## U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1901
NOVEMBER 2, 2010
PROJECT C7335
The following classification changes will be effected by this order:

|  | Class | $\underline{\text { Subclass }}$ | Ex'r <br> Search <br> Room <br> Abolished: | 422 |
| :--- | :--- | :--- | :--- | :--- |

The following classes are also impacted by this order:
$48,53,73,196,204,206,208,252,356,424,427,431,435,436,454,502,506,530,606$

This order includes the following:
A. CLASSIFICATION MANUAL CHANGES
B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES
C. CHANGES TO THE USPC-TO-IPC CONCORDANCE
D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

## CLASSIFICATION ORDER 1901

NOVEMBER 02, 2010

## PROJECT C7335

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    container
    9
10
1 PROCESS DISINFECTING, PRESERVING, 26
DEODORIZING, OR STERILIZING
2 .Step of warning or decreasing
hazard of process
. Process control in response to
analysis
.A gas is substance acted upon
.Deodorizing
.Affecting structure, article,
etc., submerged in marine
environment
.Maintaining environment
nondestructive to metal
..Using protective article (e.g.,
antitarnish fabric, etc.)
..Using gaseous preservative,
preservative added to gaseous
phase of environment, or
maintaining gaseous phase
nondestructive
...Manipulating gaseous
environment for preservative
purpose
...Steam environment
. Aqueous acid environment
(i.e.,pH less than or equal to
4.1)
..Aqueous alkali environment
(i.e., pH greater than or
equal to 8.4)
..Essentially pure water 46
environment
...Using organic compound having
phosphorus
...Using organic nitrogen
compound other than ammonium
salt
...Using organic carboxylic acid
or salt thereof
...Using inorganic silicon or
phosphorus compound
...Using heavy metal or compound
thereof 52
51
.Using sonic or ultrasonic energy
.Using microwave energy
.Using direct contact with
400
electrical or electromagnetic
radiation
..In atmosphere other than air
..Ultraviolet
. Including additional step of
preventing damage to sealed

| PROCESS DISINFECTING, PRESERVING, DEODORIZING, OR STERILIZING |  |
| :---: | :---: |
| .Step of warning or decreasing hazard of process | 27 |
| .Process control in response to analysis | 28 |
| .A gas is substance acted upon .Deodorizing | 29 |
| .Affecting structure, article, etc., submerged in marine environment | 31 |

.Maintaining environment nondestructive to metal323334
...Using inorganic silicon or phosphorus compound
...Using heavy metal or compound thereof
.Using direct contact steam to disinfect or sterilize
..And additional disinfecting or sterilizing agent
.Using disinfecting or sterilizing substance
..In situ generation of agent other than aldehyde or glycol
..And removing the agent by chemical reaction or sorption
..And recovering or reusing the agent
..Treating bulk material
..With positive pressure or vacuum
..Using alkylene oxide
..Using cyanide
..Using aldehyde
..Using halogen or halogencontaining compound
.Using fluent heat transfer medium other than air
. By sudden release of pressure
. Process of storage or protection
. Of liquid
...By preventing evaporation
....Of water
BLOOD TREATING DEVICE FOR TRANSFUSIBLE BLOOD
. Oxygenator
..Including integral heatexchange means
..Bubble or foam producing
. .Membrane
INCLUDING MEANS FACILITATING PART REPLACEMENT OR REPAIR OTHER THAN SOLID, EXTENDED SURFACE, FLUID CONTACT MEANS
ANALYZER, STRUCTURED INDICATOR, OR MANIPULATIVE LABORATORY DEVICE
. Calorimeter
. Chemiluminescent
. Corrosion tester
.Flame ionization detector
.Structured visual or optical indicator, per se
..In a holder or container
...Structure to facilitate analysis of the results
....Read by automated means
.....Registration of the structure within the analyzer

| 405 | . Tubular | 73 | ..With coagulometer for |
| :---: | :---: | :---: | :---: |
| 406 | . Including a swab |  | agglutination, clotting, or |
| 407 | .Well plate |  | prothrombin, or for particle |
| 408 | ...Structure for contacting the sample with the reagent |  | (e.g., cell, etc.) counting, or volume or characteristics |
| 409 | ....Envelope, packet or sleeve (e.g., for fecal occult | 74 | determination <br> ..Dairy tester |
|  | sample, etc.) | 75 | ..Including titrator |
| 410 | .Lancet (e.g., for finger | 76 | ...Conductiometric type |
|  | prick, etc.) | 77 | ....With integrating or |
| 411 | . Swab |  | differentiating means |
| 412 | . Device using capillary action | 78 | ..Including means for pyrolysis, |
| 413 | ....Device having frangible compartment | 79 | combustion, or oxidation <br> ...Biological, chemical, or total |
| 414 | ...Device having torturous path |  | oxygen demand (i.e., BOD, COD, |
| 415 | ..Including centrifuge |  | TOD) |
| 416 | ....Including means for | 80 | ...And means directly analyzing evolved gas |
|  | gaseous fluid | 81 | . Automated system with sample |
| 417 | ....Including channel, valve or chamber | 82 | fluid pressure transport means <br> ...And means segmenting fluid |
| 418 | ....Wiping means to acquire solid test substance | 82.01 | material <br> ..Measuring electrical property |
| 419 | ..Acquisition of liquid sample | 82.02 | ...Resistance or conductivity |
| 420 | ..Having reagent in absorbent or bibulous substrate | $\begin{aligned} & 82.03 \\ & 82.04 \end{aligned}$ | ...Ion selective electrode <br> ....Dissolved gas |
| 421 | ...Plural layers | 82.05 | ..Measuring optical property by |
| 422 | . . .Filtering |  | using ultraviolet, infrared, |
| 423 | ....Spreading |  | or visible light |
| 424 | ...Support layer | 82.06 | ...Optode or optrode |
| 425 | . Having coated reagent | 82.07 | ....Fluorescence |
| 426 | ...Plural layers | 82.08 | . . Fluorescence |
| 427 | ..Filtering layer | 82.09 | ...Absorbance or transmittance |
| 428 | .Spreading layer | 82.11 | . . Waveguides |
| 429 | ..Support layer | 82.12 | ..Measuring temperature |
| 430 | . Test package or kit | 82.13 | . Measuring pressure |
| 62 | .Automatic analytical monitor and control of industrial process |  | .Means for analyzing gas sample <br> ..Breath tester |
| 63 | . Sample mechanical transport means in or for automated analytical system | 85 86 | ...Based on color change <br> ..Including means reacting gas with color indicator |
| 64 | ..Means is turntable (circular) | 87 | ...Strip indicator |
| 65 | . Means is conveyor and rack | 88 | .. Including means for adsorbing |
| 66 | ..Means is moving tape or band |  | or absorbing gas into or onto |
| 67 | ..With specific analytical program control means | 89 | liquid or solid media <br> ...Gas chromatography |
| 68.1 | .Means for analyzing liquid or solid sample | $\begin{aligned} & 90 \\ & 91 \end{aligned}$ | ...With conductiometric detector <br> ...With photometric detector |
| 69 | ..Sorption testing | 92 | . With volumetric detector |
| 70 | ...Liquid chromatography |  |  |
| 71 | ...With radioactive material |  |  |
| 72 | ..Including centrifuge |  |  |


| 93 | .. Including means dividing sample stream into plural parallel segments having diverse treating means and the analytical result compared or combined | $\begin{aligned} & 529 \\ & 530 \\ & 531 \\ & 532 \\ & 533 \end{aligned}$ |
| :---: | :---: | :---: |
| 94 | . Combustible gas detector |  |
| 95 | . .With thermoelectric detector | 534 |
| 96 | ....Wheatstone bridge | 535 |
| 97 | .....With specific coating on bridge element | 536 537 |
| 98 | ..Analysis based on electrical measurement | 538 539 |
| 500 | .Miscellaneous laboratory apparatus and elements, per se | 540 |
| 501 | ..Volumetric fluid transfer means, e.g., pipette, pipettor, etc.) | 541 542 |
| 502 | .Micro-fluidic device | 543 |
| 503 | ...Plate design or structure | 544 |
| 504 | . .Liquid moving means | 545 |
| 505 | . . . . . Pump |  |
| 506 | .....Centrifugal force | 546 |
| 507 | .....Capillary action |  |
| 508 | ....Spray tip | 547 |
| 509 | ...Automated system | 548 |
| 510 | ..Including washing means | 549 |
| 511 | ....Including tip attachment or removal | 550 |
| 512 | ...Including seal penetration means | 551 552 |
| 513 | ...Including filter |  |
| 514 | ...Mixing of diverse substances within pipette | 553 554 |
| 515 | ...Sequential multidispensing from a single tip | 555 556 |
| 516 | . Variable volume | 557 |
| 517 | ..Including liquid level sensor | 558 |
| 518 | .....Electrically operated | 559 |
| 519 | ...Interaction of dispensing tip with surface upon which fluid is dispensed | 560 561 |
| 520 | ...Drawing of liquid into pipette by capillary action | 561 562 |
| 521 | . Dispensing means | 563 |
| 522 | . Pressure | 564 |
| 523 | ....Gravity |  |
| 524 | . . Tip | 565 |
| 525 | . . . Removable | 566 |
| 526 | .....Including storage rack therefore | 567 568 |
| 527 | ..Including means for separating a constituent (e.g., extraction, etc.) | 569 |
| 528 | . Evaporator |  |

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....Operated at ambient temperature
. . . .Heated
. . . Condenser
....Cooling means
...Gravity or centrifuge separation
...Filter
....Porous media
..Tissue processing device
. .Valve
...Including connector
...With multiple discrete settings
...Stator and rotor, petcock/ stopcock, or slider
...Check
...Ball or seat
...Gas
..Connector
...Terminal end threaded or tapered
...For needle, syringe, or capillary tube
. Container
...Used with centrifuge equipment
...Tube shaped vessel
....Including closure or sealing mechanism
...Plate, sheet, dish or tray
....Including a plurality of wells or receptacles
.....Microtitration plate
...Cartridge, cassette or cuvette
...Bag type containers
...Flask, bottle or beaker
...Cup or crucible
...Vial or ampoule
...Including multiple internal compartments or baffles
. . Holder
...For sample or specimen container
....For tube
.....For slide
.....For burette, pipette, or pipette tip
..Housing
..Support
. .Hood
..Stopper, cover, plug, or seal
...Covering multiple containers or wells

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...Penetrable cover (e.g., septum, etc.)
CONTROL ELEMENT RESPONSIVE TO A SENSED OPERATING CONDITION
. Responsive to liquid level
. Control element directly mechanically linked to separate sensor
. Control element responds proportionally to a variable signal from a sensor
. Controls heat transfer
..Controls flow rate of a material to or from a contact zone
...Material is an input to contact zone
. Control element is fluid pressure sensitive
..Pressure-relief valve (e.g., pop-off valve) or check valve

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.Control element is a binary
140 responsive valve

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..Valve diverts flow from a contact zone
.Sensed condition is operating time and control is operation sequencer

## WITH SAFETY FEATURE

. Preventing opening of closure of pressurized apparatus at unsafe pressure
WITH INDICATING, SIGNALLING, RECORDING, SAMPLING, OR INSPECTION MEANS
FOR DEODORIZING OF, OR CHEMICAL PURIFICATION OF, OR GENERATION OF, LIFE-SUSTAINING ENVIRONMENTAL GAS
.With means exposing gas to electromagnetic wave energy or corpuscular radiation
.Including solid, extended surface, fluid contact reaction means (e.g., Raschig rings, particulate or monolithic catalyst, etc.)
. Including means adding material
into environmental gas
..And mechanical means creating forced draft at addition site
..With material-heating means
...Material is combusted
SHOCK OR SOUND WAVE

128 . Including supersonic or ultrasonic energy generation means
CHEMICAL REACTOR
. Soap making
. Bench scale
. Organic polymerization
..Closed loop
..Generating foamed plastic
..Including plural sequential reaction stages
..Including reactant agitating means in reaction chamber
...And means rotatably mounting reaction chamber
...Horizontal reaction chamber with screw or worm agitator
..With heat exchanger for reaction chamber or reactants located therein
.Fluidized bed
. With liquid present
..Plural reaction beds
...Sequentially arranged
..Including specific wind box or particulate matter support grid
..Including means to strip reaction mass from, or to regenerate, the particulate matter (including fluidized bed regenerators, per se)
..And means providing flow of particulate matter into or out of reaction chamber
..With heat exchange means affecting reaction chamber or reactants located therein
. .And means mechanically separating and removing particulate bed material from fluid effluent
.Ammonia synthesizer
.With means simultaneously carrying out conjugated reactions within single reactor
. Pigment or carbon black producer
..With means injecting quench stream into reaction chamber downstream of reaction site
..With particulate product collecting surface and means mechanically removing product therefrom
...Moving collecting surface
.....Rotary collecting surface
.....Disk or plate
..With plural sequential reaction zones or chambers
...With movably or removably mounted plug means for converting reactor from ( N ) to $(\mathrm{N}+1)$ reaction stages
. Vapor phase reaction type
.For radioactive reactant or product
. Inorganic sulfur acid or anhydride producing type
..Acid is final product
.Inorganic hydrator
.Explosives synthesizer
.Solid reactant type (i.e., absence of fluid reactants)
..Including ignition means for reactant
...Electrically actuated
..Including reactor cooling means surrounding reactor
.Waste gas purifier
..Including means providing sequential purification stages
...Plural chemical reaction stages
....Solid, extended surface, fluid contact type
....And means downstream of a stage for injecting a reactant into waste gas for interreaction in subsequent stage
..With heat exchanger for reaction chamber or reactants located therein
...Electrical type
...Regenerative heat sink
..Including waste gas flow distributor upstream of reaction site and within reaction chamber modifying velocity profile of gas
..Including solid, extended surface, fluid contact reaction means; e.g., inert Raschig rings, particulate absorbent, particulate or monolithic catalyst, etc.

178 ...And contact regenerating means or means for cleaning an internal surface of the reaction chamber
179 ...Fixed bed with resilient or
differential thermal expansion compensating bed support means
...Unitary (i.e., nonparticulate) contact bed (e.g., monolithic catalyst bed, etc.)
181 ...Fixed annularly shaped bed of contact material and means directing gas therethrough directing gas therethrough
substantially perpendicular to longitudinal axis of bed
182 .. Including means injecting combustion fuel into reaction chamber in direct contact with waste gas
183 ...And means mixing combustion fuel with waste gas upstream of reaction site
184.1 .For chemically destroying or
disintegrating solid waste, other than burning alone
185 .For chemical recovery of chemicals from waste paper making liquor
.With means applying electromagnetic wave energy or corpuscular radiation to reactants for initiating or perfecting chemical reaction
186.01
186.02
186.03
186.04
186.05
186.06
186.07
186.08
186.09
186.1
186.11
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186.13
186.14 or reaction site
. .Magnetic
...Object protection
...With electrical discharge
..Electrostatic field or electrical discharge
...Treating surface of solid substrate
....Surface is metal
...Ozonizers
....With preparatory or producttreating means
......With drying means
.....With filtering or particle removal means

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....With subsequent use means
....With electrode moving means
....With fluent reactant flow control means

| 186.15 | ....With current control or special electrical supply means | 618 619 |
| :---: | :---: | :---: |
| 186.16 | .With pulse generating means |  |
| 186.18 | . Cylindrical electrode |  |
| 186.19 | .....With heating or cooling means | 620 |
| 186.2 | . With heating or cooling means |  |
| 186.21 | . Arc or spark discharge means | 621 |
| 186.22 | ....With electrode or reaction space heating or cooling means | 622 |
| 186.23 | ....With preparatory or producttreating means | 623 |
| 186.24 | . With nitrogen fixation means | 624 |
| 186.25 | .....With cooling or pressurizing means |  |
| 186.26 | ....With electrode moving means |  |
| 186.27 | .With current control means | 625 |
| 186.28 | .With current control means | 626 |
| 186.29 | .With RF input means |  |
| 186.3 | ..With ultraviolet radiation generating means | 627 |
| 187 | . Combined | 628 |
| 600 | . Including plural reaction stages | 629 |
| 601 | ..Including plural parallel reaction stages with each stage in the form of a plate | 630 631 |
| 602 | ..Plate-type laminated reactor |  |
| 603 | ..Microscale reactor |  |
| 604 | ..With gas contact means for degassing or agitating (e.g., sparging, etc.) |  |
| 605 | ..With draft tube |  |
| 606 | . With multiphase mixing means | 633 |
| 607 | ..With distributor or collection tray | 634 |
| 608 | ..With separation or purification means (e.g., rectification, evaporation, ion exchanger, extraction, settler, absorption, recrystallization, etc.) | 635 636 |
| 609 | ...Stripper tower |  |
| 610 | ...Distillation means (e.g., retort, etc.) | 637 |
| 611 | . . . Scrubbing |  |
| 612 | . . Absorption |  |
| 613 | ...Cyclone separator | 638 |
| 614 | . Condenser | 638 |
| 615 | ....Condenser downstream of a heat exchanging means | 639 |
| 616 | ...Filtering means |  |
| 617 | ....Membrane separation (e.g., palladium membrane hydrogen purifier, etc.) |  |

CLASS 422 CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING,

| 640 | ...With parallel repeat of a sequence of reaction stages (e.g., $A B-A B$, etc.) | 200 |
| :---: | :---: | :---: |
| 641 | ...With each stage in the form of a reaction tube | 201 |
| 642 | ...Wherein the reaction stages are the same | 202 |
| 643 | ...Including thermal combustion means | 203 |
| 644 | ...Reaction stages located within single reaction chamber | 204 |
| 645 | ....With baffle (i.e., deflector plate) |  |
| 646 | . With heating or cooling means | 205 |
| 647 | ....And means downstream of a stage for internally injecting a reactant into a reaction stream for reaction in a subsequent stage, or injecting an internal quench stream into a reaction stream passing between stages | $\begin{aligned} & 206 \\ & 207 \end{aligned}$ |
| 648 | .... Means within reaction chamber for redistributing reaction stream as it passes between adjacent stages | 208 209 |
| 649 | ...With the provision of heating or cooling means | 210 |
| 650 | ..Including plural parallel reaction stages with each stage in the form of a reaction tube | 211 |
| 651 | ...Tubular stages in a single reaction chamber |  |
| 652 | ....Reaction tubes filled with catalyst particles | 212 |
| 653 | ....Reaction tubes containing structured catalyst |  |
| 654 | ....Reaction tubes having catalyst coating | 213 |
| 655 | ....Individual supply of reactants for each reaction tube |  |
| 656 | .With a solid reactant |  |
| 657 | ....Operating at positive pressure | 214 |
| 658 | ....With tube plate (e.g., supporting plate) | 215 216 |
| 659 | ....With heating or cooling means |  |
| 198 | . Including heat exchanger for reaction chamber or reactants located therein | 217 |
| 199 | . Electrical type |  |

..Indirect heat-exchange tube within reaction chamber with a nonreactant heat-exchange fluid passing therethrough
...Tube and shell type
..Heat-exchange jacket surrounding reaction chamber
...Including fluid-transfer means connecting chamber to heatexchange jacket
...Means associated with jacket providing combustion gas as heat-exchange medium
...Including baffle or stirring means disposed within jacket or chamber, the baffle means within chamber connected directly to wall thereof
..Regenerative heat sink
..Means injecting internal quench stream into reaction stream downstream of reaction stage
..Apparatus operates at positive pressure
. Including means rotating reaction chamber during use
..And means wiping or scraping interior surface of reaction chamber
. Including solid, extended surface, fluid contact reaction means; e.g., inert Raschig rings, particulate absorbent, particulate or monolithic catalyst, etc.
..With means removing and recovering product from extended surface contact material
..Particulate contact material type and means providing flow of particulate material into or out of reaction chamber with reactants or products
...Transfer line type reaction chamber
...And internal mixing means
..Compact bed of particulate, fluid contact material and means providing gravity flow of material within bed
..And means upstream of extended surface, fluid contact means removing particulate impurities from reactant stream

| 218 | ..Fixed annularly shaped bed of contact material and means directing reactant therethrough substantially perpendicular to longitudinal axis of bed | 235 236 |
| :---: | :---: | :---: |
| 219 | ..And means loading contact material into, or unloading contact material from, reactor or means providing internal contact material reservoir | 237 |
| 220 | ..And reactant flow distributor upstream of contact means and within reaction chamber modifying velocity profile of reactant flow | 238 239 |
| 221 | ..Fixed contact bed type with resilient or differential thermal expansion compensating bed support means |  |
| 222 | ..Unitary (i.e., nonparticulate) contact bed, (e.g., monolithic catalyst bed, etc.) | 240 241 |
| 223 | ..With contact material regenerating means, per se, or combined with reactor | $\begin{aligned} & 242 \\ & 243 \\ & 244 \end{aligned}$ |
| 224 | . Including internal mixing or stirring means |  |
| 225 | ..Mechanical type stirring means |  |
| 226 | ...In positive pressure reactor |  |
| 227 | ...Including a draft tube for internal recirculation | 245.1 |
| 228 | ...Including flow directing baffle attached directly to reaction chamber wall | $\begin{aligned} & 250.1 \\ & 251 \end{aligned}$ |
| 229 | ...Longitudinally extending spiral stirring means | 252 |
| 230 | ..Thermosyphon or differential density mixing means; e.g., means internally recycling reaction mass via differential density pumping, etc. | 253 254 |
| 231 | ...Gas sparger type mixing means submerged in liquid reactant | 255 |
| 232 | . Including solid reactant and means charging solids into, or dischanging solids from, reaction chamber | $\begin{aligned} & 256 \\ & 257 \end{aligned}$ |
| 233 | ..Having both charge and discharge means along with means conveying solids therebetween located within reaction chamber | 258 259 |
| 234 | Including external recycle loop |  |

..And means heating or cooling
loop or reaction mass located
therein
. Including means separating
reaction chamber into plural
reactant-containing
compartments and means moving
reactant therebetween
. Movably mounted container-type
separating means and means
moving same
. Solid reactant containing
perforated or porous
container-type separating
means
.Reaction chamber includes at
least one perforated, porous,
or semipermeable wall and is
adapted for holding solid
reactant
.Including specific material of
construction
. Reactor liner
. Positive pressure type

