| 1 | BODY MEMBER PRINTING (E.G., FINGERPRINTING, ETC.) | 2.24 | .Implantable permanent prosthesis (i.e., artificial body member) |
|------|--|--------|--|
| 2.1 | MEDICAL OR DENTAL PURPOSE PRODUCT; PARTS; SUBCOMBINATIONS; INTERMEDIATES | | <pre>(e.g., pacemaker, lens, cornea, glaucoma shunt, heart valve, muscle, spinal disc, breast, internal organ)</pre> |
| | (E.G., BALLOON CATHETER, SPLINT) | 2.25 | Liquid conveying (e.g., |
| 2.11 | Analysis, diagnosis, measuring, or testing product (e.g., | | <pre>vascular, arterial, bile duct, urethra)</pre> |
| | specimen preparation, | 2.26 | For mineralized body part |
| | microscope slide smearing) | | (e.g., bone, tooth, crown, |
| 2.12 | For contacting living body or | 2.27 | hip) |
| | <pre>transfusing bodily fluid (e.g., endoscope, electrode, thermometer, probe)</pre> | 2.21 | Inorganic oxygen-containing compound containing layer formed (e.g., hydroxyapatite, |
| 2.13 | Layer formed contains chemical | 2.28 | ceramic, glass) .Device for creating or holding |
| | reagent or chemically reacts with substrate (e.g., cell stain or fix, pH paper, immobilized antigen) | 2.20 | open an unnatural opening in a membrane or organ (e.g., syringe, scalpel, drainage tube) |
| 2.14 | .Particulate or unit-dosage- | 2.29 | .Dental product (e.g., floss, |
| | <pre>article base (e.g., tablet, pill, pellet, capsule,</pre> | | denture, orthodontia wire) |
| | liposome, powder, controlled- release implant, suppository; excluding transdermal patch) | 2.3 | .Fluid barrier or fluid transporting product, other than merely absorbing (e.g., |
| 2.15 | Fluidized bed utilized | | surgical glove, condom, lined diaper, membrane filter, IV |
| 2.16 | Retarded or controlled-release layer produced (e.g., enteric) | | tubing, cannula, dialysis membrane, urinary catheter) |
| 2.17 | <pre>Significant color or other intended appearance altering layer formed (e.g., shining, indicia)</pre> | 2.31 | <pre>.Flexible web, sheet, film, or filament base (e.g., fabric, bandage, suture, transdermal</pre> |
| 2.18 | En masse rotating means | 4 | patch, orthopedic cast tape) PLANT MEMBER OR ANIMAL SPECIMEN |
| | <pre>employed (e.g., rotating pan, tumbling)</pre> | 4 | COATING |
| 2.19 | Retarded or controlled-release | 5 | RADIOACTIVE BASE OR COATING |
| 2.17 | layer produced (e.g., enteric) | 6 | .Particles or nuclear reactor |
| 2.2 | Significant color or other | | fuel elements coated |
| | intended appearance altering | 7 | FRAUD OR TAMPER DETECTING |
| | layer formed (e.g., shining, | 8 9 | MEASURING, TESTING, OR INDICATING .Thickness or uniformity of |
| 0 01 | indicia) | 9 | thickness determined |
| 2.21 | Retarded or controlled-release layer produced (e.g., enteric) | 10 | Electrical or optical |
| 2.22 | Gelatin matrix layer produced | 11 | FRICTIONAL APPLICATION (I.E., |
| 2.23 | Significant color or other intended appearance altering | | RUBBING SOLID COATING MATERIAL ON BASE) |
| | layer formed (e.g., shining, indicia) | 446 | SPRAY COATING UTILIZING FLAME OR PLASMA HEAT (E.G., FLAME SPRAYING, ETC.) |
| | | 447 | .Organic containing coating |
| | | 448 | .Nonuniform or patterned coating |

| 449 | .Continuous feed solid coating | 473 | Inorganic substrate |
|-----|--|-----|--|
| | material (e.g., wire, rod, or | 474 | Solid particles applied |
| 450 | filament, etc.) | 475 | Solid particles or atomized |
| 450 | .Inorganic carbon containing | 400 | liquid applied |
| | <pre>coating, not as steel (e.g., carbide, etc.)</pre> | 476 | Inside hollow articles |
| 451 | Additionally containing nickel, | 477 | Articles or substrates sequentially moved past |
| 131 | cobalt, or iron as free metal | | atomizing source |
| | or alloy | 478 | Collection of off-target or |
| 452 | .Silicon containing coating | 1,0 | fugitive coating material |
| 453 | .Metal oxide containing coating | 479 | Utilizing multiple spray |
| 454 | Superposed diverse or | | sources (e.g., atomizers) |
| | multilayer similar coatings | 480 | Movable atomizer or spray |
| | applied | | source (e.g., spray source or |
| 455 | .Metal or metal alloy coating | | atomizer rotates, |
| 456 | Aluminum, nickel, cobalt, or | | reciprocates, oscillates, |
| | iron metal or alloy containing | | etc.) |
| | coating | 481 | Rotatable base or support for |
| 457 | DIRECT APPLICATION OF ELECTRICAL, | | substrate |
| | MAGNETIC, WAVE, OR PARTICULATE | 482 | Running or indefinite length |
| 450 | ENERGY | 400 | substrate |
| 458 | <pre>.Electrostatic charge, field, or force utilized</pre> | 483 | Utilizing apparatus to atomize |
| 459 | Fluidized bed utilized | | <pre>and electrostatically charge liquid coating material (e.g.,</pre> |
| 460 | Ionization or corona discharge | | charging electrode adjacent |
| 400 | utilized | | spray source, etc.) |
| 461 | Heating or fusing applied | 484 | Rotatable atomizer or spray |
| 101 | coating | -0- | source |
| 462 | Flock or fiber applied | 485 | Coating contains organic |
| 463 | Pile- or nap-type surface | | material |
| | formed | 486 | Inorganic substrate |
| 464 | Heating, drying, or cooling | 487 | .Polymerization of coating |
| | adhesive surface | | utilizing direct application |
| 465 | Organic substrate specified | | of electrical, magnetic, wave, |
| | (e.g., fabric, etc.) | | or particulate energy (i.e., |
| 466 | Nonuniform or patterned coating | | including cross-linking, |
| | (e.g., ink jet printing, etc.) | | <pre>curing, and hardening of organics)</pre> |
| 467 | Edging or striping | 488 | Plasma initiated polymerization |
| 468 | Mask or stencil utilized | 489 | Organosilicon containing |
| 469 | Coating material consists of | 105 | coating |
| | charged particles (e.g., | 490 | Flurocarbon containing coating |
| 470 | <pre>paint, pigment, dye, etc.)Superposed diverse or</pre> | 491 | Organic substrate |
| 470 | multilayer similar coatings | 492 | Multiple applications of |
| | applied | | identical radiation energy |
| 471 | Applying coatings to opposite | | source to polymerize (e.g., |
| | sides of a substrate | | <pre>pulse, flash, lamp, etc.)</pre> |
| | (excluding processes where all | 493 | Application of plural diverse |
| | coating is by immersion) | | energy sources to polymerize |
| 472 | Positioning, orientation, or | | (e.g., electromagnetic wave |
| | application of nonsprayed, | | plus resistance heat, |
| | nonatomized coating material | | ultraviolet wave plus infrared |
| | solely by electrostatic | | wave, etc.) |
| | charge, field, or force | | |

