1 BODY MEMBER PRINTING (E.G., FINGERPRINTING, ETC.)

2.1 MEDICAL OR DENTAL PURPOSE PRODUCT; PARTS; SUBCOMBINATIONS; INTERMEDIATES (E.G., BALLOON CATHETER, SPLINT)

2.11 Analysis, diagnosis, measuring, or testing product (e.g., specimen preparation, microscope slide smearing)

2.12 For contacting living body or transfusing bodily fluid (e.g., endoscope, electrode, thermometer, probe)

2.13 Layer formed contains chemical reagent or chemically reacts with substrate (e.g., cell stain or fix, pH paper, immobilized antigen)

2.14 Particulate or unit-dosage-article base (e.g., tablet, pill, pellet, capsule, liposome, powder, controlled-release implant, suppository; excluding transdermal patch)

2.15 Fluidized bed utilized

2.16 Retarded or controlled-release layer produced (e.g., enteric)

2.17 Significant color or other intended appearance altering layer formed (e.g., shining, indicia)

2.18 En masse rotating means employed (e.g., rotating pan, tumbling)

2.19 Retarded or controlled-release layer produced (e.g., enteric)

2.2 Significant color or other intended appearance altering layer formed (e.g., shining, indicia)

2.21 Retarded or controlled-release layer produced (e.g., enteric)

2.22 Gelatin matrix layer produced

2.23 Significant color or other intended appearance altering layer formed (e.g., shining, indicia)

2.24 Implantable permanent prosthesis (i.e., artificial body member) (e.g., pacemaker, lens, cornea, glaucoma shunt, heart valve, muscle, spinal disc, breast, internal organ)

2.25 Liquid conveying (e.g., vascular, arterial, bile duct, urethra)

2.26 For mineralized body part (e.g., bone, tooth, crown, hip)

2.27 Inorganic oxygen-containing compound containing layer formed (e.g., hydroxyapatite, ceramic, glass)

2.28 Device for creating or holding open an unnatural opening in a membrane or organ (e.g., syringe, scalpel, drainage tube)

2.29 Dental product (e.g., floss, denture, orthodontia wire)

2.3 Fluid barrier or fluid transporting product, other than merely absorbing (e.g., surgical glove, condom, lined diaper, membrane filter, IV tubing, cannula, dialysis membrane, urinary catheter)

2.31 Flexible web, sheet, film, or filament base (e.g., fabric, bandage, suture, transdermal patch, orthopedic cast tape)

4 PLANT MEMBER OR ANIMAL SPECIMEN COATING

5 RADIOACTIVE BASE OR COATING

6 .Particles or nuclear reactor fuel elements coated

7 FRAUD OR TAMPER DETECTING

8 MEASURING, TESTING, OR INDICATING

9 Thickness or uniformity of thickness determined

10 Electrical or optical

11 FRICTIONAL APPLICATION (I.E., RUBBING SOLID COATING MATERIAL ON BASE)

446 SPRAY COATING UTILIZING FLAME OR PLASMA HEAT (E.G., FLAME SPRAYING, ETC.)

447 Organic containing coating

448 Nonuniform or patterned coating

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449 Continuous feed solid coating material (e.g., wire, rod, or filament, etc.)

450 Inorganic carbon containing coating, not as steel (e.g., carbide, etc.)

451 Additionally containing nickel, cobalt, or iron as free metal or alloy

452 Silicon containing coating

453 Metal oxide containing coating

454 Superposed diverse or multilayer similar coatings applied

455 Metal or metal alloy coating

456 Aluminum, nickel, cobalt, or iron metal or alloy containing coating

457 DIRECT APPLICATION OF ELECTRICAL, MAGNETIC, WAVE, OR PARTICULATE ENERGY

458 Electrostatic charge, field, or force utilized

459 Fluidized bed utilized

460 Ionization or corona discharge utilized

461 Heating or fusing applied coating

462 Flock or fiber applied

463 Pile- or nap-type surface formed

464 Heating, drying, or cooling adhesive surface

465 Organic substrate specified (e.g., fabric, etc.)

466 Nonuniform or patterned coating (e.g., ink jet printing, etc.)

467 Edging or striping

468 Mask or stencil utilized

469 Coating material consists of charged particles (e.g., paint, pigment, dye, etc.)

470 Superposed diverse or multilayer similar coatings applied

471 Applying coatings to opposite sides of a substrate (excluding processes where all coating is by immersion)

472 Positioning, orientation, or application of nonsprayed, nonatomized coating material solely by electrostatic charge, field, or force
Gloss control (e.g., light scattering, etc.)