## PHYSICAL TYPE APPARATUS

. Including serially disposed vaporizing heating means (sublimer) and solid material deposition means maintained at a temperature lower than said heating means (condenser)
.Crystallizer
..Crucible-free zone refiner
..Including means separating and conveying crystals to a melting zone
..Hydraulic classifier with crystallizer
..Including feed compartment for introducing nutrient
. Movable crystallizer or scraping means
.Means separating or dissolving a material constituent
..Liquid-liquid contact means
...Including pulsator, adjustable plates, or plural inlets; e.g., spraying, etc.
...Including rotating chamber or rotating member within chamber; e.g., mixer-settler, etc.
....Having rotating member within chamber

| 260 | ...Including heating and cooling means | 289 |
| :---: | :---: | :---: |
| 261 | ..Liquid-solid contact means |  |
| 262 | . Sulfur extraction | 290 |
| 263 | ...Including monolithic nonporous body of solute |  |
| 264 | ...Including means restricting solvent contact to one end of body of solute | 291 |
| 265 | ...Buoyant holder |  |
| 266 | ...Manual or mountable holder; e.g., soap holder, etc. | 293 |
| 267 | ...Including means to remove solids from a filter | 294 |
| 268 | ...Conveyor support for solid material during contact; e.g., bucket, etc. | 295 296 |
| 269 | ...Including rotating member |  |
| 270 | . .Member is container | 297 |
| 271 | .....Including internal rotating member | 298 |
| 272 | ..Partitions divide container |  |
| 273 | ....Member conveys material into and out of container; e.g., screw propeller, etc. | $\begin{aligned} & 299 \\ & 300 \end{aligned}$ |
| 274 | ...Including perforated member which is nonlinear or inclined with respect to the major axis of container | 301 302 |
| 275 | ...Including parallel perforated members perpendicular to, or parallel to, major axis of container | $\begin{aligned} & 303 \\ & 304 \\ & 305 \end{aligned}$ |
| 276 | ...Side wall of holder perforated | 306 |
| 277 | ....Perforations of holder form inlet for solvent | 307 |
| 278 | ...Including plural orifice inlet, or deflector adjacent inlet for solvent flow | 308 309 |
| 279 | ....Having inlet submerged within body of a solid solute |  |
| 280 | ...Solvent vapor condenser | 310 |
| 281 | ...Means recirculating solvent | 311 |
| 282 | ...Including bypass |  |
| 283 | ...Including dip tube for inlet or outlet of fluid solvent |  |
| 284 | ...Internal heater; e.g., steam coil, etc. | 312 |
| 285 | ..And heating means |  |
| 286 | ...Including mechanical comminuting or conveying means |  |
| 287 | ....Within treating vessel |  |
| 288 | ...Including means removing vapor from treated material |  |

....And direct contact heating fluid means within separating or dissolving chamber vessel
....And indirect contact heating fluid means in separating or dissolving chamber
. Combined
.Apparatus for treating solid article or material with fluid chemical
..Fluid having simultaneous diverse function
..Including flexible or collapsible treating chamber
..Including pressure treating chamber (above ambient)
...Fluid pressure maintains closure or seal
...And rack, support or handling means
...And vaporizer; e.g., boiler, etc.
....Constituting treating chamber
..Including rack, support or handling means
...Apparatus closure operates means immersing article or material in liquid chemical
...For treating container or covers therefor
....Container is inverted
....Including endless conveyor
. Including gas generating means
. Including means for adding a material to a gas
.Heat treating vessel with heating means
..Including multiple stages
..Including comminuting, kneading, or surface-wiping means interior or vessel
ELEMENTS OR ADJUNCTS
.Bed support means (e.g., support grid or plate for supporting particulate bed of contact material, etc.)
.Tube element containing extended surface contact reaction means (e.g., a tube internally coated or packed with a catalyst, etc.)

| CROSS-REFERENCE ART COLLECTIONS |  | 92 | ...Supports for pipettes [B01L 3/ 02C3S] |
| :---: | :---: | :---: | :---: |
|  |  | 93 | . Drop counters or drop formers |
| 900 | DECREASING POLLUTION OR |  | [B01L 3/02D] |
|  | ENVIRONMENTAL IMPACT | 93 | . Interchangeable or disposable |
| 901 | POLYMER DISSOLVER |  | dispensing tips [B01L 3/02E] |
| 902 | SODIUM CHLORIDE AND POTASSIUM CHLORIDE DISSOLVER | 93 | ..Cooperating with positive <br> ejection means [B01L 3/02E2] |
| 903 | RADIOACTIVE MATERIAL APPARATUS | 93 | ..Means for supplying or |
| 904 | NITROGEN FIXATION MEANS |  | disposing of tips, e.g., racks |
| 905 | MISCELLANEOUS LIQUID |  | or cassettes [B01L 3/02E4] |
|  | STERILIZATION MEANS | 93 | . Mounted within a receptacle |
| 906 | PLASMA OR ION GENERATION MEANS |  | [B01L 3/02F] |
| 907 | CORONA OR GLOW DISCHARGE MEANS | 93 | FLUID TRANSFERRING GLASSWARE |
| 908 | CRUCIbles [B01L 3/04] |  | [B01L 3/00B] |
| 909 | CRYSTALLIZING DISHES [B01L 3/06] | 93 | .Tubes; conduits [B01L 3/00B2] |
| 910 | FLASKS [B01L 3/08] | 93 | .Joints; seals [B01L 3/00B4] |
| 911 | WASH BOTTLES [B01L 3/10] | 93 | .Stopcocks; valves [B01L 3/00B6] |
| 912 | GAS JARS OR CYLINDERS [B01L 3/12] | 93 | CONTAINERS FOR THE PURPOSE OF |
| 913 | TEST TUBES [B01L 3/14] |  | RETAINING A MATERIAL TO BE |
| 914 | $\begin{aligned} & \text {. Specific test tube, per se [B01L } \\ & 3 / 14 B] \end{aligned}$ | 94 | ANALYZED [B01L 3/OOC] <br> .Made of a rigid material [B01L |
| 915 | . With identification means, e.g., coded [B01L 3/14B2] | 94 | ..With identification means, |
| 916 | .Closing or opening means, e.g., corks, bungs [B01L 3/14C] | 94 | e.g., coded [B01L 3/00C2B] <br> ..For multiple samples, e.g., |
| 917 | ..With identification means, e.g., coded [B01L3/14C2] |  | micro-titration plate [B01L 3/ 00C2D] |
| 918 | .Specially adapted for centrifugation [B01L 3/14D] | 94 | ...Specially adapted for heating or cooling samples [B01L 3/ 00C2D2] |
| 919 | BURETTES; PIPETTES [B01L 3/02] | 94 |  |
| 920 | .Burettes, i.e., for withdrawing and redistributing liquids through different conduits [B01L 3/02B] | 94 | [B01L 3/00C4] <br> ..With identification means, <br> e.g., coded [B01L 3/00C4B] |
| 921 | ..Plunger type [B01L 3/02B2] | 94 | .With fluid transport, e.g., |
| 922 | .Pipettes, i.e., with only one conduit for withdrawing and redistributing liquids [B01L 3/02C] | 94 | multi-compartment structure [B01L 3/00C6] <br> ..Using capillary action, including fluid transfer |
| 923 | ..Plunger pump type [B01L 3/02C3] |  | through absorbent matrix [B01L 3/00C6C] |
| 924 | ...Capillary pipettes, i.e., having a very small bore [B01L 3/02C3C] | 94 | ..For multiple samples, e.g., multi-well filtration [B01L 3/ |
| 925 | ...Having mechanical strokelength setting means, e.g., movable stops [B01L 3/02C3D] |  | 00C6D] |
| 926 | ...Details of motor drive means [B01L 3/02C3M] |  | ART COLLECTIONS |
| 927 | ...Having several coaxial pistons [B01L 3/02C3P] | FOR | CLASS-RELATED FOREIGN DOCUMENTS |
| 928 | ...Repeating pipettes, i.e. for dispensing multiple doses from a single charge [B01L 3/02C3R] |  |  |

Any foreign patents or nonpatent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or nonpatent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

ANALYZER, STRUCTURED INDICATOR, OR MANIPULATIVE LABORATORY DEVICE (422/50)
FOR 100 .Structured visual or optical indicator, per se (422/55)
FOR 101 ..Having reagent in absorbent or bibulous substrate (422/56)
FOR 102 ..Having coated reagent (422/57)
FOR 103 .. In holder or container having special form (422/58)
FOR 104 ...Column (422/59)
FOR 105 ....Having plural-layered material (422/60)
FOR 106 .Test package or kit (422/61)
FOR 107 .Miscellaneous laboratory apparatus and elements, per se (422/99)
FOR 108 ..Pipette or other volumetric fluid transfer means (422/100)
FOR 109 .. Including means for separating a constituent; e.g., filter, condenser, extractor, etc. (422/101)
FOR 110 ..Container (422/102)
FOR 111 ..Valve or connector structure (422/103)
FOR 112 ..Holder, support, housing, or hood (422/104)
CHEMICAL REACTOR (422/112)
FOR 113 . Including plural reaction stages (422/188)
FOR 114 ..And means providing discrete sequential reaction stages; e.g., train, etc. (422/189)

FOR 115 ...Plural solid, extended surface, fluid contact reaction stages each containing; e.g., inert Raschig rings, particulate sorbent, particulate or monolithic catalyst, etc. (422/190)
FOR 116 ....Superimposed reaction stages in single reaction chamber (422/191)

FOR 117 ....At least one reaction stage formed of fixed, annularly shaped bed of contact material and means directing reaction stream therethrough substantially perpendicular to longitudinal axis of bed (422/ 192)

FOR 118 ...Reaction stages located within single reaction chamber (422/ 193)

FOR 119 ....And means downstream of a stage for internally injecting a reactant into a reaction stream for interreaction in a subsequent stage, or injecting an internal quench stream into reaction stream passing between stages (422/194)
FOR 120 ....Means within reaction chamber redistributing reaction stream as it passes between adjacent stages (422/195)
FOR 121 ..Including plural parallel reaction stages with each stage in form of a reaction tube (422/196)
FOR 122 ...Tubular stages in single reaction chamber (422/197)

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 106/31.17 | 1 | 422/56 | 439 |
| 116/200 | 2 | 422/56 | 439 |
| 117/202 | 1 | 422/101 | 343 |
| 137/9 | 1 | 422/103 | 111 |
| 15/320 | 1 | 422/104 | 267 |
| 156/322 | 1 | 422/101 | 343 |
| 156/60 | 1 | 422/56 | 439 |
| 159/44 | 1 | 422/100 | 767 |
| 159/6.1 | 1 | 422/104 | 267 |
| 202/158 | 1 | 422/191 | 206 |
| 203/49 | 1 | 422/188 | 108 |
| 204/601 | 1 | 422/100 | 767 |
|  | 1 | 422/102 | 727 |
| 204/612 | 1 | 422/101 | 343 |
| 204/613 | 1 | 422/100 | 767 |
| 204/616 | 1 | 422/56 | 439 |
| 206/561 | 1 | 422/104 | 267 |
| 210/198.2 | 1 | 422/101 | 343 |
| 210/222 | 1 | 422/102 | 727 |
| 210/321.71 | 1 | 422/103 | 111 |
| 210/359 | 1 | 422/58 | 400 |
| 216/108 | 1 | 422/55 | 70 |
| 219/413 | 1 | 422/58 | 400 |
| 221/264 | 1 | 422/100 | 767 |
| 222/1 | 1 | 422/100 | 767 |
| 235/435 | 1 | 422/104 | 267 |
| 235/486 | 1 | 422/104 | 267 |
| 241/22 | 1 | 422/58 | 400 |
| 250/284 | 2 | 422/100 | 767 |
| 250/303 | 1 | 422/61 | 239 |
| 250/440.11 | 1 | 422/104 | 267 |
| 250/483.1 | 1 | 422/56 | 439 |
| 252/408.1 | 1 | 422/56 | 439 |
| 34/218 | 1 | 422/104 | 267 |
| 346/80 | 1 | 422/102 | 727 |
| 356/246 | 1 | 422/100 | 767 |
|  | 1 | 422/58 | 400 |
|  | 13 | 422/102 | 727 |
| 356/39 | 1 | 422/58 | 400 |
| 356/409 | 1 | 422/58 | 400 |
| 356/410 | 1 | 422/58 | 400 |
| 359/398 | 1 | 422/100 | 767 |
| 366/209 | 2 | 422/101 | 343 |

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 366/220 | 1 | 422/102 | 727 |
| 366/336 | 1 | 422/102 | 727 |
| 368/179 | 1 | 422/102 | 727 |
| 374/55 | 1 | 422/102 | 727 |
| 378/51 | 1 | 422/104 | 267 |
| 378/86 | 1 | 422/104 | 267 |
| 422/106 | 1 | 422/189 | 290 |
|  | 1 | 422/194 | 67 |
| 422/108 | 1 | 422/189 | 290 |
|  | 1 | 422/196 | 27 |
|  | 1 | 422/197 | 184 |
| 422/109 | 1 | 422/104 | 267 |
|  | 1 | 422/194 | 67 |
| 422/111 | 1 | 422/189 | 290 |
| 422/119 | 1 | 422/102 | 727 |
| 422/129 | 1 | 422/189 | 290 |
|  | 2 | 422/102 | 727 |
| 422/130 | 3 | 422/102 | 727 |
|  | 4 | 422/100 | 767 |
| 422/139 | 1 | 422/193 | 109 |
|  | 1 | 422/196 | 27 |
| 422/140 | 1 | 422/190 | 169 |
|  | 1 | 422/192 | 28 |
|  | 2 | 422/189 | 290 |
| 422/142 | 1 | 422/188 | 108 |
| 422/145 | 1 | 422/196 | 27 |
| 422/159 | 1 | 422/101 | 343 |
|  | 1 | 422/102 | 727 |
| 422/168 | 1 | 422/188 | 108 |
| 422/184.1 | 1 | 422/189 | 290 |
| 422/186 | 1 | 422/189 | 290 |
| 422/199 | 2 | 422/188 | 108 |
| 422/200 | 1 | 422/189 | 290 |
| 422/202 | 3 | 422/189 | 290 |
| 422/218 | 1 | 422/101 | 343 |
|  | 1 | 422/190 | 169 |
| 422/220 | 1 | 422/193 | 109 |
| 422/224 | 1 | 422/189 | 290 |
|  | 1 | 422/193 | 109 |
| 422/225 | 1 | 422/188 | 108 |
|  | 1 | 422/193 | 109 |
| 422/226 | 1 | 422/189 | 290 |
| 422/233 | 1 | 422/189 | 290 |

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| New <br> Classification | Number of ORs | Source <br> Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/241 | 1 | 422/102 | 727 |
|  | 1 | 422/189 | 290 |
| 422/242 | 2 | 422/102 | 727 |
| 422/255 | 3 | 422/188 | 108 |
| 422/26 | 1 | 422/99 | 247 |
| 422/261 | 1 | 422/99 | 247 |
| 422/278 | 1 | 422/188 | 108 |
| 422/28 | 1 | 422/61 | 239 |
| 422/288 | 1 | 422/197 | 184 |
| 422/292 | 1 | 422/189 | 290 |
| 422/295 | 1 | 422/102 | 727 |
| 422/307 | 1 | 422/102 | 727 |
| 422/38 | 1 | 422/61 | 239 |
| 422/400 | 2 | 422/104 | 267 |
|  | 3 | 422/57 | 123 |
|  | 4 | 422/101 | 343 |
|  | 4 | 422/99 | 247 |
|  | 5 | 422/61 | 239 |
|  | 8 | 422/55 | 70 |
|  | 9 | 422/100 | 767 |
|  | 9 | 422/58 | 400 |
|  | 11 | 422/102 | 727 |
|  | 20 | 422/56 | 439 |
| 422/401 | 1 | 422/101 | 343 |
|  | 1 | 422/104 | 267 |
|  | 3 | 422/102 | 727 |
|  | 3 | 422/60 | 15 |
|  | 5 | 422/59 | 25 |
|  | 6 | 422/55 | 70 |
|  | 8 | 422/57 | 123 |
|  | 14 | 422/61 | 239 |
|  | 29 | 422/56 | 439 |
|  | 81 | 422/58 | 400 |
| 422/402 | 3 | 422/56 | 439 |
|  | 5 | 422/55 | 70 |
|  | 5 | 422/57 | 123 |
|  | 5 | 422/58 | 400 |
|  | 5 | 422/61 | 239 |
| 422/403 | 1 | 422/102 | 727 |
|  | 1 | 422/55 | 70 |
|  | 1 | 422/57 | 123 |
|  | 3 | 422/61 | 239 |
|  | 4 | 422/56 | 439 |

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| :---: | :---: | :---: | :---: |
| 422/404 | 6 | 422/58 | 400 |
|  | 1 | 422/104 | 267 |
|  | 1 | 422/189 | 290 |
|  | 2 | 422/100 | 767 |
|  | 3 | 422/102 | 727 |
|  | 4 | 422/61 | 239 |
|  | 9 | 422/57 | 123 |
|  | 12 | 422/56 | 439 |
|  | 15 | 422/55 | 70 |
|  | 17 | 422/58 | 400 |
| 422/405 | 1 | 422/57 | 123 |
|  | 1 | 422/58 | 400 |
|  | 2 | 422/56 | 439 |
|  | 2 | 422/59 | 25 |
| 422/407 | 1 | 422/57 | 123 |
|  | 2 | 422/56 | 439 |
|  | 2 | 422/61 | 239 |
| 422/408 | 3 | 422/55 | 70 |
|  | 3 | 422/59 | 25 |
|  | 5 | 422/61 | 239 |
|  | 10 | 422/57 | 123 |
|  | 25 | 422/56 | 439 |
|  | 36 | 422/58 | 400 |
| 422/409 | 1 | 422/56 | 439 |
|  | 1 | 422/58 | 400 |
|  | 2 | 422/61 | 239 |
|  | 4 | 422/58 | 400 |
| 422/410 | 1 | 422/102 | 727 |
|  | 1 | 422/56 | 439 |
|  | 2 | 422/57 | 123 |
|  | 6 | 422/58 | 400 |
| 422/411 | 1 | 422/55 | 70 |
|  | 1 | 422/57 | 123 |
|  | 1 | 422/99 | 247 |
|  | 4 | 422/56 | 439 |
|  | 5 | 422/61 | 239 |
|  | 14 | 422/58 | 400 |
| 422/412 | 1 | 422/100 | 767 |
|  | 1 | 422/102 | 727 |
|  | 1 | 422/59 | 25 |
|  | 3 | 422/55 | 70 |
|  | 3 | 422/57 | 123 |
|  | 7 | 422/61 | 239 |

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| New Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/413 | 22 | 422/56 | 439 |
|  | 38 | 422/58 | 400 |
|  | 1 | 422/103 | 111 |
|  | 1 | 422/55 | 70 |
|  | 2 | 422/57 | 123 |
|  | 4 | 422/60 | 15 |
|  | 6 | 422/56 | 439 |
|  | 8 | 422/59 | 25 |
|  | 11 | 422/58 | 400 |
|  | 13 | 422/61 | 239 |
| 422/414 | 1 | 422/58 | 400 |
|  | 2 | 422/56 | 439 |
|  | 4 | 422/55 | 70 |
| 422/415 | 1 | 422/61 | 239 |
|  | 2 | 422/55 | 70 |
|  | 3 | 422/58 | 400 |
| 422/416 | 2 | 422/55 | 70 |
|  | 3 | 422/57 | 123 |
|  | 4 | 422/59 | 25 |
|  | 5 | 422/61 | 239 |
|  | 6 | 422/60 | 15 |
|  | 9 | 422/56 | 439 |
|  | 15 | 422/58 | 400 |
| 422/417 | 1 | 422/104 | 267 |
|  | 1 | 422/55 | 70 |
|  | 1 | 422/59 | 25 |
|  | 1 | 422/60 | 15 |
|  | 1 | 422/99 | 247 |
|  | 3 | 422/101 | 343 |
|  | 4 | 422/100 | 767 |
|  | 6 | 422/102 | 727 |
|  | 7 | 422/57 | 123 |
|  | 8 | 422/56 | 439 |
|  | 10 | 422/61 | 239 |
|  | 59 | 422/58 | 400 |
| 422/418 | 1 | 422/58 | 400 |
| 422/419 | 1 | 422/100 | 767 |
|  | 9 | 422/58 | 400 |
| 422/42 | 1 | 422/102 | 727 |
| 422/420 | 1 | 422/58 | 400 |
|  | 1 | 422/60 | 15 |
|  | 1 | 422/61 | 239 |
|  | 2 | 422/55 | 70 |

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/421 | 2 | 422/58 | 400 |
|  | 3 | 422/57 | 123 |
|  | 92 | 422/56 | 439 |
|  | 1 | 422/101 | 343 |
|  | 1 | 422/58 | 400 |
|  | 1 | 422/61 | 239 |
| 422/422 | 2 | 422/57 | 123 |
|  | 5 | 422/58 | 400 |
|  | 42 | 422/56 | 439 |
|  | 1 | 422/101 | 343 |
|  | 1 | 422/57 | 123 |
|  | 1 | 422/59 | 25 |
|  | 2 | 422/55 | 70 |
| 422/423 | 2 | 422/56 | 439 |
|  | 2 | 422/58 | 400 |
|  | 3 | 422/100 | 767 |
|  | 24 | 422/56 | 439 |
|  | 1 | 422/55 | 70 |
|  | 1 | 422/56 | 439 |
|  | 1 | 422/57 | 123 |
|  | 1 | 422/57 | 123 |
| 422/424 | 1 | 422/58 | 400 |
|  | 2 | 422/58 | 400 |
|  | 35 | 422/56 | 439 |
|  | 1 | 422/100 | 767 |
|  | 1 | 422/190 | 169 |
|  | 1 | 422/58 | 400 |
|  | 1 | 422/61 | 239 |
| 422/425 | 2 | 422/55 | 70 |
|  | 3 | 422/57 | 123 |
|  | 40 | 422/56 | 439 |
|  | 1 | 422/56 | 439 |
|  | 1 | 422/58 | 400 |
|  | 2 | 422/55 | 70 |
| 422/426 | 2 | 422/61 | 239 |
|  | 6 | 422/56 | 439 |
|  | 13 | 422/57 | 123 |
|  | 1 | 422/55 | 70 |
|  | 2 | 422/58 | 400 |
|  | 4 | 422/56 | 439 |
| 422/427 | 10 | 422/57 | 123 |
|  | 1 | 422/100 | 767 |
|  | 1 | 422/56 | 439 |