| 494 | <pre>Gloss control (e.g., light scattering, etc.)</pre> | 516 | Coating is adhesive or is intended to be made adhesive |
|------------|--|-------------|--|
| 495 | Polymerization involving the control of oxygen containing | | <pre>(e.g., release sheet or coating, etc.)</pre> |
| | gas as an inhibitor (e.g., air, etc.) | 517 | Coating includes specified rate affecting material |
| 496 | High energy electromagnetic | 518 | Inorganic substrate |
| 150 | radiation or high energy | 519 | Keto or aldehyde containing |
| | particles utilized (e.g., | 313 | group is part of the rate |
| | gamma rays, X-rays, atomic | | affecting coating material |
| | particles, i.e., alpha rays, | | (e.g., benzoin, benzophenone, |
| | beta rays, electrons, etc.) | | acetaldehyde, etc.) |
| 497 | Vapor deposition utilized | 520 | Benzene ring or nitrogen |
| 498 | Immersion, partial immersion, | 320 | containing coating material |
| 150 | spraying, or spin coating | 521 | Radiation as heat source |
| | utilized (e.g., dipping, etc.) | JZ I | (e.g., radiant energy, etc.) |
| 499 | Natural cellulose substrate | 522 | Resistance or induction heat- |
| 500 | Coating material includes | 222 | initiated polymerization |
| 300 | colorant or pigment | 523 | .Ion plating or implantation |
| 501 | Textile, fiber, or wire coated | 524 | With simultaneous sputter |
| 301 | or impregnated | 324 | etching of substrate |
| 502 | Magnetic recording medium | 525 | Organic material present in |
| | formed | | substrate, plating, or |
| 503 | Organosilicon containing | | implanted layer |
| | coating material | 526 | Nonuniform or patterned ion |
| 504 | Nonuniform or patterned | | plating or ion implanting |
| | coating (e.g., mask, printing, | | (e.g., mask, etc.) |
| | etc.) | 527 | Silicon present in substrate, |
| 505 | Coating is adhesive or | | plating, or implanted layer |
| | intended to be made adhesive | 529 | Inorganic oxide containing |
| | (e.g., release sheet or | | plating or implanted material |
| | coating, etc.) | 530 | Inorganic metal compound |
| 506 | Benzene ring or nitrogen | | present in plating or |
| 505 | containing coating material | | implanted material (e.g., |
| 507 | Styrene or carboxamide group | | nitrides, carbides, borides, |
| | containing coating material | 500 | etc.) |
| F 0 0 | (e.g., urea, urethane, etc.) | 528 | Metal or metal alloy substrate |
| 508 | Low energy electromagnetic | 531 | Metal or metal alloy plating or |
| | radiation utilized (e.g., UV, | 5 20 | implanted material |
| | <pre>visible, IR, microwave, radio wave, actinic, laser, etc.)</pre> | 532 | .Pretreatment of substrate or |
| 509 | Vapor deposition utilized | | post-treatment of coated |
| 510 | | F22 | substrate |
| 510 | Nonuniform or patterned coating (e.g., mask, printing, | 533 | Ionized gas utilized (e.g., |
| | textured, etc.) | | electrically powered source, |
| 511 | Printing ink utilized | | corona discharge, plasma, glow |
| 512 | Immersion, partial immersion, | E 2 / | discharge, etc.) |
| 512 | | 534 | Cleaning or removing part of |
| | <pre>spraying, or spin coating utilized (e.g., dipping, etc.)</pre> | | <pre>substrate (e.g., etching with plasma, glow discharge, etc.)</pre> |
| 513 | Textile or fiber coated or | EDE | |
| 213 | | 535 | Plasma (e.g., cold plasma, |
| 514 | <pre>impregnatedCoating material includes</pre> | 52 <i>6</i> | corona, glow discharge, etc.) |
| フェュ | colorant or pigment | 536 537 | Organic substrate |
| 515 | Organosilicon containing | 537 | Metal containing coatingTextile or fiber coated or |
| J±J | coating material | 230 | impregnated |
| | coacting material | | Turbreduared |

| 539 540 | Oxygen containing atmosphereArc or electrical discharge | 566 | <pre>Electron irradiation (e.g., e- beam evaporation, etc.)</pre> |
|------------|---|-----|---|
| 541 | Drying | 567 | Silicon or metal oxide coating |
| 542 | Infrared or radiant heating | 307 | (e.g., glass, etc.) |
| 543 | Induction or dielectric heating | 568 | Silicon containing coating |
| 543 | Organic coating containing | 200 | supply or source |
| | material | 569 | .Plasma (e.g., corona, glow |
| 545 | Resistance heating | | discharge, cold plasma, etc.) |
| 546 | Metal or metal alloy | 570 | Utilizing plasma with other |
| | containing coating | | nonionizing energy sources |
| 547 | Magnetic field or force | 571 | With magnetic enhancement |
| | utilized | 572 | Light as energy source |
| 548 | Magnetic recording medium or | 573 | With heated substrate |
| | device formed | 574 | Silicon containing coating |
| 549 | Running length substrate | 575 | Generated by microwave (i.e., |
| 550 | Magnetizable powder, flakes, | | 1mm to 1m) |
| | or particles utilized | 576 | Metal, metal alloy, or metal |
| 551 | High energy electromagnetic | | oxide coating |
| | radiation or high energy | 577 | Inorganic carbon containing |
| | particles utilized (e.g., | | coating material, not as steel |
| | gamma ray, X-ray, atomic | | (e.g., carbide, etc.) |
| | particle, i.e., alpha ray, | 578 | Silicon containing coating |
| | beta ray, high energy | | material |
| | electron, etc.) | 579 | Silicon oxides or nitrides |
| 552 | Nonuniform or patterned | 580 | .Electrical discharge (e.g., |
| | coating | | arcs, sparks, etc.) |
| 553 | Low energy electromagnetic | 581 | .Chemical deposition from liquid |
| | radiation (e.g., microwave, | | contiguous with substrate via |
| | radio wave, IR, UV, visible, | | electron beam or light (e.g., |
| A | actinic, laser, etc.) | | photochemical liquid |
| 554 | Laser | | deposition, etc.) |
| 555 | Nonuniform or patterned coating | 582 | .Photoinitiated chemical vapor deposition (i.e., photo CVD) |
| 556 | Metal or metal alloy | 583 | Silicon containing coating |
| 330 | substrate | 584 | Metal, metal alloy, or metal |
| 557 | Thermal processes (e.g., | 304 | oxide coating |
| 33, | radiant heat, infrared, etc.) | 585 | .Chemical vapor deposition (e.g., |
| 558 | Ultraviolet light | 363 | electron beam or heating using |
| 559 | Fusing, curing, or annealing | | IR, inductance, resistance, |
| | (e.g., ceramics, etc.) | | etc.) |
| 560 | Sonic or ultrasonic (e.g., | 586 | Pyrolytic use of laser or |
| | cleaning or removing material | | focused light (e.g., IR, UV |
| | from substrate, etc.) | | lasers to heat, etc.) |
| 561 | .Pretreatment of coating supply | 587 | Resistance or induction heating |
| | or source outside of primary | 588 | Silicon or semiconductor |
| | deposition zone or off site | | material containing coating |
| 562 | Electric discharge (e.g., | 589 | Silicon carbide |
| | corona, glow discharge, etc.) | 590 | Boron, nitrogen, or inorganic |
| 563 | Silicon containing coating | | carbon containing coating |
| | material | 591 | .Induction or dielectric heating |
| 564 | Metal, metal alloy, or metal | 592 | .Resistance heating |
| | oxide containing coating | 593 | Vapor deposition employing |
| | material | | resistance heating of |
| 565 | Sonic or ultrasonic (e.g., | | substrate or coating material |
| | vibratory energy, etc.) | 594 | Immersion or partial immersion |
| | | | |

| 595 | .Electromagnetic or particulate | 96.3 | Electromagnetic wave energy |
|-------|---|------|---|
| | radiation utilized (e.g., IR, | | shield (e.g., electromagnetic |
| | UV, X-ray, gamma ray, actinic, | | wave shield (EWS), etc.) |
| | microwave, radio wave, atomic | 96.4 | Conformal (e.g., thin film |
| | particle; i.e., alpha ray, | | <.02mm thick, etc.) |
| F06 | beta ray, electron, etc.) | 96.5 | Mechanical shock, stress, or |
| 596 | Laser or electron beam (e.g., | | physical damage absorbing or |
| F 0 7 | heat source, etc.) | | shielding (e.g., scratch or |
| 597 | Metal or metal alloy | | puncture-resistant coating, |
| | containing coating material applied | 96.6 | etc.)Barrier to diffusion of |
| 598 | | 96.6 | |
| 599 | .Magnetic field or force utilizedMagnetic recording medium or | | <pre>specific fluid (e.g., silicone rubber, selectively permeable</pre> |
| 333 | device formed | | membrane which excludes water |
| 600 | Sonic or ultrasonic | | or moisture, etc.) |
| 601 | Immersion bath utilized | 96.7 | Using mist or aerosol |
| 58 | ELECTRICAL PRODUCT PRODUCED | 96.8 | Vapor or gas deposition |
| 59 | | 96.9 | Front and back of substrate |
| 60 | .Welding electrode | 50.5 | coated (excluding processes |
| 60 | Post-treating with solid treating member | | where all coating is by |
| 61 | Metal coating or Group IIA | | immersion) |
| 01 | metallic compound containing | 97.1 | Multilayer |
| | coating | 97.2 | Coating hole wall |
| 62 | .Superconductor | 97.3 | Nonuniform or patterned |
| 63 | Nonuniform coating | | coating |
| 64 | .Fluorescent or phosphorescent | 97.4 | With posttreatment of coating |
| 04 | base coating (e.g., cathode- | | or coating material |
| | ray tube, luminescent screen, | 97.5 | Polymer deposited |
| | etc.) | 97.6 | With posttreatment of coating |
| 65 | X-radiation properties | | or coating material |
| 66 | Electroluminescent lamp | 97.7 | Coating hole wall |
| 67 | Fluorescent lamp | 97.8 | With pretreatment of substrate |
| 68 | Multicolor or mosaic (e.g., | 97.9 | Immersion metal plating from |
| | color T.V. tube, etc.) | | solution (e.g., electroless |
| 69 | Vapor deposition | | plating, etc.) |
| 70 | Nonmetallic coating formed by | 98.1 | Activating or catalyst |
| | vapor deposition | | pretreatment |
| 71 | Particles applied | 98.2 | With posttreatment of coating |
| 72 | Rotating the base | | or coating material |
| 73 | Settling out of liquid | 98.3 | Heating (e.g., curing, etc.) |
| 74 | .Photoelectric | 98.4 | Nonuniform or patterned coating |
| 75 | Mosaic or nonuniform coating | 98.5 | With pretreatment of substrate |
| 76 | Coating is selenium, tellurium, | 98.6 | With pretreatment of substrate |
| | or compound thereof | 98.7 | Swelling |
| 77 | .Electron emissive or suppressive | 98.8 | Etching or roughening |
| | (excluding electrode for arc) | 98.9 | Heating |
| 78 | Vapor deposition or spraying | 99.1 | Activating or catalyst |
| 79 | .Condenser or capacitor | | pretreatment |
| 80 | Electrolytic or barrier layer | 99.2 | With posttreatment of coating |
| | type | | or coating material |
| 81 | Vacuum or pressure utilized | 99.3 | Planarization |
| 96.1 | .Integrated circuit, printed | 99.4 | Polymer deposited |
| | circuit, or circuit board | 99.5 | Immersion metal plating from |
| 96.2 | Protective coating (e.g., | | solution (e.g., electroless |
| | encapsulating, etc.) | | plating, etc.) |
| | | | |

