

- 1 **MISCELLANEOUS (E.G., ARTIFICIAL SNOW)**
- 2 **FIRE-EXTINGUISHING**
- 3 .Foam or gas phase containing
- 4 .Gas generative, chemically
- 5 ..Dry, combustion type
- 6 ..Low temperature chemically interreactive
- 6.5 ...Foam-stabilizant or colloid-stabilizant containing
- 7 ..Carbonates or ammonium salts containing or pyrolytic
- 8 .Volatile or gas charged liquids containing
- 8.05 .Foam-stabilizant or colloid-stabilizant containing
- 601 **FIRE RETARDING**
- 602 .Having disparate function
- 603 .For living matter
- 604 .Material physically quantified
- 605 .Containing gas
- 606 .Intumescent
- 607 .For wood or cellulosic material other than textile
- 608 .For textile (i.e., woven material)
- 609 .For solid synthetic polymer and reactants thereof
- 610 .Dispersion or colloidal system
- 611 ..For dispersion or colloidal system
- Class 507 is an integral part of this Class (Class 252), as shown by the position of this box, and follows the schedule hierarchy of this Class, retaining all pertinent definitions and Class lines of this class.
- 8.57 **LEATHER OR FUR TREATING (OTHER THAN CLEANING COMPOSITIONS OR AUXILIARY COMPOSITIONS FOR CLEANING)**
- 8.61 **DURABLE FINISHES FOR TEXTILE MATERIALS, OR PROCESSES OF PREPARING (E.G., CREASE RESISTANT, MOISTURE ABSORBENT, ANTISTATIC, ETC., FINISHES)**
- 8.62 .Oil or water repellent or soil resistant or retardant
- 8.63 .Textile softening

- 8.81 **TEXTILE PROCESSING AID COMPOSITIONS, OR PROCESSES OF PREPARING (E.G., LUBRICANTS OR ANTISTATIC AGENTS FOR FIBER, YARN, FABRIC, ETC.)**
- 8.82 .For tire cord yarn, elastomeric filaments, or biologically innocuous or absorbable fibers (e.g., textiles used in food packaging, absorbable surgical sutures, etc.)
- 8.83 .Sizing agents (e.g., for weaving yarn, etc.)
- 8.84 .For textile materials consisting wholly or in part of noncellulosic synthetic fibers (e.g., spin finish for nylon, polyester, acrylic, etc., fibers; lubricants for blends thereof with diverse fibers, etc.)
- 8.85 .For textile materials consisting wholly or in part of animal hair fibers (e.g., wool, etc.)
- 8.86 .For textile materials consisting wholly or in part of silk or cellulose-based fibers (e.g., cotton; artificial silk, such as rayon, cellulose acetate, etc., or blends thereof; silk soaking compositions; etc.)
- 8.91 **COMPOSITIONS FOR ENHANCING THE APPEARANCE OF CONSUMER TEXTILE GOODS (OTHER THAN CLEANING COMPOSITIONS OR AUXILIARY COMPOSITIONS FOR CLEANING), OR PROCESSES OF PREPARING (E.G., ANTISTATIC OR WRINKLE-REMOVING SPRAY FOR GARMENTS, ETC.)**
- 67 **VAPORIZATION, OR EXPANSION, REFRIGERATION OR HEAT OR ENERGY EXCHANGE**
- 68 .With lubricants, or warning, stabilizing or anti-corrosion agents or persistent gases
- 69 .With low-volatile solvent or absorbent

Class 508 is an integral part of this Class (Class 252), as shown by the position of this box, and follows the schedule hierarchy of this Class, retaining all pertinent definitions and Class lines of this class.

