

1.1	LIQUID CRYSTAL OPTICAL DISPLAY HAVING LAYER OF SPECIFIED COMPOSITION	13	DISPLAY IN FRAME OR TRANSPARENT CASING; OR DIORAMA INCLUDING OR IMITATIVE OF A REAL OBJECT
1.2	.Alignment layer of specified composition	14	.Peripheral enclosure or frame
1.21	..Alignment layer is inorganic	15	THREE DIMENSION IMITATION OR "TREATED" NATURAL PRODUCT
1.23	..Silicon compound (i.e., organosilicon)	16	.Fauna
1.25	..Polyamide	17	.Flora
1.26	..Polyimide	18	..Tree
1.27	...Polyimidfluoride	19	...With article holder or ornament
1.28	...Polyimidmetalo	20	...Knockdown
1.3	.With viewing layer of specified composition	21	..Artificial fruit or garnishing leaf display strip
1.31	..Polarizer or dye containing viewing layer	22	..Including naturally occurring article
1.32	..Silicon compound (e.g., glass, organosilicon, etc.)	23	..Cluster or with holder
1.33	..Ester (e.g., polycarbonate, polyacrylate, etc.)	24	..Flower or flower petal
1.4	.With charge transferring layer of specified composition	25	...Of filamentary or filamentary- openwork type
1.5	.With bonding or intermediate layer of specified composition (e.g., sealant, space, etc.)	26	...Of cloth, paper, or chemically plastic matter
1.51	..Inorganic layer	27	..Framework with or therefor
1.52	..Silicon compound (i.e., organosilicon)	28	FINIAL OR PENDANT TYPE ARTICLE
1.53	..Epoxy	29	ARTICLE HAVING LATENT IMAGE OR TRANSFORMATION
1.54	..Ester	30	.Striated for iridescence
1.55	..Unsaturated aliphatic polymer (e.g., vinyl, etc.)	31	VEHICLE BODY ORNAMENT
1.6	.With substrate layer of specified composition	800	MAGNETIC RECORDING COMPONENT OR STOCK
1.61	..Releasable substrate layer to expose adhesive	810	.Magnetic head
1.62	..Inorganic substrate layer (e.g., ceramic, metallic, glass, etc.)	811	..Magnetoresistive
3	RELIGIOUS ARTIFACT (E.G., CRUCIFORM, ETC.)	811.1	...Having tunnel junction effect
4	BOW, POMPOM OR ROSETTE	811.2	...Multilayer
5	.Looped type	811.3	....Super lattice (e.g., giant magneto resistance (GMR) or colossal magneto resistance (CMR), etc.)
6	PLUME	811.4	...Single film
7	SPECIAL OCCASION ORNAMENT	811.5	...With defined structural feature
8	.Knockdown	812	..Magnetic layer composition
9	.Collapsible	813	..Substrate composition
10	.Wreath type	814	..With protective film
11	.Ball, bell, or star-shaped	815	..With defined laminate structural detail
12	COLLAPSIBLE ARTICLE (E.G., JOINTED, ELASTIC, ETC.)	815.1	...Head with slider structure
		815.2	...With head pole component
		816	..With interlaminar component (e.g., adhesion layer, etc.)
		817	.Magneto-optical media stock

- 818 ..Multiple magnetic layers, at least one of which is magneto-optic
- 819 ...Unit structure (i.e., three or more differing magnetic layers in series)
- 819.1Reoccurring unit structure
- 819.2Only three adjacent magnetic layers form series
- 819.3Only four or six adjacent magnetic layers form series
- 819.4Magnetic layers and at least one intervening nonmagnetic layer (e.g., antiferromagnetic, dielectric, etc.)
- 820 ...Only two magnetic layers, at least one of which is magneto-optic
- 820.1Magnetic layer pairs separated by single nonmagnetic (e.g., antiferromagnetic, dielectric, etc.) layer
- 820.2Adjacent magnetic layers
- 820.3Having in-plane orientated magnetization
- 820.4Magnetic layer composition specified
- 820.5Specified performance related property (e.g., Kerr rotation, etc.)