Polymerization involving the control of oxygen containing gas as an inhibitor (e.g., air, etc.)

High energy electromagnetic radiation or high energy particles utilized (e.g., gamma rays, X-rays, atomic particles, i.e., alpha rays, beta rays, electrons, etc.)

Vapor deposition utilized

Immersion, partial immersion, spraying, or spin coating utilized (e.g., dipping, etc.)

Natural cellulose substrate

Coating material includes colorant or pigment

Textile, fiber, or wire coated or impregnated

Magnetic recording medium formed

Organosilicon containing coating material

Nonuniform or patterned coating (e.g., mask, printing, etc.)

Coating is adhesive or intended to be made adhesive (e.g., release sheet or coating, etc.)

Benzene ring or nitrogen containing coating material

Radiation as heat source (e.g., radiant energy, etc.)

Resistance or induction heat-initiated polymerization

Ion plating or implantation

With simultaneous sputter etching of substrate

Organic material present in substrate, plating, or implanted layer

Nonuniform or patterned ion plating or ion implanting (e.g., mask, etc.)

Silicon present in substrate, plating, or implanted layer

Inorganic oxide containing plating or implanted material

Inorganic metal compound present in plating or implanted material (e.g., nitrides, carbides, borides, etc.)

Metal or metal alloy substrate

Metal or metal alloy plating or implanted material

Pretreatment of substrate or post-treatment of coated substrate

Ionized gas utilized (e.g., electrically powered source, corona discharge, plasma, glow discharge, etc.)

Cleaning or removing part of substrate (e.g., etching with plasma, glow discharge, etc.)

Plasma (e.g., cold plasma, corona, glow discharge, etc.)

Organic substrate

Metal containing coating

Textile or fiber coated or impregnated
..Oxygen containing atmosphere
..Arc or electrical discharge
..Drying
...Infrared or radiant heating
...Induction or dielectric heating
...Organic coating containing material
..Resistance heating
...Metal or metal alloy containing coating
...Magnetic field or force utilized
...Magnetic recording medium or device formed
....Running length substrate
...Magnetizable powder, flakes, or particles utilized
...High energy electromagnetic radiation or high energy particles utilized (e.g., gamma ray, X-ray, atomic particle, i.e., alpha ray, beta ray, high energy electron, etc.)
...Nonuniform or patterned coating
...Low energy electromagnetic radiation (e.g., microwave, radio wave, IR, UV, visible, actinic, laser, etc.)
...Laser
...Nonuniform or patterned coating
.....Metal or metal alloy substrate
...Thermal processes (e.g., radiant heat, infrared, etc.)
....Ultraviolet light
....Fusing, curing, or annealing (e.g., ceramics, etc.)
...Sonic or ultrasonic (e.g., cleaning or removing material from substrate, etc.)
.Pretreatment of coating supply or source outside of primary deposition zone or off site
...Electric discharge (e.g., corona, glow discharge, etc.)
...Silicon containing coating material
...Metal, metal alloy, or metal oxide containing coating material
...Sonic or ultrasonic (e.g., vibratory energy, etc.)
Electromagnetic or particulate radiation utilized (e.g., IR, UV, X-ray, gamma ray, actinic, microwave, radio wave, atomic particle; i.e., alpha ray, beta ray, electron, etc.)

Laser or electron beam (e.g., heat source, etc.)