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| :---: | :---: | :---: | :---: |
| 422/428 | 1 | 422/57 | 123 |
|  | 4 | 422/56 | 439 |
|  | 7 | 422/57 | 123 |
| 422/429 | 1 | 422/58 | 400 |
|  | 1 | 422/61 | 239 |
|  | 10 | 422/56 | 439 |
|  | 11 | 422/57 | 123 |
| 422/430 | 1 | 422/100 | 767 |
|  | 1 | 422/104 | 267 |
|  | 1 | 422/56 | 439 |
|  | 2 | 422/102 | 727 |
|  | 2 | 422/99 | 247 |
|  | 4 | 422/101 | 343 |
|  | 5 | 422/58 | 400 |
|  | 130 | 422/61 | 239 |
| 422/44 | 1 | 422/101 | 343 |
|  | 2 | 422/99 | 247 |
| 422/500 | 1 | 422/101 | 343 |
|  | 1 | 422/58 | 400 |
|  | 2 | 422/104 | 267 |
|  | 4 | 422/100 | 767 |
|  | 17 | 422/99 | 247 |
| 422/501 | 1 | 422/101 | 343 |
|  | 2 | 422/104 | 267 |
|  | 2 | 422/57 | 123 |
|  | 5 | 422/102 | 727 |
|  | 6 | 422/99 | 247 |
|  | 7 | 422/103 | 111 |
|  | 85 | 422/100 | 767 |
| 422/502 | 1 | 422/190 | 169 |
|  | 1 | 422/57 | 123 |
|  | 2 | 422/58 | 400 |
|  | 2 | 422/99 | 247 |
|  | 3 | 422/103 | 111 |
|  | 6 | 422/101 | 343 |
|  | 7 | 422/102 | 727 |
|  | 37 | 422/100 | 767 |
| 422/503 | 1 | 422/101 | 343 |
|  | 1 | 422/103 | 111 |
|  | 1 | 422/104 | 267 |
|  | 1 | 422/196 | 27 |
|  | 1 | 422/58 | 400 |
|  | 3 | 422/101 | 343 |

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| New Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/504 | 8 | 422/99 | 247 |
|  | 10 | 422/102 | 727 |
|  | 45 | 422/100 | 767 |
|  | 1 | 422/101 | 343 |
|  | 1 | 422/190 | 169 |
|  | 2 | 422/188 | 108 |
|  | 2 | 422/55 | 70 |
|  | 2 | 422/56 | 439 |
|  | 2 | 422/99 | 247 |
|  | 3 | 422/103 | 111 |
|  | 3 | 422/104 | 267 |
|  | 4 | 422/57 | 123 |
|  | 5 | 422/58 | 400 |
|  | 7 | 422/101 | 343 |
|  | 11 | 422/102 | 727 |
|  | 75 | 422/100 | 767 |
| 422/505 | 5 | 422/102 | 727 |
|  | 15 | 422/100 | 767 |
| 422/506 | 1 | 422/101 | 343 |
|  | 1 | 422/101 | 343 |
|  | 1 | 422/58 | 400 |
|  | 7 | 422/100 | 767 |
| 422/507 | 11 | 422/100 | 767 |
| 422/508 | 5 | 422/100 | 767 |
| 422/509 | 1 | 422/104 | 267 |
|  | 2 | 422/100 | 767 |
|  | 2 | 422/102 | 727 |
|  | 2 | 422/99 | 247 |
|  | 63 | 422/100 | 767 |
| 422/510 | 1 | 422/101 | 343 |
|  | 1 | 422/102 | 727 |
|  | 3 | 422/104 | 267 |
|  | 44 | 422/100 | 767 |
| 422/511 | 1 | 422/104 | 267 |
|  | 20 | 422/100 | 767 |
| 422/512 | 1 | 422/103 | 111 |
|  | 14 | 422/100 | 767 |
| 422/513 | 1 | 422/102 | 727 |
|  | 1 | 422/99 | 247 |
|  | 4 | 422/101 | 343 |
|  | 22 | 422/100 | 767 |
| 422/514 | 1 | 422/101 | 343 |
|  | 1 | 422/99 | 247 |

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
|  | 17 | 422/100 | 767 |
| 422/515 | 11 | 422/100 | 767 |
| 422/516 | 18 | 422/100 | 767 |
| 422/517 | 7 | 422/100 | 767 |
| 422/518 | 9 | 422/100 | 767 |
| 422/519 | 1 | 422/101 | 343 |
|  | 7 | 422/100 | 767 |
| 422/520 | 1 | 422/101 | 343 |
|  | 19 | 422/100 | 767 |
| 422/521 | 1 | 422/102 | 727 |
|  | 15 | 422/100 | 767 |
| 422/522 | 2 | 422/100 | 767 |
|  | 22 | 422/100 | 767 |
| 422/523 | 1 | 422/102 | 727 |
|  | 8 | 422/100 | 767 |
| 422/524 | 1 | 422/100 | 767 |
|  | 3 | 422/100 | 767 |
| 422/525 | 1 | 422/101 | 343 |
|  | 1 | 422/102 | 727 |
|  | 40 | 422/100 | 767 |
| 422/526 | 1 | 422/101 | 343 |
|  | 1 | 422/58 | 400 |
|  | 15 | 422/100 | 767 |
| 422/527 | 1 | 422/102 | 727 |
|  | 2 | 422/104 | 267 |
|  | 3 | 422/100 | 767 |
|  | 12 | 422/99 | 247 |
|  | 15 | 422/102 | 727 |
|  | 34 | 422/101 | 343 |
| 422/528 | 1 | 422/100 | 767 |
|  | 1 | 422/103 | 111 |
|  | 1 | 422/191 | 206 |
|  | 1 | 422/99 | 247 |
|  | 2 | 422/101 | 343 |
| 422/529 | 1 | 422/100 | 767 |
|  | 1 | 422/99 | 247 |
| 422/530 | 1 | 422/100 | 767 |
|  | 3 | 422/99 | 247 |
|  | 7 | 422/101 | 343 |
| 422/531 | 1 | 422/102 | 727 |
|  | 1 | 422/61 | 239 |
|  | 8 | 422/101 | 343 |
| 422/532 | 8 | 422/101 | 343 |

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
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| 422/533 | 1 | 422/100 | 767 |
|  | 3 | 422/102 | 727 |
|  | 34 | 422/101 | 343 |
| 422/534 | 1 | 422/100 | 767 |
|  | 1 | 422/103 | 111 |
|  | 1 | 422/104 | 267 |
|  | 1 | 422/58 | 400 |
|  | 1 | 422/61 | 239 |
|  | 6 | 422/100 | 767 |
|  | 6 | 422/99 | 247 |
|  | 17 | 422/102 | 727 |
|  | 78 | 422/101 | 343 |
| 422/535 | 1 | 422/101 | 343 |
|  | 1 | 422/103 | 111 |
|  | 2 | 422/100 | 767 |
|  | 3 | 422/99 | 247 |
|  | 4 | 422/102 | 727 |
|  | 46 | 422/101 | 343 |
| 422/536 | 1 | 422/100 | 767 |
|  | 1 | 422/102 | 727 |
|  | 4 | 422/101 | 343 |
|  | 5 | 422/104 | 267 |
|  | 14 | 422/99 | 247 |
|  | 19 | 422/102 | 727 |
| 422/537 | 1 | 422/61 | 239 |
|  | 2 | 422/101 | 343 |
|  | 3 | 422/100 | 767 |
|  | 3 | 422/102 | 727 |
|  | 3 | 422/99 | 247 |
|  | 15 | 422/103 | 111 |
| 422/538 | 1 | 422/100 | 767 |
|  | 1 | 422/101 | 343 |
|  | 1 | 422/99 | 247 |
|  | 5 | 422/103 | 111 |
| 422/539 | 5 | 422/103 | 111 |
| 422/540 | 13 | 422/103 | 111 |
| 422/541 | 1 | 422/104 | 267 |
|  | 1 | 422/99 | 247 |
|  | 5 | 422/103 | 111 |
| 422/542 | 1 | 422/99 | 247 |
|  | 3 | 422/103 | 111 |
| 422/543 | 1 | 422/103 | 111 |
|  | 2 | 422/99 | 247 |

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| New Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/544 | 1 | 422/101 | 343 |
|  | 1 | 422/99 | 247 |
|  | 4 | 422/103 | 111 |
| 422/545 | 1 | 422/99 | 247 |
|  | 6 | 422/103 | 111 |
| 422/546 | 4 | 422/103 | 111 |
| 422/547 | 1 | 422/100 | 767 |
|  | 1 | 422/189 | 290 |
|  | 1 | 422/56 | 439 |
|  | 1 | 422/57 | 123 |
|  | 1 | 422/61 | 239 |
|  | 2 | 422/104 | 267 |
|  | 3 | 422/100 | 767 |
|  | 3 | 422/103 | 111 |
|  | 3 | 422/58 | 400 |
|  | 4 | 422/101 | 343 |
|  | 28 | 422/99 | 247 |
|  | 199 | 422/102 | 727 |
| 422/548 | 1 | 422/102 | 727 |
|  | 1 | 422/104 | 267 |
|  | 1 | 422/104 | 267 |
|  | 1 | 422/99 | 247 |
|  | 2 | 422/101 | 343 |
|  | 32 | 422/102 | 727 |
| 422/549 | 1 | 422/101 | 343 |
|  | 1 | 422/103 | 111 |
|  | 3 | 422/100 | 767 |
|  | 3 | 422/104 | 267 |
|  | 7 | 422/99 | 247 |
|  | 43 | 422/102 | 727 |
| 422/550 | 1 | 422/103 | 111 |
|  | 1 | 422/104 | 267 |
|  | 1 | 422/190 | 169 |
|  | 1 | 422/61 | 239 |
|  | 2 | 422/100 | 767 |
|  | 3 | 422/101 | 343 |
|  | 3 | 422/58 | 400 |
|  | 7 | 422/99 | 247 |
|  | 39 | 422/102 | 727 |
| 422/551 | 1 | 422/102 | 727 |
|  | 4 | 422/99 | 247 |
|  | 10 | 422/102 | 727 |
| 422/552 | 1 | 422/103 | 111 |

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/563 | 61 | 422/104 | 267 |
|  | 1 | 422/100 | 767 |
|  | 2 | 422/102 | 727 |
|  | 2 | 422/99 | 247 |
|  | 9 | 422/104 | 267 |
| 422/564 | 1 | 422/100 | 767 |
|  | 3 | 422/102 | 727 |
|  | 12 | 422/104 | 267 |
| 422/565 | 1 | 422/101 | 343 |
|  | 2 | 422/103 | 111 |
|  | 5 | 422/99 | 247 |
|  | 10 | 422/104 | 267 |
| 422/566 | 1 | 422/103 | 111 |
|  | 4 | 422/102 | 727 |
|  | 5 | 422/99 | 247 |
|  | 27 | 422/104 | 267 |
| 422/567 | 5 | 422/104 | 267 |
| 422/568 | 1 | 422/104 | 267 |
|  | 8 | 422/102 | 727 |
|  | 12 | 422/99 | 247 |
| 422/569 | 1 | 422/103 | 111 |
|  | 2 | 422/104 | 267 |
|  | 4 | 422/102 | 727 |
|  | 10 | 422/99 | 247 |
| 422/570 | 1 | 422/100 | 767 |
|  | 1 | 422/102 | 727 |
|  | 1 | 422/103 | 111 |
|  | 5 | 422/99 | 247 |
| 422/600 | 1 | 422/190 | 169 |
|  | 1 | 422/196 | 27 |
|  | 2 | 422/192 | 28 |
|  | 2 | 422/193 | 109 |
|  | 5 | 422/188 | 108 |
| 422/601 | 1 | 422/193 | 109 |
|  | 1 | 422/196 | 27 |
|  | 2 | 422/188 | 108 |
|  | 3 | 422/189 | 290 |
|  | 4 | 422/191 | 206 |
|  | 7 | 422/190 | 169 |
| 422/602 | 1 | 422/189 | 290 |
|  | 1 | 422/191 | 206 |
| 422/603 | 1 | 422/188 | 108 |
|  | 1 | 422/196 | 27 |

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/604 | 4 | 422/191 | 206 |
|  | 1 | 422/192 | 28 |
|  | 1 | 422/194 | 67 |
|  | 1 | 422/195 | 39 |
|  | 1 | 422/196 | 27 |
|  | 3 | 422/190 | 169 |
|  | 3 | 422/193 | 109 |
|  | 4 | 422/191 | 206 |
|  | 4 | 422/197 | 184 |
|  | 8 | 422/189 | 290 |
| 422/605 | 1 | 422/188 | 108 |
|  | 2 | 422/190 | 169 |
|  | 2 | 422/193 | 109 |
|  | 4 | 422/195 | 39 |
|  | 5 | 422/197 | 184 |
|  | 7 | 422/189 | 290 |
|  | 9 | 422/194 | 67 |
|  | 32 | 422/191 | 206 |
| 422/606 | 1 | 422/192 | 28 |
|  | 2 | 422/102 | 727 |
|  | 2 | 422/104 | 267 |
|  | 3 | 422/100 | 767 |
|  | 3 | 422/188 | 108 |
|  | 4 | 422/197 | 184 |
|  | 5 | 422/195 | 39 |
|  | 8 | 422/194 | 67 |
|  | 9 | 422/193 | 109 |
|  | 11 | 422/190 | 169 |
|  | 13 | 422/191 | 206 |
|  | 25 | 422/189 | 290 |
| 422/607 | 1 | 422/188 | 108 |
|  | 1 | 422/197 | 184 |
|  | 4 | 422/190 | 169 |
|  | 4 | 422/192 | 28 |
|  | 5 | 422/195 | 39 |
|  | 6 | 422/189 | 290 |
|  | 6 | 422/194 | 67 |
|  | 8 | 422/193 | 109 |
|  | 14 | 422/197 | 184 |
|  | 34 | 422/191 | 206 |
| 422/608 | 1 | 422/190 | 169 |
|  | 1 | 422/191 | 206 |
|  | 1 | 422/195 | 39 |

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
|  | 2 | 422/192 | 28 |
|  | 2 | 422/197 | 184 |
|  | 3 | 422/193 | 109 |
|  | 5 | 422/188 | 108 |
|  | 8 | 422/190 | 169 |
|  | 23 | 422/189 | 290 |
| 422/609 | 1 | 422/188 | 108 |
|  | 1 | 422/192 | 28 |
|  | 3 | 422/191 | 206 |
|  | 6 | 422/190 | 169 |
|  | 6 | 422/193 | 109 |
|  | 12 | 422/189 | 290 |
| 422/610 | 1 | 422/192 | 28 |
|  | 2 | 422/195 | 39 |
|  | 3 | 422/194 | 67 |
|  | 4 | 422/191 | 206 |
|  | 4 | 422/197 | 184 |
|  | 5 | 422/193 | 109 |
|  | 8 | 422/188 | 108 |
|  | 19 | 422/189 | 290 |
|  | 23 | 422/190 | 169 |
| 422/611 | 1 | 422/188 | 108 |
|  | 1 | 422/190 | 169 |
|  | 1 | 422/194 | 67 |
|  | 1 | 422/196 | 27 |
|  | 6 | 422/189 | 290 |
| 422/612 | 1 | 422/193 | 109 |
|  | 1 | 422/195 | 39 |
|  | 1 | 422/196 | 27 |
|  | 1 | 422/197 | 184 |
|  | 2 | 422/194 | 67 |
|  | 5 | 422/188 | 108 |
|  | 6 | 422/191 | 206 |
|  | 10 | 422/190 | 169 |
|  | 20 | 422/189 | 290 |
| 422/613 | 1 | 422/190 | 169 |
|  | 1 | 422/191 | 206 |
|  | 1 | 422/193 | 109 |
|  | 1 | 422/195 | 39 |
|  | 1 | 422/196 | 27 |
|  | 1 | 422/197 | 184 |
|  | 5 | 422/189 | 290 |
| 422/614 | 1 | 422/192 | 28 |

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
|  | 1 | 422/194 | 67 |
|  | 3 | 422/191 | 206 |
|  | 4 | 422/190 | 169 |
|  | 4 | 422/193 | 109 |
|  | 4 | 422/197 | 184 |
|  | 6 | 422/188 | 108 |
|  | 14 | 422/189 | 290 |
| 422/615 | 1 | 422/195 | 39 |
|  | 2 | 422/189 | 290 |
|  | 2 | 422/197 | 184 |
|  | 3 | 422/190 | 169 |
| 422/616 | 1 | 422/191 | 206 |
|  | 1 | 422/193 | 109 |
|  | 1 | 422/194 | 67 |
|  | 1 | 422/197 | 184 |
|  | 2 | 422/101 | 343 |
|  | 2 | 422/188 | 108 |
|  | 5 | 422/190 | 169 |
|  | 7 | 422/189 | 290 |
| 422/617 | 1 | 422/188 | 108 |
|  | 1 | 422/189 | 290 |
|  | 2 | 422/190 | 169 |
|  | 3 | 422/191 | 206 |
| 422/618 | 1 | 422/189 | 290 |
|  | 3 | 422/188 | 108 |
|  | 3 | 422/191 | 206 |
|  | 3 | 422/194 | 67 |
|  | 3 | 422/197 | 184 |
|  | 4 | 422/195 | 39 |
|  | 6 | 422/193 | 109 |
|  | 9 | 422/190 | 169 |
|  | 30 | 422/189 | 290 |
| 422/619 | 1 | 422/189 | 290 |
|  | 1 | 422/192 | 28 |
|  | 2 | 422/194 | 67 |
|  | 2 | 422/197 | 184 |
|  | 3 | 422/191 | 206 |
|  | 5 | 422/188 | 108 |
|  | 6 | 422/190 | 169 |
| 422/62 | 1 | 422/99 | 247 |
| 422/620 | 1 | 422/193 | 109 |
|  | 1 | 422/194 | 67 |
|  | 1 | 422/197 | 184 |

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/621 | 2 | 422/189 | 290 |
|  | 2 | 422/190 | 169 |
|  | 1 | 422/196 | 27 |
|  | 2 | 422/189 | 290 |
|  | 2 | 422/197 | 184 |
| 422/622 | 3 | 422/188 | 108 |
|  | 3 | 422/193 | 109 |
|  | 1 | 422/190 | 169 |
|  | 1 | 422/193 | 109 |
|  | 1 | 422/197 | 184 |
|  | 2 | 422/194 | 67 |
|  | 3 | 422/191 | 206 |
| 422/623 | 8 | 422/189 | 290 |
|  | 2 | 422/188 | 108 |
|  | 2 | 422/189 | 290 |
|  | 2 | 422/190 | 169 |
| 422/624 | 2 | 422/191 | 206 |
|  | 1 | 422/191 | 206 |
|  | 1 | 422/195 | 39 |
|  | 2 | 422/194 | 67 |
| 422/625 | 3 | 422/197 | 184 |
|  | 4 | 422/188 | 108 |
|  | 7 | 422/193 | 109 |
|  | 16 | 422/189 | 290 |
|  | 1 | 422/189 | 290 |
|  | 1 | 422/190 | 169 |
|  | 1 | 422/193 | 109 |
|  | 1 | 422/196 | 27 |
| 422/626 | 2 | 422/195 | 39 |
|  | 3 | 422/190 | 169 |
|  | 5 | 422/191 | 206 |
|  | 17 | 422/197 | 184 |
|  | 1 | 422/188 | 108 |
|  | 1 | 422/192 | 28 |
|  | 1 | 422/193 | 109 |
|  | 2 | 422/189 | 290 |
|  | 4 | 422/188 | 108 |
| 422/627 | 4 | 422/190 | 169 |
|  | 4 | 422/191 | 206 |
|  | 1 | 422/189 | 290 |
|  | 1 | 422/194 | 67 |
|  | 1 | 422/197 | 184 |
| 422/628 | 1 | 422/190 | 169 |

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| New Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/629 | 1 | 422/194 | 67 |
|  | 1 | 422/197 | 184 |
|  | 4 | 422/191 | 206 |
|  | 1 | 422/189 | 290 |
|  | 2 | 422/191 | 206 |
|  | 2 | 422/193 | 109 |
|  | 8 | 422/190 | 169 |
| 422/63 | 18 | 422/197 | 184 |
|  | 1 | 422/101 | 343 |
|  | 2 | 422/104 | 267 |
|  | 3 | 422/102 | 727 |
|  | 3 | 422/103 | 111 |
| 422/630 | 3 | 422/99 | 247 |
|  | 2 | 422/190 | 169 |
|  | 3 | 422/188 | 108 |
| 422/631 | 6 | 422/189 | 290 |
|  | 1 | 422/188 | 108 |
|  | 1 | 422/191 | 206 |
|  | 2 | 422/193 | 109 |
| 422/632 | 6 | 422/189 | 290 |
|  | 9 | 422/190 | 169 |
|  | 1 | 422/191 | 206 |
|  | 2 | 422/190 | 169 |
| 422/633 | 8 | 422/191 | 206 |
|  | 2 | 422/190 | 169 |
|  | 2 | 422/191 | 206 |
| 422/634 | 1 | 422/188 | 108 |
|  | 1 | 422/189 | 290 |
|  | 1 | 422/192 | 28 |
|  | 1 | 422/194 | 67 |
|  | 3 | 422/190 | 169 |
|  | 3 | 422/197 | 184 |
|  | 15 | 422/191 | 206 |
| 422/635 | 1 | 422/189 | 290 |
|  | 1 | 422/190 | 169 |
|  | 3 | 422/191 | 206 |
| 422/636 | 1 | 422/192 | 28 |
|  | 2 | 422/194 | 67 |
|  | 3 | 422/190 | 169 |
|  | 3 | 422/191 | 206 |
| 422/637 | 3 | 422/191 | 206 |
|  | 9 | 422/192 | 28 |
| 422/638 | 1 | 422/194 | 67 |

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/639 | 1 | 422/195 | 39 |
|  | 2 | 422/190 | 169 |
|  | 5 | 422/188 | 108 |
|  | 22 | 422/191 | 206 |
|  | 1 | 422/193 | 109 |
|  | 1 | 422/197 | 184 |
|  | 2 | 422/188 | 108 |
| 422/64 | 1 | 422/100 | 767 |
|  | 1 | 422/101 | 343 |
|  | 1 | 422/99 | 247 |
|  | 2 | 422/102 | 727 |
|  | 2 | 422/104 | 267 |
| 422/640 | 1 | 422/189 | 290 |
|  | 6 | 422/197 | 184 |
| 422/641 | 1 | 422/190 | 169 |
|  | 1 | 422/193 | 109 |
|  | 4 | 422/189 | 290 |
| 422/642 | 1 | 422/193 | 109 |
|  | 2 | 422/188 | 108 |
|  | 2 | 422/189 | 290 |
| 422/643 | 1 | 422/191 | 206 |
|  | 1 | 422/196 | 27 |
|  | 2 | 422/190 | 169 |
|  | 2 | 422/197 | 184 |
|  | 4 | 422/189 | 290 |
|  | 4 | 422/193 | 109 |
|  | 6 | 422/194 | 67 |
| 422/644 | 2 | 422/189 | 290 |
|  | 7 | 422/193 | 109 |
| 422/645 | 1 | 422/189 | 290 |
|  | 1 | 422/194 | 67 |
|  | 3 | 422/195 | 39 |
|  | 4 | 422/193 | 109 |
| 422/646 | 1 | 422/191 | 206 |
|  | 1 | 422/197 | 184 |
|  | 1 | 422/99 | 247 |
|  | 3 | 422/194 | 67 |
|  | 9 | 422/193 | 109 |
| 422/647 | 1 | 422/189 | 290 |
|  | 1 | 422/195 | 39 |
|  | 3 | 422/194 | 67 |
| 422/648 | 1 | 422/191 | 206 |
|  | 1 | 422/194 | 67 |

