COATING OR PLASTIC COMPOSITIONS

1.05 Metal-depositing composition or substrate-sensitizing compositions for metal-depositing compositions

1.11 Sensitizing composition

1.12 Metal-depositing composition contains mixtures of elemental metal and a metal compound other than solely as a Group IA metal compound

1.13 Elemental metal is Group IB (Cu, Ag, Au)

1.14 Elemental metal is Ag

1.15 Elemental metal is noble metal of Group VIII (Ru, Rh, Pd, Os, Ir, Pt)

1.16 Elemental metal is Group IIB (Zn, Cd, Hg) metal

1.17 Elemental metal is Zn

1.18 Metal-depositing composition contains elemental metal of Group IB (Cu, Ag, Au)

1.19 Metal-depositing composition contains elemental noble metal of Group VIII (Ru, Rh, Pd, Os, Ir, Pt)

1.21 Metal composition contains elemental noble metal of Group IB (Cu, Ag, Au)

1.22 Metal-depositing composition contains mixtures of metal compounds other than solely as Group IA metal compounds, e.g., electroless

1.23 At least one metal is a Group IB (Cu, Ag, Au) metal

1.24 At least one metal is a noble metal of a Group VIII (Ru, Rh, Pd, Os, Ir, Pt) metal

1.25 Metal-depositing composition contains polyvalent metal compound

1.26 Group IB (Cu, Au) metal

1.27 Group VIII metal

1.28 Group VIII noble metal (Ru, Rh, Pd, Os, Ir, Pt)

1.29 Group IIB (Zn, Cd, Hg) metal

2 Coating repellent

3 Polishes

4 Protein or derivative containing

5 Carbohydrate or derivative containing

6 Natural resin or derivative containing

7 With fatty oil

8 Fat, fatty oil, fatty oil acid or salt thereof containing

9 Fatty oil

10 Wax, bituminous material or tarry residue containing

11 Hydrocarbon containing

12 Saturating or indurating

13 Fog, frost or ice preventive

14.05 Corrosion inhibiting coating composition

14.11 Contains water

14.12 Phosphorus material

14.13 Carboxylic acid, ester, alcohol or sulfur or metal derivative

14.14 Inorganic material other than water

14.15 Organic nitrogen-containing material, e.g., amine, amide, etc.

14.16 Heterocyclic nitrogen-containing material

14.17 Inorganic material other than water

14.18 Amine salt of carboxylic acid

14.21 Inorganic material or elemental component thereof, e.g., S, metal, etc.

14.22 Contains animal, vegetable, fish oil or a fraction or derivative thereof

14.23 Carboxylic acid, ester, alcohol or metal or sulfur or amine or amide derivative thereof

14.24 Carboxylic acid, ester, or amine or amide derivative thereof

14.25 Inorganic material or elemental component thereof

14.26 Contains petroleum oil or a fraction thereof

14.27 Carboxylic acid, ester, alcohol or sulfur or metal derivative thereof

14.28 Metal salt of carboxylic acid

14.29 Metal salt of sulfonic acid

14.31 Organic nitrogen-containing material, e.g., amine, amide, etc.

14.33 Inorganic material or elemental component thereof, e.g., S, metal, etc.
14.34 Contains wax, bitumen, asphalt, gum, natural resin, varnish, lacquer, or paint.
14.35 Caboxylic acid, ester, alcohol or sulfur or metal derivative.
14.36 Metal salt of carboxylic acid.
14.37 Organic nitrogen-containing material.
14.38 Organic sulfur-containing material.
14.39 Inorganic material or elemental component thereof.
14.41 Contains mixture of at least two organic compounds.
14.42 Organic nitrogen-containing material.
14.43 Organic sulfur-containing material.
14.44 Contains mixture of organic material and at least one inorganic material or elemental component thereof.
14.45 Elemental S or inorganic sulfur-containing compound.
14.34 Contains fireproofing agent.
18.23 Elemental sulfur or sulfur-containing organic compound.
18.24 Halogen-containing organic compound.
18.25 With at least one inorganic material which is other than water.
18.26 Metal-containing material.
18.27 Group IIB metal atom (Zn, Cd, Hg).
18.28 Group VA metal atom (As, Sb, Bi).
18.29 Wax containing.
18.3 Boron containing.
18.31 Phosphorus containing.
18.32 Nitrogen-containing compound.
18.33 Nitrogen compound contains a sulfur atom.
18.34 Elemental sulfur or sulfur-containing organic compound.
18.35 Halogen-containing organic compound.
18.36 Group IIB metal containing (Zn, Cd, Hg).
18.37 Silicon containing.
18.38 Boron containing.
18.39 Phosphorus containing.
18.40 Nitrogen-containing phosphorus compound.
18.16 Inorganic compound contains a phosphorus and a nitrogen atom.
18.17 Contains phosphorus directly bonded to nitrogen.
18.18 Phosphorus compound is organic.
18.19 Phosphorus compound which is organic contains halogen.
18.2 With halogen-containing compound.
18.21 Nitrogen-containing organic compound.
18.22 Nitrogen compound contains a sulfur atom.
18.23 Elemental sulfur or sulfur-containing organic compound.
18.24 Halogen-containing organic compound.
18.25 With at least one inorganic material which is other than water.
18.26 Metal-containing material.
18.27 Group IIB metal atom (Zn, Cd, Hg).
18.28 Group VA metal atom (As, Sb, Bi).
18.29 Wax containing.
18.3 Boron containing.
18.31 Phosphorus containing.
18.32 Nitrogen-containing compound.
18.33 Nitrogen compound contains a sulfur atom.
18.34 Elemental sulfur or sulfur-containing organic compound.
18.35 Halogen-containing organic compound.
18.36 Group IIB metal containing (Zn, Cd, Hg).
18.37 Silicon containing.
18.38 Boron containing.
18.39 Phosphorus containing.
18.40 Nitrogen-containing phosphorus compound.
18.16 Inorganic compound contains a phosphorus and a nitrogen atom.
18.17 Contains phosphorus directly bonded to nitrogen.
18.18 Phosphorus compound is organic.
18.19 Phosphorus compound which is organic contains halogen.
18.2 With halogen-containing compound.
18.21 Nitrogen-containing organic compound.
18.22 Nitrogen compound contains a sulfur atom.
31.17 ..... Specified developer (i.e., electron acceptor)
31.18 ..... Phenolic hydroxy compound as the developer
31.19 ..... With specified color former
31.2 ..... Specified color former (i.e., electron donating)
31.21 ..... The color former contains a heterocyclic oxygen ring
31.22 ..... Fluoran or derivative containing
31.23 ..... Erasable composition
31.24 ..... Protein, carbohydrate, or wax containing
31.25 ..... Emulsion
31.26 ..... Water in oil
31.27 ..... Organic dye containing
31.28 ..... With pigment
31.29 ..... Hot melt type or wax containing
31.3 ..... Petroleum derivative containing (e.g., paraffin or microcrystalline wax, etc.)
31.31 ..... Natural wax containing (e.g., carnauba, montan, Japan, candelilla, etc.)
31.32 ..... Erasable, purified, correctable, fugitive, indicator, conductive, fluorescent, chromogenic, or magnetic composition
31.33 ..... Specified particle size or coated particle containing
31.34 ..... Fat, fatty oil, fatty acid, or derivative thereof containing
31.35 ..... Fatty acid or derivative containing
31.36 ..... Carbohydrate or derivative containing
31.37 ..... Cellulose or derivative containing
31.38 ..... Carbohydrate gum containing
31.39 ..... Starch containing
31.4 ..... Natural resin or derivative containing
31.41 ..... Resin or derivative containing
31.42 ..... Shellac or derivative containing
31.43 ..... Organic nitrogen compound containing
31.44 ..... Anthraquinone attached directly or indirectly to the nitrogen by nonionic bonding
31.45 ..... The nitrogen is part of a cyano group
31.46 ..... The nitrogen is a ring member of a heterocyclic ring
31.47 ..... Six-ring members in the heterocyclic ring
31.48 ..... Acyclic azo attached directly or indirectly to the heterocyclic ring by nonionic bonding
31.49 ..... Five-ring members in the heterocyclic ring
31.5 ..... Acyclic azo attached directly or indirectly to the heterocyclic ring by nonionic bonding
31.51 ..... The nitrogen is part of an acyclic azo group
31.52 ..... Plural acyclic azo group component containing
31.53 ..... Protein or derivative containing
31.54 ..... Gelatin, glue, or derivative containing
31.55 ..... Casein or derivative containing
31.56 ..... Seed or derivative thereof containing (e.g., nuts, beans, zein, grain, rice, corn, wheat, oats, gluten, soybean, etc.)
31.57 ..... Specified vehicle, solvent, or dispersing medium containing
31.58 ..... Organic oxygen compound containing
31.59 ..... Specified surfactant containing
31.6 ..... Pigment containing
31.61 ..... Hot, melt type, or wax containing
31.62 ..... Petroleum derivative containing (e.g., paraffin or microcrystalline wax, etc.)
31.63 ..... Natural wax containing (e.g., carnauba, montan, Japan, candelilla, etc.)
31.64 ..... Erasable, purified, correctable, fugitive, indicator, conductive, fluorescent, chromogenic, or magnetic composition