| 100 | Diagonlastria properties | 135 | .Metal mold |
|-------|---|-------|--|
| 100 | .Piezoelectric properties | 136 | |
| 101 | Resistor for current control (excludes heating element) | 136 | COATING PAVEMENT OR THE EARTH (E.G., ROADMAKING, ETC.) |
| 102 | Nonuniform coating | 137 | |
| 103 | Applying superposed diverse | 137 | .Striping, marking, or increasing reflectivity |
| | coatings or coating a coated base | 138 | .Asphalt, bitumen, oil, or tar containing coating |
| 104 | .Motor stator or core for winding | 139 | Rolling |
| 105 | .Hollow article | 140 | RESTORING OR REPAIRING |
| 106 | Glass (e.g., light bulb, etc.) | 141 | .Carbon paper or inked ribbon |
| 107 | Vapor deposition | 142 | .Metal article |
| 108 | .Transparent base | 143 | STENCIL BLANK MAKING |
| 109 | Vapor deposition | 144 | HECTROGRAPHIC OR COPYING SURFACE |
| 110 | Spraying | | MAKING |
| 111 | .Filament for lamp or tube | 145 | LATENT IMAGE FORMED OR DEVELOPED |
| 112 | Carbon filament | 146 | TRANSFER OR COPY SHEET MAKING |
| 113 | .Carbon base | 147 | .Decal or embossing foil type |
| 114 | Brushes | | (i.e., continuous film |
| 115 | .Fuel cell part | | transfers) |
| 116 | .Coil or winding | 148 | Heat sensitive |
| 117 | .Wire conductor | 149 | Fluid releasable |
| 118 | Applying superposed coatings or | 150 | .Reactive components |
| | coating a coated base | 151 | Heterocyclic organic compound |
| 119 | Foam, cellular, or natural | | component |
| | rubber coating | 152 | .Coating opposite sides or |
| 120 | Heat utilized | | forming plural or nonuniform |
| 121 | .Cellulosic or fibrous base | | coats |
| | (e.g., wood, paper, etc.) | 153 | .Carbon paper type |
| 122 | .Carbon coating | 154 | REMOVABLE PROTECTIVE COATING |
| 123 | .Metal coating | | APPLIED |
| 124 | Vapor deposition or utilizing | 155 | .Organic base |
| | vacuum | 156 | .Metal base |
| 125 | Silver, gold, platinum, or palladium | 157 | FLUORESCENT OR PHOSPHORESCENT COATING |
| 126.1 | .Metallic compound coating | 158 | .Optical brightening |
| 126.2 | Glass or ceramic base or | 159 | INCANDESCENT MANTLE PRODUCED |
| | coating | 160 | COATING HAS X-RAY, ULTRAVIOLET, |
| 126.3 | Metal oxide, peroxide, or | | OR INFRARED PROPERTIES |
| | hydroxide coating | 161 | TRANSPARENCY OR TRANSLUCENCY |
| 126.4 | Metal is Al | | INCREASED (E.G., MAKING WINDOW |
| 126.5 | Metal is Au, Ag, Pt, Pd, Ru, | | ENVELOPES, ETC.) |
| | Rh, Os, Ir | 162 | OPTICAL ELEMENT PRODUCED |
| 126.6 | Metal is Ni, Fe, or Co | 163.1 | .Polarizer, windshield, optical |
| 127 | MAGNETIC BASE OR COATING | | fiber, projection screen, or |
| 128 | .Magnetic coating | | retroreflector |
| 129 | With pretreatment of base | 163.2 | Optical fiber, rod, filament, |
| 130 | With post-treatment of coating | | or waveguide |
| | or coating material | 163.3 | Projection screen |
| 131 | Applying superposed diverse | 163.4 | Retroreflector (e.g., light |
| | coating or coating a coated | | reflecting small spherical |
| | base | 1.5. | beads, etc.) |
| 132 | Metal coating | 164 | .Transparent base |
| 133 | MOLD COATING | 165 | Glass |
| 134 | .Sand mold | 166 | Vapor depositing |
| | | | |

| | -1-1 | | |
|-----|--|--------|-----------------------------------|
| 167 | Silicon compound coating | 202 | .Applying superposed diverse |
| | (e.g., quartz, etc.) | | coatings or coating a coated |
| 168 | Spraying | | base |
| 169 | Immersion | 203 | Coating over the applied |
| 170 | DELUSTERING FABRIC OR YARN | | coating of particles |
| 171 | WITH STRETCHING OR TENSIONING | 204 | Silicon compound containing |
| 172 | .Running lengths | | particles (e.g., sand, etc.) |
| 173 | Lateral stretching | 205 | Metal or metallic compound |
| 174 | Particles or fibers applied | | containing particles |
| 175 | Cord, thread, yarn, or wire | 206 | Flock or fibers applied |
| 176 | Textile fabric | 207.1 | COATING REMAINS ADHESIVE OR IS |
| 177 | WITH WINDING, BALLING, ROLLING, | | INTENDED TO BE MADE ADHESIVE |
| | OR COILING | 208 | .Application to opposite sides of |
| 178 | .Metal or glass base (e.g., wire, | | base |
| | etc.) | 208.2 | .Heat sensitive adhesive |
| 179 | .Paper or felt base | 208.4 | .Pressure sensitive adhesive |
| 180 | SOLID PARTICLES OR FIBERS APPLIED | 208.6 | Nonuniform coating (e.g., |
| 181 | .Interior or hollow article | | perforated, etc.) |
| 101 | coating | 208.8 | Applying superposed diverse |
| 182 | Fluidized bed utilized | | coatings or coating a coated |
| 183 | Rotating the base | | base |
| 184 | Rotating the base .Nonuniform speed or | 209 | APPLICATION TO OPPOSITE SIDES OF |
| 184 | nonrectilinear base motion | _00 | SHEET, WEB, OR STRIP |
| 105 | | | (EXCLUDING PROCESSES WHERE ALL |
| 185 | .Fluidized bed utilized | | COATING IS BY IMMERSION) |
| 186 | .Roofing produced | 210 | .Nonuniform coating |
| 187 | With cutting | 211 | .Roller applicator utilized |
| 188 | Localized different areas | 212 | PARTICLES, FLAKES, OR GRANULES |
| 100 | produced | | COATED OR ENCAPSULATED |
| 189 | .Uniting particles to form | 213 | .Fluidized bed utilized |
| | continuous coating with | 213.3 | .Solid encapsulation process |
| 100 | nondiscernible particles | 213.3 | utilizing an emulsion or |
| 190 | Metallic compound particles | | dispersion to form a solid- |
| 191 | Metal particles | | walled microcapsule (includes |
| 192 | Aluminum, copper, or zinc | | liposome) |
| | particles | 213.31 | With post-treatment of |
| 193 | Vitrifiable particles | | encapsulant or encapsulating |
| 194 | Roller utilized | | material (e.g., further |
| 195 | Synthetic resin particles | | coating, hardening, etc.) |
| 196 | .Plural direction application of | 213.32 | Hardening |
| | coating materials or | 213.33 | Using crosslinking agent |
| | simultaneously applying | 213.34 | Solid-walled microcapsule |
| | particles and binder from | 213.31 | formed by in situ |
| | different sources | | polymerization |
| 197 | .Localized different areas | 213.35 | Solid-walled microcapsule |
| | <pre>produced (e.g., printing,</pre> | 213.33 | formed from gelatin or |
| | etc.) | | derivative thereof |
| 198 | Deforming the base or coating | 213.36 | Solid-walled microcapsule |
| | or removing part of the | 213.30 | formed from preformed |
| | coating | | synthetic polymer |
| 199 | Silicon compound, metal, or | 214 | .Applying superposed diverse |
| | metallic compound containing | 211 | coatings or coating a coated |
| | particles applied | | base |
| 200 | Flock or fibers applied | 215 | .Inorganic base |
| 201 | .Plural particulate materials | 216 | Metal base |
| | applied | 210 | cui bubc |
| | | | |