- 60 **PHYSICAL SEPARATION AGENTS**
- 61 .Froth-flotation or differential adherence
- 62 **HEAT OR SOUND INSULATING**
- 62.2 **ELECTROLYTES FOR ELECTRICAL DEVICES (E.G., RECTIFIER, CONDENSER)**
- 62.3 R **BARRIER LAYER DEVICE COMPOSITIONS**
- 62.3 T .Thermoelectric
- 62.3 Q .Organic
- 62.3 E .Free element containing
- 62.3 S ..Selenium or tellurium
- 62.3 GA .Group III element containing binary compound; e.g., Ga, As
- 62.3 ZB .Groups II and V elements containing binary compound; e.g., zinc, bismuth
- 62.3 ZT .Groups II and VI elements containing binary compound; e.g., Zn, Te
- 62.3 V .Group VI element-containing
- 62.3 BT ..Containing Group IV element and oxygen; e.g., barium, titanium III oxide
- 62.3 C .Binary alloy or carbide; e.g., Al, In, LiC
- 62.51 R **MAGNETIC**
- 62.52 .Flaw detection or magnetic clutch
- 62.53 .With wax, bitumen, resin, or gum
- 62.54 ..Synthetic resin
- 62.55 .Free metal or alloy containing
- 62.56 .Iron-oxygen compound containing
- 62.57 ..With scandium, yttrium, gallium, rare earth, or actinide
- 62.58 ..With boron, aluminum, thallium, or indium
- 62.59 ..With titanium, zirconium, silicon, hafnium, germanium, or tin
- 62.6 ..With Group I metal
- 62.61 ...Lithium
- 62.62 ..With Group II metal or lead
- 62.63 ...Calcium, barium, strontium, or lead
- 62.64 ...Magnesium
- 62.51 C .Chromium or chromium compound containing
- 62.9 R **PIEZOELECTRIC**
- 62.9 PZ .Lead, zirconium, titanium or compound thereof containing
- 567 **DEFINED LIQUID DIELECTRIC DISPERSED IN DEFINED WEB OR SHEET**
- 570 **FLUENT DIELECTRIC**
- 571 .Gaseous or gas-containing
- 572 .Metal- or insoluble component-containing; e.g., slurry, grease, etc.
- 573 .Si-containing
- 574 .B-, P-, S-, Se-, or Te-containing
- 575 .N-containing
- 576 ..O in N compound
- 577 ...Nitro or nitroso compound
- 578 .O-containing
- 579 ..Carboxylic acid ester
- 580 ..Halogen-containing
- 581 .Halogenated polycyclic compound-containing
- 70 **FROST-PREVENTING, ICE-THAWING, THERMOSTATIC, THERMOPHORIC, OR CRYOGENIC**
- 71 **HEAT-EXCHANGE, LOW-FREEZING OR POUR POINT, OR HIGH BOILING COMPOSITIONS**
- 72 .With leak-stopping agents
- 73 .Organic components
- 74 ..Metal compounds or inorganic components (except water)
- 75 ...Organic compounds of nonmetals other than C, H, and O
- 76 ...Carboxylic organic compounds containing
- 77 ..Organic compounds of nonmetals other than C, H, and O
- 78.1 ...Organic compounds of nonmetals other than C, H, O, and N
- 78.3 ...Organic Si containing compounds
- 78.5 ...Organic P containing compounds
- 79 ..Carboxylic organic compounds containing
- 79.1 **ETCHING OR BRIGHTENING COMPOSITIONS**
- 79.2 .Inorganic acid containing
- 79.3 ..Fluorine compound containing
- 79.4 ..With organic material
- 79.5 .Alkali metal hydroxide containing

- 88.1 **DUST SUPPRESSANTS FOR BULK MATERIALS, OR PROCESSES OF PREPARING (E.G., FOR CONSOLIDATING DUST IN COAL MINES, CONTROLLING SOIL EROSION, ETC.)**
- 88.2 **COMPOSITIONS FOR COATING OR IMPREGNATING A SUBSTRATE USED FOR COLLECTING FINE PARTICLES BY ADHERENCE, OR PROCESSES OF PREPARING (E.G., FOR IMPREGNATING DUSTING CLOTHS, DUST FILTERS, ETC.)**

Class 510 is an integral part of this Class (Class 252), as shown by the position of this box, and follows the schedule hierarchy of this Class, retaining all pertinent definitions and Class lines of this class.