- 820.6Curie temperature
- 821 ..Single magneto-optic magnetic layer
- 822 ..Magneto-optic magnetic layer contains transition metal
- 822.1Magnetic transition metal oxide in magneto-optic layer
- 822.2Having garnet crystal structure
- 822.3Rare-earth or lanthanum series element with iron or cobalt or nickel
- 822.4With other element(s) other than rare-earth or lanthanum series element and iron, cobalt, or nickel
- 822.5Rare-earth or lanthanum series element contained in separate lattice phase (e.g., scandium or yttrium in separate phase from FeCoNi, etc.)
- 823 ...With nonmagnetic metal (e.g., antiferromagnetic metal layer, Cu layer, etc.)
- 823.1 ...Metal reflecting layer (e.g., reflecting polarized beam, etc.)
- 823.2Al-, Ag-, Au-, or Cu-base reflecting layer
- 824 ...With dielectric layer (e.g., SiO, AlN, ZnS, MgF₂, etc.)
- 824.1 ...Plural dielectric layers or sections
- 824.2 ...Plural compounds in single dielectric layer (e.g., mixed layer of TiN and TiC, etc.)
- 824.3 ...Dielectric layer having chalcogen (i.e., O, S, Se, or Te) compound
- 824.4 ...Dielectric layer having nitride or carbide compound (e.g., TiN, TiC, etc.)
- 824.5 ...Dielectric layer having refractive index specified
- 825 ...With topcoat
- 825.1 ...Lubricant
- 826 .Thin film media
- 827 ..Multiple magnetic layers
- 828 ...Magnetic layers separated by nonmagnetic (antiferromagnetic, Cu, dielectric, etc.) layer(s)
- 828.1 ...Three or more magnetic layers on one substrate side
- 829 ...Differing compositions in plurality of magnetic layers (e.g., layer compositions having differing elemental components, different proportions of elements, etc.)
- 830 ...Plural magnetic layers of same empirical composition, each with different structure (e.g., differing crystalline lattice, atomic structure, etc.)
- 831 ..Single magnetic layer having two or more nonmagnetic underlayers (e.g., seed layers, barrier layers, etc.)
- 831.1 ...Including NiP underlayer
- 831.2 ...Specified physical structure of underlayer (e.g., texture, etc.)

832	..Single magnetic layer and single underlayer	839.3	....Chemically specified magnetic material
832.1	...Co or Co-base magnetic layer	839.4	....Chemically specified binder
832.2	....Cr or Cr-base underlayer	839.5	....With chemically identified adjuvant
832.3	...Ni or Ni-base underlayer	839.6	....Specified property (e.g., density, Tg, etc.)
832.4	...Polymeric underlayer (e.g., polymeric adhesion layer, plasma polymerized carbon, etc.)	840	..Single magnetic layer with underlayer
833	..Single magnetic layer with plural overcoat layers	840.1	...Underlayer composition or structure
833.1	...Inorganic overcoat layer	840.2	...Nonmagnetic particles in underlayer (e.g., Al ₂ O ₃ particles, etc.)
833.2	....Carbon overcoat (e.g., graphite, diamond like, doped carbon, etc.)	840.3	....Carbon black particles
833.3	.....With lubricant over carbon layer	840.4	...Lubricant in underlayer (e.g., perfluoether, etc.)
833.4	.....Plural lubricant layers over carbon layer	840.5	...Chemically identified underlayer binder
833.5	.....Having elemental nitrogen in carbon layer	840.6	..Magnetic layer chemical composition
833.6	.....With lubricant	841	..Single magnetic layer with overcoat
834	..Single magnetic layer with single specified overcoat layer	841.1	...Two overcoat layers
835	...Carbon overcoat (e.g., graphite, diamond like, doped carbon, etc.)	841.2	...Chemical composition of overcoat specified
835.1	....Sputter-formed carbon overcoat	841.3	...Lubricant in overcoat layer
835.2	....Plasma-formed carbon overcoat	842	..Single magnetic layer
835.3	....Fullerene carbon	842.1	...Having chemically specified magnetic particles (e.g., FeCo, CoNiPt, etc.)