| 217 | Metal coating | 249.6 | Graphite coating |
|-------|--|------------|--|
| 218 | Pigment containing coating | 249.7 | Diamond-like carbon coating |
| 219 | Silicon compound containing | | (i.e., DLC) |
| | coating | 249.8 | Diamond coating |
| 220 | Organic coating | 249.9 | Patterned or non-uniform |
| 221 | Resin, rubber, or hardenable | | coating |
| | oil containing coating | 249.11 | Hot filament utilized |
| 222 | .Resin base | 249.12 | Diamond seed crystals utilized |
| 223 | FLAME CONTACT | 249.13 | Tungsten containing base |
| 224 | .After coating | 249.14 | Superposed coatings (i.e., |
| 225 | .Metal coating | | layered) |
| 226 | HEAT DECOMPOSITION OF APPLIED | 249.15 | Silicon and carbon containing |
| | COATING OR BASE MATERIAL | | coating (e.g., silicon |
| 227 | .Base material decomposed or | | carbide, etc.) |
| | carbonized | 249.16 | Inorganic carbon base (e.g., |
| 228 | .Coating decomposed to form | | graphite, etc.) |
| | carbide or coating carbonized | 249.17 | Metal carbide containing |
| 229 | .Coating decomposed to form metal | | coating |
| 230 | INTERIOR OF HOLLOW ARTICLE | 249.18 | Chromium (Cr), molybdenum |
| | COATING | | (Mo), or tungsten (W) metal |
| 231 | .Rotating the article | | carbide containing coating |
| 232 | Removing excess coating | 249.19 | Titanium (Ti), zirconnium |
| | material | | (Zr), or hafnium (Hf) metal |
| 233 | Spraying | 0.50 | carbide containing coating |
| 234 | Metal base | 250 | .Metal coating |
| 235 | .Removing excess coating material | 251 | Moving the base |
| 236 | .Spraying | 252 | By decomposing metallic |
| 237 | .Coating by vapor, gas, mist, or | | compound (e.g., pack process, |
| | smoke | 252 | etc.) |
| 238 | .Vacuum or pressure utilized | 253 254 | Halogen containing compound .Wood base |
| 239 | .Metal base | 254 | |
| 240 | CENTRIFUGAL FORCE UTILIZED | 255.11 | .Base includes an inorganic compound containing silicon or |
| 241 | .Metal coating | | metal (e.g., glass, ceramic, |
| 242 | RUMBLING OR TUMBLING | | brick, etc.) |
| 243 | FORAMINOUS PRODUCT PRODUCED | 255.12 | Chemical vapor infiltration |
| 244 | .Filter, sponge, or foam | 233.12 | (i.e., CVI) of porous base |
| 245 | .Microporous coating (e.g., vapor | | (e.g., fiber, fibrous web |
| | permeable, etc.) | | etc.) |
| 246 | Coagulating or jelling the | 255.13 | Glaze coating produced |
| | coating | 255.14 | Organic compound containing |
| 247 | .Metal base | | coating |
| 248.1 | COATING BY VAPOR, GAS, OR SMOKE | 255.15 | Plural coatings applied |
| 249.1 | .Carbon or carbide coating | | utilizing vapor, gas, or smoke |
| 249.2 | Chemical vapor infiltration | 255.18 | Silicon containing coating |
| | (i.e., CVI) of porous base | 255.17 | Halogen containing coating, |
| | <pre>(e.g., fiber, fibrous web, etc.)</pre> | | reactant, or precursor |
| 249.3 | • | 255.19 | Metal oxide containing coating |
| 247.3 | <pre>Fiber or fibrous web or sheet base (e.g., strand, filament,</pre> | 255.21 | Base includes inorganic metal |
| | fabric, cloth, etc.) | | containing compound |
| 249.4 | Inorganic carbon base (e.g., | 255.22 | Iron compound containing base |
| 217.4 | graphite, etc.) | | (e.g., ferric oxide, etc.) |
| 249.5 | Boron and carbon containing | | |
| | coating (e.g., boron carbide, | | |
| | etc.) | | |
| | | | |

| 055 00 | | 055 005 | |
|---------|--|---------|-----------------------------------|
| 255.23 | .Mixture of vapors or gases | 255.395 | 3 |
| | (e.g., deposition gas and | 255.4 | .Base supplied constituent |
| | inert gas, inert gas and | 255.5 | .Moving the base |
| | reactive gas, two or more | 255.6 | .Organic coating applied by |
| 255 24 | reactive gases, etc.) utilized | | vapor, gas, or smoke |
| 255.24 | Fiber or fibrous web or sheet | 255.7 | .Plural coatings applied by |
| | based (e.g., strand, filament, | | vapor, gas, or smoke |
| 255 25 | fabric, cloth, etc.) | 256 | NONUNIFORM COATING |
| 255.25 | Mixture contains liquid or | 257 | .Wrinkled or crackled coating |
| 255 26 | solid particulate suspension | 258 | .Applying superposed diverse |
| 255.26 | Coating formed by reaction of | | coatings or coating a coated |
| | <pre>vaporous or gaseous mixture with a base (i.e., reactive</pre> | | base |
| | coating of non-metal base) | 259 | Including a masking coating |
| 255.27 | Silicon containing coating | 260 | Handheld brush or absorbent |
| 255.28 | | | applicator utilized |
| 255.20 | Coating formed from vaporous or gaseous phase reaction mixture | 261 | Final coating nonuniform |
| | (e.g., chemical vapor | 262 | Variegated surface produced |
| | deposition, CVD, etc.) | | (e.g., mottled, stippled, wood |
| 255.29 | Inorganic oxygen, sulfur, | | grained, etc.) |
| 233.23 | selenium, or tellurium (i.e., | 263 | Marbleized |
| | chalcogen) containing coating | 264 | Deforming the base or coating |
| | (e.g., phosphosilicate, | | or removing a portion of the |
| | silicon oxynitride, etc.) | | coating |
| 255.31 | Metal and chalcogen | 265 | Plural nonuniform coatings |
| 200.01 | containing coating (e.g., | 266 | Glass or ceramic base |
| | metal oxide, metal sulfide, | 267 | Variegated surface produced |
| | metal telluride, etc.) | | (e.g., mottled, stippled, wood |
| 255.32 | Plural metal containing | | grained, etc.) |
| | coating (e.g., indium oxide/ | 268 | Marbleized |
| | tin oxide, titanium oxide/ | 269 | Glass or ceramic base |
| | aluminum oxide, etc.) | 270 | Deforming the base or coating |
| 255.33 | Zinc (Zn), cadmium (Cd), or | | or removing a portion of the |
| | mercury (Hg), containing | | coating |
| 255.34 | Gallium (Ga), aluminum (Al), | 271 | .Deforming the base or coating or |
| | or indium (In) containing | | removing a portion of the |
| 255.35 | Germanium (Ge), tin (Sn), or | 0.70 | coating |
| | lead (Pb) containing | 272 | Mask or stencil utilized |
| 255.36 | Titanium (Ti) or zirconium | 273 | Fluid treating the coating |
| | (Zr) containing | | (e.g., vapor treating, etc.) |
| 255.37 | Silicon dioxide coating | 274 | Variegated surface produced |
| 255.38 | Phosphorus or boron containing | | (e.g., stippled, marbleized, |
| | coating (e.g., aluminum | | mottled, wood grained, etc.) |
| | boride, boron phosphide etc.) | 275 | Deforming the base |
| 255.39 | Halogen or halogen compound | 276 | Simultaneously deforming the |
| | containing reactant | | coating |
| 255.391 | Titanium compound containing | 277 | Solid treating member contacts |
| | coating (e.g., titanium | 0.00 | coating |
| | carbonitride, titanium | 278 | Roller treating member |
| | <pre>nitride, etc.)</pre> | 279 | .Vitreous coating |
| 255.392 | Tungsten compound containing | 280 | .Variegated surface produced |
| | coating (e.g., tungsten | | (e.g., mottled, wood grained, |
| | silicide, etc.) | 201 | etc.) |
| | Silicon containing coating | 281 | Marbleized |
| 255.394 | Nitrogen containing coating | 282 | .Mask or stencil utilized |
| | <pre>(e.g., metal nitride, etc.)</pre> | | |