- 175 **WATER-SOFTENING OR PURIFYING OR SCALE-INHIBITING AGENTS**
- 176 .Packages or heterogeneous arrangements
- 178 .Deoxidant or free-metal containing
- 179 .Water-insoluble base-exchange agent containing
- 180 .Plant or organic material containing
- 181 ..With inorganic matter other than alkali-metal hydroxides and carbonates and water
- 181.1 **GETTERS OR GAS OR VAPOR GENERATING MATERIALS FOR ELECTRIC LAMPS, ELECTRIC SPACE DISCHARGE DEVICES, AND SIMILAR DEVICES**
- 181.2 .Plural getter and/or gas or vapor generating materials
- 181.3 .Reactive compositions
- 181.4 ..Containing magnesium, alkali-metal and alkaline-earth metal, or compound thereof
- 181.5 .Gaseous getters
- 181.6 .Metal or metal compound containing
- 181.7 ..Magnesium, alkali-metal, or alkaline-earth metal
- 194 **HUMIDOSTATIC, WATER REMOVE, BINDIVE, OR EMISSIVE**

Class 502 is an integral part of this Class (Class 252), as shown by the position of this box, and follows the schedule hierarchy of this Class, retaining all pertinent definitions and Class lines of this class.

- 478 **X-RAY OR NEUTRON SHIELD**
- 500 **ELECTRICALLY CONDUCTIVE OR EMISSIVE COMPOSITIONS**
- 501.1 .Light sensitive
- 502 .Elemental carbon containing
- 503 ..With free metal
- 504 ..With carbide
- 505 ..With radioactive material
- 506 ..With metal compound
- 507 ...Titanium or zirconium compound
- 508 ...Aluminum compound
- 509 ...Magnesium, alkaline earth metal, or rare earth metal compound
- 510 ..With organic component
- 511 ...Resin, rubber, or derivative thereof containing
- 512 .Free metal containing
- 513 ..Iron group metal (iron, cobalt, nickel)
- 514 ..Noble metal (gold, silver, ruthenium, rhodium, palladium, osmium, iridium, platinum)
- 515 ..Tungsten
- 516 .Carbide containing
- 517 .Radioactive material containing
- 518.1 .Metal compound containing
- 519.1 ..Compound viewed as composition (i.e., wherein atoms or molecules in a chemical formula are not present as whole small integer values or cannot be multiplied by a single-digit factor to yield integer values)
- 519.12 ...Titanium containing
- 519.13 ...Bismuth, ruthenium, or iridium containing
- 519.14 ...Sulfur, tellurium, selenium, nitrogen, phosphorus, or boron containing
- 519.15 ...Four diverse metals containing
- 519.2 ..Organometallic (e.g., soap, complex, etc.)
- 519.21 ...With additional organic compound