835.4	....Containing elemental nitrogen in carbon overcoat	842.2	...Organic compound encapsulated or coated magnetic particles (e.g., polystyrene encapsulated magnetic particles, etc.)
835.5	....Textured surface overcoat	842.3	...Ferromagnetic (elemental or alloy) particles
835.6	...Organic compound overcoat	842.4	....Inorganic compound encapsulated or coated magnetic particles (e.g., Co oxide coated Fe particles, etc.)
835.7	....Fluorocarbon	842.5	...Magnetic metal oxide, nitride, or carbide particles
835.8	....Perfluoropolyether	842.6	....Inorganic compound encapsulated or coated magnetic particles (e.g., Co coated Fe ₂ O ₃ , etc.)
836	..Single magnetic layer	842.7	....Chromium oxide
836.1	...Metal or alloy magnetic layer	842.8	....Hexagonal or plate lattice-shaped oxides
836.2	...Magnetic layer having oxygen (i.e., uncombined or oxide)	842.9	....Magnetic metal nitride or carbide
836.3	...Magnetic layer having inorganic compound of Si, N, P, B, H, or C		
837	..With nonmagnetic backcoat layer (e.g., inorganic particles in polymer, carbon, etc.)		
838	..Binder media		
839	..Multiple magnetic layers		
839.1	...Magnetic layers only on single side of substrate		
839.2	....Two magnetic layers on single side of substrate		

843	...With organic compound adjuvant in magnetic layer	846.2	...Composite or coated substrate (e.g., ceramic-epoxy composite, etc.)
843.1	....Dispersant or surfactant	846.3	....Silicon compound coating
843.2	....Inhibitor	846.4	....Anodized or oxidized aluminum or aluminum-base alloy
843.3	....Lubricant	846.5	...Carbon substrate
843.4	.....Ester	846.6	...Metallic (i.e., elemental or alloy) substrate
843.5	.....Fluorine compound	846.7	...Al or Al-base alloy substrate
843.6	.....Silicon compound	846.8	...Ti or Ti-base alloy substrate
843.7	....Acids, amines, amides, or salts thereof	846.9	...Glass or ceramic substrate
844	...With nonmagnetic particles (e.g., hematite particles, polystyrene, and polyisoprene copolymer, etc.)	847	..Organic polymer substrate
844.1	....Only single-type nonmagnetic particle	847.1	...Composite or coated nonesterfied substrate
844.2	....Surface modified particle (e.g., aluminum oxide coated particles, etc.)	847.2	...Polyester substrate (e.g., polyethylene terephthalate, etc.)
844.3	....Alumina particle (i.e., Al ₂ O ₃)	847.3	...Containing naphthalene ring (e.g., polyethylenenaphthalate, etc.)
844.4	....Carbon black particle (e.g., lamp carbon, etc.)	847.4	...Laminate of two or more layers
844.5	...Chemically specified polymer binder	847.5	...Coated or surface treated layer (e.g., by corona discharge, etc.)
844.6	...Radiation cured (i.e., cross linked) binder	847.6	...Containing particles (e.g., aluminum carbonate particles, calcium carbonate particles, etc.)
844.7	...Plural chemically specified polymeric binders in single layer	847.7	....Having specific surface feature or roughness (e.g., by added particles, etc.)
844.71	....Polyurethane binder with vinyl chloride binder	847.8	...Polymer containing specified ring structure
844.8	...Polyurethane binder	848	..Circular shape (e.g., disk, etc.)
844.9	...Vinyl chloride binder	848.1	...Having zones (e.g., landing zone or contact stop/start (CSS) zone, etc.)
845	..Nonmagnetic backcoat layer (e.g., polysiloxane, etc.)	848.2	...Specified texture or roughness (e.g., average roughness (Ra), etc.)
845.1	...Nonmagnetic particles in backcoat layer (TiO ₂ , ZnO, SiO ₂ , etc.)	848.3	....Uniform texture
845.2	....Carbon black particles	848.4	...Stretched surface
845.3	....With additional nonmagnetic particles	848.5	...Having specified pits, tracks, or indicia
845.4	...With additive (e.g., lubricant, etc.)	848.6	...Edge feature (e.g., chamfered edge, etc.)