Metal or metal alloy containing coating material applied

Magnetic field or force utilized

Magnetic recording medium or device formed

Sonic or ultrasonic

Immersion bath utilized

ELECTRICAL PRODUCT PRODUCED

Welding electrode

Post-treating with solid treating member

Metal coating or Group IIA metallic compound containing coating

Superconductor

Nonuniform coating

Fluorescent or phosphorescent base coating (e.g., cathode-ray tube, luminescent screen, etc.)

X-radiation properties

Electroluminescent lamp

Fluorescent lamp

Multicolor or mosaic (e.g., color T.V. tube, etc.)

Vapor deposition

Nonmetallic coating formed by vapor deposition

Particles applied

Rotating the base

Settling out of liquid

Photoelectric

Mosaic or nonuniform coating

Coating is selenium, tellurium, or compound thereof

Electron emissive or suppressive (excluding electrode for arc)

Vapor deposition or spraying

Condenser or capacitor

Electrolytic or barrier layer type

Vacuum or pressure utilized

Integrated circuit, printed circuit, or circuit board

Protective coating (e.g., encapsulating, etc.)

Electromagnetic wave energy shield (e.g., electromagnetic wave shield (EWS), etc.)

Conformal (e.g., thin film <.02mm thick, etc.)

Mechanical shock, stress, or physical damage absorbing or shielding (e.g., scratch or puncture-resistant coating, etc.)

Barrier to diffusion of specific fluid (e.g., silicone rubber, selectively permeable membrane which excludes water or moisture, etc.)

Using mist or aerosol

Vapor or gas deposition

Front and back of substrate coated (excluding processes where all coating is by immersion)

Multilayer

Coating hole wall

Nonuniform or patterned coating

With posttreatment of coating or coating material

Polymer deposited

With posttreatment of coating or coating material

Coating hole wall

With pretreatment of substrate

Immersion metal plating from solution (e.g., electroless plating, etc.)

Activating or catalyst pretreatment

With posttreatment of coating or coating material

Heating (e.g., curing, etc.)