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31.65 .....Specified particle size or coated particle containing
31.66 .....Fat, fatty oil, fatty acid, or derivative thereof containing
31.67 .....Fatty acid or derivative containing
31.68 .....Carbohydrate or derivative containing
31.69 .....Cellulose or derivative containing
31.7 .....Carbohydrate gum containing
31.71 .....Starch containing
31.72 .....Natural resin or derivative containing
31.73 .....Rosin or derivative containing
31.74 .....Shellac or derivative containing
31.75 .....Organic nitrogen compound containing
31.76 .....The nitrogen is a ring member of a heterocyclic ring
31.77 .....Six-ring members in the heterocyclic ring
31.78 .....Five-ring members in the heterocyclic ring
31.79 .....Acyclic azo attached directly or indirectly to the heterocyclic ring by nonionic bonding
31.8 .....The nitrogen is part of an acyclic azo group
31.81 .....Plural acyclic azo group component containing
31.82 .....Protein or derivative containing
31.83 .....Gelatin, glue, or derivative containing
31.84 .....Casein or derivative containing
31.85 .....Specified vehicle, solvent, or dispersing medium containing
31.86 .....Organic oxygen compound containing
31.87 .....Organic sulfur compound containing
31.88 .....Hydrocarbon compound containing
31.89 .....Specified surfactant containing
31.9 .....The pigment is inorganic
31.91 .....Bituminous material or tarry residue containing
31.92 .....Electrically conductive or magnetic compositions (e.g., electrically sensitive, electrochemical, electrolytic, etc.)
31.93 .....Felt tip or correction composition
31.94 .....Carbohydrate, protein, or derivative containing
31.95 .....Glass, glass derivative, carbon, or free metal containing
31.96 .....Natural resin or derivative thereof containing
31.97 .....Organic nitrogen compound or organic sulfur compound containing
32.5 .....Erasable surface
33 .....Leak stopping
34 .....Stains
35 .....Dental
36 .....Tractive or friction surface
37 .....Sound recording
38 .....Shoe filling
38.2 .....Molds and mold coating compositions
38.22 .....Compositions for coating and lining molds
38.23 .....Carbohydrate or derivative containing
38.24 .....Fat, fatty oil, fatty oil acid or salt thereof containing
38.25 .....Wax, bituminous or resinous material or tarry residue containing
38.27 .....Inorganic materials only
38.28 .....Elemental carbon containing
38.3 .....Alkali metal silicate or inorganic settable ingredient containing
38.35 .....With organic material
38.4 .....Protein or derivative containing
38.51 .....Carbohydrate or derivative containing
38.52 .....Natural resin or derivative containing
38.7 .....Fat, fatty oil, fatty oil acid or salt thereof containing
38.8 .....Wax, bituminous material or tarry residue containing
38.9 .....Inorganic materials only
600 .....Alkali metal silicate containing
601 .....Pore forming or product thereof
...Perlite, slag, ash or ceramic material
...Organic material containing
...Process employing steam, electrical, magnetic or wave energy or product thereof or specified particle size or shape
...Hollow, foam, cellular or porous material containing
...Portland type cement containing
...Soil, diatomaceous earth or clay containing or material for treating soil or earth (e.g., soil stabilization, etc.)
...Organic material containing
...Carbohydrate containing
...Natural resin containing (e.g., rosin, shellac, turpentine, tall oil, etc.)
...Calcium sulfate containing
...Lime containing
...Organic material containing
...Protein containing
...Carbohydrate containing
...With other organic material containing
...Carbohydrate containing
...Cellulose
...Wood, paper, or paper pulp
...Higher fatty acid or ester, amide or salt thereof containing
...With other organic material or asbestos
...Wax, paraffin, oil shale, or bituminous material containing (e.g., asphalt, pitch, tar, etc.)
...Free metal or alloy containing
...Ash, slag, slag wool, rock wool, mineral wool, asbestos, or organic garbage or sewage material containing
...Asbestos containing
...Mica, elemental carbon, zeolite or talc containing
...Sulfur containing (e.g., alum, etc.)
...Boron containing
...Phosphorus containing
...Organic material containing