- 519.3 ..With organic compound  
 519.31 ...The organic compound contains silicon  
 519.32 ...The organic compound is a natural resin, protein, lignin, carbohydrate, or derivative thereof  
 519.33 ...The organic compound is a polymer  
 519.34 ...The metal compound contains halogen, sulfur, selenium, phosphorus, arsenic, boron, or nitrogen  
 519.4 ..Sulfur, selenium, or tellurium containing  
 519.5 ..Zinc compound  
 519.51 ...Additional diverse metal containing  
 519.52 ...With boron compound  
 519.53 ...With halogen compound  
 519.54 ...Silicon containing or with compound of bismuth or silicon  
 520.1 ..Tin compound  
 520.2 ..Titanium or zirconium compound  
 520.21 ...Additional diverse metal containing  
 520.22 ...Boron, silicon, phosphorus, nitrogen, hydrogen, carbon, or halogen containing  
 520.3 ..Silver, gold, or platinum compound  
 520.4 ..Vanadium compound  
 520.5 ..Tungsten or yttrium compound  
 521.1 ..Rare earth metal compound  
 521.2 ..Iron, cobalt, or nickel compound  
 521.3 ..Silicon containing or with silicon compound  
 521.4 ..Boron containing or with boron compound  
 521.5 ..Halogen, carbon, phosphorus, or nitrogen containing  
 521.6 ..With nonmetal compound containing halogen, nitrogen, phosphorus, or sulfur
- 492 **INCANDESCENT MANTLE COMPOSITIONS**  
 299.01 **LIQUID CRYSTAL COMPOSITIONS**  
 299.1 .Containing pleochroic dye  
 299.2 .Containing dopant salt  
 299.3 .Containing charge-transfer agents  
 299.4 .Containing nonchiral aligning agents  
 299.5 .Containing nonchiral additive having no specified mesophase
- 299.6 .Containing nonsteryl liquid crystalline compound of specified structure  
 299.61 ..Including heterocyclic ring  
 299.62 ..Including fused or bridged rings  
 299.63 ..Including fully saturated ring  
 299.64 ..Aryl ester of aryl acid having three benzene rings  
 299.65 ...Benzene rings linked by direct bond  
 299.66 ..Benzene rings linked by direct bond  
 299.67 ..Phenyl benzoate derivative  
 299.68 ..Including benzene rings bonded through azo, azoxy, or azomethine linkage  
 299.7 .Cholesteric liquid crystal composition containing a sterol derivative
- 582 **LIGHT TRANSMISSION MODIFYING COMPOSITIONS**  
 583 .Modification caused by energy other than light  
 584 .Inorganic crystalline solid  
 585 .Producing polarized light  
 586 .Displaying color change  
 587 .Infrared  
 588 .Ultraviolet  
 589 ..Organic material
- 625 **RADIOACTIVE COMPOSITIONS**  
 634 .In form of sol solution or gel  
 635 ..Including production of solid particles by chemical reaction  
 636 .Nuclear reactor fuel  
 637 ..Actinide having nonactinide component  
 638 ...Oxide component  
 639 ...Carbon containing component  
 640 ...Free metal or metal compound component  
 641 ..Actinide nitrides only  
 642 ..Actinide carbides only  
 643 ..Actinide oxides only  
 644 .As a source of radiation or heat  
 645 ..For tracing, tagging, or testing  
 646 .Luminescent  
 647 ..Laser
- 301.16 **ORGANIC LUMINESCENT MATERIAL CONTAINING COMPOSITIONS**  
 301.17 .Scintillating or lasing compositions  
 301.18 ..Heavy metal containing

- 301.19 .Inspection penetrant compositions
- 301.21 .Optical brightening compositions
- 301.22 ..Heterocyclic compounds having an intericyclic acyclic methine linkage
- 301.23 ...Triazines
- 301.24 ...Thiazoles or oxazoles
- 301.25 ..Azine containing
- 301.26 ..Six-membered ring having one hetero-N-atom
- 301.27 ..Azole containing
- 301.28 ...Thiazoles or oxazoles
- 301.29 ...Tri- or tetrazoles
- 301.31 ..Five-membered ring having four carbon atoms and one nitrogen atom
- 301.32 ..Hetero-S-atom or hetero-O-atom containing
- 301.33 .With inorganic luminescent material
- 301.34 .Natural resin, cellulose, or derivatives containing
- 301.35 .Synthetic resin containing
- 301.36 **INORGANIC LUMINESCENT COMPOSITIONS WITH ORGANIC NONLUMINESCENT MATERIAL**
- 301.4 R **INORGANIC LUMINESCENT COMPOSITIONS**
- 301.5 .Tungsten containing
- 301.6 R .Zinc or cadmium containing
- 301.6 S ..Sulfur containing
- 301.6 P ..Phosphorus containing
- 301.6 F ..Group IV element containing
- 301.4 S .Sulfur containing
- 301.4 P .Phosphorus containing
- 301.4 F .Group IV element containing
- 301.4 H .Compositions containing halogen; e.g., halides and oxyhalides
- 700 **CHEMILUMINESCENT**
- 182.1 **HAVING UTILITY AS A REACTIVE MATERIAL IN AN ELECTROCHEMICAL CELL; E.G., BATTERY, ETC.**
- 184 **ABSORPTIVE, OR BINDIVE, AND CHEMICALLY YIELDIVE (E.G., ION EXCHANGER)**
- 185 **PLUMBIFEROUS SULPHUR BINDANT OR MODIFIANT CONTAINING**
- 186.1 **OXIDATIVE BLEACHANT, OXIDANT CONTAINING, OR GENERATIVE**
- 186.2 .Composition containing two or more solid materials with defined physical dimensions; e.g., surface areas, volumes, etc., or process of producing said composition
- 186.21 .Plural oxidants
- 186.22 ..Contains plural peroxides
- 186.23 ...Organic peroxide
- 186.24 .Contains elemental material devoid of water
- 186.25 .Composition containing a stabilizer or a product in the form of a surface-modified, impregnated, encapsulated, or surface-coated article; or process of producing said composition
- 186.26 ..Organic peroxide
- 186.27 ..Inorganic peroxide
- 186.28 ...Contains hydrogen peroxide
- 186.29 ....With organic material
- 186.3 ...Contains perborate
- 186.31 ....With organic material
- 186.32 ...Contains Group IA metal peroxide
- 186.33 ..Contains Group VIIB or Group VIII metal or compound thereof
- 186.34 ..Contains organohalogen compound as oxidant
- 186.35 ...Chloroisocyanurate
- 186.36 ..Contains free halogen or oxy-halogen acid type
- 186.37 ...Contains alkaline earth metal
- 186.38 .Contains activator admixed with inorganic peroxide
- 186.39 ..Contains heterocyclic compound
- 186.4 ...Oxygen heterocycle
- 186.41 ..Hydrogen peroxide
- 186.42 .Contains organic peroxide
- 186.43 .Contains inorganic peroxide
- 186.44 .Contains inorganic nitrogen containing compound
- 187.1 .Free halogen or oxy-halogen acid type
- 187.2 ..Oxidant contains halogen other than chlorine
- 187.21 ..Chlorine dioxide or monoxide
- 187.22 ...With elemental chlorine
- 187.23 ..Chlorite
- 187.24 ...Hypochlorite
- 187.25 ....Alkali metal hypochlorite
- 187.26 .....Sodium
- 187.27 ....Alkaline earth metal hypochlorite