Nonuniform or patterned coating

With pretreatment of substrate

Swelling

Etching or roughening

Heating

Activating or catalyst pretreatment

With posttreatment of coating or coating material

Planarization

Polymer deposited

Immersion metal plating from solution (e.g., electroless plating, etc.)
Piezoelectric properties
Resistor for current control (excludes heating element)
Nonuniform coating
Applying superposed diverse coatings or coating a coated base
Motor stator or core for winding
Hollow article
Glass (e.g., light bulb, etc.)
Vapor deposition
Transparent base
Vapor deposition
Spraying
Filament for lamp or tube
Carbon filament
Carbon base
Fuel cell part
Coil or winding
Wire conductor
Applying superposed coatings or coating a coated base
Foam, cellular, or natural rubber coating
Heat utilized
Cellulosic or fibrous base (e.g., wood, paper, etc.)
Carbon coating
Metal coating
Vapor deposition or utilizing vacuum
Silver, gold, platinum, or palladium
Metallic compound coating
Glass or ceramic base or coating
Metal oxide, peroxide, or hydroxide coating
...Metal is Al
...Metal is Au, Ag, Pt, Pd, Ru, Rh, Os, Ir
Magnetic base or coating
Magnetic coating
With pretreatment of base
With post-treatment of coating or coating material
Applying superposed diverse coating or coating a coated base
Metal coating
Mold coating
Sand mold
Metal mold
Coating pavement or the earth (e.g., roadmaking, etc.)
Striping, marking, or increasing reflectivity
Asphalt, bitumen, oil, or tar containing coating
Rolling
Restoring or repairing
Stencil blank making
Lithographic or copying surface making
Latent image formed or developed
Transfer or copy sheet making
Decal or embossing foil type (i.e., continuous film transfers)
Heat sensitive
Fluid releasable
Reactive components
Heterocyclic organic compound component
Coating opposite sides or forming plural or nonuniform coats
Carbon paper type
Removable protective coating applied
Organic base
Metal base
Fluorescent or phosphorescent coating
Optical brightening
Incandescent mantle produced
Coating has X-ray, ultraviolet, or infrared properties
Transparency or translucency increased (e.g., making window envelopes, etc.)
Optical element produced
Polarizer, windshield, optical fiber, projection screen, or retroreflector
Optical fiber, rod, filament, or waveguide
Projection screen
Retroreflector (e.g., light reflecting small spherical beads, etc.)
Transparent base
Glass
Vapor depositing
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167 ... Silicon compound coating (e.g., quartz, etc.)
168 ... Spraying
169 ... Immersion
170 DELUSTERING FABRIC OR YARN WITH STRETCHING OR TENSIONING
171 ... Running lengths
172 ... Lateral stretching
173 ... Particles or fibers applied
174 ... Cord, thread, yarn, or wire
175 ... Textile fabric
176 WITH WINDING, BALLING, ROLLING, OR COILING
177 ... Metal or glass base (e.g., wire, etc.)
178 ... Paper or felt base
179 SOLID PARTICLES OR FIBERS APPLIED
180 ... Interior or hollow article coating
181 ... Fluidized bed utilized
182 ... Rotating the base
183 ... Nonuniform speed or nonrectilinear base motion
184 ... Fluidized bed utilized
185 ... Roofing produced
186 ... With cutting
187 ... Localized different areas produced
188 ... Uniting particles to form continuous coating with nondiscernible particles
189 ... Metallic compound particles
190 ... Metal particles
191 ... Aluminum, copper, or zinc particles
192 ... Vitrifiable particles
193 ... Roller utilized
194 ... Synthetic resin particles
195 ... Plural direction application of coating materials or simultaneously applying particles and binder from different sources
196 ... Localized different areas produced (e.g., printing, etc.)
197 ... Deforming the base or coating or removing part of the coating
198 ... Silicon compound, metal, or metallic compound containing particles applied
199 ... Flock or fibers applied
200 ... Plural particulate materials applied
201 ... Applying superposed diverse coatings or coating a coated base
202 ... Coating over the applied coating of particles
203 ... Silicon compound containing particles (e.g., sand, etc.)
204 ... Metal or metallic compound containing particles
205 ... Flock or fibers applied
206 ... COATING REMAINS ADHESIVE OR IS INTENDED TO BE MADE ADHESIVE
207 ... Application to opposite sides of base
208 ... Heat sensitive adhesive
209 ... Pressure sensitive adhesive
210 ... Nonuniform coating (e.g., perforated, etc.)
211 ... Applying superposed diverse coatings or coating a coated base
212 APPLICATION TO OPPOSITE SIDES OF SHEET, WEB, OR STRIP (EXCLUDING PROCESSES WHERE ALL COATING IS BY IMMERSION)
213 ... Fluidized bed utilized
214 ... Solid encapsulation process utilizing an emulsion or dispersion to form a solid-walled microcapsule (includes liposome)
215 ... With post-treatment of encapsulant or encapsulating material (e.g., further coating, hardening, etc.)
216 ... Hardening
217 ... Using crosslinking agent
218 ... Solid-walled microcapsule formed by in situ polymerization
219 ... Solid-walled microcapsule formed from gelatin or derivative thereof
220 ... Solid-walled microcapsule formed from preformed synthetic polymer
221 ... Applying superposed diverse coatings or coating a coated base
222 ... Inorganic base
223 ... Metal base

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119.1 Metal coating
119.1 Pigment containing coating
119.1 Silicon compound containing coating
119.1 Organic coating
119.1 Resin, rubber, or hardenable oil containing coating
119.2 Resin base

FLAME CONTACT
119.2 After coating
119.2 Metal coating

HEAT DECOMPOSITION OF APPLIED COATING OR BASE MATERIAL
119.2 Base material decomposed or carbonized
119.2 Coating decomposed to form carbide or coating carbonized
119.2 Coating decomposed to form metal

INTERIOR OF HOLLOW ARTICLE COATING
119.2 Rotating the article
119.2 Removing excess coating material
119.2 Spraying
119.2 Metal base
119.2 Removing excess coating material
119.2 Spraying
119.2 Coating by vapor, gas, mist, or smoke
119.2 Vacuum or pressure utilized
119.2 Metal base