...Perlite, rock, stone, shale, slate, flint, granite, feldspar or limestone containing
...Clay containing
...Soil or diatomaceous earth containing, or material for treating soil or earth (e.g., soil stabilization, etc.)
...Organic material containing
...Zirconium, titanium, zinc, lead, iron, or tin compound containing (Zr, Ti, Zn, Pb, Fe, Sn)
...Particle size specified
...Fluorine containing
...For use underwater
...Free metal or alloy containing (e.g., dust, powder, etc.)
...Aluminum
...Organic material containing
...Iron or steel
...Fiber, bar or wire containing
...Protein containing (e.g., glue, gelatin, albumin, blood, etc.)
...Hollow, foam, cellular or porous material
...Soil, diatomaceous earth, clay, rock, stone, granite, flint, slate, shale, or material for treating soil or earth (e.g., soil stabilization, etc.)
...With organic material other than protein
...Cereal grain or derived therefrom or vegetable flour or meal (e.g., gluten, corn flour, rice, rye, etc.)
...Calcium sulfate containing
...With organic material other than protein
...Cereal grain or derived therefrom or vegetable flour or meal (e.g., gluten, corn flour, rice, rye, etc.)
...Carbohydrate
......Plant or vegetable fiber (e.g., wood, sawdust, etc.)
......Portland type cement, slag, talc, mica, asbestos, ash, or alum containing
......With organic material other than protein
......Carbohydrate
| 657 | Natural resin containing (e.g., shellac, turpentine, balsam, copal, etc.) |
| 658 | Calcium sulfate, aluminous or oxy salt type cement |
| 659 | Rosin or tall oil (e.g., colophony, etc.) |
| 660 | Wax containing (e.g., petroleum wax, beeswax, montan wax, carnauba wax, spermaceti, etc.) |
| 661 | Higher fatty acid or ester, amide or salt thereof containing (e.g., fish oil, vegetable oil, soap, etc.) |
| 662 | Soil, diatomaceous earth, shale, slate or clay containing, or material for treating soil or earth (e.g., soil stabilization, etc.) |
| 663 | Linseed oil or tallow containing |
| 664 | Portland type cement containing |
| 665 | With other organic material |
| 666 | Stearic acid or derivative |
| 667 | Lime containing |
| 668 | Bituminous material or tarry residue, pitch, or coal containing |
| 669 | Soil, diatomaceous earth, or clay containing, or material for treating soil or earth (e.g., soil stabilization, etc.) |
| 670 | Calcium sulfate containing |
| 671 | With other organic material |
| 672 | Hollow, foam, cellular or porous material containing or method of forming cellular or porous product |
| 673 | Peroxide or hypochlorite containing |
| 674 | Carbohydrate containing |
| 675 | Perlite or vermiculite containing (e.g., jeffersite, etc.) |
| 676 | Glass containing |
| 677 | Organic material containing |
| 678 | Organic sulfur or organic phosphorus |
| 679 | Slag, cinder or ash containing |
| 680 | Calcium sulfate containing (e.g., anhydrite, plaster of Paris, gypsum, etc.) |
| 681 | Soil, diatomaceous earth, clay, shale, slate or rock material containing or material for treating soil or earth (e.g., soil stabilization, etc.) |
| 682 | Physical introduction of gas (e.g., by mixing, agitation, injection, whipping, etc.) |
| 683 | Oxy salt type cement |
| 684 | Soil, diatomaceous earth, clay, slate or shale containing or material for treating soil or earth (e.g., soil stabilization, etc.) |
| 685 | Magnesium oxy-chloride (e.g., Sorel cement, etc.) |
| 686 | Organic material containing |
| 687 | Carbohydrate (e.g., cellulose, etc.) |
| 688 | Specified filler, dye or pigment (e.g., silica, feldspar, carbon, talc, asbestos, slag, mineral wool, etc.) |
| 689 | Organic material or specified filler |
| 690 | Phosphate based cement |
| 691 | Specified filler or organic material containing |
| 692 | Aluminous cement (e.g., high alumina, calcium aluminate, etc.) |
| 693 | Cement clinker preparation |
| 694 | Soil, diatomaceous earth, clay, shale, slate, or rock-type material containing or material for treating soil or earth (e.g., soil stabilization, etc.) |
| 695 | With other cement material (e.g., portland, calcium sulfate, etc.) |
| 696 | Organic material containing |
| 697 | Organic garbage, refuse sewage, or waste material containing or treating (other than sulfite waste liquor) |
| 698 | Perlite containing |
| 699 | Asbestos containing (e.g., amosite, chrysotile, etc.) |
| 700 | Slag, ash or organic material containing |
| 701 | Calcium sulfate containing (e.g., gypsum, plaster of Paris, anhydrite, etc.) |
702 ...Soil, diatomaceous earth, clay, slate, shale or rock containing or material for treating soil or earth (e.g., soil stabilization, etc.)
703 ...Portland type cement
704 ...Lime containing
705 ...Ash containing (e.g., fly ash, volcanic ash, coal ash, etc.)
706 ...Soil, diatomaceous earth, clay, shale, slate or rock containing or material for treating soil or earth (e.g., soil stabilization, etc.)
707 ...With slag, coke, cinder, stack dust, kiln dust or flue dust
708 ...Organic material containing
709 ...Portland type cement
710 ...With additional lime
711 ...Mineral fibers or glass fibers containing (e.g., slag wool, cotton wool, mineral wool, rock wool, etc.)
712 ...Color additive (other than whitener)
713 ...Portland type cement
714 ...Slag containing (e.g., blast furnace slag, etc.)
715 ...Calcium sulfate specified (e.g., gypsum, anhydrite, plaster of Paris, etc.)
716 ...With mica, talc, cinder, glass, vermiculite, coke breeze or kiln dust
717 ...Boron, elemental carbon or phosphorus containing
718 ...Soil, diatomaceous earth, clay, slate or shale containing, or material for treating soil or earth (e.g., soil stabilization, etc.)
719 ...Organic material containing
720 .....Carbohydrate
721 .....Silica or lime added
722 .....Calcium sulfate specified (e.g., gypsum, anhydrite, plaster of Paris, etc.)
723 .....Process involving steam, electrical, magnetic or wave energy, vibration or vacuum or product thereof
724 ...Organic material containing
725 .....Organic sulfur compound
726 .....Cellulose or silica containing (e.g., sand, etc.)
727 .....Organic nitrogen compound
728 .....Carboxylic acid, ester or salt thereof
729 .....Carbohydrate
730 .....Starch, dextran, cellulose ether or gum
731 .....Plant material (e.g., vegetable fiber, wood, etc.)
732 .....Calcium sulfate specified (e.g., gypsum, anhydrite, plaster of Paris, etc.)
733 .....Titanium, vanadium, chromium, molybdenum, tungsten, manganese, iron, copper, zinc, tin or lead compound containing (Ti, V, Cr, Mo, W, Mn, Fe, Cu, Zn, Sn, Pb)
734 .....Halogen containing (F, Cl, Br, I)
735 .....Calcium sulfate specified (e.g., gypsum, anhydrite, plaster of Paris, etc.)
736 .....Sulfur containing (e.g., alum, etc.)
737 .....Silica containing (e.g., sand, quartz, etc.)
738 .....Rock, gravel, stone or carbonate containing (e.g., limestone, dolomite, etc.)
739 .....Portland type cement per se (e.g., clinker preparation, etc.)
740 .....Process involving spray drying, atomizing of solid material, steam, nonatmospheric pressure, cleaning step or avoiding contamination of equipment
741 .....Color control or modification (e.g., steps to produce white cement, etc.)
742 .....Cooling in reducing atmosphere
743 .....Control of a parameter of operation in response to a measurement or test or to vary a result in a process
744 .....Employment of a fluidized bed
745 .....Waste material employed as raw material or fuel (not kiln dust)
746 .....Electrical, magnetic or wave energy employed (e.g., electric arc, etc.)
Use of heat transmitting or conducting solid material for cooling solid material from gas or for modifying temperature of solid material

Aftertreatment of clinker

Specified cooling (e.g., recycling heated coolant, etc.)

Involving kiln dust (e.g., recovery, treatment, processing thereof or product, etc.)

Treatment or removal of alkali, sulfurous or chloride impurities from raw material or fuel

Agglomerate, pellet, molded or shaped form of raw material

Sheet, film, layered, brick, briquette, block, fiber, strand, cake or egg shape

Fuel containing

Classifying, sorting, separating, screening, sizing, grading or subdividing solid material (e.g., centrifugal separation, flotation, etc.)

Comminuting or grinding, other than nominal, of raw material or fuel (e.g., to desired size or relative sizes, etc.) or recited particle of specified size

Raw material and fuel premixed or specified fuel

Flow of gases to produce turbulence (e.g., spiral, helical, venturi, centrifugal, etc.)

Shape, angle, intensity or condition of fuel or flame specified (e.g., jet, oscillating, plural streams, spray, temperature, etc.)

Recycling exhaust gas, reusing heat from process, or purifying exhaust gas

Processing of exhaust gas prior to recycling (e.g., purifying, separating constituents, etc.)

Ash containing raw material

Organic material or sea shell containing raw material

Calcium sulfate containing raw material

Phosphorus, boron, chromium, molybdenum, vanadium, or nickel containing raw material (P, B, Cr, Mo, V, Ni)

Slag containing raw material

Potassium, halogen or sulfur containing raw material (K, F, Cl, Br, I, S)

Iron or manganese containing raw material (Fe, Mn)

Slurry employed

Preprocessing or processing of raw material before firing (e.g., preheating, etc.)

Calcium sulfate (e.g., gypsum, anhydrite, plaster of Paris, etc.)

Soil, diatomaceous earth, clay, slate or shale containing, or material for treating soil or earth (e.g., soil stabilization, etc.)

Organic material containing

Anhydrous calcium sulfate (e.g., anhydrite, etc.)

Organic material or slag containing

Keene’s cement

With organic material

Carbohydrate

Cellulose (e.g., wood, cork, bark, etc.)

Silicon, sulfur, nitrogen or phosphorus containing organic material

Slag, cinder, mica, talc, glass, boron or elemental carbon containing

Layered or coated material, nominal molding or shaping, or other physical process (e.g., steam, electrical, magnetic or wave energy, manipulative steps, etc.)

Particle size specified

Stabilizer, retarder, or setting agent specified

Byproduct gypsum (e.g., phosphogypsum, etc.)