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| 187.28  | .....Calcium   | 377    | ..From elementary nitrogen and hydrogen only or purification                                     |
| 187.29  | .....With alkali metal compound  | 378 R  | <b>EXFOLIATED OR INTUMESCED</b>  |
| 187.3   | .....With alkaline earth metal compound  | 378 P  | .Perlite   |
| 187.31  | ..Chlorate or perchlorate  | 380    | <b>PRESERVATIVE AGENTS</b>   |
| 187.32  | ..Hypochlorous acid  | 381    | .Anti-caking, separative or protective coatings or zones   |
| 187.33  | ..Oxidant contains N-Cl bond   | 382    | ..Foams, liquids, or fluids  |
| 187.34  | ..Chloroisocyanurate   | 383    | ..Organic and inorganic matter containing  |
| 188.1   | <b>REDUCTIVE BLEACHANT, DEOXIDANT, REDUCTANT, OR GENERATIVE</b>                          | 384    | ..Organic compound containing  |
| 188.2   | ..Sulfur containing reductant, bleachant, deoxidant, or generative                       | 385    | ..Inorganic compound or element containing   |
| 188.21  | ..Sulfite  | 387    | .Anti-corrosion  |
| 188.22  | ..Hydrosulfite (dithionite)  | 388    | ..Organic compound containing  |
| 188.23  | ...With organic additive   | 389.1  | ...Component inorganic or organic comprising element other than C,H,O,N,S, and halogen           |
| 188.24  | .....Contains nitrogen   | 389.2  | ...Phosphorus containing   |
| 188.25  | ..Hydrogen generating  | 389.21 | .....Nitrogen and/or sulfur in phosphorus compound   |
| 188.26  | ..Hydride containing   | 389.22 | .....Pentavalent P, except $H(n+2)PnO(3n+1)$   |
| 188.27  | ..Contains Al-H bond   | 389.23 | .....Pentavalent P, except $H(n+2)PnO(3n+1)$   |
| 188.28  | ..Deoxidant or oxygen scavenging   | 389.24 | .....Trivalent P (e.g., phosphorus acid, phosphites, etc.)                                       |
| 189   | <b>CO, S, NEGATIVE ELEMENT, OR ACID, BINDANT CONTAINING</b>                              | 389.3  | ...Silicon containing  |
| 190   | ..With absorbents  | 389.31 | .....Organo silicon  |
| 191   | ..Basis-iron containing  | 389.32 | .....Nitrogen containing (e.g., amino, etc.)   |
| 192   | ..Alkali-metal or alkali-metal compound containing                                       | 389.4  | ...Boron containing  |
| 193   | <b>AMMONIA, ALKALI OR BASE, BINDANT CONTAINING</b>                                       | 389.41 | .....Organo boron  |
| 363.5   | <b>SOLIDS WITH SOLUTION OR DISPERSION AIDS</b>   | 389.5  | ...Chromium containing   |
| Class 516 is an integral part of this Class (Class 252), as shown by the position of this box, and follows the schedule hierarchy of this Class, retaining all pertinent definitions and Class lines of this class. |  | 389.51 | ...Lead containing   |
| 364   | <b>SOLVENTS</b>  | 389.52 | ...Zinc or aluminium containing  |
| 365   | <b>ANTI-INGESTIBLE OR DENATURED</b>  | 389.53 | ...Nickel, iron, cobalt, copper, manganese, mercury, or cadmium containing                       |
| 366   | ..Alcohol type   | 389.54 | ...Molybdenum, arsenic, antimony, vanadium, bismuth, tungsten, selenium, or tellurium containing |
| 367.1   | <b>SOAPS (I.E., ALKALI-METAL SALTS OF WATER-INSOLUBLE FATTY ACIDS OR OF ROSIN ACIDS)</b> | 389.61 | ...Group IIA metal containing  |
| 372   | <b>GASEOUS COMPOSITIONS</b>  | 389.62 | ...Alkali metal or $NH_4^+$ containing   |
| 373   | ..Carbon-oxide and hydrogen containing   | 390    | ...Amine, amide, azo, or nitrogen-base radical containing  |
| 374   | ..Nitrogen and hydrogen containing   | 391    | ...Sulphur organic compound containing   |
| 375   | ..Nitrogen from air or elementary nitrogen only and hydrogen from compounds              | 392    | ...Oxygen organic compound containing  |
| 376   | ...Hydrogen from hydrocarbons  |        |  |