845.5	...Having specified property (e.g., average roughness (Ra) etc.)	848.7	...Disk in holder (e.g., disk in casing, etc.)
845.6	....For servo tracking		
845.7	...Chemically specified polymeric binder		
846	..Magnetic recording media substrate		
846.1	..Inorganic substrate		

848.8	...Disk property resulting from specified process (e.g., injection molding, photolithography, sintering, etc.)	569	...Mo or W containing
		570	.Composite powder (e.g., coated, etc.)
		571	.Having marginal feature for indexing or weakened portion for severing
848.9	...Magneto-optic media disc		
544	ALL METAL OR WITH ADJACENT METALS	572	..For severing perpendicular to longitudinal dimension
545	.Component of composite having metal continuous phase interengaged with nonmetal continuous phase	573	.Width or thickness variation or marginal cuts repeating longitudinally
546	..Having metal particles	574	..Variation in both width and thickness
547	..Having composition or density gradient or differential porosity	575	..Marginal slots (i.e., deeper than wide)
548	..Composite; i.e., plural, adjacent, spatially distinct metal components (e.g., layers, etc.)	576	.Shaped configuration for melting (e.g., package, etc.)
		577	.Intermediate article (e.g., blank, etc.)
549	...Fiber, asbestos, or cellulose in or next to particulate component	578	..Panel having nonrectangular perimeter
		579	...Disk
550	...Porous component	580	...Symmetrical
551	...Nonmetal component	581	....Only one plane of symmetry
552	....Entirely inorganic	582	..Having outward flange, gripping means or interlocking feature
553	...Nonparticulate metal component		
554	....Plural nonparticulate metal components	583	..Having discrete fastener, marginal fastening, taper, or end structure
555	.....Next to each other		
556	.....Nonmetal in particulate component	584	...Same structure at both ends of plural taper
557	....Plural particulate metal components	585	...Single taper (e.g., ingot, etc.)
558	...Nonparticulate component encloses particles	586	.Workpiece with longitudinal passageway or stopweld material (e.g., for tubular stock, etc.)
559	...Particles discontinuous		
560	.....Separated by nonmetal matrix or binder (e.g., welding electrode, etc.)	587	.Workpiece mimicking finished stock having nonrectangular or noncircular cross section
561	.....Nonparticulate component has Ni-, Cu-, or Zn-base	588	.Workpiece of parallel, nonfastened components (e.g., fagot, pile, etc.)
562	.....Nonparticulate component has Fe-base		
563	.....Next to Fe-containing particles	589	..Arranged to avoid lateral displacement
564	....Nonmetal particles in particulate component	590	..Composite
565	...Nonmetal particles in a component	591	.With provision for limited relative movement between components
566	..Interconnected void structure (e.g., permeable, etc.)	592	.Helical or with helical component
567	..Continuous interengaged phases of plural metals, or oriented fiber containing		
568	...Nonmetal containing		

593	.Honeycomb, or with grain orientation or elongated elements in defined angular relationship in respective components (e.g., parallel, inter- secting, etc.)	615	.Composite; i.e., plural, adjacent, spatially distinct metal components (e.g., layers, joint, etc.)