Alum or halogen containing

Silica containing (e.g., sand, quartz, etc.)

Slag
...Organic material, soil, diatomaceous earth, clay, slate, shale, or rock type material containing or material for treating soil or earth (e.g., soil stabilization, etc.)

Lime containing

Soil, diatomaceous earth, clay, slate or shale containing, or material for treating soil or earth (e.g., soil stabilization, etc.)

Organic material or halogen containing

Organic material containing

Silica-lime mixtures

Fiber containing or step of molding or shaping of material

Iron, sulfur or aluminum containing (e.g., alum, etc.)

Aluminum or sulfur containing (e.g., alum, etc.)

Magnesium compound containing (e.g., quicklime, dolomite, talc, etc.)

Magnesium compound (e.g., vermiculite, talc, soapstone, dolomite, etc.)

Organic material containing

Soil, diatomaceous earth, clay, slate or shale containing, or material for treating soil or earth (e.g., soil stabilization, etc.)

Carbohydrate containing

Cellulose or plant material

Organic silicon, organic boron or organic phosphorus

Mineral oil or hydrocarbon oil

Organic nitrogen

Organic sulfur

Organic acid or derivative

Soil, diatomaceous earth, clay, slate or shale containing, or material for treating soil or earth (e.g., soil stabilization, etc.)

With added silica (e.g., sand, etc.)

Synthetic zeolite or so-called mineral polymer containing

Mica, cinder, glass or elemental carbon containing

Boron, sulfur, or halogen containing (e.g., alum, etc.)

Particle size specified

Rock, stone, gravel, trass, shell or carbonate containing (e.g., limestone, etc.)

Process involving a temperature of zero degrees C or below

Pore forming

Cellulose liberation waste liquor, solid, or reaction product thereof containing (e.g., black liquor, sulfite yeast liquor, neutralized sulfite liquor, etc.)

With proteinaceous material or carbohydrate from an external source

With bituminous or tarry residue, naturally occurring wax, or organic compound containing oxygen

Proteinaceous material containing

Milk

Chemically modified tissue derived from multicellular animal of indeterminate structure (e.g., hydrolyzed, etc.)

Tissue derived from multicellular animal (e.g., connective tissue, muscle, organ, tendon, etc.)

Blood or blood plasma

With carbohydrate from an external source

Hide

With carbohydrate from an external source

With natural resin or derivative, lanolin, lecithin, fat, or fatty oil

Feather, scale, horn, hoof, claw, ivory, or bone

Hair or fur

With carbohydrate from an external source

With natural resin or derivative, lanolin, lecithin, fat, or fatty oil

With bituminous or tarry residue, hydrocarbon, or naturally occurring wax
125.1 Seed or tuber material (e.g., whole grains, rice flour, wheat flour, cornmeal, etc.)
126.1 With carbohydrate from an external source
126.2 Lignocellulose material (e.g., flock, sawdust, wood, etc.)
126.3 Carbohydrate gum or cellulosic material
127.1 With nonproteinaceous heterocyclic compound
128.1 With nonproteinaceous phosphorus or boron compound or organic compound containing silicon
129.1 With natural resin or derivative
130.1 With terpene or derivative (e.g., pine oil, clove oil, spirits of turpentine, etc.)
131.1 With nonproteinaceous organic compound containing sulfur or nitrogen
132.1 With nonproteinaceous organic compound containing oxygen except wax
132.2 The oxygen is part of a -C(=O)O- group
133.1 With bituminous or tarry residue, hydrocarbon, or naturally occurring wax
134.1 With element or inorganic compound except water
134.2 Elemental silicon or inorganic silicon compound
135.1 With carbohydrate or derivative
136.1 Cellulosic material
137.1 Lignocellulosic material (e.g., flock, sawdust, wood, etc.)
137.2 Cork or peat
137.3 With nonproteinaceous noncarbohydrate heterocyclic compound
137.4 With nonproteinaceous phosphorus or boron compound or organic compound containing silicon
137.5 With natural resin or derivative
137.6 With nonproteinaceous organic compound containing sulfur or nitrogen
137.7 With nonproteinaceous organic compound containing oxygen except wax
137.71 The oxygen is part of a -C(=O)O- group
138.1 Cellulose xanthate or viscose, or cuprammonium cellulose
139.1 Cellulose ester or salt thereof
139.2 With nonproteinaceous organic compound containing sulfur or nitrogen
139.3 With nonproteinaceous organic compound containing oxygen except wax
140.1 Cellulose ether or salt thereof
140.2 With natural resin or derivative
140.3 With nonproteinaceous organic compound containing oxygen except wax
141.1 With nonproteinaceous noncarbohydrate heterocyclic compound
142.1 With nonproteinaceous organic compound containing sulfur or nitrogen
143.1 With nonproteinaceous organic compound containing oxygen except wax
144.1 Dextrin or derivative, carbohydrate gum or derivative (e.g., arabic, tragacanth, guar, karaya, agar agar, algir, irish moss, etc.)
144.2 With nonproteinaceous phosphorus or boron compound or organic compound containing silicon
144.3 With natural resin or derivative
144.4 With lanolin, fat, or fatty oil
144.5 With terpene or derivative
144.6 With nonproteinaceous organic compound containing sulfur or nitrogen
144.7 With nonproteinaceous organic compound containing oxygen except wax
144.71 The oxygen is part of a -C(=O)O- group
144.72 Dihydric or polyhydric alcohol
145.1 ...Starch or derivative
145.2 ....With natural resin or derivative
145.3 ....With lanolin, lecithin, fat, or fatty oil
145.4 ....With nonproteinaceous organic compound containing sulfur or nitrogen
145.5 ....With nonproteinaceous organic compound containing oxygen except wax
146.1 ...Sugar or hydrogenated sugar (e.g., sorbitol, maltitol, xylitol, etc.)
146.2 ....With natural resin or derivative
146.3 ....With lanolin, lecithin, fat, or fatty oil
146.4 ....With nonproteinaceous organic compound containing sulfur or nitrogen
146.5 ....With nonproteinaceous organic compound containing oxygen except wax
146.51 .....The oxygen is part of a -C(=O)O- group
146.6 ...Sugar or hydrogenated sugar (e.g., sorbitol, maltitol, xylitol, etc.)
147.1 ...With natural resin or derivative
147.2 ...With nonproteinaceous phosphorus or boron compound or organic compound containing silicon
147.3 ...With lanolin, fat, or fatty oil
147.4 ...With terpene or derivative
147.5 ...With nonproteinaceous organic compound containing sulfur or nitrogen
147.6 ...With nonproteinaceous organic compound containing oxygen except wax
147.61 .....The oxygen is part of a -C(=O)O- group
148.1 ...With lanolin, lecithin, fat, or fatty oil
148.2 ...With nonproteinaceous phosphorus or boron compound or organic compound containing silicon
148.3 ...With terpene or derivative
148.4 ...With nonproteinaceous organic compound containing sulfur or nitrogen
148.5 ...With nonproteinaceous organic compound containing oxygen except wax
148.51 .....The oxygen is part of a -C(=O)O- group
148.52 .....Dihydric or polyhydric alcohol
149.1 ...With terpene or derivative
150.1 ...With nonproteinaceous heterocyclic compound
150.2 ...With nonproteinaceous organic compound containing sulfur or nitrogen
150.3 ...With nonproteinaceous organic compound containing oxygen except wax
150.51 ...Dihydric or polyhydric alcohol
151.1 ...With nonproteinaceous phosphorus compound
151.2 ...With nonproteinaceous organic compound containing oxygen
151.21 ...Dihydric or polyhydric alcohol
152.1 ...With nonproteinaceous boron compound
152.2 ...With nonproteinaceous organic compound containing oxygen
152.21 ...Dihydric or polyhydric alcohol
152.22 ...Metal salt
152.23 ...Metal salt of higher fatty acid
153.1 ...With organic compound containing silicon
154.11 ...With nonproteinaceous organic compound containing sulfur
154.2 ...Carbon double bonded directly to the sulfur
154.3 ...Nitrogen and sulfur in the same compound
154.4 ...Sulfonated compound of indeterminate structure
155.1 ...With nonproteinaceous organic compound containing nitrogen
155.2 ...Nitrogen and oxygen in the same compound
155.21 ...Nitrogen single bonded directly to carbon of a -C(=O)- group
155.22 ...Alkanol amine or salt thereof
155.23 ...Tertiary amine oxide
156.1 ...With nonproteinaceous organic compound containing oxygen except wax
156.2 ...The oxygen is part of a -C(=O)- group
156.21 ...Carbon bonded directly to the single bonded oxygen of the -C(=O)- group
156.22 ...Plural -C(=O)- groups
156.23 ...Metal salt
156.24 ...Metal salt of higher fatty acid
156.25 ....With additional nonproteinaceous organic compound containing oxygen
156.3 ...Carbonyl group containing oxygen
156.31 ....With additional nonproteinaceous organic compound containing oxygen
156.4 ...Ether except dialkylene or polyalkylene glycol
156.5 ...Dihydric or polyhydric alcohol
156.51 ....Glycerol
156.7 ...Mineral acid (e.g., sulfuric, nitric, etc.)
156.71 ....Ammonium hydroxide (i.e., ammonium hydrate, aqua ammonia, ammonia solution) or ammonia
156.72 ...Alkali or alkaline earth metal hydroxide (e.g., caustic soda, caustic alkali, caustic lime, etc.)
156.8 ...Aminopolysaccharide (e.g., heparin, glycosamine, mucopolysaccharide, chitin, hyaluronic acid, etc.)
156.9 ...With lignocellulosic material (i.e., mixture of a lignocellulosic material and a carbohydrate material which is other than a lignocellulosic material or a component thereof)
156.10 .Carbohydrate or derivative containing...
162.9 With cellulosic material (i.e., mixture of a cellulosic material and a carbohydrate material which is other than a cellulosic material)