| 283 | .Crystalization or precipitation | 323 | Natural protein containing base |
|-----|-----------------------------------|-----|--|
| | coating | | (e.g., silk, wool, leather, |
| 284 | .Edge or border coating | | etc.) |
| 285 | Paper or textile base | 324 | Cellulosic base |
| 286 | .Striping (i.e., forming stripes) | 325 | Wood base |
| 287 | .Metal, glass, or ceramic base | 326 | Paper base |
| 288 | .Paper or textile base | 327 | .Metal base |
| 289 | WITH CUTTING, HOLDING, SEVERING, | 328 | Metal coating |
| | OR ABRADING THE BASE | 329 | Molten metal bath utilized |
| 290 | .Prior to coating | 330 | Vitreous coating |
| 291 | Wood base (e.g., injecting, | 331 | WITH POST-TREATMENT OF COATING OR |
| | etc.) | | COATING MATERIAL |
| 292 | Inorganic base | 332 | .Deodorizing |
| 293 | Rectilinear cutting to length | 333 | .Plural film forming coatings |
| 294 | VACUUM UTILIZED PRIOR TO OR | | wherein one coating contains a |
| 201 | DURING COATING | | chemical treating agent for |
| 295 | .Metal base | | the other |
| 296 | Organic base | 334 | .Oil or wax treatment of coating |
| 290 | 3 | 335 | .Solvent vapor treatment of |
| _ | Wood base | 333 | coating |
| 298 | Creosote, wax, oil, asphalt, | 336 | .Swelling agent or solvent |
| 000 | or bitumen coating | 330 | applied to treat coating |
| 299 | WITH PRETREATMENT OF THE BASE | 337 | |
| 300 | .Shielding or spacing | 337 | .Chemical agent applied to treat |
| 301 | .Preapplied reactant or reaction | 220 | coating |
| | promoter or hardener (e.g., | 338 | Proteinaceous coating |
| | catalyst, etc.) | 339 | Cellulosic coating |
| 302 | Resin, rubber, or hardenable | 340 | Resin, resin precursor, rubber, |
| | oil containing coating | | or hardenable oil containing |
| 303 | Cellulosic base | | coating |
| 304 | Metal coating (e.g., | 341 | Inorganic treating agent |
| | electroless deposition, etc.) | 342 | Textile or cellulosic base |
| 305 | Nickel, copper, cobalt, or | 343 | Inorganic coating |
| | chromium coating | 344 | Silicon compound containing |
| 306 | Organic base | | coating |
| 307 | .Etching, swelling, or dissolving | 345 | .Coating material recirculation |
| | out part of the base | | or regeneration |
| 308 | Cellulosic base | 346 | .Movement of work treats coating |
| 309 | Inorganic base | | (e.g., vibrating, tilting, |
| 310 | .Fluxing | | etc.) |
| 311 | Supernatant flux (floating) | 347 | Metal coating |
| 312 | Lead or tin coating | 348 | .Gas jet or blast mechanically |
| 313 | Lead or tin coating | | treats coating |
| 314 | .Heating or drying pretreatment | 349 | Metal coating |
| 315 | Steam utilized | 350 | .Vacuum or reduced pressure |
| 316 | Organic base | | utilized |
| 317 | Wood base | 351 | Wood base |
| 317 | | 352 | .Liquid extraction of coating |
| | Metal base | | constituent or cleaning |
| 319 | Metal coating | | coating |
| 320 | Aluminum coating | 353 | With water |
| 321 | Zinc or spelter coating | 354 | Drying subsequent to washing |
| | (e.g., galvanizing, etc.) | 355 | Drying subsequent to washing .Solid treating member or |
| 322 | .Organic base | 555 | material contacts coating |
| | | 356 | Die, blade, or sharp-edged tool |
| | | 357 | Metal coating |
| | | ١٧٧ | mecar coacting |

| 358 | Organic coating | 382 | Paper or natural cellulose |
|-------|--------------------------------|-------|-------------------------------------|
| 359 | Roller, drum, or cylinder | | base |
| 360 | Metal coating | 383.1 | Metal coating |
| 361 | Paper base (e.g., calendering, | 383.3 | Inorganic base |
| | etc.) | 383.5 | Fused oxide-containing base |
| 362 | Cast coating | | (e.g., ceramic, glass, etc.) |
| 363 | Wax or oil containing coating | 383.7 | Metal base |
| 364 | Casein or starch containing | 384 | Organic coating |
| 301 | coating | 385.5 | Resin, resin precursor, |
| 365 | Treating between rollers | 303.3 | rubber, or hardenable oil- |
| 303 | (e.g., calendering, etc.) | | containing coating |
| 366 | | 386 | Epoxy or polyepoxide |
| 300 | With heating (e.g., heated | 300 | containing coating |
| 267 | roller, etc.) | 387 | |
| 367 | Metal coating | 307 | Silicon compound containing coating |
| 368 | Brushing | 200 1 | 3 |
| 369 | Pressure treatment of coating | 388.1 | Metal base |
| | (e.g., squeezing, etc.) | 388.2 | Cross-linked or infusible |
| 370 | With heating (e.g., hot | | coating |
| | ironing, etc.) | 388.3 | Aldehyde-containing |
| 371 | Organic base | | precursor |
| 372.2 | .Heating or drying (e.g., | 388.4 | Water-containing coating |
| | polymerizing, vulcanizing, | | (i.e., aqueous dispersion, |
| | curing, etc.) | | emulsion, or solution) |
| 373 | Cells, foam, or bubbles formed | 388.5 | Nonaqueous dispersion |
| 374.1 | And cooling | 389 | Proteinaceous base (e.g., |
| 374.2 | Heating after cooling | | wool, leather, etc.) |
| 374.3 | Without intervening coating | 389.7 | Glass base |
| | step | 389.8 | Fiberglass base |
| 374.4 | Fused or molten coating cooled | 389.9 | Textile or cellulose base |
| 374.5 | Liquid or solid cooling | 391 | Paper base |
| | medium | 392 | Natural cellulose base |
| 374.6 | Vacuum, vapor, or gas other | 393 | Wood base |
| | than air utilized | 393.1 | Antistatic properties |
| 374.7 | Vitreous or glazed coating | | increased |
| 375 | Fusion or softening of coating | 393.2 | Wrinkle resistance of crease |
| 376.1 | Inorganic coating | | holding properties increased |
| 376.2 | Metal oxide- or silicon- | 393.3 | Flame resistance increased |
| | containing coating (e.g., | 393.4 | Antisoiling or water |
| | glazed, vitreous enamel, etc.) | | repellency increased |
| 376.3 | Metal-containing coating | 393.5 | Resin, rubber, or elastomer |
| | (e.g., cermet, etc.) | | base |
| 376.4 | Metal base | 393.6 | Asbestos, ceramic, concrete, |
| 376.5 | Ferrous base | | or masonry base |
| 376.6 | Metal-containing coating | 394 | Textile or cellulosic base |
| 376.7 | Coating consists of metal | 395 | Paper base |
| 376.8 | Metal base | 396 | Natural cellulose base |
| 377 | Modified condition of | 397 | Wood base |
| J , , | atmosphere (e.g., steam, air | 397.7 | Inorganic silicon-containing |
| | movement, etc.) | J , | coating |
| 378 | Movement of atmosphere | 397.8 | Alkali silicate |
| 379 | Plural heating or drying steps | 398.1 | Arkari stricate .Cooling |
| 380 | Metal or metallic compound | 398.2 | Utilizing solid member |
| 550 | containing coating | JJU.4 | contacting base or coating |
| 381 | Textile or cellulosic base | | (e.g., cooling roller, etc.) |
| J U 1 | ICACITC OF CCTIMIOSIC Dase | | (c.g., cooring rotter, ccc.) |