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| New <br> Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
|  | 5 | 422/195 | 39 |
| 422/649 | 2 | 422/189 | 290 |
| 422/65 | 1 | 422/100 | 767 |
|  | 2 | 422/102 | 727 |
| 422/650 | 1 | 422/196 | 27 |
|  | 1 | 422/197 | 184 |
| 422/651 | 1 | 422/196 | 27 |
|  | 2 | 422/193 | 109 |
|  | 2 | 422/197 | 184 |
|  | 3 | 422/188 | 108 |
| 422/652 | 1 | 422/100 | 767 |
|  | 1 | 422/190 | 169 |
|  | 1 | 422/191 | 206 |
|  | 1 | 422/197 | 184 |
|  | 3 | 422/188 | 108 |
|  | 5 | 422/196 | 27 |
|  | 26 | 422/197 | 184 |
| 422/653 | 1 | 422/196 | 27 |
|  | 4 | 422/197 | 184 |
| 422/654 | 4 | 422/197 | 184 |
| 422/655 | 1 | 422/190 | 169 |
|  | 1 | 422/193 | 109 |
|  | 3 | 422/197 | 184 |
|  | 4 | 422/188 | 108 |
| 422/656 | 1 | 422/193 | 109 |
|  | 1 | 422/197 | 184 |
| 422/657 | 1 | 422/188 | 108 |
|  | 1 | 422/190 | 169 |
|  | 9 | 422/197 | 184 |
| 422/658 | 1 | 422/190 | 169 |
|  | 1 | 422/196 | 27 |
|  | 7 | 422/197 | 184 |
| 422/659 | 1 | 422/190 | 169 |
|  | 1 | 422/193 | 109 |
|  | 2 | 422/188 | 108 |
|  | 2 | 422/189 | 290 |
|  | 16 | 422/197 | 184 |
| 422/66 | 1 | 422/99 | 247 |
| 422/67 | 1 | 422/101 | 343 |
|  | 1 | 422/99 | 247 |
| 422/68.1 | 1 | 422/100 | 767 |
|  | 1 | 422/102 | 727 |
|  | 1 | 422/58 | 400 |

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| New Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/69 | 7 | 422/103 | 111 |
|  | 1 | 422/100 | 767 |
|  | 1 | 422/57 | 123 |
|  | 6 | 422/101 | 343 |
| 422/70 | 1 | 422/100 | 767 |
|  | 1 | 422/99 | 247 |
|  | 2 | 422/101 | 343 |
| 422/72 | 2 | 422/102 | 727 |
| 422/73 | 2 | 422/101 | 343 |
|  | 5 | 422/102 | 727 |
| 422/75 | 1 | 422/104 | 267 |
| 422/80 | 1 | 422/100 | 767 |
| 422/81 | 1 | 422/99 | 247 |
| 422/82 | 2 | 422/103 | 111 |
| 422/82.02 | 1 | 422/57 | 123 |
| 422/82.03 | 1 | 422/102 | 727 |
| 422/82.05 | 1 | 422/101 | 343 |
|  | 1 | 422/102 | 727 |
|  | 2 | 422/58 | 400 |
|  | 2 | 422/99 | 247 |
| 422/82.08 | 1 | 422/104 | 267 |
| 422/82.09 | 1 | 422/58 | 400 |
|  | 1 | 422/99 | 247 |
| 422/82. 12 | 3 | 422/99 | 247 |
| 422/83 | 1 | 422/103 | 111 |
|  | 2 | 422/99 | 247 |
|  | 3 | 422/100 | 767 |
| 422/94 | 1 | 422/99 | 247 |
| 424/184.1 | 1 | 422/189 | 290 |
| 427/163.2 | 1 | 422/57 | 123 |
| 427/2.11 | 1 | 422/101 | 343 |
| 427/2.13 | 1 | 422/56 | 439 |
| 428/545 | 1 | 422/61 | 239 |
| 429/112 | 1 | 422/189 | 290 |
| 434/298 | 1 | 422/61 | 239 |
| 435/286.2 | 1 | 422/56 | 439 |
| 435/287.2 | 1 | 422/101 | 343 |
|  | 1 | 422/104 | 267 |
|  | 2 | 422/58 | 400 |
|  | 4 | 422/102 | 727 |
| 435/288.4 | 1 | 422/104 | 267 |
|  | 3 | 422/102 | 727 |
| 435/288.5 | 1 | 422/102 | 727 |

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| New Classification | Number of ORs | Source Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 435/288.7 | 1 | 422/100 | 767 |
| 435/289.1 | 1 | 422/188 | 108 |
|  | 1 | 422/194 | 67 |
| 435/290.1 | 1 | 422/194 | 67 |
| 435/290.2 | 1 | 422/194 | 67 |
| 435/297.1 | 1 | 422/101 | 343 |
| 435/303.1 | 1 | 422/104 | 267 |
| 435/4 | 1 | 422/61 | 239 |
| 435/6 | 1 | 422/100 | 767 |
| 436/10 | 1 | 422/56 | 439 |
| 436/166 | 1 | 422/58 | 400 |
| 436/169 | 1 | 422/58 | 400 |
| 436/173 | 1 | 422/104 | 267 |
| 436/176 | 1 | 422/58 | 400 |
| 436/177 | 2 | 422/56 | 439 |
| 436/179 | 1 | 422/100 | 767 |
| 436/180 | 1 | 422/100 | 767 |
| 436/3 | 2 | 422/61 | 239 |
| 436/518 | 1 | 422/58 | 400 |
| 436/531 | 1 | 422/58 | 400 |
| 436/58 | 1 | 422/56 | 439 |
| 436/63 | 1 | 422/56 | 439 |
| 436/95 | 1 | 422/56 | 439 |
| 438/1 | 1 | 422/100 | 767 |
| 438/57 | 1 | 422/101 | 343 |
| 48/127.9 | 1 | 422/189 | 290 |
|  | 1 | 422/195 | 39 |
|  | 1 | 422/196 | 27 |
| 48/61 | 1 | 422/192 | 28 |
|  | 2 | 422/193 | 109 |
|  | 3 | 422/196 | 27 |
|  | 5 | 422/189 | 290 |
| 494/16 | 1 | 422/102 | 727 |
|  | 1 | 422/104 | 267 |
| 494/18 | 1 | 422/101 | 343 |
| 494/33 | 1 | 422/102 | 727 |
| 502/407 | 1 | 422/101 | 343 |
| 549/534 | 1 | 422/197 | 184 |
| 585/500 | 1 | 422/197 | 184 |
| 588/306 | 1 | 422/57 | 123 |
| 588/405 | 1 | 422/189 | 290 |
| 600/556 | 1 | 422/58 | 400 |
| 600/572 | 1 | 422/102 | 727 |

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| NewClassification | Number of ORs | Source <br> Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| 600/573 | 1 | 422/101 | 343 |
|  | 2 | 422/104 | 267 |
|  | 3 | 422/61 | 239 |
| 600/574 | 3 | 422/102 | 727 |
| 600/575 | 1 | 422/101 | 343 |
|  | 1 | 422/102 | 727 |
| 600/576 | 1 | 422/100 | 767 |
| 600/583 | 1 | 422/100 | 767 |
|  | 2 | 422/102 | 727 |
| 600/584 | 4 | 422/101 | 343 |
| 604/317 | 1 | 422/104 | 267 |
| 604/327 | 1 | 422/58 | 400 |
| 604/346 | 1 | 422/101 | 343 |
| 604/403 | 1 | 422/101 | 343 |
|  | 2 | 422/102 | 727 |
| 604/405 | 2 | 422/101 | 343 |
| 623/1.1 | 1 | 422/100 | 767 |
| 65/188 | 1 | 422/99 | 247 |
| 73/1.02 | 1 | 422/102 | 727 |
| 73/1.03 | 1 | 422/100 | 767 |
| 73/1.74 | 1 | 422/61 | 239 |
| 73/19.01 | 1 | 422/102 | 727 |
| 73/19.12 | 1 | 422/102 | 727 |
| 73/204.22 | 1 | 422/104 | 267 |
| 73/215 | 2 | 422/58 | 400 |
| 73/30.01 | 1 | 422/100 | 767 |
| 73/53.01 | 2 | 422/102 | 727 |
| 73/61.41 | 4 | 422/102 | 727 |
| 73/61.43 | 3 | 422/102 | 727 |
| 73/61.71 | 1 | 422/102 | 727 |
| 73/64.47 | 1 | 422/101 | 343 |
| 73/64.56 | 1 | 422/100 | 767 |
|  | 1 | 422/101 | 343 |
| 73/73 | 1 | 422/56 | 439 |
| 73/776 | 2 | 422/58 | 400 |
| 73/863 | 1 | 422/100 | 767 |
|  | 1 | 422/104 | 267 |
| 73/863.11 | 1 | 422/100 | 767 |
| 73/863.32 | 1 | 422/100 | 767 |
| 73/863.52 | 1 | 422/58 | 400 |
| 73/863.71 | 1 | 422/100 | 767 |
| 73/864.02 | 1 | 422/100 | 767 |
| 73/864.41 | 1 | 422/58 | 400 |

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PROJECT C-7335
SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

| New <br> Classification | Number <br> of ORS | Source <br> Classification | Number <br> of ORS |
| :---: | :---: | :---: | :---: |
| $99 / 452$ | 1 | $422 / 189$ | 290 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/197 | 184 | 422/656 | 1 |
| 422/190 | 169 | 422/424 | 1 |
| 422/58 | 400 | 422/526 | 1 |
| 422/100 | 767 | 422/526 | 15 |
|  |  | 422/534 | 6 |
| 422/101 | 343 | 422/548 | 2 |
|  |  | 422/549 | 1 |
| 422/104 | 267 | 422/553 | 1 |
| 422/195 | 39 | 422/608 | 1 |
| 422/194 | 67 | 422/610 | 3 |
|  |  | 422/643 | 6 |
| 422/59 | 25 | 422/405 | 2 |
| 422/55 | 70 | 422/413 | 1 |
| 422/102 | 727 | 422/430 | 2 |
| 422/104 | 267 | 422/503 | 1 |
| 422/188 | 108 | 422/504 | 2 |
| 422/100 | 767 | 422/522 | 22 |
| 422/103 | 111 | 422/541 | 5 |
| 422/104 | 267 | 422/541 | 1 |
| 422/61 | 239 | 422/547 | 1 |
| 422/99 | 247 | 422/548 | 1 |
| 422/100 | 767 | 422/561 | 17 |
| 422/188 | 108 | 422/600 | 5 |
| 422/193 | 109 | 422/600 | 2 |
| 422/56 | 439 | 422/414 | 2 |
|  |  | 422/425 | 6 |
| 422/102 | 727 | 422/523 | 1 |
| 422/99 | 247 | 422/547 | 28 |
| 422/189 | 290 | 422/618 | 30 |
| 422/188 | 108 | 422/623 | 2 |
| 422/189 | 290 | 422/624 | 16 |
| 422/101 | 343 | 422/400 | 4 |
| 422/56 | 439 | 422/402 | 3 |
| 422/58 | 400 | 422/411 | 14 |
| 422/57 | 123 | 422/428 | 7 |
|  |  | 422/504 | 4 |
| 422/104 | 267 | 422/511 | 1 |
| 422/101 | 343 | 422/528 | 2 |
| 422/100 | 767 | 422/562 | 4 |
| 422/197 | 184 | 422/628 | 1 |
| 422/192 | 28 | 422/634 | 1 |
| 422/193 | 109 | 422/655 | 1 |
| 422/57 | 123 | 422/402 | 5 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/56 | 439 | 422/404 | 12 |
| 422/55 | 70 | 422/417 | 1 |
| 422/56 | 439 | 422/421 | 42 |
| 422/61 | 239 | 422/555 | 1 |
| 422/189 | 290 | 422/602 | 1 |
| 422/195 | 39 | 422/607 | 5 |
| 422/188 | 108 | 422/621 | 3 |
| 422/194 | 67 | 422/624 | 2 |
| 422/188 | 108 | 422/638 | 5 |
| 422/61 | 239 | 422/403 | 3 |
| 422/58 | 400 | 422/412 | 38 |
| 422/61 | 239 | 422/417 | 10 |
| 422/190 | 169 | 422/502 | 1 |
| 422/104 | 267 | 422/527 | 2 |
| 422/58 | 400 | 422/550 | 3 |
| 422/61 | 239 | 422/561 | 1 |
| 422/104 | 267 | 422/564 | 12 |
| 422/190 | 169 | 422/605 | 2 |
| 422/189 | 290 | 422/631 | 6 |
| 422/191 | 206 | 422/637 | 3 |
| 422/197 | 184 | 422/646 | 1 |
| 422/195 | 39 | 422/647 | 1 |
| 422/101 | 343 | 422/501 | 1 |
| 422/102 | 727 | 422/502 | 7 |
| 422/100 | 767 | 422/504 | 75 |
|  |  | 422/508 | 5 |
| 422/102 | 727 | 422/525 | 1 |
| 422/99 | 247 | 422/534 | 6 |
| 422/101 | 343 | 422/535 | 46 |
|  |  | 422/547 | 4 |
| 422/99 | 247 | 422/561 | 11 |
| 422/195 | 39 | 422/606 | 5 |
| 422/188 | 108 | 422/609 | 1 |
| 422/193 | 109 | 422/610 | 5 |
| 422/197 | 184 | 422/619 | 2 |
| 422/188 | 108 | 422/624 | 4 |
| 422/193 | 109 | 422/626 | 1 |
| 422/190 | 169 | 422/635 | 1 |
| 422/197 | 184 | 422/653 | 4 |
| 422/58 | 400 | 422/410 | 6 |
| 422/59 | 25 | 422/416 | 4 |
| 422/104 | 267 | 422/548 | 1 |
|  |  | 422/549 | 3 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/191 | 206 | 422/605 | 32 |
| 422/192 | 28 | 422/610 | 1 |
| 422/188 | 108 | 422/626 | 4 |
| 422/189 | 290 | 422/649 | 2 |
|  |  | 422/618 | 1 |
| 422/100 | 767 | 422/509 | 2 |
| 422/102 | 727 | 422/551 | 1 |
| 422/99 | 247 | 422/94 | 1 |
| 422/102 | 727 | 356/246 | 13 |
| 422/194 | 67 | 422/109 | 1 |
| 422/101 | 343 | 604/403 | 1 |
|  |  | 422/70 | 2 |
| 422/102 | 727 | 422/159 | 1 |
| 422/101 | 343 | 422/73 | 2 |
| 422/100 | 767 | 204/613 | 1 |
| 422/104 | 267 | 435/287.2 | 1 |
| 422/195 | 39 | 48/127.9 | 1 |
| 422/189 | 290 | 422/241 | 1 |
| 422/58 | 400 | 73/215 | 2 |
| 422/102 | 727 | 422/242 | 2 |
| 422/58 | 400 | 436/518 | 1 |
| 422/104 | 267 | 235/435 | 1 |
| 422/102 | 727 | 73/19.12 | 1 |
| 422/189 | 290 | 422/111 | 1 |
| 422/102 | 727 | 600/583 | 2 |
| 422/196 | 27 | 422/139 | 1 |
| 422/197 | 184 | 422/288 | 1 |
| 422/56 | 439 | 436/63 | 1 |
| 422/189 | 290 | 422/140 | 2 |
| 422/61 | 239 | 428/545 | 1 |
| 422/102 | 727 | 73/61.71 | 1 |
| 422/193 | 109 | 422/224 | 1 |
| 422/100 | 767 | 623/1.1 | 1 |
| 422/101 | 343 | 422/159 | 1 |
| 422/189 | 290 | 424/184.1 | 1 |
| 422/188 | 108 | 422/199 | 2 |
| 422/103 | 111 | 422/68.1 | 7 |
| 422/102 | 727 | 422/129 | 2 |
| 422/61 | 239 | 600/573 | 3 |
| 422/100 | 767 | 73/863 | 1 |
| 422/101 | 343 | 502/407 | 1 |
| 422/100 | 767 | 438/1 | 1 |
| 422/60 | 15 | 422/417 | 1 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source <br> classification | Number of ORs | New <br> Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/57 | 123 | 422/424 | 3 |
| 422/61 | 239 | 422/425 | 2 |
| 422/101 | 343 | 422/525 | 1 |
| 422/102 | 727 | 422/536 | 19 |
| 422/191 | 206 | 422/607 | 34 |
| 422/193 | 109 | 422/620 | 1 |
| 422/56 | 439 | 422/407 | 2 |
| 422/58 | 400 | 422/426 | 2 |
| 422/99 | 247 | 422/536 | 14 |
| 422/100 | 767 | 422/537 | 3 |
| 422/58 | 400 | 422/561 | 2 |
| 422/192 | 28 | 422/606 | 1 |
| 422/195 | 39 | 422/610 | 2 |
| 422/190 | 169 | 422/612 | 10 |
| 422/188 | 108 | 422/614 | 6 |
| 422/189 | 290 | 422/616 | 7 |
| 422/188 | 108 | 422/618 | 3 |
| 422/194 | 67 | 422/622 | 2 |
| 422/190 | 169 | 422/623 | 2 |
| 422/193 | 109 | 422/624 | 7 |
| 422/190 | 169 | 422/626 | 4 |
| 422/189 | 290 | 422/645 | 1 |
| 422/104 | 267 | 422/404 | 1 |
| 422/102 | 727 | 422/501 | 5 |
| 422/191 | 206 | 422/528 | 1 |
| 422/104 | 267 | 422/563 | 9 |
| 422/100 | 767 | 422/606 | 3 |
| 422/192 | 28 | 422/609 | 1 |
| 422/194 | 67 | 422/627 | 1 |
| 422/191 | 206 | 422/628 | 4 |
| 422/188 | 108 | 422/642 | 2 |
| 422/58 | 400 | 422/413 | 11 |
| 422/104 | 267 | 422/417 | 1 |
| 422/61 | 239 | 422/424 | 1 |
| 422/103 | 111 | 422/504 | 3 |
|  |  | 422/537 | 15 |
|  |  | 422/538 | 5 |
| 422/99 | 247 | 422/566 | 5 |
| 422/197 | 184 | 422/606 | 4 |
| 422/189 | 290 | 422/608 | 23 |
| 422/191 | 206 | 422/622 | 3 |
| 422/61 | 239 | 422/416 | 5 |
| 422/58 | 400 | 422/419 | 9 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS

 FROM ABOLISHED SUBCLASSES REPORTGenerated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/100 | 767 | 422/533 | 1 |
| 422/190 | 169 | 422/611 | 1 |
|  |  | 422/616 | 5 |
| 422/191 | 206 | 422/617 | 3 |
|  |  | 422/631 | 1 |
| 422/190 | 169 | 422/633 | 2 |
| 422/197 | 184 | 422/634 | 3 |
| 422/189 | 290 | 422/644 | 2 |
| 422/193 | 109 | 422/651 | 2 |
| 422/196 | 27 | 422/658 | 1 |
| 422/102 | 727 | 422/401 | 3 |
| 422/99 | 247 | 422/513 | 1 |
|  |  | 422/530 | 3 |
| 422/102 | 727 | 422/534 | 17 |
| 422/57 | 123 | 422/547 | 1 |
| 422/103 | 111 | 422/554 | 1 |
| 422/190 | 169 | 422/614 | 4 |
| 422/194 | 67 | 422/648 | 1 |
| 422/188 | 108 | 422/655 | 4 |
|  |  | 422/659 | 2 |
| 422/101 | 343 | 422/500 | 1 |
|  |  | 422/502 | 6 |
| 422/56 | 439 | 422/504 | 2 |
| 422/102 | 727 | 422/527 | 15 |
| 422/101 | 343 | 422/532 | 8 |
| 422/99 | 247 | 422/568 | 12 |
| 422/196 | 27 | 422/600 | 1 |
| 422/190 | 169 | 422/615 | 3 |
| 422/194 | 67 | 422/616 | 1 |
| 422/189 | 290 | 422/622 | 8 |
|  |  | 422/623 | 2 |
| 422/192 | 28 | 422/637 | 9 |
| 422/190 | 169 | 422/652 | 1 |
| 422/99 | 247 | 422/411 | 1 |
| 422/102 | 727 | 422/417 | 6 |
| 422/101 | 343 | 422/510 | 1 |
|  |  | 422/514 | 1 |
| 422/103 | 111 | 422/547 | 3 |
|  |  | 422/565 | 2 |
| 422/193 | 109 | 422/604 | 3 |
| 422/194 | 67 | 422/611 | 1 |
| 422/189 | 290 | 422/625 | 1 |
| 422/188 | 108 | 422/639 | 2 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS

 FROM ABOLISHED SUBCLASSES REPORTGenerated by Data Control Division

| Source <br> classification | Number of ORs | New <br> Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/190 | 169 | 422/643 | 2 |
| 422/193 | 109 | 422/645 | 4 |
| 422/102 | 727 | 422/536 | 1 |
| 422/56 | 439 | 422/425 | 1 |
| 422/61 | 239 | 436/3 | 2 |
| 422/104 | 267 | 494/16 | 1 |
|  |  | 159/6.1 | 1 |
| 422/102 | 727 | 600/574 | 3 |
| 422/101 | 343 | 494/18 | 1 |
| 422/104 | 267 | 422/64 | 2 |
| 422/189 | 290 | 429/112 | 1 |
| 422/58 | 400 | 436/169 | 1 |
| 422/101 | 343 | 422/67 | 1 |
| 422/103 | 111 | 137/9 | 1 |
| 422/102 | 727 | 494/33 | 1 |
| 422/56 | 439 | 436/177 | 2 |
| 422/102 | 727 | 422/63 | 3 |
| 422/58 | 400 | 210/359 | 1 |
| 422/188 | 108 | 422/225 | 1 |
|  |  | 422/142 | 1 |
| 422/102 | 727 | 73/61.43 | 3 |
| 422/189 | 290 | 422/200 | 1 |
| 422/103 | 111 | 210/321.71 | 1 |
| 422/100 | 767 | 73/64.56 | 1 |
| 422/189 | 290 | 48/61 | 5 |
| 422/100 | 767 | 73/1.03 | 1 |
| 422/104 | 267 | 250/440.11 | 1 |
| 422/193 | 109 | 422/225 | 1 |
| 422/101 | 343 | 73/64.47 | 1 |
|  |  | 366/209 | 2 |
| 422/58 | 400 | 73/864.41 | 1 |
| 422/102 | 727 | 422/241 | 1 |
|  |  | 73/61.41 | 4 |
| 422/194 | 67 | 435/289.1 | 1 |
| 422/102 | 727 | 366/220 | 1 |
|  |  | 435/287.2 | 4 |
|  |  | 600/575 | 1 |
| 422/58 | 400 | 356/409 | 1 |
| 422/197 | 184 | 422/658 | 7 |
| 422/99 | 247 | 422/400 | 4 |
| 422/61 | 239 | 422/402 | 5 |
| 422/59 | 25 | 422/422 | 1 |
| 422/100 | 767 | 422/547 | 3 |