163.01 Cellulosic material

164.01 Lignocellulosic material (e.g., wood, bark, straw, bagasse, wood pulp, etc.)

164.1 Cork

164.11 With fat, fatty oil, higher fatty acid or derivative

164.12 With bituminous or tarry residue

164.2 Peat

164.3 With organic compound containing nitrogen

164.4 With organic compound containing chalcogen

164.41 Natural resin or derivative

164.42 With hydrocarbon (e.g., petroleum fraction, paraffin, olefin, acetylene, etc.)

164.43 With fat, fatty oil, higher fatty acid or derivative

164.44 Fat, fatty oil, higher fatty acid or derivative

164.5 With element or inorganic compound except water

164.51 Elemental silicon or inorganic silicon compound

164.52 Asbestos

164.53 Elemental sulfur or inorganic sulfur compound

164.6 With bituminous or tarry residue

165.01 Chemically modified lignocellulosic material of indeterminate structure (e.g., hydrolyzed, etherified, etc.)

166.01 Cellulose xanthate or viscose

166.1 With organic compound containing silicon

166.2 With phosphorus compound

166.3 With organic compound containing sulfur

166.31 Carbon double bonded directly to the sulfur

166.4 With organic compound containing nitrogen

166.41 The nitrogen is a member of a hetero ring

166.42 Oxygen and nitrogen in the same compound (e.g., ammonium alkyl sulfonate, tertiary amine oxide, triethanolamine, etc.)

166.43 The oxygen is part of a -C(=O)- group (e.g., amide, urea, etc.)

166.5 With organic compound containing oxygen

166.51 Natural resin or organic -C(=O)O- compound (e.g., rosin, tall oil, tallow, castor oil, carboxylic acid, etc.)

166.52 Dihydric or polyhydric alcohol or ether derivative thereof

166.6 With organic compound containing halogen

166.7 With bituminous or tarry residue or hydrocarbon (e.g., petroleum fraction, paraffin, olefin, acetylene, etc.)

166.8 With element or inorganic compound except water

166.81 Elemental titanium or inorganic titanium compound

166.82 Elemental silicon or inorganic silicon compound

167.01 Cuprammonium cellulose

168.01 Cellulose ester or salt thereof

169.01 Cellulose nitrate

169.1 With nitrogen hetero ring compound (e.g., succinimide, caprolactam, piperazine, etc.)

169.11 The hetero ring is part of a polycyclo ring system (e.g., guanine, phthalimide, etc.)

169.12 With chalcogen hetero ring compound (e.g., lactone, maleic anhydride, furan, etc.)

169.13 Plural oxygens in the hetero ring (e.g., dioxane, dioxene, etc.)

169.14 With phosphorus compound

169.15 Trialkyl or triaryl phosphate or mixed esters thereof (e.g., tributyl phosphate, triphenyl phosphate, dicresyl lauryl ortho phosphate, etc.)