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| 393    | ...Phenol or quinone radical containing   | 406    | ...Sulphur organic compound containing  |
| 394    | ..Nitrogen organic compound containing  | 407    | ...Oxygen organic compound containing   |
| 395    | ...Sulphur organic compound containing  | 408.1  | <b>NONREACTIVE ANALYTICAL, TESTING, OR INDICATING COMPOSITIONS</b>  |
| 396    | ...Oxygen organic compound containing   | 600    | <b>RADIATION SENSITIVE</b>  |
| 397    | .Anti-oxidants or chemical change inhibitants   | 182.11 | <b>COMPOSITIONS CONTAINING A SINGLE CHEMICAL REACTANT OR PLURAL NONINTERACTIVE CHEMICAL REACTANTS; I.E., NOT VIS-A-VIS</b>  |
| 398    | ..Plant or animal matters of unknown compositions   | 182.12 | .Organic reactant   |
| 399    | ..Organic compound containing   | 182.13 | ..For subsequent solid polymer treatment or preparation; e.g., crosslinking, grafting, curing, hardening, vulcanizing, etc. |
| 400.1  | ...Component inorganic or organic comprising element other than C,H,O,N,S, and halogen            | 182.14 | ..Reactant contains element other than C, H, O, or N  |
| 400.2  | ....Phosphorus containing   | 182.15 | ....Halogen   |
| 400.21 | .....Nitrogen or sulfur in phosphorus compound  | 182.16 | ....Bromine or iodine   |
| 400.22 | .....Pentavalent P, but not fully oxygenated  | 182.17 | ....Sulfur  |
| 400.23 | .....Pentavalent P, but not fully oxygenated  | 182.18 | ...Reactant contains ethylenic group  |
| 400.24 | .....Trivalent P (e.g., phosphorous acid, phosphites, etc.)                                       | 182.19 | ...Cyclic anhydride moiety  |
| 400.3  | ....Silicon containing  | 182.2  | ...Reactant contains isocyanate (-N=C=O) or blocked isocyanate group  |
| 400.31 | .....Organo silicon   | 182.21 | ...Two or more reactants containing isocyanate or blocked isocyanate groups   |
| 400.4  | ....Boron containing  | 182.22 | ....Urethane (-N-C(=O)-O-C-) group  |
| 400.41 | .....Organo boron   | 182.23 | ...Reactant contains oxygen   |
| 400.5  | ....Chromium containing   | 182.24 | ...Reactant contains plural hydroxyl groups   |
| 400.51 | ....Lead containing   | 182.25 | ....Three or more reactants containing plural hydroxyl groups   |
| 400.52 | ....Zinc or aluminium containing  | 182.26 | ....Reactant contains nitrogen  |
| 400.53 | ....Nickel, iron, cobalt, copper, manganese, mercury, or cadmium containing                       | 182.27 | ....Reactant contains ether linkage   |
| 400.54 | ....Molybdenum, arsenic, antimony, vanadium, bismuth, tungsten, selenium, or tellurium containing | 182.28 | ...Reactant contains carboxylic acid group or derivative thereof  |
| 400.61 | ...Group IIA metal containing   | 182.29 | ..With stabilizer or inhibitor  |
| 400.62 | ...Alkali metal or NH <sub>4</sub> <sup>+</sup> containing  | 182.3  | ..Reactant contains phosphorus, silicon, or sulfur atom, or contains metal-to-carbon bond                                   |
| 401    | ...Amine, amide, azo, or nitrogen-base radical containing   | 182.31 | ..Reactant contains phenolic, phenolic ether, or inorganic phenolate group  |
| 402    | ....Sulphur organic compound containing   | 182.32 | .Inorganic reactant other than sulfur containing  |
| 403    | ....Oxygen organic compound containing  | 182.33 | ..Reactant contains heavy metal   |
| 404    | ...Phenol or quinone radical containing   |        |   |
| 405    | ...Nitrogen organic compound containing   |        |   |