CENTRIFUGAL FORCE UTILIZED
119.2 Metal coating

RUMBLING OR TUMBLING
119.2 Foraminous product produced
119.2 Filter, sponge, or foam
119.2 Microporous coating (e.g., vapor permeable, etc.)
119.2 Coagulating or jelling the coating
119.2 Metal base

COATING BY VAPOR, GAS, OR SMOKE
119.2 Carbon or carbide coating
119.2 Chemical vapor infiltration (i.e., CVI) of porous base (e.g., fiber, fibrous web, etc.)
119.2 Fiber or fibrous web or sheet base (e.g., strand, filament, fabric, cloth, etc.)
119.2 Inorganic carbon base (e.g., graphite, etc.)
119.2 Boron and carbon containing coating (e.g., boron carbide, etc.)

Graphite coating
Diamond-like carbon coating (i.e., DLC)
Diamond coating
Patterned or non-uniform coating
Hot filament utilized
Diamond seed crystals utilized
Tungsten containing base
Superposed coatings (i.e., layered)
Silicon and carbon containing coating (e.g., silicon carbide, etc.)
Inorganic carbon base (e.g., graphite, etc.)
Metal carbide containing coating
Chromium (Cr), molybdenum (Mo), or tungsten (W) metal carbide containing coating
Titanium (Ti), zirconium (Zr), or hafnium (Hf) metal carbide containing coating
Metal coating
Moving the base
By decomposing metallic compound (e.g., pack process, etc.)
Halogen containing compound
Wood base
Chemical vapor infiltration (i.e., CVI) of porous base (e.g., fiber, fibrous web etc.)
Glaze coating produced
Organic compound containing coating
Plural coatings applied utilizing vapor, gas, or smoke
Silicon containing coating
Halogen containing coating, reactant, or precursor
Metal oxide containing coating
Base includes inorganic metal containing compound
Iron compound containing base (e.g., ferric oxide, etc.)
255.23 .Mixture of vapors or gases
(e.g., deposition gas and
inert gas, inert gas and
reactive gas, two or more
reactive gases, etc.) utilized
255.24 .Fiber or fibrous web or sheet
based (e.g., strand, filament,
fabric, cloth, etc.)
255.25 .Mixture contains liquid or
solid particulate suspension
255.26 .Coating formed by reaction of
vaporous or gaseous mixture
with a base (i.e., reactive
coating of non-metal base)
255.27 .Silicon containing coating
255.28 .Coating formed from vaporous or
gaseous phase reaction mixture
(e.g., chemical vapor
deposition, CVD, etc.)
255.29 .Inorganic oxygen, sulfur,
selenium, or tellurium (i.e.,
chalcogen) containing coating
(e.g., phosphosilicate,
silicon oxynitride, etc.)
255.31 .Metal and chalcogen
containing coating (e.g.,
metal oxide, metal sulfide,
metal telluride, etc.)
255.32 .Plural metal containing
coating (e.g., indium oxide/
tin oxide, titanium oxide/
aluminum oxide, etc.)
255.33 .Zinc (Zn), cadmium (Cd), or
mercury (Hg), containing
255.34 .Gallium (Ga), aluminum (Al),
or indium (In) containing
255.35 .Germanium (Ge), tin (Sn), or
lead (Pb) containing
255.36 .Titanium (Ti) or zirconium
(Zr) containing
255.37 .Silicon dioxide coating
255.38 .Phosphorus or boron containing
coating (e.g., aluminum
boride, boron phosphide etc.)
255.39 .Halogen or halogen compound
containing reactant
255.391 .Titanium compound containing
coating (e.g., titanium
carbonitride, titanium
nitride, etc.)
255.392 .Tungsten compound containing
coating (e.g., tungsten
silicide, etc.)
255.393 .Silicon containing coating
255.394 .Nitrogen containing coating
(e.g., metal nitride, etc.)
255.395 .Inorganic coating
255.4 .Base supplied constituent
255.5 .Moving the base
255.6 .Organic coating applied by
vapor, gas, or smoke
255.7 .Plural coatings applied by
vapor, gas, or smoke