169.16 With boron compound

169.17 With organic compound containing silicon
169.18 ......With natural resin or derivative
169.19 ......Chemically modified natural resin of indeterminate structure (e.g., oxidized, polymerized, hydrogenized, esterified, etc.)
169.2 ......With additional diverse natural resin or derivative
169.21 ......With naturally occurring wax (e.g., mineral, ceresin, etc.)
169.22 ......With fatty oil or derivative (e.g., coconut, cottonseed, soybean, fish, sperm oil, etc.)
169.23 ......With carboxylic acid, ester, or salt thereof
169.24 ......With organic compound containing oxygen
169.25 ......With chemically modified lanolin, fat, or fatt oil (e.g., blown, polymerized, hydrogenized, esterified, etc.)
169.26 ......With lanolin, fat, or fatty oil, (e.g., lard, tallow, castor oil, linseed oil, etc.)
169.27 ......With organic compound containing oxygen
169.28 ......With terpene or derivative (e.g., pine oil, terpineol, borneol, etc.)
169.29 ......Camphor
169.3 ......With carboxylic acid, ester, or salt thereof
169.31 ......With organic compound containing nitrogen, halogen, or chalcogen
169.32 ......With compound of indeterminate structure prepared by reacting an organic -C(=O)- compound
169.33 ......With organic -C(=O)O- group containing compound except wax (e.g., fatty acid, dicarboxylic acid, etc.)
169.34 ......Carbon bonded directly to the single bonded oxygen of the -C(=O)- group (e.g., fatty acid ester, acid anhydride, etc.)
169.35 ......Plural -C(=O)O- groups attached directly or indirectly to each other by nonionic bonding
169.36 ......Carbocyclic ring attached directly or indirectly to the -C(=O)- groups
169.37 ......Exactly two -C(=O)O- groups attached directly to the carbocyclic ring by nonionic bonding
169.38 ......Oxygen, other than in -C(=O)O- group, attached indirectly to the -C(=O)O- groups by nonionic bonding
169.39 ......Esterified dihydric or polyhydric alcohol
169.4 ......Nitrogen or oxygen bonded directly to the carbon of the -C(=O)O- group (e.g., diethyl carbonate, dodecyl phenylcarbamate, octyl carbanilate, urethane, etc.)
169.41 ......Oxygen attached indirectly to the -C(=O)O- group by nonionic bonding
169.42 ......Benzene ring attached directly or indirectly to the -C(=O)O- group by nonionic bonding
169.43 ......With organic compound containing oxygen (e.g., alcohol, ketone, additional carboxylic acid esters, etc.)
169.44 ......Metal or nitrogen salt
169.45 ......With organic compound containing sulfur
169.46 ......With organic compound containing nitrogen
169.47 ......The nitrogen is single bonded directly to the carbon of a -C(=O)- group
169.48 ......With organic -C(=O)- group containing compound (e.g., aldehyde, ketone, etc.)
169.49 ......With ether except dialkylene or polyalkylene glycol
169.5 ......With organic -C(-OH)- group containing compound, where the H of the -OH group can be replaced by a metal (e.g., alkanol, phenol, polyol, phenolate, etc.)
169.51 ......With organic -C(-OH)- group containing compound, where the H of the -OH group can be replaced by a metal (e.g., alkanol, phenol, polyol, alkanolate, dialkylene glycol, etc.)
169.52 ...... Halogen containing or with organic halogen compound
169.53 ...... With organic compound containing halogen
169.54 ...... With bituminous or tarry residue, hydrocarbon, or naturally occurring wax
169.55 ...... With elemental silicon or inorganic silicon compound
169.56 ...... With elemental metal or alloy or metal compound
169.57 ...... With elemental carbon (e.g., graphite, coal, etc.)
170.1 ....... With nitrogen hetero ring compound
170.11 ...... Chalcogen hetero atom
170.12 ...... With chalcogen hetero ring compound
170.13 ...... Three-membered hetero ring (e.g., epichlorohydrin, epoxide, etc.)
170.14 ...... Plural chalcogens in the hetero ring
170.15 ...... With phosphorus compound
170.16 ...... Trialkyl or triaryl phosphate or mixed esters thereof (e.g., tributyl phosphate, triphenyl phosphate, di cresyl laur yl ortho phosphate, etc.)
170.17 ...... With organic compound containing nitrogen
170.18 ...... With carboxylic acid, ester, or salt thereof
170.19 ...... With boron compound
170.2 ...... With organic compound containing silicon
170.21 ...... With natural resin or derivative
170.22 ...... With chemically modified lanolin, fat, or fatty oil (e.g., blown, polymerized, hydrogenized, esterified, etc.)
170.23 ...... With lanolin, fat, or fatty oil (e.g., lard, tallow, castor oil, linseed oil, etc.)
170.24 ...... With organic compound containing oxygen
170.25 ...... With terpene or derivative (e.g., camphor, pine oil, terpineol, borneol, etc.)
170.26 ...... With organic \(-\text{C}(=\text{O})\text{O}\)- group containing compound except wax (e.g., fatty acid, dicarboxylic acid, etc.)
170.27 ...... Carbon bonded directly to the single bonded oxygen of the \(-\text{C}(=\text{O})\text{O}\)- group (e.g., fatty acid ester, acid anhydride, etc.)
170.28 ...... Nitrogen, halogen, or chalcogen bonded directly to the carbon of the \(-\text{C}(=\text{O})\text{O}\)- group (e.g., alkylchloro carbonate, diethyl carbonate, octyl carbanilate, decyl phenylcarbamate, urethane, etc.)
170.29 ...... Plural \(-\text{C}(=\text{O})\text{O}\)- groups attached directly or indirectly to each other by nonionic bonding
170.3 ...... Benzene ring attached directly or indirectly to the \(-\text{C}(=\text{O})\text{O}\)- groups by nonionic bonding
170.31 ...... Exactly two \(-\text{C}(=\text{O})\text{O}\)- groups attached directly to the same benzene ring by nonionic bonding
170.32 ...... With organic compound containing oxygen (e.g., alcohol, ketone, additional carboxylic acid ester, etc.)
170.33 ...... Cycloaliphatic ring attached directly or indirectly to the \(-\text{C}(=\text{O})\text{O}\)- groups by nonionic bonding
170.34 ...... Esterified dihydric or polyhydric alcohol
170.35 ...... The polyhydric alcohol is glycerol (e.g., triacetin, tripropionin, glyceryl dipropionate, glyceryl dipropionate monoacetate, etc.)
170.36 ...... Nitrogen, sulfur, halogen, or oxygen other than in \(-\text{C}(=\text{O})\text{O}\)- group attached indirectly to the \(-\text{C}(=\text{O})\text{O}\)- groups by nonionic bonding
170.37 ...... Nitrogen attached indirectly to the \(-\text{C}(=\text{O})\text{O}\)- group by nonionic bonding
170.38 ...... Oxygen attached indirectly to the \(-\text{C}(=\text{O})\text{O}\)- group by nonionic bonding
170.39 ......Benzene ring attached directly or indirectly to the -C(=O)= group by nonionic bonding

170.4 .......With organic compound containing oxygen (e.g., alcohol, ketone, additional carboxylic acid ester, etc.)

170.41 .......Metal or nitrogen salt

170.42 .......With organic compound containing nitrogen

170.43 .......Chalcogen and nitrogen in the same compound

170.44 .......The nitrogen is single bonded directly to carbon of a -C(X)= group (X is chalcogen)

170.45 .......The nitrogen is single bonded directly to sulfur of a -S(=O)=O= group (i.e., sulfonamide)

170.46 .......With organic compound containing sulfur

170.47 .......With organic -C(=O)= group containing compound (e.g., aldehyde, ketone, etc.)

170.48 .......Carbocyclic ring containing

170.49 .......With organic -C(-OH)= group containing compound, where the H of the -OH group can be replaced by a metal (e.g., alkanol, phenol, polyl, phenylol, etc.)

170.5 .......With ether except dialkylene or polyalkylene glycol

170.51 .......With organic -C(-OH)= group containing compound, where the H of the -OH group can be replaced by a metal (e.g., alkanolate, alkanol, polyl, dialkylene glycol, etc.)

170.52 .......Carbocyclic ring containing

170.53 .......With organic compound containing halogen

170.54 .......Three or more halogens containing or with additional organic compound containing halogen

170.55 .......With organic compound containing halogen

170.56 .......With bituminous or tarry residue, hydrocarbon, or naturally occurring wax

170.57 .......With elemental silicon or inorganic silicon compound

170.58 .......With elemental metal or alloy or metal compound

171.1 .......Cellulose acetate

172.1 .......Cellulose ether or salt thereof

173.01 .......With nitrogen hetero ring compound

174.1 .......With chalcogen hetero ring compound

174.2 .......The chalcogen in the ring is sulfur

175.1 .......With phosphorus compound

176.1 .......With boron compound

177.1 .......With organic compound containing silicon

178.1 .......With natural resin or derivative

179.1 .......With lanolin, fat, or fatty oil or derivative thereof (e.g., lard, tallow, castor oil, linseed oil, etc.)

180.1 .......With terpene or derivative (e.g., camphor, pine oil, terpineol, borneol, etc.)

181.1 .......With organic -C(=O)O= group containing compound except wax (e.g., fatty acid, dicarboxylic acid, etc.)

182.1 .......Carbon bonded directly to the single bonded oxygen of the -C(=O)O= group (e.g., fatty acid ester, acid anhydride, etc.)

183.1 .......Nitrogen or chalcogen bonded directly to the carbon of the -C(=O)O= group (e.g., diethyl carbonate, dodecyl phenylcarbamate, octyl carbamate, urethane, etc.)

184.1 .......Plural -C(=O)O= groups attached directly or indirectly to each other by nonionic bonding

184.2 .......Exactly two -C(=O)O= groups attached directly to the same benzene ring by nonionic bonding

184.3 .......Esterified dihydric or polyhydric alcohol

185.1 .......Nitrogen attached indirectly to the -C(=O)O= group by nonionic bonding