- 182.34 ..Reactant contains nitrogen  
 182.35 ..Reactant contains aluminum or phosphorus  
 183.11 **CHEMICALLY INTERACTIVE REACTANTS (VIS-A-VIS)**  
 183.12 ..With stabilizer or inhibitor  
 183.13 ..Organic reactant admixed with inorganic reactant  
 183.14 ..Inorganic reactants only  
 183.15 ..Calcium carbide precursors  
 183.16 ..Contains carbonate or bicarbonate
- FOR 104 .Ether group containing (252/8.9)  
 FOR 113 **SWEEPING OR DUST OR PARTICLE ADHERENT (252/88)**  
 FOR 247 **SOAPS (ALKALI-METAL SALTS OF WATER-INSOLUBLE FATTY OR ROSIN ACIDS) (252/367)**  
 FOR 248 .Products (252/368)  
 FOR 249 .Including saponification (252/369)  
 FOR 250 ..With subsequent operations (252/370)  
 FOR 251 .Metal compound containing (252/518)  
 FOR 252 ..Iron group compound (252/519)  
 FOR 253 ..Titanium or zirconium compound (252/520)  
 FOR 254 ..Magnesium, alkaline earth metal, or rare earth metal compound (252/521)

**CROSS-REFERENCE ART COLLECTIONS**

- 950 **DOPING AGENT SOURCE MATERIAL**  
 951 .For vapor transport  
 960 **SURFACE FLAW DETECTING COMPOSITIONS**  
 961 **STRESS OR CONTACT INDICATORS**  
 962 **TEMPERATURE OR THERMAL HISTORY**  
 963 **HUMIDITY OR MOISTURE INDICATORS**  
 964 **LEAK DETECTION**  
 965 **RETROSPECTIVE PRODUCT IDENTIFICATION (E.G., TAGS AND TRACERS, ETC.)**

**DIGESTS**

- DIG 18 **ACTIVATION-PLATINUM**

**FOREIGN ART COLLECTIONS**FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

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

- FOR 100 **TEXTILE TREATING (252/8.6)**  
 FOR 101 .Organic sulphony compound containing (252/8.7)  
 FOR 102 ..Organic amine or amide containing (252/8.75)  
 FOR 103 .Organic amine or amide containing (252/8.8)