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PROJECT C-7335

## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/189 | 290 | 422/604 | 8 |
|  |  | 422/605 | 7 |
| 422/191 | 206 | 422/606 | 13 |
| 422/190 | 169 | 422/631 | 9 |
| 422/194 | 67 | 422/636 | 2 |
| 422/190 | 169 | 422/638 | 2 |
| 422/58 | 400 | 422/403 | 6 |
| 422/61 | 239 | 422/407 | 2 |
| 422/100 | 767 | 422/424 | 1 |
| 422/101 | 343 | 422/519 | 1 |
| 422/102 | 727 | 422/550 | 39 |
| 422/196 | 27 | 422/604 | 1 |
| 422/189 | 290 | 422/614 | 14 |
| 422/197 | 184 | 422/618 | 3 |
| 422/193 | 109 | 422/659 | 1 |
| 422/59 | 25 | 422/408 | 3 |
| 422/61 | 239 | 422/562 | 1 |
| 422/188 | 108 | 422/607 | 1 |
| 422/197 | 184 | 422/624 | 3 |
| 422/56 | 439 | 422/400 | 20 |
| 422/55 | 70 | 422/401 | 6 |
| 422/60 | 15 | 422/413 | 4 |
| 422/55 | 70 | 422/422 | 2 |
| 422/61 | 239 | 422/430 | 130 |
| 422/100 | 767 | 422/506 | 7 |
|  |  | 422/521 | 15 |
|  |  | 422/527 | 3 |
| 422/61 | 239 | 422/537 | 1 |
| 422/99 | 247 | 422/544 | 1 |
|  |  | 422/550 | 7 |
| 422/56 | 439 | 422/562 | 1 |
| 422/188 | 108 | 422/601 | 2 |
| 422/189 | 290 | 422/606 | 25 |
| 422/197 | 184 | 422/621 | 2 |
| 422/191 | 206 | 422/632 | 8 |
| 422/193 | 109 | 422/641 | 1 |
| 422/58 | 400 | 422/401 | 81 |
| 422/56 | 439 | 422/429 | 10 |
| 422/57 | 123 | 422/502 | 1 |
| 422/190 | 169 | 422/504 | 1 |
| 422/102 | 727 | 422/513 | 1 |
| 422/99 | 247 | 422/542 | 1 |
| 422/190 | 169 | 422/609 | 6 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS

 FROM ABOLISHED SUBCLASSES REPORTGenerated by Data Control Division
$\left.\begin{array}{lrlll}\begin{array}{c}\text { Source } \\ \text { Classification }\end{array} & \begin{array}{c}\text { Number } \\ \text { of ORs }\end{array} & & \begin{array}{c}\text { New } \\ \text { Classification }\end{array} & \end{array} \begin{array}{c}\text { Number } \\ \text { of }\end{array}\right)$

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source <br> classification | Number of ORs | New <br> Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/104 | 267 | 235/486 | 1 |
|  |  | 435/303.1 | 1 |
| 422/191 | 206 | 202/158 | 1 |
| 422/58 | 400 | 436/531 | 1 |
| 422/57 | 123 | 427/163.2 | 1 |
| 422/100 | 767 | 222/1 | 1 |
| 422/104 | 267 | 600/573 | 2 |
| 422/103 | 111 | 422/83 | 1 |
| 422/58 | 400 | 422/82. 05 | 2 |
| 422/104 | 267 | 15/320 | 1 |
| 422/100 | 767 | 436/180 | 1 |
| 422/104 | 267 | 422/109 | 1 |
| 422/100 | 767 | 435/288.7 | 1 |
|  |  | 435/6 | 1 |
| 422/101 | 343 | 422/401 | 1 |
| 422/55 | 70 | 422/404 | 15 |
| 422/58 | 400 | 422/404 | 17 |
| 422/61 | 239 | 422/411 | 5 |
| 422/55 | 70 | 422/416 | 2 |
|  |  | 422/423 | 1 |
| 422/102 | 727 | 422/510 | 1 |
| 422/100 | 767 | 422/512 | 14 |
|  |  | 422/514 | 17 |
|  |  | 422/523 | 8 |
| 422/99 | 247 | 422/535 | 3 |
| 422/103 | 111 | 422/570 | 1 |
| 422/190 | 169 | 422/601 | 7 |
| 422/189 | 290 | 422/615 | 2 |
| 422/191 | 206 | 422/635 | 3 |
| 422/99 | 247 | 422/646 | 1 |
| 422/190 | 169 | 422/655 | 1 |
| 422/61 | 239 | 422/401 | 14 |
| 422/57 | 123 | 422/427 | 1 |
| 422/194 | 67 | 422/605 | 9 |
| 422/190 | 169 | 422/610 | 23 |
| 422/196 | 27 | 422/612 | 1 |
| 422/188 | 108 | 422/617 | 1 |
| 422/190 | 169 | 422/625 | 3 |
| 422/191 | 206 | 422/626 | 4 |
| 422/194 | 67 | 422/645 | 1 |
| 422/57 | 123 | 422/422 | 1 |
| 422/100 | 767 | 422/501 | 85 |
| 422/102 | 727 | 422/503 | 10 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source <br> classification | Number of ORs | New <br> Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/101 | 343 | 422/503 | 3 |
| 422/100 | 767 | 422/538 | 1 |
| 422/103 | 111 | 422/542 | 3 |
| 422/102 | 727 | 422/556 | 7 |
| 422/197 | 184 | 422/615 | 2 |
| 422/56 | 439 | 422/408 | 25 |
|  |  | 422/412 | 22 |
| 422/103 | 111 | 422/501 | 7 |
| 422/101 | 343 | 422/526 | 1 |
| 422/103 | 111 | 422/543 | 1 |
| 422/188 | 108 | 422/608 | 5 |
| 422/193 | 109 | 422/609 | 6 |
| 422/190 | 169 | 422/630 | 2 |
| 422/197 | 184 | 422/643 | 2 |
| 422/190 | 169 | 422/657 | 1 |
| 422/102 | 727 | 422/400 | 11 |
| 422/100 | 767 | 422/412 | 1 |
| 422/56 | 439 | 422/547 | 1 |
| 422/103 | 111 | 422/550 | 1 |
| 422/102 | 727 | 422/569 | 4 |
|  |  | 422/570 | 1 |
| 422/188 | 108 | 422/603 | 1 |
| 422/197 | 184 | 422/613 | 1 |
| 422/191 | 206 | 422/633 | 2 |
| 422/197 | 184 | 422/639 | 1 |
| 422/100 | 767 | 422/400 | 9 |
| 422/55 | 70 | 422/402 | 5 |
| 422/56 | 439 | 422/417 | 8 |
| 422/103 | 111 | 422/534 | 1 |
| 422/102 | 727 | 422/547 | 199 |
| 422/190 | 169 | 422/550 | 1 |
| 422/101 | 343 | 422/552 | 5 |
| 422/193 | 109 | 422/607 | 8 |
| 422/188 | 108 | 422/612 | 5 |
| 422/197 | 184 | 422/614 | 4 |
| 422/191 | 206 | 422/616 | 1 |
|  |  | 422/618 | 3 |
| 422/197 | 184 | 422/622 | 1 |
| 422/193 | 109 | 422/622 | 1 |
| 422/188 | 108 | 422/630 | 3 |
| 422/193 | 109 | 422/644 | 7 |
| 422/61 | 239 | 422/400 | 5 |
| 422/55 | 70 | 422/411 | 1 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source <br> classification | Number of ORs | New <br> Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/57 | 123 | 422/417 | 7 |
| 422/56 | 439 | 422/426 | 4 |
| 422/99 | 247 | 422/501 | 6 |
| 422/197 | 184 | 422/604 | 4 |
| 422/193 | 109 | 422/631 | 2 |
| 422/189 | 290 | 422/659 | 2 |
| 422/56 | 439 | 422/424 | 40 |
| 422/100 | 767 | 422/427 | 1 |
| 422/58 | 400 | 422/506 | 1 |
| 422/100 | 767 | 422/528 | 1 |
| 422/102 | 727 | 422/549 | 43 |
| 422/58 | 400 | 422/552 | 1 |
| 422/104 | 267 | 422/562 | 61 |
| 422/188 | 108 | 422/610 | 8 |
|  |  | 422/619 | 5 |
| 422/189 | 290 | 422/621 | 2 |
| 422/188 | 108 | 422/631 | 1 |
| 422/197 | 184 | 422/650 | 1 |
|  |  | 422/652 | 26 |
| 422/104 | 267 | 422/401 | 1 |
| 422/58 | 400 | 422/421 | 1 |
| 422/102 | 727 | 422/553 | 1 |
| 422/58 | 400 | 436/176 | 1 |
| 422/99 | 247 | 422/63 | 3 |
| 422/194 | 67 | 422/106 | 1 |
| 422/99 | 247 | 422/82. 09 | 1 |
| 422/56 | 439 | 116/200 | 2 |
| 422/58 | 400 | 600/556 | 1 |
| 422/189 | 290 | 422/129 | 1 |
|  |  | 48/127.9 | 1 |
| 422/100 | 767 | 73/863. 32 | 1 |
| 422/104 | 267 | 435/288.4 | 1 |
| 422/61 | 239 | 434/298 | 1 |
| 422/188 | 108 | 203/49 | 1 |
| 422/99 | 247 | 422/83 | 2 |
| 422/56 | 439 | 106/31.17 | 1 |
| 422/102 | 727 | 204/601 | 1 |
| 422/189 | 290 | 588/405 | 1 |
| 422/192 | 28 | 422/140 | 1 |
| 422/100 | 767 | 436/179 | 1 |
| 422/189 | 290 | 422/106 | 1 |
| 422/99 | 247 | 422/70 | 1 |
| 422/100 | 767 | 422/130 | 4 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS

 FROM ABOLISHED SUBCLASSES REPORTGenerated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/101 | 343 | 422/63 | 1 |
| 422/196 | 27 | 422/108 | 1 |
| 422/102 | 727 | 73/53.01 | 2 |
| 422/61 | 239 | 422/28 | 1 |
| 422/194 | 67 | 435/290.1 | 1 |
| 422/57 | 123 | 422/82. 02 | 1 |
| 422/101 | 343 | 73/64.56 | 1 |
|  |  | 422/44 | 1 |
| 422/100 | 767 | 359/398 | 1 |
|  |  | 73/864.02 | 1 |
| 422/101 | 343 | 422/218 | 1 |
| 422/104 | 267 | 73/863 | 1 |
| 422/100 | 767 | 159/44 | 1 |
|  |  | 204/601 | 1 |
|  |  | 422/430 | 1 |
| 422/56 | 439 | 422/430 | 1 |
| 422/100 | 767 | 422/525 | 40 |
| 422/102 | 727 | 422/552 | 65 |
| 422/99 | 247 | 422/552 | 13 |
|  |  | 422/554 | 1 |
| 422/101 | 343 | 422/565 | 1 |
| 422/99 | 247 | 422/569 | 10 |
| 422/195 | 39 | 422/605 | 4 |
| 422/191 | 206 | 422/610 | 4 |
| 422/194 | 67 | 422/618 | 3 |
|  |  | 422/619 | 2 |
| 422/190 | 169 | 422/634 | 3 |
| 422/57 | 123 | 422/408 | 10 |
| 422/58 | 400 | 422/415 | 3 |
| 422/100 | 767 | 422/417 | 4 |
|  |  | 422/503 | 45 |
| 422/58 | 400 | 422/503 | 1 |
| 422/100 | 767 | 422/518 | 9 |
| 422/102 | 727 | 422/566 | 4 |
| 422/191 | 206 | 422/602 | 1 |
|  |  | 422/603 | 4 |
| 422/197 | 184 | 422/607 | 14 |
| 422/189 | 290 | 422/607 | 6 |
|  |  | 422/619 | 1 |
| 422/102 | 727 | 422/404 | 3 |
| 422/55 | 70 | 422/552 | 1 |
| 422/99 | 247 | 422/565 | 5 |
| 422/102 | 727 | 422/606 | 2 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source <br> Classification | Number of ORs | New <br> Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/189 | 290 | 422/609 | 12 |
| 422/193 | 109 | 422/629 | 2 |
| 422/189 | 290 | 422/641 | 4 |
| 422/55 | 70 | 422/400 | 8 |
| 422/58 | 400 | 422/402 | 5 |
| 422/102 | 727 | 422/403 | 1 |
| 422/99 | 247 | 422/502 | 2 |
| 422/101 | 343 | 422/536 | 4 |
| 422/103 | 111 | 422/539 | 5 |
| 422/61 | 239 | 422/550 | 1 |
| 422/102 | 727 | 422/551 | 10 |
| 422/100 | 767 | 422/552 | 2 |
| 422/104 | 267 | 422/561 | 45 |
| 422/102 | 727 | 422/562 | 11 |
| 422/197 | 184 | 422/610 | 4 |
| 422/191 | 206 | 422/614 | 3 |
| 422/193 | 109 | 422/618 | 6 |
| 422/191 | 206 | 422/624 | 1 |
| 422/189 | 290 | 422/642 | 2 |
| 422/197 | 184 | 422/657 | 9 |
| 422/55 | 70 | 422/414 | 4 |
| 422/104 | 267 | 422/552 | 3 |
| 422/190 | 169 | 422/600 | 1 |
| 422/192 | 28 | 422/604 | 1 |
| 422/193 | 109 | 422/605 | 2 |
| 422/194 | 67 | 422/614 | 1 |
| 422/197 | 184 | 422/629 | 18 |
| 422/188 | 108 | 422/651 | 3 |
| 422/56 | 439 | 422/411 | 4 |
| 422/104 | 267 | 422/504 | 3 |
| 422/188 | 108 | 422/611 | 1 |
| 422/196 | 27 | 422/625 | 1 |
| 422/57 | 123 | 422/404 | 9 |
|  |  | 422/407 | 1 |
| 422/55 | 70 | 422/412 | 3 |
| 422/61 | 239 | 422/420 | 1 |
| 422/56 | 439 | 422/552 | 2 |
| 422/101 | 343 | 422/553 | 2 |
| 422/103 | 111 | 422/561 | 2 |
| 422/104 | 267 | 422/565 | 10 |
|  |  | 422/569 | 2 |
| 422/189 | 290 | 422/601 | 3 |
| 422/190 | 169 | 422/604 | 3 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS

 FROM ABOLISHED SUBCLASSES REPORTGenerated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
|  |  | 422/636 | 3 |
| 422/100 | 767 | 422/404 | 2 |
| 422/102 | 727 | 422/410 | 1 |
| 422/55 | 70 | 422/415 | 2 |
| 422/58 | 400 | 422/422 | 2 |
| 422/100 | 767 | 422/513 | 22 |
|  |  | 422/519 | 7 |
|  |  | 422/536 | 1 |
| 422/188 | 108 | 422/606 | 3 |
|  |  | 422/616 | 2 |
| 422/189 | 290 | 422/634 | 1 |
| 422/194 | 67 | 422/647 | 3 |
| 422/100 | 767 | 422/547 | 1 |
| 422/58 | 400 | 422/418 | 1 |
| 422/56 | 439 | 422/423 | 1 |
| 422/190 | 169 | 422/632 | 2 |
| 422/56 | 439 | 422/422 | 2 |
| 422/102 | 727 | 422/527 | 1 |
| 422/58 | 400 | 422/425 | 1 |
| 422/188 | 108 | 422/626 | 1 |
| 422/100 | 767 | 73/30.01 | 1 |
| 422/58 | 400 | 219/413 | 1 |
| 422/189 | 290 | 422/233 | 1 |
|  |  | 99/452 | 1 |
| 422/100 | 767 | 422/68.1 | 1 |
| 422/99 | 247 | 422/26 | 1 |
| 422/101 | 343 | 210/198.2 | 1 |
|  |  | 117/202 | 1 |
| 422/100 | 767 | 422/64 | 1 |
|  |  | 600/576 | 1 |
| 422/104 | 267 | 422/63 | 2 |
| 422/196 | 27 | 48/127.9 | 1 |
| 422/100 | 767 | 422/83 | 3 |
| 422/102 | 727 | 73/19.01 | 1 |
| 422/103 | 111 | 422/63 | 3 |
| 422/102 | 727 | 422/73 | 5 |
|  |  | 494/16 | 1 |
| 422/104 | 267 | 378/86 | 1 |
| 422/192 | 28 | 48/61 | 1 |
| 422/194 | 67 | 435/290. 2 | 1 |
| 422/101 | 343 | 604/405 | 2 |
|  |  | 422/69 | 6 |
| 422/188 | 108 | 422/168 | 1 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/58 | 400 | 422/68.1 | 1 |
| 422/104 | 267 | 34/218 | 1 |
| 422/102 | 727 | 210/222 | 1 |
| 422/56 | 439 | 436/58 | 1 |
| 422/102 | 727 | 422/68.1 | 1 |
|  |  | 422/509 | 2 |
| 422/101 | 343 | 422/544 | 1 |
| 422/102 | 727 | 422/554 | 1 |
| 422/100 | 767 | 422/564 | 1 |
| 422/192 | 28 | 422/600 | 2 |
| 422/189 | 290 | 422/612 | 20 |
| 422/193 | 109 | 422/621 | 3 |
| 422/197 | 184 | 422/627 | 1 |
| 422/190 | 169 | 422/629 | 8 |
| 422/57 | 123 | 422/412 | 3 |
| 422/58 | 400 | 422/420 | 2 |
|  |  | 422/502 | 2 |
| 422/102 | 727 | 422/548 | 32 |
| 422/194 | 67 | 422/607 | 6 |
| 422/197 | 184 | 422/608 | 2 |
| 422/196 | 27 | 422/611 | 1 |
| 422/190 | 169 | 422/618 | 9 |
| 422/191 | 206 | 422/636 | 3 |
| 422/61 | 239 | 422/408 | 5 |
| 422/56 | 439 | 422/413 | 6 |
| 422/99 | 247 | 422/500 | 17 |
| 422/102 | 727 | 422/504 | 11 |
| 422/61 | 239 | 422/534 | 1 |
| 422/101 | 343 | 422/534 | 78 |
| 422/104 | 267 | 422/547 | 2 |
| 422/101 | 343 | 422/554 | 1 |
| 422/190 | 169 | 422/607 | 4 |
|  |  | 422/608 | 8 |
|  |  | 422/617 | 2 |
| 422/192 | 28 | 422/619 | 1 |
| 422/196 | 27 | 422/621 | 1 |
| 422/195 | 39 | 422/625 | 2 |
| 422/191 | 206 | 422/634 | 15 |
| 422/193 | 109 | 422/642 | 1 |
| 422/58 | 400 | 422/414 | 1 |
| 422/56 | 439 | 422/420 | 92 |
| 422/100 | 767 | 422/422 | 3 |
| 422/56 | 439 | 422/423 | 35 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS

 FROM ABOLISHED SUBCLASSES REPORTGenerated by Data Control Division

| Source | Number of ORs | New <br> Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/58 | 400 | 422/424 | 1 |
| 422/100 | 767 | 422/500 | 4 |
| 422/102 | 727 | 422/535 | 4 |
| 422/196 | 27 | 422/603 | 1 |
| 422/193 | 109 | 422/612 | 1 |
| 422/195 | 39 | 422/613 | 1 |
| 422/196 | 27 | 422/653 | 1 |
| 422/57 | 123 | 422/400 | 3 |
| 422/61 | 239 | 422/421 | 1 |
| 422/101 | 343 | 422/430 | 4 |
|  |  | 422/513 | 4 |
|  |  | 422/520 | 1 |
|  |  | 422/530 | 7 |
| 422/191 | 206 | 422/604 | 4 |
| 422/194 | 67 | 422/606 | 8 |
| 422/193 | 109 | 422/608 | 3 |
| 422/195 | 39 | 422/624 | 1 |
| 422/193 | 109 | 422/656 | 1 |
| 422/197 | 184 | 422/659 | 16 |
| 422/58 | 400 | 422/400 | 9 |
|  |  | 422/409 | 4 |
|  |  | 422/417 | 59 |
| 422/55 | 70 | 422/420 | 2 |
| 422/58 | 400 | 422/423 | 2 |
| 422/99 | 247 | 422/430 | 2 |
| 422/100 | 767 | 422/524 | 3 |
| 422/195 | 39 | 422/604 | 1 |
| 422/193 | 109 | 422/614 | 4 |
| 422/57 | 123 | 422/401 | 8 |
| 422/59 | 25 | 422/401 | 5 |
| 422/61 | 239 | 422/409 | 2 |
| 422/102 | 727 | 422/412 | 1 |
| 422/56 | 439 | 422/422 | 24 |
| 422/100 | 767 | 422/502 | 37 |
| 422/101 | 343 | 422/504 | 7 |
| 422/100 | 767 | 422/507 | 11 |
| 422/101 | 343 | 422/527 | 34 |
|  |  | 422/538 | 1 |
| 422/99 | 247 | 422/545 | 1 |
| 422/104 | 267 | 422/550 | 1 |
| 422/102 | 727 | 422/557 | 4 |
| 422/196 | 27 | 422/650 | 1 |
| 422/56 | 439 | 422/401 | 29 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source <br> classification | Number of ORs | New <br> Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/61 | 239 | 422/412 | 7 |
|  |  | 422/429 | 1 |
| 422/196 | 27 | 422/503 | 1 |
| 422/55 | 70 | 422/504 | 2 |
| 422/100 | 767 | 422/511 | 20 |
| 422/99 | 247 | 422/527 | 12 |
|  |  | 422/556 | 1 |
| 422/101 | 343 | 422/561 | 1 |
| 422/196 | 27 | 422/601 | 1 |
| 422/197 | 184 | 422/625 | 17 |
| 422/103 | 111 | 422/503 | 1 |
| 422/191 | 206 | 422/632 | 1 |
| 422/197 | 184 | 422/652 | 1 |
| 422/102 | 727 | 422/82.03 | 1 |
| 422/197 | 184 | 422/108 | 1 |
| 422/190 | 169 | 422/218 | 1 |
| 422/102 | 727 | 346/80 | 1 |
| 422/101 | 343 | 600/575 | 1 |
| 422/104 | 267 | 206/561 | 1 |
| 422/102 | 727 | 422/64 | 2 |
| 422/197 | 184 | 585/500 | 1 |
| 422/57 | 123 | 422/69 | 1 |
| 422/188 | 108 | 422/278 | 1 |
| 422/58 | 400 | 422/82.09 | 1 |
| 422/102 | 727 | 422/82.05 | 1 |
| 422/100 | 767 | 73/863.71 | 1 |
| 422/104 | 267 | 378/51 | 1 |
| 422/61 | 239 | 422/38 | 1 |
| 422/56 | 439 | 204/616 | 1 |
| 422/99 | 247 | 422/66 | 1 |
| 422/102 | 727 | 435/288.4 | 3 |
| 422/58 | 400 | 73/776 | 2 |
| 422/104 | 267 | 422/82.08 | 1 |
| 422/102 | 727 | 422/42 | 1 |
| 422/57 | 123 | 588/306 | 1 |
| 422/102 | 727 | 368/179 | 1 |
| 422/189 | 290 | 422/292 | 1 |
| 422/58 | 400 | 356/39 | 1 |
| 422/102 | 727 | 73/1.02 | 1 |
| 422/104 | 267 | 422/400 | 2 |
| 422/61 | 239 | 422/404 | 4 |
| 422/57 | 123 | 422/411 | 1 |
|  |  | 422/416 | 3 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/103 | 111 | 422/502 | 3 |
| 422/102 | 727 | 422/505 | 5 |
|  |  | 422/555 | 9 |
| 422/191 | 206 | 422/623 | 2 |
| 422/192 | 28 | 422/626 | 1 |
| 422/194 | 67 | 422/634 | 1 |
| 422/195 | 39 | 422/645 | 3 |
| 422/57 | 123 | 422/426 | 10 |
| 422/58 | 400 | 422/430 | 5 |
| 422/101 | 343 | 422/506 | 1 |
| 422/99 | 247 | 422/509 | 2 |
| 422/101 | 343 | 422/531 | 8 |
| 422/99 | 247 | 422/537 | 3 |
| 422/100 | 767 | 422/550 | 2 |
| 422/103 | 111 | 422/552 | 1 |
| 422/102 | 727 | 422/563 | 2 |
| 422/193 | 109 | 422/606 | 9 |
| 422/191 | 206 | 422/625 | 5 |
| 422/189 | 290 | 422/626 | 2 |
| 422/190 | 169 | 422/628 | 1 |
| 422/189 | 290 | 422/635 | 1 |
| 422/191 | 206 | 422/648 | 1 |
| 422/188 | 108 | 422/652 | 3 |
| 422/197 | 184 | 422/655 | 3 |
| 422/188 | 108 | 422/657 | 1 |
| 422/60 | 15 | 422/401 | 3 |
| 422/56 | 439 | 422/405 | 2 |
| 422/58 | 400 | 422/408 | 36 |
| 422/104 | 267 | 422/501 | 2 |
| 422/100 | 767 | 422/505 | 15 |
| 422/103 | 111 | 422/512 | 1 |
| 422/190 | 169 | 422/622 | 1 |
| 422/196 | 27 | 422/643 | 1 |
| 422/99 | 247 | 422/514 | 1 |
| 422/100 | 767 | 422/535 | 2 |
| 422/192 | 28 | 422/608 | 2 |
| 422/195 | 39 | 422/612 | 1 |
| 422/61 | 239 | 422/415 | 1 |
| 422/58 | 400 | 422/421 | 5 |
| 422/101 | 343 | 422/421 | 1 |
| 422/104 | 267 | 422/510 | 3 |
| 422/100 | 767 | 422/530 | 1 |
| 422/102 | 727 | 422/533 | 3 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division
$\left.\begin{array}{lrlll}\begin{array}{c}\text { Source } \\ \text { Classification }\end{array} & \begin{array}{c}\text { Number } \\ \text { of ORs }\end{array} & & \begin{array}{c}\text { New } \\ \text { Classification }\end{array} & \end{array} \begin{array}{c}\text { Number } \\ \text { of }\end{array}\right)$

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/189 | 290 | 422/226 | 1 |
| 422/193 | 109 | 48/61 | 2 |
| 422/99 | 247 | 422/82. 12 | 3 |
| 422/58 | 400 | 356/410 | 1 |
| 422/101 | 343 | 435/287.2 | 1 |
| 422/56 | 439 | 252/408.1 | 1 |
| 422/100 | 767 | 422/70 | 1 |
|  |  | 422/80 | 1 |
| 422/61 | 239 | 250/303 | 1 |
| 422/102 | 727 | 422/65 | 2 |
| 422/99 | 247 | 65/188 | 1 |
| 422/104 | 267 | 604/317 | 1 |
| 422/99 | 247 | 422/67 | 1 |
| 422/101 | 343 | 604/346 | 1 |
| 422/196 | 27 | 422/145 | 1 |
| 422/100 | 767 | 356/246 | 1 |
| 422/58 | 400 | 73/863.52 | 1 |
| 422/61 | 239 | 73/1.74 | 1 |
| 422/102 | 727 | 422/130 | 3 |
| 422/100 | 767 | 73/863.11 | 1 |
| 422/190 | 169 | 422/140 | 1 |
| 422/101 | 343 | 422/64 | 1 |
| 422/56 | 439 | 73/73 | 1 |
| 422/193 | 109 | 422/139 | 1 |
| 422/102 | 727 | 604/403 | 2 |
| 422/99 | 247 | 422/82. 05 | 2 |
| 422/56 | 439 | 427/2.13 | 1 |
| 422/102 | 727 | 600/572 | 1 |
| 422/58 | 400 | 435/287.2 | 2 |
| 422/101 | 343 | 600/584 | 4 |
| 422/196 | 27 | 48/61 | 3 |
| 422/104 | 267 | 73/204.22 | 1 |
| 422/100 | 767 | 250/284 | 2 |
| 422/61 | 239 | 435/4 | 1 |
| 422/103 | 111 | 422/82 | 2 |
| 422/101 | 343 | 422/82. 05 | 1 |
| 422/58 | 400 | 436/166 | 1 |
| 422/56 | 439 | 250/483.1 | 1 |
| 422/57 | 123 | 422/410 | 2 |
| 422/55 | 70 | 422/425 | 2 |
| 422/57 | 123 | 422/425 | 13 |
| 422/56 | 439 | 422/428 | 4 |
| 422/100 | 767 | 422/529 | 1 |

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PROJECT C-7335

## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/58 | 400 | 422/547 | 3 |
| 422/101 | 343 | 422/562 | 2 |
| 422/193 | 109 | 422/613 | 1 |
| 422/101 | 343 | 422/616 | 2 |
| 422/190 | 169 | 422/620 | 2 |
| 422/196 | 27 | 422/651 | 1 |
| 422/99 | 247 | 422/504 | 2 |
| 422/102 | 727 | 422/537 | 3 |
| 422/100 | 767 | 422/549 | 3 |
| 422/99 | 247 | 422/551 | 4 |
| 422/188 | 108 | 422/605 | 1 |
| 422/195 | 39 | 422/615 | 1 |
| 422/197 | 184 | 422/640 | 6 |
| 422/100 | 767 | 422/419 | 1 |
| 422/56 | 439 | 422/427 | 1 |
| 422/99 | 247 | 422/503 | 8 |
| 422/100 | 767 | 422/510 | 44 |
|  |  | 422/517 | 7 |
| 422/103 | 111 | 422/544 | 4 |
|  |  | 422/545 | 6 |
| 422/192 | 28 | 422/607 | 4 |
| 422/191 | 206 | 422/613 | 1 |
| 422/197 | 184 | 422/620 | 1 |
| 422/190 | 169 | 422/658 | 1 |
| 422/56 | 439 | 422/410 | 1 |
| 422/59 | 25 | 422/413 | 8 |
| 422/101 | 343 | 422/417 | 3 |
| 422/100 | 767 | 422/509 | 63 |
| 422/99 | 247 | 422/538 | 1 |
| 422/102 | 727 | 422/560 | 2 |
| 422/103 | 111 | 422/569 | 1 |
| 422/194 | 67 | 422/638 | 1 |
| 422/191 | 206 | 422/643 | 1 |
| 422/100 | 767 | 422/652 | 1 |
| 422/56 | 439 | 422/403 | 4 |
| 422/61 | 239 | 422/413 | 13 |
| 422/59 | 25 | 422/417 | 1 |
| 422/57 | 123 | 422/501 | 2 |
| 422/100 | 767 | 422/516 | 18 |
|  |  | 422/520 | 19 |
| 422/104 | 267 | 422/534 | 1 |
| 422/101 | 343 | 422/537 | 2 |
| 422/104 | 267 | 422/560 | 27 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

| Source Classification | Number of ORs | New Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/103 | 111 | 422/566 | 1 |
| 422/100 | 767 | 422/570 | 1 |
| 422/193 | 109 | 422/601 | 1 |
| 422/191 | 206 | 422/609 | 3 |
| 422/189 | 290 | 422/630 | 6 |
| 422/191 | 206 | 422/638 | 22 |
| 422/189 | 290 | 422/640 | 1 |
| 422/191 | 206 | 422/652 | 1 |
| 422/190 | 169 | 422/659 | 1 |
| 422/55 | 70 | 422/403 | 1 |
| 422/57 | 123 | 422/420 | 3 |
| 422/101 | 343 | 422/422 | 1 |
| 422/58 | 400 | 422/500 | 1 |
| 422/61 | 239 | 422/531 | 1 |
| 422/101 | 343 | 422/533 | 34 |
| 422/102 | 727 | 422/564 | 3 |
| 422/197 | 184 | 422/605 | 5 |
| 422/190 | 169 | 422/606 | 11 |
| 422/193 | 109 | 422/625 | 1 |
| 422/55 | 70 | 422/408 | 3 |
| 422/58 | 400 | 422/416 | 15 |
| 422/99 | 247 | 422/417 | 1 |
| 422/55 | 70 | 422/424 | 2 |
|  |  | 422/426 | 1 |
| 422/100 | 767 | 422/515 | 11 |
| 422/99 | 247 | 422/528 | 1 |
| 422/102 | 727 | 422/531 | 1 |
| 422/103 | 111 | 422/549 | 1 |
| 422/101 | 343 | 422/560 | 4 |
| 422/99 | 247 | 422/570 | 5 |
| 422/191 | 206 | 422/601 | 4 |
| 422/190 | 169 | 422/613 | 1 |
| 422/197 | 184 | 422/616 | 1 |
| 422/190 | 169 | 422/619 | 6 |
| 422/194 | 67 | 422/628 | 1 |
| 422/191 | 206 | 422/629 | 2 |
| 422/189 | 290 | 422/629 | 1 |
| 422/196 | 27 | 422/652 | 5 |
| 422/57 | 123 | 422/429 | 11 |
| 422/103 | 111 | 422/528 | 1 |
| 422/101 | 343 | 422/550 | 3 |
| 422/104 | 267 | 422/568 | 1 |
| 422/194 | 67 | 422/604 | 1 |

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## DISPOSITION CLASSIFICATION(S) OF PATENTS

 FROM ABOLISHED SUBCLASSES REPORTGenerated by Data Control Division

| Source <br> Classification | Number of ORs | New <br> Classification | Number of ORs |
| :---: | :---: | :---: | :---: |
| 422/196 | 27 | 422/613 | 1 |
| 422/192 | 28 | 422/614 | 1 |
| 422/195 | 39 | 422/638 | 1 |
| 422/194 | 67 | 422/646 | 3 |
| 422/189 | 290 | 422/647 | 1 |
|  |  | 422/404 | 1 |
| 422/100 | 767 | 422/522 | 2 |
| 422/102 | 727 | 422/548 | 1 |
| 422/101 | 343 | 422/503 | 1 |
| 422/100 | 767 | 422/524 | 1 |
| 422/189 | 290 | 422/547 | 1 |
| 422/101 | 343 | 422/504 | 1 |
|  |  | 422/535 | 1 |
| 422/103 | 111 | 422/413 | 1 |
| 422/100 | 767 | 221/264 | 1 |
| 422/189 | 290 | 422/186 | 1 |
| 422/101 | 343 | 156/322 | 1 |
| 422/99 | 247 | 422/64 | 1 |
| 422/56 | 439 | 435/286. 2 | 1 |
| 422/102 | 727 | 422/295 | 1 |
| 422/100 | 767 | 422/65 | 1 |
| 422/99 | 247 | 422/62 | 1 |
|  |  | 422/44 | 2 |
| 422/55 | 70 | 216/108 | 1 |
| 422/101 | 343 | 427/2.11 | 1 |
| 422/189 | 290 | 422/184.1 | 1 |
| 422/102 | 727 | 422/307 | 1 |
|  |  | 422/72 | 2 |
| 422/197 | 184 | 549/534 | 1 |
| 422/104 | 267 | 436/173 | 1 |
| 422/56 | 439 | 156/60 | 1 |
| 422/58 | 400 | 356/246 | 1 |
|  |  | 604/327 | 1 |
| 422/99 | 247 | 422/81 | 1 |
| 422/101 | 343 | 435/297.1 | 1 |
|  |  | 600/573 | 1 |
| 422/189 | 290 | 422/202 | 3 |
| 422/102 | 727 | 422/119 | 1 |
| 422/56 | 439 | 436/95 | 1 |
| 422/189 | 290 | 422/108 | 1 |

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PROJECT C7335

## C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

| USPC |  | IPC |  |
| :---: | :---: | :---: | :---: |
| Class | Subclass | Subclass | Notation |
| 422 | 400-402 | G01N | $\begin{aligned} & \text { 21/75, } \\ & 31 / 22, \\ & 33 / 52 \end{aligned}$ |
|  | 403-404 | G01N | $\begin{aligned} & \text { 31/22, } \\ & \text { 33/52, } \end{aligned}$ |
|  |  |  | 35/00 |
|  | 405-429 | G01N | $\begin{aligned} & \text { 21/75, } \\ & 31 / 22, \end{aligned}$ |
|  |  |  | 33/52 |
|  | 430 | B01L | $\begin{aligned} & 3 / 00, \\ & 31 / 22, \end{aligned}$ |
|  |  |  | 33/52 |
|  | 500 | B01L | $\begin{aligned} & 3 / 00, \\ & 99 / 00 \end{aligned}$ |
|  | 501-503 | B01L | 3/00 |
|  | 504-506 | B01L | 3/00 |
|  |  | F04B | 19/00 |
|  | 507-508 | B01L | 3/00 |
|  | 509-526 | B01L | 3/02 |
|  | 527 | B01D | 21/00 |
|  | 528-529 | B01D | 1/00 |
|  | 530 | B01D | 1/02 |
|  | 531 | F28B | 5/00 |
|  | 532 | B01D | 5/00 |
|  |  | F28B | 5/00 |
|  | 533 | B01D | 45/00 |
|  | 534-535 | B01D | 35/00, |
|  |  |  | 41/00 |
|  | 536 | A61B | 10/00 |
|  | 537-539 | B01L | 99/00 |
|  |  | F16K | 3/00 |
|  | 540 | B01L | 99/00 |
|  |  | F16K | 3/00, |
|  |  |  | 5/00 |
|  | 541 | B01L | 99/00 |
|  |  | F16K | 15/00 |
|  | 542 | B01L | 99/00 |
|  |  | F16K | 25/00 |
|  | 543 | B01L | 99/00 |
|  |  | F16K | 3/00 |
|  | 544-546 | B01L | 99/00 |
|  | 547 | B01L | 3/00 |

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## C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

| USPC |  | IPC |  |
| :---: | :---: | :---: | :---: |
| Class | Subclass | Subclass | Notation |
| 422 | 618 | B01D |  |
|  | 619 | B01J | $\begin{aligned} & 8 / 00 \\ & 10 / 00 \\ & 21 / 20 \end{aligned}$ |
|  | 620-629 | B01J | $\begin{aligned} & 8 / 00 \\ & 10 / 00 \end{aligned}$ |
|  | 630 | B01J | $\begin{aligned} & \text { 8/04, } \\ & \text { 10/00 } \end{aligned}$ |
|  | 631-633 | B01J | $\begin{aligned} & 8 / 04, \\ & 19 / 30 \end{aligned}$ |
|  | 634 | B01J | 8/04, 21/00, 23/00 |
|  | 635 | B01J | $\begin{aligned} & 8 / 04, \\ & 19 / 30 \end{aligned}$ |
|  | 636-640 | B01J | $\begin{aligned} & 8 / 04 \\ & 10 / 00 \end{aligned}$ |
|  | 641 | B01J | 8/04, 8/06, 10/00 |
|  | 642-649 | B01J | $\begin{aligned} & 8 / 04 \\ & 10 / 00 \end{aligned}$ |
|  | 650-659 | BO1J | 8/00, 8/06, 10/00 |

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## D. CHANGES TO THE DEFINITIONS

## CLASS 48 - GAS: HEATING AND ILLUMINATING

Definitions Modified:

Subclass 61: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses $600-507$ for plural reaction stage reformers for producing a gas to be used other than for the purposes of heating or illumination.

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## D. CHANGES TO THE DEFINITIONS

## CLASS 53 - PACKAGE MAKING

Definitions Modified:
Subclass 426: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 500 for apparatus for sterilizing containers, per se. An alternative electronic search of U.S. patents based upon a modification of the European Patent Office Classification (ECLA) System for certain subject matter in this subclass may also be found in Class 422 Cross-Reference Art Collections 908-948. (There are no definitions associated with these Cross-Reference Art Collections. The most available disclosure as to the types of documents contained herein is given in any notes associated with the titles.)

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D. CHANGES TO THE DEFINITIONS

CLASS 73 - MEASURING AND TESTING

Definitions Modified:
Class Definition: Under SECTION V, REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 400-429 for structured visual or optical indicator, per se, such as a litmus paper or other chemical test papers. (See Lines With Other Classes, Mass Spectrometry, (1) Note, above)

Subclass 426: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 500-570 for miscellaneous laboratory apparatus. An alternative electronic search of U.S. patents based upon a modification of the European Patent Office Classification (ECLA) System for certain subject matter in this subclass may also be found in Class 422 Cross-Reference Art Collections 908-948. (There are no definitions associated with these Cross-Reference Art Collections. The most available disclosure as to the types of documents contained herein is given in any notes associated with the titles.)

Subclass 863.32:

Insert:

SEE OR SEARCH CLASS:

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## D. CHANGES TO THE DEFINITIONS

422. Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 501-526 wherein pipette means to cause, promote, regulate, or control a chemical reaction is claimed.

Subclass 864.01: Under SEE OR SEARCH CLASS

Delete:
The reference to Class 422
Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 501-526 for a pipette wherein means to cause, promote, regulate, or control a chemical reaction is claimed.

Subclass 864.91: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 561 for a holder for a sample or specimen container specifically designed for use in a laboratory.

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## D. CHANGES TO THE DEFINITIONS

## CLASS 196 - MINERAL OILS: APPARATUS

Definitions Modified:

Class Definition: Under SECTION II, REFERENCES TO OTHER CLASSES, SEE OR
SEARCH CLASS

Delete:

The reference to Class 422
Insert:

422, Chemistry Apparatus and Process Disinfecting, Deodorizing, Preserving or Sterilizing, subclasses 256 and 261 for extracting apparatus; and subclasses 171, 177, 631-638, and 211 for catalytic apparatus.

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## D. CHANGES TO THE DEFINITIONS

## Class 204 - CHEMISTRY: ELECTRICAL AND WAVE ENERGY

Definitions Modified

Subclass 403.01: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 422
Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 50 through 570, especially subclasses $82.01-82.04$ for analytical chemical apparatus including means for carrying out nonelectrochemical analysis and for apparatus for carrying out a combined chemical and electrochemical procedure.

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## D. CHANGES TO THE DEFINITIONS

## CLASS 206 - SPECIAL RECEPTACLE OR PACKAGE

Definitions Modified:

Class Definition: Under SECTION III, REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Delete:

The reference to Class 422
Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 547, for chemical test package or kit; subclasses 500-570 for laboratory receptacles; and other appropriate subclasses for containers for that class. An alternative electronic search of U.S. patents based upon a modification of the European Patent Office Classification (ECLA) System for certain subject matter in this subclass may also be found in Class 422 CrossReference Art Collections 908-948. (There are no definitions associated with these Cross-Reference Art Collections. The most available disclosure as to the types of documents contained herein is given in any notes associated with the titles.)

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## D. CHANGES TO THE DEFINITIONS

## CLASS 208 - MINERAL OILS: PROCESSES AND PRODUCTS

Definitions Modified:

## Class Definition: Under SECTION III, REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Delete:

The reference to Class 422
Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 631-638 and 211+ for apparatus for treating a material (including mineral oil) with a catalyst (apparatus).

Subclass 46: Under SEE OR SEARCH CLASS

Delete :

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, especially subclasses 631-638 and 211+ for apparatus for treating a material (including mineral oil) with a catalyst.

Subclass 146: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, especially subclasses 631-638 and 211+ for apparatus for treating a material (including mineral oil) with a catalyst.

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## D. CHANGES TO THE DEFINITIONS

## CLASS 252 - COMPOSITIONS

Definitions Modified:

Class Definition: Under SECTION IV, REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Delete:

The reference to Class 422
Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 400-429 for litmus and other test papers and analogous devices; also appropriate subclasses for apparatus employing catalysis.

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D. CHANGES TO THE DEFINITIONS

## CLASS 356 - OPTICS: MEASURING AND TESTING

Definitions Modified:

## Class Definition: Under SECTION IV, REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Delete :

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 50+ for analytical and analytical-control apparatus involving an optical test; subclass 44 for viable blood-treating apparatus; and subclass 500 for miscellaneous laboratory apparatus. An alternative electronic search of U.S. patents based upon a modification of the European Patent Office Classification (ECLA) System for certain subject matter in this subclass may also be found in Class 422 Cross-Reference Art Collections 908-948. (There are no definitions associated with these Cross-Reference Art Collections. The most available disclosure as to the types of documents contained herein is given in any notes associated with the titles.)

Subclass 246: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 547 for laboratory fluid containers and 561 for a holder for a sample or specimen container.

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## D. CHANGES TO THE DEFINITIONS

Subclass 422: Under SEE OR SEARCH CLASS

Delete :

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 430 for analytical apparatus which may be in the form of kits which utilize flat, plate-like colored standards as a basis for a visual or photoelectric comparison with a colored substance reactively produced in order to determine the presence of a chemical element, anion, or cation.