186.1 .......Oxygen attached indirectly to the -C(=O)O= group by nonionic bonding
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207.2 ....With hetero ring compound except carbohydrate
207.3 ....With phosphorus compound or boron compound or organic compound containing silicon
207.4 ....With organic compound containing sulfur or nitrogen
207.5 ....With organic compound containing oxygen except wax
208.1 ...Oxidized starch
208.2 ....With hetero ring compound except carbohydrate
208.3 ....With phosphorus compound or boron compound or organic compound containing silicon
208.4 ....With organic compound containing sulfur or nitrogen
208.5 ....With organic compound containing oxygen except wax
209.1 ...With hetero ring compound except carbohydrate
210.1 ...With phosphorus compound
211.1 ...With boron compound
212.1 ...With organic compound containing silicon
213.1 ...With organic compound containing sulfur
214.1 ...With organic compound containing nitrogen
214.2 ....Nitrogen and oxygen in the same compound
215.1 ...With organic compound containing oxygen except wax
215.2 ....The oxygen is part of a -C(=O)O- group
215.3 ....Carbon bonded directly to the single bonded oxygen of the -C(=O)O- group
215.4 ......Plural -C(=O)O- groups
215.5 ....Dihydric or polyhydric alcohol
216.1 ...With bituminous or tarry residue, hydrocarbon, or naturally occurring wax
217.1 ....Elemental halogen or halogen containing
217.2 ....Alkali or alkaline earth metal hydroxide (e.g., caustic soda, caustic alkali, caustic lime, etc.)
217.3 ....Elemental silicon or silicon containing
217.4 ...With natural resin or derivative
217.5 ...With hetero ring compound except carbohydrate
217.6 ...With organic compound containing nitrogen
217.7 ...With organic compound containing oxygen except wax
217.8 ...With bituminous or tarry residue, hydrocarbon, or naturally occurring wax
217.9 ...With element or inorganic compound except water
218 ...Natural resin or derivative containing
219 ...With fat, fatty oil, fatty oil acid or salt thereof
220 ...Fatty oil
221 ....Two or more kinds of fatty oil
222 ...Drying oil
223 ...With sulfurizing or sulfonating agent
224 ...With wax
225 ...With bituminous material or tarry residue
226 ...With terpene or derivative
227 ...With hydrocarbon
228 ...With filler, dye or pigment
229 ...With wax, bituminous material or tarry residue
230 ...With wax
231 ...Ester type wax
232 ...With bituminous material or tarry residue
233 ...With sulfurizing or sulfonating agent
234 ...With hydrocarbon
235 ...With filler, dye or pigment
236 ...With solvent or dispersing medium
237 ...Alcohol containing
238 ...Water containing
239 ...Hydrocarbon containing
240 ...With flux
241 ...With filler, dye or pigment
242 ...Fibrous
243 ...Fat, fatty oil, fatty oil acid or salt thereof containing
244 ...Fatty oil
245 ...With wax
246 ...With bituminous material or tarry residue
247 ...With sulfurizing or sulfonating agent
248 ...With filler, dye or pigment
249 ...With sulfurizing or sulfonating agent
250 ...Two or more kinds of oil
251 ...With filler, dye or pigment
252 ...Drying oil
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275 ...With filler, dye or pigment
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280 ...With filler, dye or pigment
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284.3 ..Metal containing
284.4 ..Nitrogen containing
285 .Hydrocarbon containing
286.1 .Inorganic materials only containing at least one metal atom
286.2 ..Containing two or more diverse metal atoms in a single compound
286.3 ..Fe or Co containing
286.4 ..Group IV metal atom (Ti, Zr, Hf, Ge, Sn, or Pb) containing
286.5 ..Aluminum containing
286.6 ..Group II metal atom (Be, Mg, Sr, Ca, Ba, Ra, Zn, Cd, or Hg) containing
286.7 ..Group I metal atom (Li, Na, K, Rb, Cs, Fr, Cu, Ag, or Au) containing
286.8 .Inorganic materials only
287.1 .Silicon containing other than solely as silicon dioxide or as part of an aluminum-containing compound
287.11 ..N-containing Si compound
287.12 ...-OH bonded directly to Si atom
287.13 ..C bonded directly to Si atom
287.14 ...H or alkyl directly bonded to Si
287.15 ...C radical bonded to Si is unsaturated
287.16 ..Si-O-C bonded compound
287.17 .Aluminum compound containing
287.18 .Heavy metal compound containing
287.19 ..Group IVA or IVB (Ti, Zr, Hf, Ge, Sn, Pb)
287.2 .Heterocyclic (only N, O, S, Se, Te)
287.21 ..Two hetero ring atoms
287.22 ..Epoxy ring containing
287.23 ..O-containing organic compound
287.24 ..Carbonyl group containing
287.25 ...N containing
287.26 ..Hydroxy group containing or alcoholate
287.27 .Halogen containing
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**MATERIALS OR INGREDIENTS**

400. Pigment, filler, or aggregate compositions, e.g., stone, shale, pebbles, rock, etc.

401. Composition contains identified material other than water

402. Lake containing

403. Elemental metal or alloy containing

404. Aluminum containing

405. Fly ash, coal ash, or bottom ash or derived therefrom

406. Cork, bark, vegetable shell, hull or cob or material derived therefrom

407. Organic refuse or waste material containing or derived therefrom

408. Alkali blue pigment containing

409. Hollow, porous or foam particle containing

410. Phthalocyanine or derivative containing

411. Mixed phthalocyanines or derivatives

412. Special process of milling, grinding, comminuting, plural stage or zone mixing or product

413. With organic compound

414. Ultramarines, e.g., ultramarine green, etc.

415. Mica, shell, scale, platelet, or lamellate

416. Clay containing or derived therefrom

417. Mica containing

418. Iron or bismuth compound containing (Fe or Bi)

419. Zinc compound containing (Zn)

420. Zinc sulfide containing

421. Lithopone (zinc sulfide + barium sulfate)

422. Metal compound other than barium or zinc containing

423. Subsequent treatment or product thereof

424. Calcium compound containing

425. Zinc oxide containing

426. Aluminum compound or silicon containing, e.g., clay, etc.

427. Sulfur or phosphorus containing

428. Titanium compound containing

429. Organic material containing

430. Titanium compound containing

431. Silicon or aluminum compound containing

432. Lead compound containing, e.g., litharge, etc. (Pb)

433. Lead chromate containing, e.g., molybdate orange, chrome yellow, etc.

434. Silicon containing

435. Silicon containing

436. Titanium compound containing (Ti)

437. Oxidation of titanium tetrahalide or product

438. Zirconium compound containing (Zr)

439. Iron, tungsten, molybdenum, or cerium compound containing (Fe, W, Mo, Ce)

440. Nickel, cobalt, copper, or cadmium compound containing (Ni, Co, Cu, Cd)

441. Antimony, chromium, arsenic, or tin compound containing (Sb, Cr, As, Sn)

442. Aluminum compound or silicon containing

443. Phosphorus containing

444. Alkali or alkaline earth metal containing

445. Organic material containing

446. Silicon containing

447. Organic material containing

448. Organic nitrogen containing material

449. Alkali or alkaline earth metal containing

450. Zirconium compound containing (Zr)

451. Vanadium or praseodymium containing (V, Pr)

452. Cadmium compound containing (Cd)

453. Chromium compound containing (Cr)

454. Silicon containing

455. Antimony containing (Sb)

456. Iron compound containing (Fe)

457. Silicon containing, e.g., slag, turkey umber, fuller's earth, etc.

458. Compound containing carbon triple bonded to nitrogen, e.g., Prussian blue, iron blue, etc.
With other metal compound

Organic material containing

Alkaline earth metal compound containing, other than glass, e.g., ettringite, gypsum, barium sulfate, anhydrite, etc.

Phosphorus or boron containing

Carbonate containing

Calcium containing, e.g., calcite, dolomite, chalk, whitening, etc.

Organic material or silicon containing

Soil or inorganic silicon compound containing, e.g., granite, chrysotile, asbestos, etc.

Aluminum compound containing, e.g., zeolites, perlite, etc.

Clay or material derived from clay containing, e.g., bentonite, montmorillonite, etc.

Talc, e.g., soapstone, etc.

Calcium silicate, e.g., dicalcium silicate or silicate hydrate, tobermorite, wollastonite, etc.

Organic material containing

Bleaching treatment or product

Glass containing

Organic silicon material containing

Treatment of alkali silicate with mineral acid or product

Organic pigment containing

Mixed pigments containing

Quinacridone pigment or derivative

Pigment containing -N=N-

Quinacridone pigment or derivative

Ring containing atom other than carbon

Organic material containing

Rosin, natural resin or derivative, e.g., shellac, dammar, colophony, turpentine, etc.

Carbohydrate, proteinaceous material, gum, or lignin (e.g., pectate alginate, albumin, glue, etc.)