| guenching, spraying, etc.) 398.4 . Vacuum, vapor, or gas other than air utilized 398.5 . Movement of atmosphere 400 | 398.3 | Liquid utilized (e.g., | 420 | FALLING CURTAIN OF COATING |
|--|-------|------------------------|--------|---------------------------------|
| than air utilized 421.1 SPRAYING Novement of atmosphere 422Reated coating material Noving the base Noving the base 425 Rotating or inverting 426 Ingredients supplied separately 427 Ingraginic supplied separately 427 Ingraginic supplied separately 427 Ingraginic supplied separately 427 Using nozzle or projector supported or guided by base (e.g., work, workpiece, etc.) during coating (e.g., cement, etc.) 427.2 Which programmed control or using mechanized nozzle or projector supported or guided by base (e.g., work, workpiece, etc.) during coating (e.g., coating 427.3 Whoying nozzle or projector (e.g., robotic sprayer, etc.) during coating Phopylass base 427.5 Whoying nozzle or projector (e.g., robotic sprayer, etc.) 427.1 Spray or polyepoxide containing coating 427.5 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.6 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.6 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.6 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.6 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.1 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.1 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.1 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.1 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.1 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.2 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.3 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.4 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.5 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.5 Moving nozzle or projector 428.0 Moving nozzle or projector (e.g., robotic sprayer, etc.) 427.6 Moving nozzle or projector 428.0 Moving nozzle or projec | | | | |
| 399. Solution Action Act | 398.4 | | | · |
| Applying SUPERPOSED DIVERSE 425 Rotating or inverting 426 Rotating or inverting 427 Rotating or inverting 428 Rotating or inverting 427 Rotating or inverting 428 Rotating or inverting 428 Rotating or inverting 428 Rotating or inverting 427 Rotating or inverting 427 Rotating or inverting 427 Rotating 427 Rotating or inverting 427 Rotating ocating 427 Rotating or inverting 427 Rotating ocating 427 Rotating or inverting 427 Rotating ocating 428 Rotating ocating 427 Rotating ocating 428 Rotating ocating | | | | |
| Resin or rubber base 425 .Rotating or inverting 426 .Ingredients supplied separately .Ingredients supplied separately .Ingredients supplied separately .427 .Inorganic coating material .427 | | - | | _ |
| 402 APPLIXING SUPERPOSED DIVERSE | | | | |
| 402 COATING OR COATING A COATED BASE 403 Settable inorganic coating (e.g., cement, etc.) 404 Metal coating 405 | | .Resin or rubber base | | |
| COATING OR COATING A COATED BASE 403 Settable inorganic coating (e.g., cement, etc.) 404 Metal coating 405Metal base 406Zinc coating 407.1 Synthetic resin coating 407.2 .Glass base 407.3Fiberglass base 408Wood base 409Metal base 409Metal base 400Epoxy or polyepoxide 600 containing coating 401Paper base 402.1Nonfibrous organic base 412.1Nonfibrous organic base 412.2Cellulose derivative base 412.3Polyelfin base 412.4Halogen-containing coating 413Polyelfin base 414Potein or derivative containing coating 415Cellulosic coating 416Wax containing coating 417Natural rubber or derivative containing 418Metallic compound-containing 419Metallic compound-containing 419Metallic compound-containing 419Superposed diverse oxide 619Vitreous coating 419Vitreous coating 419Vitreous coating 419Vitreous coating 419Vitreous coating 419Dray coating 419Dray coating 419Vitreous coating 419Vitreous coating 419Dray | | COMBINED | | |
| Settable inorganic coating (e.g., cement, etc.) during coating (e.g., work, workpiece, etc.) | 402 | | | |
| 404 | | | 427.1 | |
| (e.g., cement, etc.) Metal coating Metal base . Metal base . Cinc coating Morior Synthetic resin coating Morior sozial or projector (e.g., robotic sprayer, etc.) Moving nozzle or projector Material Material Mouse or projector Moving nozzle or projector Moving nozzle or projector Moving nozzle or projector | | | | |
| 405 .Metal base mechanized nozzle or projector (e.g., robotic sprayer, etc.) 407.1 .Synthetic resin coating 427.3 .Moving nozzle or projector 407.2 .Glass base 427.4 .Polymer containing coating material 408 .Mood base 427.5 .Metal base 409 .Metal base 427.6 .Metal base 410Epoxy or polyepoxide containing coating 427.7 .Cryanic compound containing base 411 .Paper base 428.01 .Textile or leather base 428.01 .Cellulose derivative base 412.2Cellulose derivative base 412.3Polyelefin base 412.5Polyester or alkyd resin base 412.5Polyester or alkyd resin base 412.6Polyester or alkyd resin base 428.05Folyester or alkyd r | 403 | | | |
| 405Zinc coating 406Zinc coating 407.1. Synthetic resin coating 407.2Glass base 407.3Fiberglass base 408Wood base 409Metal base 409Epoxy or polyepoxide containing coating 410Epoxy or polyepoxide containing coating 411Paper base 412.1Nonfibrous organic base 412.2Cellulose derivative base 412.3Polyolefin base 412.4Halogen-containing resin base 412.5Polyester or alkyd resin base 413Natural rubber or derivative containing coating 414Autural resin, oil, or fat containing 415Cellulosic coating 416Wax containing coating 417Natural resin, oil, or fat containing 418Metallic compound-containing coating 419.1Vitreous coating 419.2Oxide-containing coating 419.3Superposed diverse oxide coatings 419.4Vitreous coating 419.5Organic compound containing coating 428.00Fibrous organic base 427.6Metal base 427.7Organic compound containing base 428.01Vitreous coating 428.02Single roller applies plural 1ayers of same coating 428.03Roller composed of three or more 1ayers used 428.04Tapered roller used 428.05Fibrous or profector 428.06Fibrous or profector 428.07Fibrous or projector 428.08Fibrous or projector 428.09Organic compound containing ametrial 428.09Fibrous or projector 428.00Fibreal base 427.6Organic compound containing abase 428.01Fibrous organic base 428.02Follours projector 428.03Fibrous or projector 428.03Fibreal base 428.04Fapered roller applies plural 1ayers of same coating 428.05Fibrous or profector 428.06Fibrous or profector 428.07Fapered roller used 428.08Fibrous or profector 428.09Fibrous or profector 428.00Fibrous or profector 428.00Fibrous or profector 428.00Fibrous or profector 428.01Fibrous or profector 428.02Fibrous or profector 428.03Fibrous or profector 428.04Fibrous or profector 428.05Fibrous or profector 428.06Fibrous or profector 428.07Fibrous or profector 428.08 | | | 407.0 | |
| 407.1 .Synthetic resin coating 427.3 .Moving nozzle or projector 407.1 .Synthetic resin coating 427.4 .Polymer containing coating material 427.5 .Moving nozzle or projector 427.5 .Moving nozzle or projector 427.6 .Organic compound containing material 527.5 .Metal base 427.6 .Organic compound containing base 427.6 .Organic compound containing base 627.7 .Organic compound containing base 627.7 .Organic compound containing base 627.7 .Monifibrous organic base 627.1 .Monifibrous organic base 627.1 .Monifibrous organic base 627.1 .Monifibrous organic base 627.2 .Cellulose derivative base 627.3 .Polysefin base 627.3 .Polysefin base 627.4 .Monifibrous organic base 627.4 .Monifibrous organic base 627.5 .Polysefin base 627.5 | | 3 | 427.2 | |
| 407.1 Synthetic resin coating 407.2Glass base 407.3Fiberglass base 408Wood base 409Metal base 409Metal base 409Metal base 409Spoxy or polyepoxide containing coating 410Spoxy or polyepoxide containing coating 411Paper base 412Textile or leather base 412.1Nonfibrous organic base 412.2Cellulose derivative base 412.3Polyolefin base 412.4Balogen-containing resin base 412.5Polyester or alkyd resin base 412.5Polyester or derivative containing coating 414Protein or derivative containing coating (e.g., casein, glue, gelatin, etc.) 415Cellulosic coating 416Wax containing coating 417Natural resin, oil, or fat containing 418Metallic compound-containing coating 419 .1Wetallic compound-containing coating 419 .1Vitreous coating 419 .2Oxide-containing coating 419 .3Superposed diverse oxide coatings 419 .4Vitreous coating 419 .5Organic compound-containing coating 419Vitreous coating 419 .1Deride, carbide, nitride, phosphide, silicide, or sulfide-containing coating 419 .8Organic compound-containing coating 419 .2Oxide-containing coating 419 .9Oxide-containing coating 419 .1Oxide-containing coating 419 .2Oxide-containing coating 419 .1Oxide-containing coating 419 .1Oxide-containing coating 419 .1Oxide-containing coating 419 .1Oxide-containing coating 419 .1 . | | | | |
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| 407.3Fiberglass base 408Wood base 409Metal base 410Epoxy or polyepoxide containing coating 411Paper base 412Textile or leather base 412.1Nonfibrous organic base 412.2Cellulose derivative base 412.3Polyelefin base 412.4Halogen-containing resin base 412.5Polyester or alkyd resin base 413Natural rubber or derivative containing coating 414Protein or derivative containing coating (e.g., casein, glue, gelatin, etc.) 415Cellulosic coating 416Wax containing coating 417Natural resin, oil, or fat containing 418Metallic compound-containing coating 419Oxide-containing coating 419 .1Vitreous coating 419 .2Oxide-containing coating 419 .3Superposed diverse oxide coating 419 .1. Vitreous coating 419 .1. Vitreous coating 419 .1. Suriec, carbide, nitride, phosphide, silicide, or sulfide-containing coating 419 .8Organnetallic or metal salt of organic compound containing coating 428.01Metal base 427.7Metal base 428.02Organic compound containing base 428.02Single roller applies plural layers of same coating 428.03Reller composed of three or more layers used 428.04Tapered roller used 428.05Fibrous or porous surface roller used 428.06Foroved or textured surface roller used 428.07Resilient (e.g., rubber, etc.) surface movement at contact between roller applicators used 428.09Purral roller applicator and base 428.11Opposed, counter, or reverse surface movement at contact between roller applicator and base 428.12And using transfer roller to feed coating material to roller applicator And roller end dams used 428.07Resilient (e.g., rubber, etc.) surface movement at contact between roller applicator and baseIncluding using roller backup support for baseAnd using transfer roller to feed coating material to roller applicator And roller end dams used 428.01And doctor or roller used to distribute coating and roller and dams used | | _ | | |
| 108Wood base 427.5Metal base 427.6Organic compound containing base 427.6Organic compound containing base 627.7Organic compound containing base 628.0Organic compound containing base 629.0Organic compound containing base 629.0Organic compound containing 629.0Organic compound containing 629.0Organic compound containing 629.0Organic coating 629.0Organic compound containing 629.0Organic coating 629.0Organic compound containing 629.0Organic coating 629.0Organic compound containing 629. | | | 427.4 | |
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| 410Epoxy or polyepoxide containing coating 411Paper base 412Textile or leather base 412.1Nonfibrous organic base 412.2Cellulose derivative base 412.3Polyelfin base 412.5Polyester or alkyd resin base 412.6Polyester or alkyd resin base 413Protein or derivative containing coating (e.g., casein, glue, gelatin, etc.) 415Cellulosic coating 416Wax containing coating 417Natural resin, oil, or fat containing coating 418Metallic compound-containing coating 419Superposed diverse oxide coatings 419Superposed diverse oxide coatings 419Vitreous coating 419Vitreous coating 419Superposed diverse oxide coatings 419Vitreous coating 428Including using roller backup support for base 428Including using roller to feed coating material to roller applicator and base 428Including using roller to feed coating material to roller applicator and base 428Including using roller to feed coating material to roller applicator and coating roller | | | | |