Subclass 440: Under SEE OR SEARCH CLASS:

Delete :

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 500-555 for laboratory apparatus elements which may include fluid containers. An alternative electronic search of U.S. patents based upon a modification of the European Patent Office Classification (ECLA) System for certain subject matter in this subclass may also be found in Class 422 Cross-Reference Art Collections 908-948. (There are no definitions associated with these Cross-Reference Art Collections. The most available disclosure as to the types of documents contained herein is given in any notes associated with the titles.)

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## D. CHANGES TO THE DEFINITIONS

CLASS 422 - CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING

Definitions Abolished:

Subclasses:

55 - 61, 99-104, 188-197

Definitions Modified:

Subclass 49: Under SEE OR SEARCH CLASS THIS CLASS, SUBCLASS

Delete :

The reference to subclass 190

Insert:

631-638

Subclass 82.05: Under SEE OR SEARCH CLASS THIS CLASS, SUBCLASS

Delete:

The reference to subclass 55+

Insert:

400-429

Subclass 122: Under SEE OR SEARCH CLASS THIS CLASS, SUBCLASS

Delete:

The reference to subclass 190

## D. CHANGES TO THE DEFINITIONS

Insert:

631-638

Subclass 211: Under SEE OR SEARCH CLASS THIS CLASS, SUBCLASS

Delete :

The reference to subclass 190+

Insert:

631-638

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## D. CHANGES TO THE DEFINITIONS

## Definitions Established:

400 Structured visual or optical indicator, per se:
This subclass is indented under subclass 50. Apparatus comprising a structured indicator; i.e., an indicator which is more than a composition, per se, and has structure, which gives a visual or optical indication of the presence or amount of material to be tested in the sample.
(1) Note. Visual or optical indicators, per se, include color indicators such as test papers or test strips and columns which give a visual or optical indication, (e.g., color, etc.) of the presence or amount of material in the sample.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

82.05+, for structured visual or optical indicators which include a standard referencing scale such as pipettes, burettes, color charts, and test strips including a standard colored chart.

## SEE OR SEARCH CLASS:

116, Signals and Indicators, subclasses 200+ for indicators of general utility.
252, Compositions, subclasses 299.01 for a liquid crystal composition, and 408.1 for a nonreactive analytical, testing or indicating composition.

436, Chemistry: Analytical and Immunological Testing, appropriate subclasses for analytical and analytical control processes employing liquid crystals.

401 In a holder or container:
This subclass is indented under subclass 400. Apparatus wherein the indicator is contained in a receptacle (e.g., test plate, dish, tray, slide, etc.).

402 Structure to facilitate analysis of the results:
This subclass is indented under subclass 401. Apparatus designed to provide easier interpretation of the outcome of the reaction of the indicator with the sample.

## 403 Read by automated means:

This subclass is indented under subclass 402. Apparatus wherein the results of the reaction are interpreted using an instrumental analyzer.

404 Registration of the structure within the analyzer:
This subclass is indented under subclass 403. Apparatus comprising a means for aligning the indicator receptacle inside the instrument prior to measurement.

405 Tubular:
This subclass is indented under subclass 401. Apparatus wherein the indicator is contained within an elongated cylindrical or oval structure (e.g., test tube, etc.).

## Including a swab:

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## D. CHANGES TO THE DEFINITIONS

This subclass is indented under subclass 405. Apparatus comprising an absorbent material attached to a grasping member for enabling sample-reagent contact (e.g., swab, etc.).

## 407 Well plate:

This subclass is indented under subclass 401. Apparatus wherein the indicator is contained within at least one depression or recessed feature in a generally planar structure (e.g., microtitre plate, etc.).

## SEE OR SEARCH CLASS:

210, Liquid Purification or Separation, appropriate subclasses for multiwell plates having liquid separation membrane structure.

408 Structure for contacting the sample with the reagent:
This subclass is indented under subclass 401. Apparatus designed to facilitate the reaction of the indicator with the sample.

409 Envelope, packet or sleeve (e.g., for fecal occult sample, etc.):
This subclass is indented under subclass 408. Apparatus wherein the indicator is contained within a flat, thin, folding sheet-like structure.

410 Lancet (e.g., for finger prick, etc.):
This subclass is indented under subclass 408 . Subject matter comprising a structure for transferring the sample to the indicator reagent structure using a sharp instrument, (e.g., needle, lancet etc.).

## SEE OR SEARCH CLASS:

128, Surgery, appropriate subclasses and its dependent classes for a lance or lancet combined with specific structure adapted to interact with the human body.

411 Swab:
This subclass is indented under subclass 408. Subject matter comprising a structure for swiping the sample onto an absorbent material containing the indicator reagent structure which is attached to a grasping member, (e.g., a stick or handle etc.).

412 Device using capillary action:
This subclass is indented under subclass 408. Subject matter comprising a structure for absorbing the sample onto a receiving material containing the indicator reagent using capillary action.

413 Device having frangible compartment:
This subclass is indented under subclass 408 . Subject matter comprising a structure for beginning the reactive process by allowing the contents of separate sample and reagent compartments of a container to mix using a breakable feature of the container.

## 414 Device having torturous path:

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## D. CHANGES TO THE DEFINITIONS

This subclass is indented under subclass 408. Subject matter comprising a structure for accomplishing intimate contact between the sample and the reagent by utilizing a porous, reagent containing matrix consisting of serpentine, twisting passages through which the sample components flow.

## 415 Including centrifuge:

This subclass is indented under subclass 408. Subject matter comprising a structure for enabling sample and reagent contact using an apparatus that rotates at high speed around a central axis creating forces that enable transfer of the reagent to the sample or sample to the reagent.

416 Including means for facilitating reaction of a gaseous fluid:
This subclass is indented under subclass 408. Subject matter comprising a structure for enabling contact between a sample or reagent in a vapor state so that a reaction occurs.

417 Including channel, valve or chamber:
This subclass is indented under subclass 408. Subject matter comprising a compartment, passageway, capillary or flow control feature for enabling sample and reagent contact.

418 Wiping means to acquire solid test substance:
This subclass is indented under subclass 408. Subject matter comprising a means for obtaining a solid sample and contacting it with a reagent by a rubbing technique.

419 Acquisition of liquid sample:
This subclass is indented under subclass 408. Apparatus comprising a means for obtaining a sample in liquid form and contacting the sample with the reagent.

420 Having reagent in absorbent or bibulous substrate:
This subclass is indented under subclass 400 . Apparatus wherein a substance used to detect or measure another substance (i.e., indicating reagent) is contained in a substrate capable of taking up or sponging liquids via capillary action, (e.g., a dip-stick, test paper, etc.).

421 Plural layers:
This subclass is indented under subclass 420. Subject matter wherein the absorbent or bibulous substrate has additional strata, (e.g., blocking layer, etc.)

422 Filtering:
This subclass is indented under subclass 421. Subject matter wherein an additional stratum (e.g., membrane, etc.) is present to treat a sample by removing a certain substance from it while allowing another to pass through to the reagent substrate.

423 Spreading:
This subclass is indented under subclass 421 . Subject matter wherein an additional stratum is present to assist sample diffusion to the reagent substrate.

424 Support layer:
This subclass is indented under subclass 421 . Subject matter wherein an additional stratum (e.g., a polymer, etc.) is present on which other layers are applied.

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## D. CHANGES TO THE DEFINITIONS

## 425 Having coated reagent:

This subclass is indented under subclass 400 . Subject matter wherein the surface of a substrate is covered with a substance, (e.g., indicating reagent, etc.) used to detect or measure another substance.

426 Plural layers:
This subclass is indented under subclass 425 . Subject matter wherein the coated substrate has additional strata, (e.g., blocking layer, etc.).
$427 \quad$ Filtering layer:
This subclass is indented under subclass 426. Subject matter wherein the substrate contains a stratum, (e.g., membrane, etc.) that is designed to treat a sample by removing a certain substance from it while allowing another to pass through.

428 Spreading layer:
This subclass is indented under subclass 426. Subject matter wherein an additional stratum is present to assist sample diffusion to the reagent substrate.

429 Support layer:
This subclass is indented under subclass 426. Subject matter wherein an additional, nonflexible stratum (e.g., glass, etc,) is present on which other layers are applied.

430 Test package or kit:
This subclass is indented under subclass 50. Apparatus comprising (a) a package containing reagents and all the necessary ingredients to perform a test or (b) self contained test kits for field testing, usually having dosage amounts of each material needed.

SEE OR SEARCH THIS CLASS, SUBCLASS:
400-429, for a structured visual or optical indicator which may be a component of a kit or package.

## SEE OR SEARCH CLASS:

206, Special Receptacle or Package, subclass 569 for containers for test kits without specified chemical contents such as reagents or reactants.

500 Miscellaneous laboratory apparatus and elements, per se:
This subclass is indented under subclass 50. Apparatus specifically designed for use in a laboratory.

501 Volumetric fluid transfer means (e.g., pipette, pipettor, etc.):
This subclass is indented under subclass 500. Apparatus for conveying from one place to another a specified quantity of a liquid or gas.

## 502 Micro-fluidic device:

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## D. CHANGES TO THE DEFINITIONS

This subclass is indented under subclass 501. Apparatus for precisely controlling and manipulating a liquid or gas which is constrained to a small, typically sub-microliter scale.

## 503 Plate design or structure:

This class is indented under subclass 502. Apparatus wherein the constraining means is in the form of a flat thin sheet of uniform thickness with micro-channels formed in the surface thereof, and the particular pattern or makeup of that constraining means is recited.

## 504 Liquid moving means:

This subclass is indented under subclass 502. Apparatus for causing the liquid or gas to travel within a micro-fluidic device.

505 Pump:
This subclass is indented under subclass 504. Apparatus wherein a piston, plunger, or a set of rotating vanes is the force which causes fluid to travel within the micro-fluidic device.

506 Centrifugal force:
This subclass is indented under subclass 504. Apparatus wherein the effect that tends to move an object away from the center of a circle it is rotating about is the force which causes the fluid to travel within the micro-fluidic device.

507 Capillary action:
This subclass is indented under subclass 504. Apparatus wherein the ability of a narrow interstice to draw a fluid due to surface tension is the force which causes the fluid to travel with the microfluidic device.

508 Spray tip:
This subclass is indented under subclass 502. Apparatus wherein fluid is delivered to an analyzer in the form of a fine mist.

509 Automated system:
This subclass is indented under subclass 501. Apparatus wherein the processes of drawing, measurement, delivery, positioning or movement of a liquid are controlled by a machine.

510 Including washing means:
This subclass is indented under subclass 509. Apparatus additionally including an automated procedure for cleaning the device.

511 Including tip attachment or removal:
This subclass is indented under subclass 509. Apparatus additionally including an automated procedure for fastening a new fluid delivery end to the device, or taking away a used fluid delivery end.

512 Including seal penetration means:
This subclass is indented under subclass 501. Apparatus wherein the device tip acts to pierce a container in order to reach a liquid to be drawn into the device

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## D. CHANGES TO THE DEFINITIONS

## 513 Including filter:

This subclass is indented under subclass 501. Apparatus wherein a means to trap or to pass a specific liquid or solid in order to separate out constituents is included in the device.

514 Mixing of diverse substances within pipette:
This subclass is indented under subclass 501. Apparatus wherein an agitation means is included in the device in order to combine plural distinct substances introduced into the device

515 Sequential multidispensing from a single tip:
This subclass is indented under subclass 501. Apparatus wherein a single dosing device delivers plural doses before recharging its supply.

516 Variable volume:
This subclass is indented under subclass 501. Apparatus wherein the device can be set to draw in and expel differing amounts of liquid.

517 Including liquid level sensor:
This subclass is indented under subclass 516. Apparatus including a device to detect height at which liquid is accumulated within the apparatus.

518 Electrically operated:
This subclass is indented under subclass 517. Apparatus wherein the means to detect the height of the level of liquid within the device is operated by electricity.

519 Interaction of dispensing tip with surface upon which fluid is dispensed:
This subclass is indented under subclass 501. Apparatus wherein the end of the device which expels liquid physically contacts the device upon which the liquid is to be deposited.

520 Drawing of liquid into pipette by capillary action:
This subclass is indented under subclass 501. Apparatus wherein liquid is caused to flow into the device by the ability of a narrow interstice to draw a liquid due to surface tension upwards against the force of gravity.

521 Dispensing means:
This subclass is indented under subclass 501. Apparatus including a means to expel liquid from the device.

522 Pressure:
This subclass is indented under subclass 521. Apparatus wherein the means to expel liquid from the device is actuated by a force applied to the top surface of the liquid or a vacuum applied to the bottom of the liquid.

523 Gravity:
This subclass is indented under subclass 521. Apparatus where the means to expel liquid from the device is the force generated by the mass of the Earth.

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## D. CHANGES TO THE DEFINITIONS

## 524 Tip:

This subclass is indented under subclass 501. Apparatus dealing with that portion of the device which first receives the liquid, and which last contacts the liquid during expulsion.

525 Removable:
This subclass is indented under subclass 524. Apparatus wherein the portion of the device which first receives the liquid and last contacts the liquid during expulsion is capable of being taken off the device.

526 Including storage rack therefore:
This subclass is indented under subclass 525. Apparatus including a structure for storing pipette tips

527 Including means for separating a constituent (e.g., extraction, etc.):
This subclass is indented under subclass 500. Apparatus for isolating in a different physical space a particular component of a gas or liquid compound or mixture.

528 Evaporator:
This subclass is indented under subclass 527. Apparatus including means for changing a liquid to a gas or vapor phase thereby isolating a constituent.

529 Operated at ambient temperature:
This subclass is indented under subclass 528. Apparatus wherein the transition from liquid to gas or vapor phases occurs at the temperature of its surroundings.

530 Heated:
This subclass is indented under subclass 528. Apparatus wherein a heat source is used to cause transition form liquid to gas of vapor phase.

531 Condenser:
This subclass is indented under subclass 527. Apparatus including means to change gas or a vapor to a liquid phase or to separate out combined liquids or liquids and solids in order to separate out specific constituents.

532 Cooling means:
This subclass is indented under subclass 531. Apparatus wherein the transition from gas or vapor phase to a liquid phase occurs at a temperature below that of its surroundings.

## 533 Gravity or centrifuge separation:

This subclass is indented under subclass 527. Apparatus for separation of various combined liquids or liquids from solids wherein separation is carried out by means of the gravitational pull of the Earth or accelerated separation by a device that rotates rapidly and uses centrifugal force to separate substances of different densities.

534 Filter:
This subclass is indented under subclass 527. Apparatus including means to trap or to pass a specific liquid or solid in order to separate out constituents.

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## D. CHANGES TO THE DEFINITIONS

## 535 Porous media:

This subclass is indented under subclass 534. Apparatus including a material which permits the movement of certain fluids or gases through it by way of pores or other passages.

536 Tissue processing device:
This subclass is indented under subclass 500. Apparatus including a device that processes tissue samples in different forms, either thin sections or deposits on a slide or similar carrier, for purposes such as histological analysis and cytological examination.
(1) Note. This subclass takes apparatus involved in the analysis of non-viable cells or tissue.

## SEE OR SEARCH CLASS:

435, Chemistry: Molecular Biology and Microbiology, appropriate subclasses for apparatus involved in the analysis of tissue and cells which are viable/living (e.g., maintained or growing).

537 Valve:
This subclass is indented under subclass 500. Apparatus including a device that controls the movement of liquids or gases through pipes or other passages by opening or closing ports and channels.

## SEE OR SEARCH CLASS:

251, Valves and Valve Actuation, appropriate subclasses for valves and valve actuation in general.

538 Including connector:
This subclass is indented under subclass 537. Apparatus which further includes a pipe or other passage which links a valve to another part of the apparatus.

539 With multiple discrete settings:
This subclass is indented under subclass 537. Apparatus wherein the valve has several different distinct opening positions.

## 540 Stator and rotor, petcock/stopcock, or slider:

This subclass is indented under subclass 537. Apparatus that comprises a fixed member and a moveable member in contact with the fixed member which rotates about an axis either perpendicular or parallel to the fixed member or moves in parallel to the fixed member.

541 Check:
This subclass is indented under subclass 537. Apparatus wherein the valve has an internal structure allowing a unidirectional flow.

## Ball or seat:

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## D. CHANGES TO THE DEFINITIONS

This subclass is indented under subclass 537. Apparatus in which a ball with a bore hole passage is mechanically rotated relative to an opening to control flow or in which a seal or seat are mechanically moved relative to one another to control flow.

543 Gas:
This subclass is indented under subclass 537. Apparatus wherein the valve is specifically designed for the transfer of material in the gaseous state.

544 Connector:
This subclass is indented under subclass 500. Apparatus including a pipe or other passage which links one part of an apparatus to another part.

545 Terminal end threaded or tapered:
This subclass is indented under subclass 544. Apparatus wherein an end portion of the connector is provided with a continuous helical ridge or becomes progressively smaller.

546 For needle, syringe, or capillary tube:
This subclass is indented under subclass 544. Apparatus wherein the connector is specifically designed for use with a tube having a nozzle and piston for sucking in and ejecting liquid in a thin stream, often fitted with a pointed hollow end for piercing the skin in order to inject or withdraw bodily fluids, or a tube with an internal diameter of hair-like thinness.

547 Container:
This subclass is indented under subclass 500. Apparatus including a receptacle for holding material.

## SEE OR SEARCH CLASS:

206, Special Receptacle or Package, subclasses 363-370 for a container for tools employed for body treatment, subclasses 524.1-524.7 for a container of a specified material, and subclass 569 for a container for a test kit without specified chemical contents such as reagents or reactants.

## 548 Used with centrifuge equipment:

This subclass is indented under subclass 547. Apparatus consisting of a material holder that is to be used with a machine which turns a material holder round very quickly, causing the solids and liquids inside that material holder to separate by centrifugal action.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

533, for the centrifuge apparatus.
549 Tube shaped vessel:
This subclass is indented under subclass 547. Apparatus wherein the means for holding material is in the form of an elongated and cylindrical shape (e.g., test tube, etc.).

550 Including closure or sealing mechanism:

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This subclass is indented under subclass 549. Apparatus including a system for covering an opening in the elongated cylindrical member or for keeping out the outside atmosphere.

551 Plate, sheet, dish or tray:
This subclass is indented under subclass 547. A shallow container having a small depth to length or circumference ratio or a planar, smooth, flat, thin piece of material.

552 Including a plurality of wells or receptacles:
This subclass is indented under subclass 551. Apparatus wherein the plate or sheet includes distinct multiple test areas, pits, or containers.

## SEE OR SEARCH CLASS:

210, Liquid Purification or Separation, appropriate subclasses for multiwell plates having liquid separation membrane structure.

553 Microtitration plate:
This subclass is indented under subclass 552. Apparatus specifically designed for use in a method for determining the concentration of a dissolved substance in terms of the smallest amount of reagent of known concentration required to bring about a given effect in reaction with a known volume of the test solution.

554 Cartridge, cassette or cuvette:
This subclass is indented under subclass 547. A case or housing having at least one space or slot for accommodating sample or reagent materials.

555 Bag type containers:
This subclass is indented under subclass 547. Apparatus which includes a flexible or collapsible sack or pouch (e.g., intravenous bags or specimen collection bags, etc.).

556 Flask, bottle or beaker:
This subclass is indented under subclass 547. A container having a narrow neck opening and wide bottom or a wide opening and cylindrical body.

## SEE OR SEARCH CLASS:

215, Bottles and Jars, appropriate subclasses for bottles, jars, closures, and attachments therefor.

557 Cup or crucible:
This subclass is indented under subclass 547. A generally circular container with a narrow base and wide opening.

558 Vial or ampoule:
This subclass is indented under subclass 547. A cylindrical shaped container that has a removable or frangible closure.

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This subclass is indented under subclass 547. A container having more than one internal chamber.

560 Holder:
This subclass is indented under subclass 500. Apparatus comprising means to fix in an immobile position an object.

561 For sample or specimen container:
This subclass is indented under subclass 560. Apparatus comprising means to fix in an immobile position a removable device carrying biological, chemical, or physical items intended for analysis.

562 For tube:
This subclass is indented under subclass 561. Apparatus comprising means to fix in an immobile position a hollow cylinder closed at one end.

563 For slide:
This subclass is indented under subclass 561. Apparatus comprising means to fix in an immobile position a small plate used to support an item for analysis.

564 For burette, pipette, or pipette tip:
This subclass is indented under subclass 561. Apparatus comprising means to fix in an immobile position a hollow, cylindrical liquid volume measuring device or the terminal apparatus thereof.

565 Housing:
This subclass is indented under subclass 500. Apparatus comprising an enclosure for laboratory equipment or components thereof.

566 Support:
This subclass is indented under subclass 500. Apparatus comprising means to bear the weight of an object.

## SEE OR SEARCH CLASS:

211, Supports: Racks, appropriate subclasses for structures designed to support articles.

567 Hood:
This subclass is indented under subclass 500. Apparatus comprising a cover above laboratory equipment or components thereof.

568 Stopper cover, plug, or seal:
This subclass is indented under subclass 500. Apparatus including a device that closes the opening of a container.

569 Covering multiple containers or wells:
This subclass is indented under subclass 568. Apparatus including a closure device for an array of containers or a plurality of well openings.

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## D. CHANGES TO THE DEFINITIONS

570 Penetrable cover (e.g., septum, etc.):
This subclass is indented under subclass 568. Apparatus wherein the closure device is self-sealing when punctured.

600 Including plural reaction stages:
This subclass is indented under subclass 129. Apparatus comprising multiple reaction means.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

141, for plural fluidized reaction beds.
156, for plural pigment or carbon making apparatus.
169, for waste gas purifier having plural stages.
601 Including plural parallel reaction stages with each stage in the form of a plate: This subclass is indented under 600. Apparatus wherein the reaction stages in a planar form are arranged side by side in reaction zones and the reactions occur concurrently.

602 Plate-type laminated reactor:
This subclass is indented under 600. Apparatus wherein the chemical reaction takes place in a device in the form of a plate which is covered by at least one layer of the same or different material.

603 Microscale reactor:
This subclass is indented under 600. Apparatus wherein the chemical reaction takes place in a micro-structured device, (e.g., micro-reactor, micro-structured reactor, or microchannel reactor).
(1) Note. The typical lateral dimension is below 1 mm ; the most typical form is micro-channels.

604 With gas contact means for degassing or agitating (e.g., sparging, etc.):
This subclass is indented under subclass 600. Apparatus for stirring or removing a volatile substance by entrainment from a liquid, or for increasing the liquid/gas contact area using compressed gas entering the liquid through a pipe.

605 With draft tube:
This subclass is indented under subclass 600. Apparatus comprising a longitudinally extending tubular means open at both ends located within the reaction chamber and providing fluid recirculation within the reaction chamber via fluid movement through the tube.