Wax, paraffin, bituminous material, asphalt, oil shale, tar or pitch containing

Sulfur or phosphorus containing
504 ....Fat, oil, higher fatty acid or derivative (e.g., tallow, mineral oil, essential oils, salts, amides and esters of higher fatty acids, soap, etc.)
505 ....Carboxylic acid or derivative, e.g., tannin, etc.
506 ....Ring containing atom other than carbon
310 .Driers
311 .Vehicles or solvents
312 .Opacifiers for enamels
313 .Ceramic fluxes
819 .Additive materials for inorganic cements which contain a hydraulic settable material
820 ..Expanding, foaming or porosity producing additive
821 ..Protein containing additive
822 ..Wax, tallow, oil, natural resin or higher fatty acid or salt, amide, or ester thereof containing additive (e.g., rosin, tall oil, hydrocarbon oil, etc.)
823 ..Organic material containing additive (e.g., carbohydrate, bituminous material, etc.)
316 .Miscellaneous

COATING OR PLASTIC COMPOSITIONS
(106/UNNUMBERED SUBCLASS)
FOR 100 .Cellulose liberation liquor containing (106/123.1)
FOR 101 .Tall oil (106/123.2)
FOR 102 .Protein or derivative containing (106/124)
FOR 103 .Gelatine, glue or derivative containing (106/125)
FOR 104 ...With carbohydrate or derivative (106/126)
FOR 105 ....Cellulose or derivative (106/127)
FOR 106 ......Cellulose ether or ester (106/128)
FOR 107 ....Gum or derivative (106/129)
FOR 108 ....Starch or derivative (106/130)
FOR 109 ...With fat, fatty oil, fatty oil acid or salt thereof (106/131)
FOR 110 ....Fatty oil (106/132)
FOR 111 ...With natural resin or derivative (106/133)
FOR 112 ...With wax, bituminous material or tarry residue (106/134)
FOR 113 ...With solvent or dispersing medium (106/135)
FOR 114 ...With flux or plasticizer (106/136)
FOR 115 ...With filler, dye or pigment (106/137)
FOR 116 ..Casein or derivative (106/138)
FOR 117 ....With carbohydrate or derivative (106/139)
FOR 118 ....Cellulose or derivative (106/140)
FOR 119 ......Cellulose ether or ester (106/141)
FOR 120 ...With fat, fatty oil, fatty oil acid or salt thereof (106/142)
FOR 121 ....Fatty oil (106/143)
FOR 122 ...With natural resin or derivative (106/144)
FOR 123 ...With wax, bituminous material or tarry residue (106/145)
FOR 124 ...With solvent or dispersing medium (106/146)
FOR 125 ...With flux or plasticizer (106/147)
FOR 126 ...With filler, dye or pigment (106/148)

CROSS-REFERENCE ART COLLECTIONS
RELATING TO SUBCLASS 287.1
900 SOIL STABILIZATION
901 LOW MOLECULAR WEIGHT HYDROCARBON POLYMER-CONTAINING MIXTURE

FOREIGN ART COLLECTIONS
FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

Any foreign patents or nonpatent literature from subclasses that have been reclassified have been transferred directly to the 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.
FOR 127 ..Prolamine or derivative (106/149)
FOR 128 ...With carbohydrate or derivative (106/150)
FOR 129 ....Cellulose or derivative (106/151)
FOR 130 ...With wax, bituminous or resinous material or tarry residue (106/152)
FOR 131 ...With flux, solvent or dispersing medium (106/153)
FOR 132 ..Seed protein or derivative (106/154)
FOR 133 ..Feathers, hair or leather (106/155)
FOR 134 ...With wax, bituminous or resinous material or tarry residue (106/156)
FOR 135 ...With carbohydrate or derivative (106/157)
FOR 136 ...Cellulose or derivative (106/158)
FOR 137 ...With fat, fatty oil, fatty oil acid or salt thereof (106/159)
FOR 138 ...With wax, bituminous or resinous material or tarry residue (106/160)
FOR 139 ...With flux, solvent or dispersing medium (106/161)
FOR 140 .Carbohydrate or derivative containing (106/162)
FOR 141 ..Cellulose or derivative (106/163.1)
FOR 142 ....Viscose (106/164)
FOR 143 .....Spinning solutions (106/165)
FOR 144 .....With delustering agent (106/166)
FOR 145 ...Cuprammonium cellulose (106/167)
FOR 146 ...Regenerated cellulose (106/168)
FOR 147 ...Cellulose ether or ester (106/169)
FOR 148 ...Emulsions (106/170)
FOR 149 ....With fat, fatty oil, fatty oil acid or salt thereof (106/171)
FOR 150 .....With natural resin or derivative (106/172)
FOR 151 .....With natural resin or derivative (106/173.1)
FOR 152 ....With terpene or derivative (106/174)
FOR 153 .....With ether, ester or alcohol (106/175)
FOR 154 ....With heterocyclic compound (106/176)
FOR 155 ....With phosphorus containing compound (106/177)
FOR 156 ....With carboxylic acid, salt or ester thereof (except wax) (106/178)
FOR 157 ......Ether group containing (106/179)
FOR 158 ....Polyhydric alcohol ester (106/180)
FOR 159 ....Polycarboxylic acid, salt or ester thereof (106/181)
FOR 160 ......Oxo- or oxy-acid or ester thereof (106/182)
FOR 161 ......Lower fatty acid or ester thereof (106/183)
FOR 162 ......With aldehyde or ketone (106/184)
FOR 163 ......With ether or alcohol (106/185)
FOR 164 ......With amine or amide (100/186)
FOR 165 ......With aldehyde or ketone (106/187)
FOR 166 ......With ether (106/188)
FOR 167 ......With alcohol or phenol (106/189)
FOR 168 ......With halogen containing carbon compound (106/190)
FOR 169 ......With hydrocarbon, wax, bituminous material or tarry residue (106/191)
FOR 170 ......With delustering agent (106/192)
FOR 171 ......With metal salt (106/194)
FOR 172 ......Cellulose nitrate (106/195)
FOR 173 ......Cellulose acetate (106/196)
FOR 174 ......Cellulose ether (106/197.1)
FOR 175 ......Carboxymethyl cellulose (106/197.2)
FOR 176 ......Processes (106/198)
FOR 177 ......With fat, fatty oil, fatty oil acid or salt thereof (106/199)
FOR 178 ......With natural resin or derivative (106/200)
FOR 179 ......With wax (106/201)
FOR 180 ......With bituminous material or tarry residue (106/202)
FOR 181 ......With solvent or dispersing medium (106/203)
FOR 182 ......With filler, dye or pigment (106/204)
FOR 183 ...Cork (106/204.1)
FOR 184 ..Carbohydrate gum (106/205)
FOR 185 ...With fat, fatty oil, fatty oil acid or salt thereof (106/206)
FOR 186 ...With wax, bituminous or resinous material or tarry residue (106/207)
FOR 187 ...With solvent or dispersing medium (106/208)
FOR 188 ...With filler, dye or pigment (106/209)
FOR 189 ..Starch containing (106/210)
FOR 190 ...With fat, fatty oil, fatty oil acid or salt thereof (106/211)
FOR 191 ...With wax, bituminous or resinous material or tarry residue (106/212)
FOR 192 ...With solvent or dispersing medium (106/213)
FOR 193 ...With filler, dye or pigment (106/214)
FOR 194 ...With fat, fatty oil, fatty oil acid or salt thereof (106/215)
FOR 195 ..With wax, bituminous or resinous material or tarry residue (106/216)
FOR 196 ..With filler, dye or pigment (106/217)
FOR 197 ...Carbohydrate, protein, gum, or lignin, e.g., pectate alginate, albumin, glue, etc. (106/501)

DIGESTS

DIG 1  FLY ASH
DIG 2  PERLITE
DIG 3  MICA
DIG 4  BENTONITE
DIG 7  ASPHALT BINDERS IN COATING COMPOSITIONS