| containing coating 427.7 Altilory base 428.01 Altilory approbate containing coating 428.02 Altilory applies base 428.03 Altilory applies plural layers of same coating 428.03 Altilory applies plural layers of same coating material to base 428.03 Altilory applies plural layers of same coating material to base 428.03 Roller composed of three or more layers used Altilor applies plural layers of same coating material to base 428.03 Roller composed of three or more layers used Altilor applies plural layers of same coating material to base 428.03 Roller composed of three or more layers used Altilor applies plural layers of same coating material to base 428.04 Altilor applies plural layers of same coating 428.05 Roller composed of three or more layers used Altilor applies plural layers of same coating 428.05 Roller composed of three or more layers used Altilor applies plural layers of same coating 428.04 Altilor applies plural layers of same coating 428.05 Roller applies plural layers of same coating Roller applies plural layers of same coat | | | 427.6 | _ |
| 411Paper base 412Textile or leather base 412.1Nonfibrous organic base 412.2Cellulose derivative base 412.3Polyolefin base 412.4Halogen-containing resin base 412.5Polyester or alkyd resin base 413Portein or derivative containing coating (e.g., casein, glue, gelatin, etc.) 415Cellulosic coating 416Wax containing coating 417Natural resin, oil, or fat containing coating 418Metallic compound-containing coating 419 .1Vitreous coating 419 .3Superposed diverse oxide coatings 419 .4Vitreous coating 419 .5Organic coating 419 .6Vitreous coating 419 .5Organic coating 419 .6Vitreous coating 419 .5Organic coating 419 .6Vitreous coating 419 .7Sorganic coating 419 .8Organic coating 419 .9Organic coating 419 .1Organic coating 419 .1Organic coating 428 .10Organic coating | 410 | | 127 7 | |
| ### 12 | | | | |
| ### 12.1 Nonfibrous organic base ### 12.2 | | - | 420.01 | |
| 412.2Cellulose derivative base 412.3Polyolefin base 412.4Halogen-containing resin base 412.5Polyester or alkyd resin base 413 | | | 428 02 | |
| 412.3Polyolefin base 412.4Halogen-containing resin base 412.5Polyester or alkyd resin base 413 | | _ | 420.02 | |
| 412.4Halogen-containing resin base 412.5Polyester or alkyd resin base 412.5Polyester or alkyd resin base 413 .Natural rubber or derivative | | | | _ |
| 412.5Polyester or alkyd resin base 413Polyester or alkyd resin base 414Protein or derivative containing coating (e.g., casein, glue, gelatin, etc.) 415Cellulosic coating 428.05Pibrous or porous surface roller used 416Wax containing coating 428.06Pural roller used 417Natural resin, oil, or fat containing coating 428.09Pural roller applicators used coating 428.09Opposed, counter, or reverse surface movement at contact between roller applicator and base 419.1Superposed diverse oxide coatings 419.2Oxide-containing coating 419.3Superposed diverse oxide coatings 419.4Vitreous coating 419.5Organic coating 419.6Vitreous coating 419.7Boride, carbide, phosphide, silicide, or sulfide-containing coating 419.8Organometallic or metal salt of organic compound-containing compound-containing coating 419.8Organometallic or metal salt of organic compound-containing compound-containing compound-containing compound-containing coating 428.11And doctor or roller used to distribute coating material on roller applicator and base 428.12And doctor or roller used to distribute coating material on roller applicator and part of the provided process of the containing coating 428.13And roller end dams used 428.14And doctor or roller used to distribute coating material on roller applicator and part of the containing coating 428.13And roller end dams used 428.14And doctor or roller used 428.06And doctor or roller used to distribute coating material on roller applicator and distribute coating material or roller applicator and d | | | 428.03 | |
| 13 Natural rubber or derivative containing coating (e.g., casein, glue, gelatin, etc.) 416 Natural resin oil, or fat containing coating 417 Natural resin, oil, or fat containing coating 418 Netallic compound-containing coating 419 Netallic compound-containing 428 Netallic compound-containing coating 428 Netallic compound-containing 428 Netallic compound-containing 428 Netallic compound-containing 428 Netallic (e.g., rubber, etc.) 828 Nesilient (e.g.) 828 Nesilient (e.g.) 828 Nesili | | | 120.03 | |
| containing coating 414 | | | 428.04 | |
| Protein or derivative containing coating (e.g., casein, glue, gelatin, etc.) 415 | 413 | | | _ |
| coating (e.g., casein, glue, gelatin, etc.) 415 | 111 | | | - |
| gelatin, etc.) 428.07 Resilient (e.g., rubber, etc.) 416 Wax containing coating 417 Natural resin, oil, or fat containing 428.08 Plural roller applicators used 428.09 Plural roller applicator and base 428.11 Plural roller applicator and base 428.12 Plural roller applicator and base 428.13 Plural roller applicator and base 428.11 Plural roller applicator and base 428.12 Plural roller applicator and base 428.13 Plural roller applicator and base 428.14 Plural roller applicator and base 428.15 Plural roller applicator and base 428.16 Plural roller applicator and base 428.11 Plural roller applicator and base 428.12 Plural roller applicator and base 428.13 Plural roller applicator and base 428.14 Plural roller applicator and base 428.15 Plural roller applicator and base 428.16 Plural roller applicator and base 428.18 Plural roller applicator and base 428.19 Plural roller applicator and base 428.11 Plural roller applicator and base 428.12 Plural roller applicator and base 428.13 Plural roller applicator and base 428.14 Plural roller applicator and base 428.15 Plural roller applicator and base 428.16 Plural roller applicator and base 428.11 Plural roller applicator and base 428.12 Plural roller applicator and base 428.13 Plural roller applicator and base 428.14 Plural roller applicator and base 428.15 Plural roller applicator and base 428.16 Plural roller applicator and base 428.17 Plural roller applicator and base | 414 | | 428.06 | .Grooved or textured surface |
| 415 .Cellulosic coating 416 .Wax containing coating 417 .Natural resin, oil, or fat | | | | roller used |
| 416 Wax containing coating 417 Natural resin, oil, or fat containing 418 Metallic compound-containing coating 419.1 Metallic compound-containing coating 419.2Oxide-containing coating 419.3Superposed diverse oxide coatings 419.4Vitreous coating 419.5Organic coating 419.6Vitreous coating 419.7Boride, carbide, nitride, phosphide, silicide, or sulfide-containing coating 419.8Organometallic or metal salt of organic compound-containing 419.8Organometallic or metal salt of organic compound-containing 419.8Organic coating 419.8Organometallic or metal salt of organic compound-containing 419.8Organometallic or metal salt of organic compound-containing 428.08Plural roller applicators used 428.09Opposed, counter, or reverse surface movement at contact between roller backup support for base 428.11Including using roller backup surface movement at contact between roller applicator and base 428.11And using transfer roller to feed coating material to roller applicator 428.12And doctor or roller used to distribute coating material on roller applicator | 115 | | 428.07 | .Resilient (e.g., rubber, etc.) |
| 417 .Natural resin, oil, or fat containing containing 418Metallic compound-containing coating 419.1 .Metallic compound-containing coating 419.2Oxide-containing coating 419.3Superposed diverse oxide coatings 419.4Vitreous coating 419.5Organic coating 419.6Vitreous coating 419.7Boride, carbide, nitride, phosphide, silicide, or sulfide-containing coating 419.8Organometallic or metal salt of organic compound-containing A19.8Organometallic or metal salt of organic compound-containing A19.8Organometallic or metal salt of organic compound-containing A19.8Metallic compound-containing at 28.09Opposed, counter, or reverse surface movement at contact between roller applicator and base 428.11Including using roller backup support for base 428.11Opposed, counter, or reverse surface movement at contact between roller applicator and base 428.12And using transfer roller to feed coating material to roller applicator 428.13And roller end dams used 428.14And doctor or roller used to distribute coating material on roller applicator | | _ | | |
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| 418Metallic compound-containing coating 419.1 .Metallic compound-containing coating 419.2Oxide-containing coating 419.3Superposed diverse oxide coatings 419.4Vitreous coating 419.5Organic coating 419.6Vitreous coating 419.7Boride, carbide, nitride, phosphide, silicide, or sulfide-containing coating 419.8Organometallic or metal salt of organic compound-containing 419.8Organometallic or metal salt of organic compound-containing 419.8Metallic compound-containing surface movement at contact between roller backup support for base 428.11Including using roller backup support for base 428.11Opposed, counter, or reverse surface movement at contact between roller applicator and base 428.12And using transfer roller to feed coating material to roller applicator 428.13 .And roller end dams used 428.14 .And doctor or roller used to distribute coating material on roller applicator | 417 | | 428.09 | = = |
| coating 419.1 | 418 | _ | | |
| 419.1 Metallic compound-containing coating 419.2Oxide-containing coating 419.3Superposed diverse oxide coatings 419.4Vitreous coating 419.5Organic coating 419.6Vitreous coating 419.7Boride, carbide, nitride, phosphide, silicide, or sulfide-containing coating 419.8Organometallic or metal salt of organic compound-containing 419.8Organometallic or metal salt of organic compound-containing base 428.1Including using roller backup support for base 428.11 .Opposed, counter, or reverse surface movement at contact between roller applicator and base 428.12And using transfer roller to feed coating material to roller applicator 428.13 .And roller end dams used 428.14 .And doctor or roller used to distribute coating material on roller applicator | 110 | | | between roller applicator and |
| coating 419.2Oxide-containing coating 419.3Superposed diverse oxide | 419 1 | _ | | base |
| 419.2Oxide-containing coating 419.3Superposed diverse oxide | 110.1 | | 428.1 | Including using roller backup |
| 419.3Superposed diverse oxide coatings 419.4Vitreous coating 419.5Organic coating 419.6Vitreous coating 419.7Boride, carbide, nitride, phosphide, silicide, or sulfide-containing coating 419.8Organometallic or metal salt of organic compound-containing 428.11 .Opposed, counter, or reverse surface movement at contact between roller applicator and base 428.12And using transfer roller to feed coating material to roller applicator 428.13 .And roller end dams used 428.14 .And doctor or roller used to distribute coating material on roller applicator | 419.2 | 3 | | support for base |
| coatings 419.4Vitreous coating 419.5Organic coating 419.6Vitreous coating 419.7Boride, carbide, nitride, phosphide, silicide, or sulfide-containing coating 419.8Organometallic or metal salt of organic compound-containing 419.8 surface movement at contact between roller applicator and base 428.12And using transfer roller to feed coating material to roller applicator 428.13 .And roller end dams used 428.14 .And doctor or roller used to distribute coating material on roller applicator | | | 428.11 | .Opposed, counter, or reverse |
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| 419.5Organic coating 419.6Vitreous coating 419.7Boride, carbide, nitride, | 419.4 | _ | | |
| 419.6Vitreous coating 419.7Boride, carbide, nitride, phosphide, silicide, or sulfide-containing coating 419.8Organometallic or metal salt of organic compound-containing 428.12And using transfer roller to feed coating material to roller applicator 428.13 .And roller end dams used 428.14 .And doctor or roller used to distribute coating material on roller applicator | | | | |
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| sulfide-containing coating 419.8 .Organometallic or metal salt of organic compound-containing 428.13 .And roller end dams used 428.13 .And doctor or roller used to distribute coating material on roller applicator | | | 100 75 | |
| 419.8Organometallic or metal salt of organic compound-containing 428.14 .And doctor or roller used to distribute coating material on roller applicator | | | | |
| organic compound-containing roller applicator | 419.8 | | 428.14 | |
| roller applicator | | _ | | _ |
| | | coating | | rotter applicator |