NONUNIFORM COATING
256  .Wrinkled or crackled coating
257  .Applying superposed diverse
coatings or coating a coated base
258  .Including a masking coating
259  .Handheld brush or absorbent
applicator utilized
260  .Final coating nonuniform
261  .Variegated surface produced
(e.g., mottled, stippled, wood
gained, etc.)
262  .Marbleized
263  .Deforming the base or coating or
removing a portion of the coating
264  .Plural nonuniform coatings
265  .Glass or ceramic base
266  .Variegated surface produced
(e.g., mottled, stippled, wood
gained, etc.)
267  .Marbleized
268  .Deforming the base or coating or
removing a portion of the coating
269  .Glass or ceramic base
270  .Deforming the base or coating or
removing a portion of the coating
271  .Mask or stencil utilized
272  .Fluid treating the coating
(e.g., vapor treating, etc.)
273  .Variegated surface produced
(e.g., stippled, marbleized,
mottled, wood gained, etc.)
274  .Deforming the base
275  .Simultaneously deforming the coating
276  .Solid treating member contacts
coating
277  .Roller treating member
278  .Vitreous coating
279  .Variegated surface produced
(e.g., mottled, wood gained, etc.)
280  .Marbleized
281  .Mask or stencil utilized

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Crystalization or precipitation coating

Edge or border coating

Paper or textile base

Striping (i.e., forming stripes)

Metal, glass, or ceramic base

Paper or textile base

WITH CUTTING, HOLDING, SEVERING, OR ABRADING THE BASE

Prior to coating

Wood base (e.g., injecting, etc.)

INORGANIC BASE

Rectilinear cutting to length

VACUUM UTILIZED PRIOR TO OR DURING COATING

Metal base

Organic base

Wood base

Creosote, wax, oil, asphalt, or bitumen coating

CELLULOSIC BASE

WITH PRETREATMENT OF THE BASE

Shielding or spacing

Preapplied reactant or reaction promoter or hardener (e.g., catalyst, etc.)

Resin, rubber, or hardenable oil containing coating

...Cellulosic base

...Metal coating (e.g., electroless deposition, etc.)

...Nickel, copper, cobalt, or chromium coating

...Organic base

...Etching, swelling, or dissolving out part of the base

...Cellulosic base

...Inorganic base

Fluxing

...Supernatant flux (floating)

...Lead or tin coating

...Lead or tin coating

...Heating or drying pretreatment

...Steam utilized

...Organic base

...Wood base

...Metal base

...Metal coating

...Aluminum coating

...Zinc or spelter coating (e.g., galvanizing, etc.)

...Organic base

...Natural protein containing base (e.g., silk, wool, leather, etc.)

...Cellulosic base

...Wood base

...Paper base

...Metal base

...Metal coating

...Molten metal bath utilized

...Vitreous coating

...Deodorizing

...Plural film forming coatings wherein one coating contains a chemical treating agent for the other

...Oil or wax treatment of coating

...Solvent vapor treatment of coating

...Swelling agent or solvent applied to treat coating

...Chemical agent applied to treat coating

...Proteinaceous coating

...Cellulosic coating

...Resin, resin precursor, rubber, or hardenable oil containing coating

...Inorganic treating agent

...Textile or cellulosic base

...Inorganic coating

...Silicon compound containing coating

...Coating material recirculation or regeneration

...Movement of work treats coating (e.g., vibrating, tilting, etc.)