606 With multiphase mixing means:
This subclass is indented under subclass 600. Apparatus comprising means to blend substances in different physical states, e.g., a mixing chamber for a liquid and a gas.

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607 With distributor or collection tray:
This subclass is indented under subclass 600. Apparatus comprising means to ensure a steady flow and uniform distribution of fluids, or an apparatus comprising a horizontal shallow container to collect fluids from an upstream reaction stage.
(1) Note. A distributor can be a distribution plate or tray at the top of the reactor or between superimposed catalyst beds.

608 With separation or purification means (e.g., rectification, evaporation, ion exchanger, extraction, settler, absorption, recrystallization, etc.):
This subclass is indented under subclass 600. Apparatus including means to segregate components from a mixture or to remove an impurity from a mixture.

609 Stripper tower:
This subclass is indented under subclass 608. Apparatus wherein at least one stage includes a physical separation process to remove one or more components from a liquid stream through entrainment by a vapor stream.

610 Distillation means (e.g., retort, etc.):
This subclass is indented under subclass 608. Apparatus including means for separating components of the mixture based on volatility differences, by successive steps of evaporation and subsequent condensation.

611 Scrubbing:
This subclass is indented under subclass 608. Apparatus including means for separating components of the mixture which uses a scrubbing solution or slurry for removing or neutralizing a specific particle or gas from a gas stream.
(1) Note. A scrubbing solution can be water or a solution of a reagent for a certain target compound.

612 Absorption:
This subclass is indented under subclass 608. Apparatus wherein the purification or separation means includes a bibulous material for taking up a component of the mixture.

613 Cyclone separator:
This subclass is indented under subclass 608. Apparatus wherein the purification or separation means includes a device for removing small or powdered solids from a fluid by centrifugal force.

## 614 Condenser:

This subclass is indented under subclass 608. Apparatus wherein the purification or separation includes a cooling means whereby a gas-phase component of the mixture is cooled to turn it into a liquid phase.

615 Condenser downstream of a heat exchanging means:
This subclass is indented under subclass 614. Apparatus wherein the condenser is positioned following a heat exchanging means.

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## 616 Filtering means:

This subclass is indented under subclass 608. Apparatus wherein the purification or separation means includes a permeable material, (e.g., a porous material, etc., which traps or passes a specific substance).

617 Membrane separation (e.g., palladium membrane hydrogen purifier, etc.):
This subclass is indented under subclass 616. Apparatus including means for segregating components of the mixture by a selective barrier impermeable to a group of particles or substances.

618 Including product separation or purification means:
This subclass is indented under subclass 608. Apparatus including means for segregating a product from a reaction stream, or removing an impurity from a product.

619 Combined with contact material regenerating means (e.g., regenerating catalyst, etc.):
This subclass is indented under subclass 600. Apparatus wherein a contact material is reproduced or reactivated.
(1) Note. Contact material has a relatively large contact surface area within a reaction zone wherein a large surface area presents multiple reaction sites for contact by the reaction mixture and, thereby, enhances the rate or the completeness of the reaction.

SEE OR SEARCH THIS CLASS, SUBCLASS:
620, for recycling reactants.
631, for plural solid, extended surface, fluid contact reaction stages.
223, for contact material regenerating means, per se.
620 Combined with recycling means (e.g., recycling products, reactants, etc.):
This subclass is indented under subclass 600. Apparatus additionally comprising recovering and reusing at least a portion of the product stream or reaction mass in the reaction chamber.

621 Including reaction heat recovery or recycling:
This subclass is indented under subclass 620. Apparatus wherein the thermal energy from one reaction stage is captured and may be reused.

622 Including external recycle loop:
This subclass is indented under subclass 620. Apparatus wherein the recycling means includes a conduit located outside of the reaction chamber.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

234, for an external recycle loop, per se.

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## 623 Including a boiler:

This subclass is indented under subclass 600. Apparatus comprising a vessel in which a fluid is heated to boiling.

624 Including a mechanical means for transportation of material (e.g., conveyor, turntable, truck, etc.):
This subclass is indented under subclass 600. Apparatus comprising a mechanical apparatus for transporting material (e.g., feedstock, reactant, product, etc.).

625 Including reformer reactor:
This subclass is indented under subclass 600. Apparatus wherein one of the reaction stages produces hydrogen from hydrocarbons in the presence of a catalyst.

## SEE OR SEARCH CLASS:

48, Gas: Heating and Illuminating, appropriate subclasses for reforming apparatus specific for the generation of a fuel gas, such as hydrogen, for the purposes of heating or illuminating.

429, Chemistry: electrical current producing apparatus, product, and process, appropriate subclasses for the combination of a fuel cell and a reactor.

626 Including water gas shift reaction:
This subclass is indented under subclass 625. Apparatus wherein within the reformer reactor, carbon monoxide reacts with water vapor to produce carbon dioxide and hydrogen.

627 Combined with selective or preferential oxidation reactor:
This subclass is indented under subclass 625. Apparatus wherein the reformer reactor is combined with a reactor within which a specific reductant gas component is oxidized on a catalyst, e.g., the reactor preferentially oxidizes carbon monoxide using a heterogeneous catalyst.

628 Autothermal:
This subclass is indented under subclass 625. Apparatus wherein the heat produced by an exothermic reaction is absorbed by an endothermic reaction, e.g., oxygen and carbon dioxide or oxygen and steam react with methane to produce a hydrogen-containing gas mixture.

629 Steam reformer:
This subclass is indented under subclass 625. Apparatus wherein the reformer reactor uses water vapor in the hydrocarbon reformation to produce hydrogen gas in a product mixture.

630 Discrete sequential reaction stages:
This subclass is indented under subclass 600. Apparatus having means for subjecting the reaction stream to multiple separate successive reaction stages.

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631 Plural solid, extended surface, fluid contact reaction stages (e.g., inert Raschig rings, particulate sorbent, particulate or monolithic catalyst, etc.):
This subclass is indented under subclass 630. Apparatus including means providing a relatively large solid contact surface area within the reaction zone presents multiple reaction sites for contact by the reaction mixture and, thereby, enhances the rate or the completeness of the reaction.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

177, for this apparatus used in a waste gas purifier.
211, for this structure, per se.
632 With down-flow fixed bed:
This subclass is indented under subclass 631. Apparatus comprising an immobilized solid extended surface in contact with a reaction stream moving downward by gravity

633 Including a unitary, monolithic catalyst bed:
This subclass is indented under subclass 631. Apparatus wherein the extended surface contact means is a catalyst in the form of a unitary (i.e., non-particulate) contact bed, e.g., a monolithic honeycomb coated with a catalyst, catalyst coated metallic screen, etc.

634 With metal catalyst (e.g., metal oxide, etc.):
This subclass is indented under subclass 631. Apparatus wherein the extended surface contact means is a catalyst that contains a metal element.

635 Including random inert packing (e.g., Raschig rings, balls, saddle rings, etc.): This subclass is indented under subclass 631. Apparatus wherein the extended surface contact means include pieces of chemically inactive material used in large numbers and packed randomly.
(1) Note. Raschig rings are usually ceramic or metal and provide a large surface area for interaction between liquid and gas or vapor.

636 At least one reaction stage formed of a fixed, annularly shaped bed of contact material:
This subclass is indented under subclass 631. Apparatus wherein at least one of the extended surface contact means is in the form of a stationary, ring shaped packing.

637 With means for directing reaction stream therethrough substantially perpendicular to the longitudinal axis of the bed:
This subclass is indented under 636. Subject matter wherein a reactor with at least one of the extended surface contact means in the form of a stationary, ring shaped packing includes means for directing the flow of reactants in a radial direction through the packing.
SEE OR SEARCH THIS CLASS, SUBCLASS:
181, for this structure in a waste gas purifier.

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638 Superimposed reaction stages in single reaction chamber:
This subclass is indented under subclass 631. Apparatus wherein the reaction stages are located one over the other and within a single reaction chamber.

639 Wherein at least one reaction stage is upstream or downstream of parallel stages (e.g., AA-B, etc.):

This subclass is indented under subclass 630. Apparatus wherein reaction stages which are arranged side by side in the reaction zone and the reactions occur concurrently are positioned preceding or following a separate reaction stage.

640 With parallel repeat of a sequence of reaction stages (e.g., AB-AB, etc.):
This subclass is indented under subclass 630. Apparatus wherein at least two sequences of separate successive reaction stages are arranged side by side in the reaction zone.

641 With each stage in the form of a reaction tube:
This subclass is indented under subclass 630. Apparatus wherein each reaction stage has a relatively high length-to-diameter ratio.

642 Wherein the reaction stages are the same:
This subclass is indented under subclass 630. Apparatus wherein the reaction stages are repeated, e.g., the same structure, the same catalyst, etc.

643 Including thermal combustion means:
This subclass is indented under subclass 630. Apparatus wherein one of the discrete sequential reaction stages is thermal oxidative decomposition of a combustible substance.

644 Reaction stages located within single reaction chamber:
This subclass is indented under subclass 630. Apparatus wherein all the sequential reaction stages are located in a single confining means.

645 With baffle (i.e., deflector plate):
This subclass is indented under subclass 644. Apparatus comprising a sheet-like structure for directing fluid flow in the single reaction chamber.

646 With heating or cooling means:
This subclass is indented under subclass 644. Apparatus wherein a heat exchange occurs in the single reaction chamber.

647 And means downstream of a stage for internally injecting a reactant into a reaction stream for reaction in a subsequent stage, or injecting an internal quench stream into a reaction stream passing between stages:
This subclass is indented under subclass 644. Apparatus having means after a reaction stage for introducing either (a) a reactant into the reaction fluid within the reaction chamber for reaction therewith in a later reaction stage or (b) a quench stream into the reaction fluid within the reaction chamber as the reaction passes between stages.

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## SEE OR SEARCH THIS CLASS, SUBCLASS:

172, for waste gas purifier having plural chemical stages and means downstream of a stage for injecting a reactant into the gas for interaction in a subsequent stage.

648 Means within reaction chamber for redistributing reaction stream as it passes between adjacent stages:
This subclass is indented under subclass 644. Apparatus having means within reaction chamber for redistributing the reaction fluid; i.e., for equalizing or otherwise modifying the velocity profile of the reaction fluid, as it passes between adjacent reaction stages.

649 With the provision of heating or cooling means:
This subclass is indented under subclass 630. Apparatus comprising means for transferring thermal energy in any of the sequential reaction stages.

650 Including plural parallel reaction stages with each stage in the form of a reaction tube:
This subclass is indented under subclass 600. Apparatus wherein the reaction stages are arranged side by side in reaction zones with relatively high length-to-diameter ratios and the reactions occur concurrently.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

222, for parallel passages through a monolithic mass; e.g., honeycomb catalyst, etc.
651 Tubular stages in a single reaction chamber:
This subclass is indented under subclass 650. Apparatus wherein the reaction tubes are located within a single reaction confining area, e.g., a tube and shell reactor with the reactant flowing through the tubes.

652 Reaction tubes filled with catalyst particles:
This subclass is indented under subclass 651. Apparatus wherein the reaction tube contains a catalyst in a particulate form.

653 Reaction tubes containing structured catalyst:
This subclass is indented under subclass 651. Apparatus wherein the catalyst in the reaction tube has a specific solid shape.

654 Reaction tubes having catalyst coating:
This subclass is indented under subclass 651. Apparatus wherein the tubular surface is covered with a layer or film of catalyst.

655 Individual supply of reactants for each reaction tube:
This subclass is indented under subclass 651. Apparatus wherein the starting materials are fed separately to each tube.

656 With a solid reactant:
This subclass is indented under subclass 651. Apparatus wherein the starting material is of stable shape and volume.

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657 Operating at positive pressure:
This subclass is indented under subclass 651. Apparatus wherein the reaction stage is functioning above ambient pressure.

658 With tube plate (e.g., supporting plate):
This subclass is indented under subclass 651. Apparatus wherein the tubes are fixed on a planar structure.

## 659 With heating or cooling means:

This subclass is indented under subclass 651. Apparatus wherein the single reaction chamber includes a means for thermal energy transfer.

## FOREIGN ART COLLECTIONS

The definitions below correspond to abolished subclasses from which these collections were formed. See the Foreign Art Collection schedule of this class for specific correspondences. [Note: The titles and definitions for indented art collections include all the details of the one(s) that are hierarchically superior.]

FOR $100 \quad$ Structured visual or optical indicator, per se (422/55):
This foreign art collection is indented under unnumbered placeholder 422/50. Foreign art collection comprising (a) a structured indicator; i.e., an indicator which is more than a composition, per se, and has structure, or (b) liquid crystals, per se, which give a visual or optical indication of the presence or amount of material to be tested in the sample.
(1) note. visual or optical indicators, per se, include color indicators such as test papers or test strips and columns which give a visual or optical indication (e.g., color) of the presence or amount of material in the sample.

FOR 101 Having reagent in absorbent or bibulous substrate (422/56):
This foreign art collection is indented under FOR 100. Foreign art collection for apparatus wherein indicating reagent is contained in absorbent or bibulous carrier or substrate; e.g., a dip-stick, test paper, wick, etc.

FOR 102 Having coated reagent (422/57):
This foreign art collection is indented under FOR 100. Foreign art collection for apparatus wherein the reagent is coated on the surface of a carrier or substrate.

FOR 103 In holder or container having special form (422/58):
This foreign art collection is indented under FOR 100. Foreign art collection for apparatus wherein the indicator is contained in a holder or container having a special form or design; e.g., test plates, dish, tray, slide, etc.

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This foreign art collection is indented under FOR 103. Foreign art collection for apparatus in the form of a column-like structure.

FOR 105 Having plural-layered material (422/60):
This foreign art collection is indented under FOR 104. Foreign art collection for apparatus having material consisting of multiple distinct layers.

## FOR 106 Test package or kit (422/61):

This foreign art collection is indented under unnumbered placeholder 422/50. Foreign art collection wherein the apparatus comprising (a) a package containing reagents and all necessary ingredients to perform a test or (b) self-contained test kits for field testing, usually having dosage amounts of each material needed.

FOR 107 Miscellaneous laboratory apparatus and elements, per se (422/99): This foreign art collection is indented under unnumbered placeholder 422/50. Foreign art collection for apparatus specifically designed for use in a laboratory.

FOR $108 \quad$ Pipette or other volumetric fluid transfer means (422/100):
This foreign art collection is indented under FOR 107. Foreign art collection for apparatus having means for volumetrically transferring a fluid.

FOR 109 Including means for separating a constituent; e.g., filter, condenser, extractor, etc. (422/101):
This foreign art collection is indented under FOR 107. Foreign art collection for apparatus having means for separating a constituent by filtration, condensation, extraction, etc.

FOR $110 \quad$ Container (422/102):
This foreign art collection is indented under FOR 107. Foreign art collection for apparatus having means for holding material.

FOR 111 Valve or connector structure (422/103):
This foreign art collection is indented under FOR 107. Foreign art collection for apparatus having valve or connector structure or this structure, per se.

FOR 112 Holder, support, housing, or hood (422/104):
This foreign art collection is indented under FOR 107. Foreign art collection for apparatus for supporting, maintaining in a desired relationship with other structure, or surrounding other laboratory structures.

FOR 113 Including plural reaction stages (422/188):
This foreign art collection is indented under unnumbered placeholder 422/129. Foreign art collection for apparatus comprising multiple reaction means.

FOR 114 And means providing discrete sequential reaction stages, e.g., train, etc. (422/189):
This foreign art collection is indented under FOR 113. Foreign art collections for apparatus having means for subjecting the reaction stream to multiple separate successive reaction stages.

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FOR 115 Plural solid, extended surface, fluid contact reaction stages each containing; e.g., inert raschig rings, particulate sorbent, particulate or monolithic catalyst, etc. (422/190):
This foreign art collection is indented under FOR 114. Foreign art collection for apparatus including solid extended surface fluid contact reaction means, i.e., means providing a relatively large solid contact surface area within the reaction zone wherein large surface area within the reaction zone wherein large surface area presents multiple reaction sites for contact by the reaction mixture and, thereby, enhance the rate and/or the completeness of the reaction, including; e.g., inert raschig rings, particulate absorbent, etc.

FOR 116 Superimposed reaction stages in single reaction chamber (422/191): This foreign art collection is indented under FOR 115. Foreign art collection for apparatus wherein the reaction stages are located one over the other and within a single reaction chamber.

FOR 117 At least one reaction stage formed of fixed, annularly shaped bed of contact material and means directing reaction stream therethrough substantially perpendicular to longitudinal axis of bed (422/192):
This foreign art collection is indented under FOR 115. Foreign art collection for apparatus wherein at least one of the extended surface contact means is in the form of a relatively fixed, annularly shaped bed of contact material and including means for directing the flow of reactants through the contact bed in a direction substantially perpendicular to the longitudinal axis of the contact bed.

FOR 118 Reaction stages located within single reaction chamber (422/193): This foreign art collection is indented under FOR 114. Foreign art collection for apparatus wherein the reaction stages are located in a single confining means.

FOR 119 And means downstream of a stage for internally injecting a reactant into a reaction stream for interreaction in a subsequent stage, or injecting an internal quench stream into reaction stream passing between stages (422/194):
This foreign art collection is indented under FOR 118. Foreign art collection for apparatus having means after a reaction stage for injecting either (a) a reactant into the reaction stream within the reaction chamber for reaction therewith in a subsequent reaction stage or (b) a quench stream into the reaction stream within the reaction chamber as the reaction passes between stages.

FOR 120 Means within reaction chamber redistributing reaction stream as it passes between adjacent stages (422/195):
This foreign art collection is indented under FOR 118. Foreign art collection for apparatus having means within reaction chamber for redistributing the reaction stream; i.e., for equalizing or otherwise modifying the velocity profile of the reaction stream, as it passes between adjacent reaction stages.

## FOR 121 Including plural parallel reaction stages with each stage in form of a

 reaction tube (422/196):NOVEMBER 2, 2010

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## D. CHANGES TO THE DEFINITIONS

This foreign art collection is indented under FOR 113. Foreign art collection for apparatus wherein the reaction stages are formed by parallel (i.e., nonsequential) reaction tubes; i.e., reaction zones with relatively high length-to-diameter ratios.

FOR 122 Tubular stages in single reaction chamber (422/197):
This foreign art collection is indented under FOR 121. Foreign art collection for apparatus wherein the tubes are located within a single reaction confining area; e.g., a tube and shell reactor with the reactant flowing through the tubes.

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## D. CHANGES TO THE DEFINITIONS

## CLASS 424 - DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS

Definitions Modified

Subclass 1.11: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving or Sterilizing, subclasses 50+ for apparatus for in vitro quantitative or qualitative chemical analysis and laboratory devices, especially subclass 430 for in vitro test package or kit (e.g., radioassay).

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## D. CHANGES TO THE DEFINITIONS

## CLASS 427 - COATING PROCESSES

Definitions Modified

Subclass 2.1: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, for chemical apparatus which may have an in vitro medical use such as subclasses 50+ for analyzer, indicator, or lab device (subclasses 400-429 for structured visual or optical indicators such as test papers, strips, or columns).

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## D. CHANGES TO THE DEFINITIONS

## CLASS 431 - COMBUSTION

Definitions Modified

Subclass 268: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass $122,139+$, 171, 177+, 631-638, and 211 for apparatus for carrying out a chemical reaction in which a catalyst is used.

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## D. CHANGES TO THE DEFINITIONS

## CLASS 435 - CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

Definitions Modified

Subclass 287.7: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 400-429 for structured visual or optical indicators, especially subclass 420 for structured visual or optical indicator having a reagent in absorbent or bibulous substrate.

Subclass 287.9: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 400-429 for structured visual or optical indicators, especially subclass 425 for a structured visual or optical indicator having a coated reagent layer.

Subclass 288.1: Under SEE OR SEARCH CLASS:

Delete :

The reference to Class 422

Insert:

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## D. CHANGES TO THE DEFINITIONS

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 547 for miscellaneous laboratory containers, especially subclass 549 for tube shaped vessels and 556 for flasks, bottles or beakers.

Subclass 288.3: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 547 for miscellaneous laboratory containers, especially subclass 551 for plates, sheets, dishes or trays.

Subclass 294.1: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, particularly subclasses 600 for chemical reactors including plural reaction stages of general use.

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## D. CHANGES TO THE DEFINITIONS

## CLASS 436 - CHEMISTRY: ANALYTICAL AND IMMUNOLOGICAL TESTING

Definitions Modified

Subclass 165: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 402 for apparatus for carrying out the process of this subclass.

Subclass 169: Under SEE OR SEARCH CLASS:

Delete :

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 420 for equivalent apparatus.

Subclass 170: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 421 for apparatus for carrying out the process of this subclass.

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## D. CHANGES TO THE DEFINITIONS

## Subclass 177: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 527 for apparatus for carrying out the process of this subclass.

Subclass 180: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 501 for apparatus for carrying out the process of this subclass.

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## D. CHANGES TO THE DEFINITIONS

## CLASS 454 -VENTILATION

Definitions Modified

Subclass 56: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 565 and 567 for a laboratory housing or hood, per se.

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## D. CHANGES TO THE DEFINITIONS

## CLASS 502 - CATALYST, SOLID SORBENT, OR SUPPORT THEREFOR: PRODUCT OR PROCESS OF MAKING

Definitions Modified

Class Definition: Under SECTION IV, REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 30, 69+, 88+, 122, 177+, 631-638, 211+, and 312 for a process using, or apparatus including, a catalyst or sorbent. (Class Which May Have Catalytic or Sorbent Functions)

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## D. CHANGES TO THE DEFINITIONS

CLASS 506 - COMBINATORIAL, CHEMISTRY TECHNOLOGY: METHOD, LIBRARY, APPARATUS
Definitions Modified
Class Definition: Under SECTION III, REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS
Delete:
The reference to Class 422
Insert:
422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 50 through 570 for apparatus for performing an analysis which involves a chemical or physical reaction not elsewhere provided for and subclasses 129-242 for carrying out chemical reactions.

Subclass 33: Under SEE OR SEARCH CLASS:

Delete:
The reference to Class 422

Insert:
422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 50 through 570 for apparatus for performing an analysis which involves a chemical or physical reaction not elsewhere provided for and subclasses 129-242 for carrying out chemical reactions.

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## D. CHANGES TO THE DEFINITIONS

CLASS 530 - CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF

Definitions Modified

Subclass 344: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 422

Insert:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 527 for apparatus for carrying out the process of this subclass.

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## D. CHANGES TO THE DEFINITIONS

## CLASS 606 - SURGERY

Definition Modified

Subclass 181:

Insert:

## SEE OR SEARCH CLASS:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclass 410 for a lancet used to transfer a sample to an indicator reagent structure.