594	.Plural layers discontinuously bonded (e.g., spot-weld, mechanical fastener, etc.)	616	..Deflectable by temperature change (e.g., thermostat element)
595	.Nonplanar, uniform-thickness material having symmetrical channel shape or reverse fold (e.g., making acute angle, etc.)	617	...More than two components
596	.Having aperture or cut	618	...One component Cu-based
597	..Struck-out portion type	619	...Both components Fe-based with more than 10% Ni
598	.Having member which crosses the plane of another member (e.g., T or X cross section, etc.)	620	..Semiconductor component
599	.Defined configuration of both thickness and nonthickness surface or angle therebetween (e.g., rounded corners, etc.)	621	..With additional, spatially distinct nonmetal component
600	.Having variation in thickness	622	...More than one such component
601	..Discontinuous surface component	623	....Adjacent to each other
602	..Longitudinally smooth and symmetrical	624	...Organic component
603	.Nonplanar uniform thickness or nonlinear uniform diameter (e.g., L-shape)	625	....Elastomer
604	..Intersecting corrugating or dimples not in a single line (e.g., waffle form, etc.)	626	....Synthetic resin
605	.Mass of only fibers	627	...Boride, carbide or nitride component
606	.Foil or filament smaller than 6 mils	628	...Component contains compound of adjacent metal
607	..Composite	629	....Oxide
608	.Embodying fibers interengaged or between layers (e.g., paper, etc.)	630	...Noncrystalline silica or noncrystalline plural-oxide component (e.g., glass, etc.)
609	.Macroscopically anomalous interface between layers	631	....Film (e.g., glaze, etc.)
610	.Having composition, density, or hardness gradient	632	...Oxide-containing component
611	.Having magnetic properties, or preformed fiber orientation coordinate with shape	633	....Plural oxides
612	.Microscopic interfacial wave or roughness	634	...Free carbon containing component
613	.Porous (e.g., foamed, spongy, cracked, etc.)	635	..Four or more distinct components with alternate recurrence of each type component
614	.Laterally noncoextensive components (e.g., embedded, etc.)	636	..Adjacent, identical composition, components
		637	...Group VIII or IB metal-base
		638	....Fe, containing 0.01-1.7% carbon (i.e., steel)
		639	..O, S, or organic compound in metal component
		640	...Oxide of transition metal or Al
		641	..Ge- or Si-base component
		642	..Ga-, In-, Tl- or Group VA metal-base component
		643	..Pb- and Sn-base components: alternative to or next to each other
		644	...And next to Cu- or Fe-base component
		645	..Pb-base component
		646	..Sn-base component

647	...Next to Group IB metal-base component	678	....Co-, Fe-, or Ni-base components, alternative to each other
648	...Next to Group VIII metal-base component	679	....Co- or Ni-base component next to Fe-base component
649	..Group IIA metal-base component	680	....Ni-base component
650	..Al-base component	681	....Fe-base component
651	...Next to refractory (Group IVB, VB, or VIB) metal-base component	682	.....Next to Fe-base component
652	...Next to Group VIII or IB metal-base component	683	.....Both containing 0.01-1.7% carbon (i.e., steel)
653	....Fe	684	.....Containing 0.01-1.7% carbon (i.e., steel)
654	...Next to Al-base component	685	.....Containing more than 10% nonferrous elements (e.g., high alloy, stainless)
655	..Transition metal-base component	686	..Adjacent functionally defined components
656	..Alternative base metals from diverse categories	687	.Surface feature (e.g., rough, mirror)
657	...Group IIB metal-base component	2	COMPACTED TRASH OR REFUSE BUNDLE
658	....Zn-base component	32	ARTICLE HAVING ORNAMENTAL WOUND OR WOVEN STRANDS
659	....Next to Fe-base component (e.g., galvanized)	32.1	INK JET STOCK FOR PRINTING (I.E., STOCK BEFORE PRINTING)
660	...Refractory (Group IVB, VB, or VIB) metal-base component	32.11	.Having property to receive other media in addition to ink jet composition
661	....Diverse refractory group metal-base components: alternative to or next to each other	32.12	.Retransferable
662	....Group VB metal-base component	32.13	.Image viewable from either side (e.g., OHP, projectable image, etc.)
663	....Group VIB metal-base component	32.14	..Single recording layer
664	.....Alternative to or next to each other	32.15	...Particles in recording layer
665	.....W-base component	32.16	.Cloth or textile support
666	.....Cr-base component	32.17	.Microporous synthetic resin support (e.g., microcracked, microembossed, etc.)
667	.....Next to Co-, Fe-, or Ni-base component	32.18	.Physical properties (e.g., dimensions, optical, smoothness, etc.) of support specified
668	...Group VIII or IB metal-base component	32.19	..Optical property of support specified (e.g., opacity, brightness, etc.)