...Metal coating

...Gas jet or blast mechanically treats coating

...Metal coating

...Metal coating

...Vacuum or reduced pressure utilized

...Wood base

...Liquid extraction of coating constituent or cleaning coating

...With water

...Drying subsequent to washing

...Solid treating member or material contacts coating

...Die, blade, or sharp-edged tool

...Metal coating

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...Organic coating
...Roller, drum, or cylinder
...Metal coating
...Paper base (e.g., calendering, etc.)
....Cast coating
....Wax or oil containing coating
....Casein or starch containing coating
....Treating between rollers (e.g., calendering, etc.)
....With heating (e.g., heated roller, etc.)
...Metal coating
...Brushing
...Pressure treatment of coating (e.g., squeezing, etc.)
...With heating (e.g., hot ironing, etc.)
...Organic base
...Heating or drying (e.g., polymerizing, vulcanizing, curing, etc.)
...Cells, foam, or bubbles formed
...And cooling
...Heating after cooling
....Without intervening coating step
...Fused or molten coating cooled
....Liquid or solid cooling medium
....Vacuum, vapor, or gas other than air utilized
....Vitreous or glazed coating
...Fusion or softening of coating
...Inorganic coating
....Metal oxide- or silicon-containing coating (e.g., glazed, vitreous enamel, etc.)
....Metal-containing coating (e.g., cermet, etc.)
...Metal base
...Ferrous base
...Metal-containing coating
...Coating consists of metal
...Metal base
...Modified condition of atmosphere (e.g., steam, air movement, etc.)
...Movement of atmosphere
...Plural heating or drying steps
...Metal or metallic compound containing coating
...Textile or cellulosic base
...Paper or natural cellulose base
...Metal coating
...Inorganic base
....Fused oxide-containing base (e.g., ceramic, glass, etc.)
....Metal base
...Organic coating
...Resin, resin precursor, rubber, or hardenable oil-containing coating
...Epoxy or polyepoxide containing coating
....Silicon compound containing coating
...Metal base
...Cross-linked or infusible coating
...Aldehyde-containing precursor
...Water-containing coating (i.e., aqueous dispersion, emulsion, or solution)
....Nonaqueous dispersion
...Proteinaceous base (e.g., wool, leather, etc.)
...Glass base
...Fiberglass base
...Textile or cellulose base
...Paper base
...Natural cellulose base
...Wood base
....Antistatic properties increased
...Wrinkle resistance of crease holding properties increased
...Flame resistance increased
...Antisoiling or water repellency increased
....Resin, rubber, or elastomer base
....Asbestos, ceramic, concrete, or masonry base
...Textile or cellulosic base
...Paper base
...Natural cellulose base
...Wood base
...Inorganic silicon-containing coating
...Alkali silicate
...Cooling
...Utilizing solid member contacting base or coating (e.g., cooling roller, etc.)
398.3 . Liquid utilized (e.g., quenching, spraying, etc.)
398.4 . Vacuum, vapor, or gas other than air utilized
398.5 . Movement of atmosphere
399 BASE SUPPLIED CONSTITUENT
400 . Resin or rubber base
401 COMBINED
402 APPLYING SUPERPOSED DIVERSE COATING OR COATING A COATED BASE
403 . Settable inorganic coating (e.g., cement, etc.)
404 . Metal coating
405 . Metal base
406 . Zinc coating
407.1 . Synthetic resin coating
407.2 . Glass base
407.3 . Fiberglass base
408 . Wood base
409 . Metal base
410 . Epoxy or polyepoxide containing coating
411 . Paper base
412 . Textile or leather base
412.1 . Nonfibrous organic base
412.2 . Cellulose derivative base
412.3 . Polyolefin base
412.4 . Halogen-containing resin base
412.5 . Polyester or alkyd resin base
413 . Natural rubber or derivative containing coating
414 . Protein or derivative containing coating (e.g., casein, glue, gelatin, etc.)
415 . Cellulosic coating
416 . Wax containing coating
417 . Natural resin, oil, or fat containing coating
418 . Metallic compound-containing coating
419.1 . Metallic compound-containing coating
419.2 . Oxide-containing coating
419.3 . Superposed diverse oxide coatings
419.4 . Vitreous coating
419.5 . Organic coating
419.6 . Vitreous coating
419.7 . Boride, carbide, nitride, phosphide, silicide, or sulfide-containing coating
419.8 . Organometallic or metal salt of organic compound-containing coating
420 FALLING CURTAIN OF COATING MATERIAL UTILIZED (I.E., CURTAIN COATING)
420.1 SPRAYING
422 . Heated coating material
424 . Moving the base
425 . Rotating or inverting
426 . Ingredients supplied separately
427 . Inorganic coating material
427.1 . Using nozzle or projector supported or guided by base (e.g., work, workpiece, etc.) during coating
427.2 . With programmed control or using mechanized nozzle or projector (e.g., robotic sprayer, etc.)
427.3 . Moving nozzle or projector
427.4 . Polymer containing coating material
427.5 . Metal base
427.6 . Organic compound containing base
427.7 . Organic compound containing base
428.01 ROLLER APPLICATOR UTILIZED (E.G., PADDING, ETC.)
428.02 . Single roller applies plural layers of same coating material to base
428.03 . Roller composed of three or more layers used
428.04 . Tapered roller used
428.05 . Fibrous or porous surface roller used
428.06 . Grooved or textured surface roller used
428.07 . Resilient (e.g., rubber, etc.) surface roller used
428.08 . Plural roller applicators used
428.09 . Opposed, counter, or reverse surface movement at contact between roller applicator and base
428.1 . Including using roller backup support for base
428.11 . Opposed, counter, or reverse surface movement at contact between roller applicator and base
428.12 . And 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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428.15  .And using transfer roller to feed coating material to roller applicator
428.16  .And guiding base to follow surface curvature of roller applicator
428.17  .Including using roller backup support for base
428.18  .Including using force to supply coating material to roller applicator
428.19  .Through nozzle or projector
428.2   .Direct contact of roller applicator with coating material supply bath used
428.21  .Including using roller backup support for base

