7 .Including sump
465 **WITH CONTAINER HANDLE OR HANDGRIPS**
466 .Plural handles
467 ..Detachable
468 .Vent in handle
469 .Movable handle interconnected with flow controller or closure
470 .Handle and actuator for flow controller or closure juxtaposed for one handed manipulation
471 ..Nonpivoted actuator reciprocable lengthwise of handle
472 ..Pivoted actuator
473 ...On handle
474 ...Generally lengthwise of handle
475 .Handle as spout, spout holder or guard
476 .Handle and spout for hot liquid decanters (e.g., coffee servers)
477 **SPACED, ALTERNATELY SEATED FLOW CONTROLLERS OR CLOSURES FOR SINGLE OUTLET**
477.1 **RETARDED OR DELAYED ACTION FLOW CONTROLLERS OR CLOSURES**
WITH PLURAL OPENINGS OR DISCHARGE GUIDES

478  .Coterminous (barometric)
479  .Hand-manipulable shaker, diverse-type openings (e.g., dredge top)
480  .Having flow controllers or closures
481  ..With movable flexible or remotely connected vent pipes
482  ..Plural and/or single for plural openings
483  ...Interlocked controllers and/or closures
484  ...Interconnected for operation and/or integral
485  ....For plural dispensing outlets
486  ......Variable number exposed and/or variably opened
487  ....Nonrigidly interconnected
488  ..For single passage into which plural passages merge
489  ...Screw-type flow controller or closure
490  SLITTED RESILIENT DIAPHRAGM OR NIPPLE
491  OUTLET ELEMENT OPERATED BY PRESSURE OF CONTENTS
492  ..Axially slidable tube, sleeve, or apertured cap
493  ..Axial discharge
494  ..Spring form, resilient or compressible flow controller or closure
495  ..Reciprocable, nonpivoted
496  ..With biasing means
497  ...With additional means to hold against motion
498  SNAP-ACTING OUTLET ELEMENT
499  ..Axially movable tube, sleeve, or apertured cap
500  GRAVITY OR INERTIA OPERATED MOVABLE OUTLET ELEMENTS
501  MOVABLE OUTLET ELEMENT ACTUATOR PROJECTING THROUGH DISCHARGE GUIDE
502  SECTIONAL FLOW CONTROLLER OR CLOSURE
503  ..Interconnected for relative motion
504  MOTOR OPERATED OUTLET ELEMENT
505  WITH RELATIVELY MOVABLE ACTUATOR FOR OUTLET ELEMENT
506  .Plural flow controllers or closures

507  .Annular, outlet surrounding actuator
508  .For swingable elements in receptacle interior
509  .For nonrotary outlet element reciprocable axially of discharge opening

OUTLET ELEMENT IN ONE WALL, ROD ACTUATOR THROUGH CONTAINER INTERIOR AND ANOTHER WALL WITH RESILIENT BIASING MEANS FOR OUTLET ELEMENT
510  .Joint sealing bias only
511  .For movable tubes, sleeves, or apertured caps
512  ..Axially slidable only
513  .For elements having plural, diverse motions
514  .For rotary elements
515  .For pivoted and swingable elements
516  .For elements reciprocable axially of discharge opening

AXIALLY ROTARY AND LONGITUDEALLY MOVABLE TUBES, SLEEVES, OR APERTURED CAPS
517  .Axial discharge
518  ..Axial stationary closure plug

AXIALLY SLIDABLE TUBES, SLEEVES, OR APERTURED CAPS
519  .Sectional, telescoping
520  .With telescopic guide pin
521  .Axial discharge

MOVABLE MATERIAL DISCHARGE GUIDE
522  .Foldable, bendable, collapsible or flexible
523  ..Closure type
524  ..With flow controller or closure
525  ..Nonuse securing means
526  .Closure type
527  ..With additional flow controller, closure or seal
528  .Swingable
529  ..Into container recess
530  ..From container interior
531  ..With flow controller or closure
532  ..With flow controller or closure

NONUSE HOUSING OR SECURING MEANS FOR DISCHARGE GUIDES
533  .Reversible to extend into or out of container
534  OUTLET SEATED IN CONTAINER RECESS
535  WITH FRANIGIBLE CLOSURE FOR OUTLET
536  ..Into container recess
537  ..From container interior
538  ..With flow controller or closure
539  ..With flow controller or closure
540  ..Reversible to extend into or out of container
541.2 With cutting or punching or with cutter or puncher accommodating means
541.3 Closure or closure portion broken by pressure of container content
541.4 ...About line or point of weakness
541.5 Having reusable closure
541.6 About line or point of weakness
541.7 ...Adapted for engagement with special tool (e.g., slotted key)
541.8 ...Tool serves as closure
541.9 ...With integral gripping means (e.g., pull tab)
542 WITH PACKING-TYPE SEAL FOR OUTLET
543 WITH SINGLE STRAND, CORD OR WIRE CONNECTOR FOR REMOVABLE OUTLET ELEMENTS
544 WITH FLOW CONTROLLER OR CLOSURE
545 ...Plural and/or carried by separably attached element
546 ...Cap carried axial plug
547 ...With interior material guide or restrictor
548 ...Rotary, axially
549 ...With axial longitudinal motion
550 ...And additional pivotal motion
551 ...Nonapertured screw cap
552 ...Screw plug or disc
553 ...Apertured sleeve or cap, nonaxial discharge
554 ...Plug
555 ...Between fixed plates or flanges
556 ...Pivoted
557 ...Pivot axis parallel to axis of outlet opening
558 ...Bail type
559 ...Reciprocatory
560 ...Arcuate path
561 ...Between fixed plates or flanges
562 ...Cap
563 ...Plug
564 WITH INTERIOR MATERIAL GUIDE OR RESTRICTOR
565 SIFTER, SPRINKLER OR PLURAL OPENING PATTERNS
566 NOZZLES, SPOUTS AND POURING DEVICES
567 ...With separable attaching means
568 ...Screw
569 ...Abutment for container interior
570 ...Rim mounted, interengaging groove and bead or flange
571 ...Antidrip

FOREIGN ART COLLECTIONS
FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

DIGESTS
DIG 1 XEROGRAPHY

June 2011