| 428.15 | And using transfer roller to | 444 | PRETREATMENT, PER SE, OR POST- |
|--------|--|---|---|
| | feed coating material to roller applicator | | TREATMENT, PER SE (WITHOUT CLAIMED COATING) |
| 428.16 | And guiding base to follow | 445 | MISCELLANEOUS |
| | surface curvature of roller | | |
| | applicator | | |
| 428.17 | Including using roller backup | | |
| | support for base | CROSS- | REFERENCE ART COLLECTIONS |
| 428.18 | .Including using force to supply | | |
| | coating material to roller applicator | 900 | CHEMICAL VAPOR INFILTRATION |
| 428.19 | Through nozzle or projector | 0.01 | (I.E., CVI) |
| 428.2 | .Direct contact of roller | 901 | LIQUID SOURCE CHEMICAL DEPOSTION (I.E., LSCVD) OR AEROSOL |
| | applicator with coating | | CHEMICAL VAPOR DEPOSITION |
| | material supply bath used | | (I.E., ACVD) |
| 428.21 | .Including using roller backup | 903 | FULLERENE TYPE BASE OR COATING |
| | support for base | 902 | DIAMOND-LIKE CARBON COATING |
| 429 | BRUSH OR ABSORBENT APPLICATOR UTILIZED | | (I.E., DLC) |
| 430.1 | IMMERSION OR PARTIAL IMMERSION | 904 | .Utilizing low energy |
| 430.1 | .Molten metal or fused salt bath | | electromagnetic radiation |
| 432 | Inert gas or nonoxidizing | | <pre>(e.g., microwave, radio wave, IR, UV, visible, actinic</pre> |
| | atmosphere utilized | | laser, etc.) |
| 433 | Lead, zinc, or tin coating | 905 | .Utilizing ion plating or ion |
| | (e.g., galvanizing, etc.) | | implantation |
| 434.2 | .Running lengths | 906 | .Utilizing plasma (e.g., corona, |
| 434.3 | Coating applied at surface of bath only | | glow discharge, cold plasma, etc.) |
| 434.4 | Base treated by solid member in | | |
| | <pre>bath (e.g., scraped, squeezed, etc.)</pre> | | |
| 434.5 | <pre>Coating material moved (e.g., agitated, circulated, etc.)</pre> | FOREIGN ART COLLECTIONS | |
| 434.6 | <pre>Cord, thread, yarn, wire, or rod</pre> | FOR 000 CLASS-RELATED FOREIGN DOCUMENTS | |
| 434.7 | Extending through bath- | Any foreign patents or non-patent litera- | |
| | containing wall | ture from subclasses that have been | |
| 435 | .Metal base | reclassified have been transferred | |
| 436 | Metal coating | directly to FOR Collections listed below. | |
| 437 | Chemical compound reducing agent utilized (i.e., | These Collections contain ONLY foreign patents or non-patent literature. The par- | |
| | electroless deposition) | _ | ical references in the Collection |
| 438 | Nickel coating | titles | refer to the abolished subclasses |
| 439 | .Cellulosic base | from wh | nich these Collections were derived. |
| 440 | Wood base | | |
| 441 | Creosote, wax, oil, asphalt, | | |
| | or bitumen containing coating | | |
| 442 | Wax, oil, asphalt, or bitumen | EOD 10 | COATING BY VAPOR, GAS, OR SMOKE |
| 443 | containing coating .Wax, oil, asphalt, or bitumen | FOR 10 | 00 .Carbon or carbide coating (427/ 249) |
| 11J | containing coating | FOR 10 | 249) 11 .Base includes inorganic silicon |
| 443.1 | .Chemical compound reducing agent | _ 01. 10 | or metal containing compound |
| | utilized (i.e., electroless | | (e.g., glass, ceramic, brick, |
| | deposition) | | etc.) (427/255) |
| 443.2 | .Inorganic base | | |

- FOR 102 .Mixture of vapors or gases utilized (427/255.1)
- FOR 103 .. The resultant coating is a mixture or a compound formed from the mixture utilized (427/255.2)
- FOR 104 \dots The mixture utilized contains oxygen (427/255.3)

ELECTRICAL PRODUCT PRODUCED (427/

- FOR 105 .Integrated circuit, printed circuit, or circuit board (427/96)
- FOR 106 ... Coating hole walls (427/97)
- FOR 107 ... Immersion metal plating from solution (e.g., electroless plating, etc.) (427/98)
- FOR 108 .. Vapor deposition (427/99)
- FOR 109 SPRAYING (427/421)
- FOR 110 ROLLER APPLICATOR UTILIZED (E.G., PADDING, ETC.) (427/428)