429  BRUSH OR ABSORBENT APPLICATOR UTILIZED

430.1  IMMERSION OR PARTIAL IMMERSION
431    .Molten metal or fused salt bath
432    ..Inert gas or nonoxidizing atmosphere utilized
433    ..Lead, zinc, or tin coating (e.g., galvanizing, etc.)
434.2  .Running lengths
434.3  .Coating applied at surface of bath only
434.4  .Base treated by solid member in bath (e.g., scraped, squeezed, etc.)
434.5  .Coating material moved (e.g., agitated, circulated, etc.)
434.6  .Cord, thread, yarn, wire, or rod
434.7  ...Extending through bath-containing wall
435    .Metal base
436    .Metal coating
437    ...Chemical compound reducing agent utilized (i.e., electroless deposition)
438    ....Nickel coating
439    .Cellulosic base
440    .Wood base
441    ...Creosote, wax, oil, asphalt, or bitumen containing coating
442    ..Wax, oil, asphalt, or bitumen containing coating
443    .Wax, oil, asphalt, or bitumen containing coating
443.1  .Chemical compound reducing agent utilized (i.e., electroless deposition)
443.2  .Inorganic base

444  PRETREATMENT, PER SE, OR POST-TREATMENT, PER SE (WITHOUT CLAIMED COATING)

445  MISCELLANEOUS

CROSS-REFERENCE ART COLLECTIONS

900  CHEMICAL VAPOR INFILTRATION (I.E., CVI)
901  LIQUID SOURCE CHEMICAL DEPOSITION (I.E., LSCVD) OR AEROSOL CHEMICAL VAPOR DEPOSITION (I.E., ACVD)
902  DIAMOND-LIKE CARBON COATING (I.E., DLC)
903  FULLERENE TYPE BASE OR COATING
904  .Utilizing low energy electromagnetic radiation (e.g., microwave, radio wave, IR, UV, visible, actinic laser, etc.)
905  .Utilizing ion plating or ion implantation
906  .Utilizing plasma (e.g., corona, glow discharge, cold plasma, etc.)

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

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

COATING BY VAPOR, GAS, OR SMOKE

FOR 100  .Carbon or carbide coating (427/249)
FOR 101  .Base includes inorganic silicon or metal containing compound (e.g., glass, ceramic, brick, etc.) (427/255)

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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 ...The mixture utilized contains oxygen (427/255.3)

ELECTRICAL PRODUCT PRODUCED (427/58)

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)