669	....Group IB metal-base component alternative to platinum group metal-base component (e.g., precious metal, etc.)	32.2	..Smoothness or freeness specified
670	....Platinum group metal-base component	32.21	.Paper support composition specified
671	....Cu-base component alternative to Ag-, Au-, or Ni-base component	32.22	.Specified property (e.g., antistatic, anticurl, adhesive, antifriction, etc.) of backing layer
672	....Au-base component	32.23	.Terpolymer ink receptive layer
673	....Ag-base component	32.24	.Plural ink receptive layers
674	....Cu-base component		
675	.....Next to Co-, Cu-, or Ni-base component		
676	.....Next to Fe-base component		
677	.....Fe-base has 0.01-1.7% carbon (i.e., steel)		

- 32.25 ..Particle (e.g., pigment, etc.) containing layer
- 32.26 .Hardened, cured, or cross-linked ink receptive layer
- 32.27 .Gelatin ink receptive layer
- 32.28 .Modified polyvinyl alcohol ink receptive layer
- 32.29 .Quaternary ammonium compound ink receptive layer
- 32.3 .Dye-fixing agent in ink receptive layer
- 32.31 .Physical property of ink receptive layer specified
- 32.32 ..Pore size or volume
- 32.33 ..Gloss specified
- 32.34 .Particles (e.g., pigment, etc.) present in ink receptive layer
- 32.35 ..Particle size distribution
- 32.36 ..Surface of particle is modified (e.g., coated, charged, etc.)
- 32.37 ..Property of particle specified (e.g., oil absorbitivity, surface area, pore size, etc.)
- 32.38 .Multiple polymers in ink-receptive layer
- 32.39 **RECEIVER FOR THERMAL TRANSFER INK**
- 32.5 .Particles in receiving media
- 32.51 .Retransferable (i.e., receiving layer utilizable as ink transferable donor)
- 32.52 .Thermal transfer donor attached
- 32.6 **THERMAL TRANSFER DONOR (E.G., RIBBON, SHEETS, ETC.)**
- 32.61 .Multiple printing (i.e., reusable)
- 32.62 ..Porous layer containing transferable material (e.g., ink, etc.)
- 32.63 .Support properties specified (e.g., shrinkability, thermal conductivity, etc.)
- 32.64 .Specialized heat source contacting layer (i.e., back layer) on support
- 32.65 ..Having electrical resistance specified
- 32.66 ..Having heat resistance and lubricity specified
- 32.67 ..Having lubricity specified
- 32.68 ..Having heat resistance specified
- 32.69 .Particles in transfer layer
- 32.7 ..Meltable particles
- 32.71 ..Glass or ceramic particles
- 32.72 ..Resin particles
- 32.73 ...Microcapsule particle
- 32.74 ..Metal particles
- 32.75 .Multiple colors transferable (e.g., stacked, etc.)
- 32.76 ..Lateral diverse colors
- 32.77 .Multiple layers transfer
- 32.78 ..Separate adhesive layer transfers
- 32.79 ...Adhesive outermost layer
- 32.8 .Specialized non-transferable layer on support
- 32.81 ..Release enhancing layer
- 32.82 ..Wax in releasing layer
- 32.83 .Wax in transfer layer
- 32.84 ..Wax and resin in transfer layer
- 32.85 .Copolymer in transfer layer
- 32.86 .Multiple resins in transfer layer
- 32.87 .Physical property (e.g., melting point, softening point, glass transition point, etc.) specified
- 33 **PLURAL PARTS WITH EDGES OR TEMPORARY JOINING MEANS EACH COMPLEMENTARY TO OTHER**
- 34 **LIGHT TRANSMISSIVE SHEETS, WITH GAS SPACE THEREBETWEEN AND EDGE SEALED (E.G., DOUBLE GLAZED STORM WINDOW, ETC.)**
- 34.1 **HOLLOW OR CONTAINER TYPE ARTICLE (E.G., TUBE, VASE, ETC.)**
- 34.2 .Paper containing (e.g., paperboard, cardboard, fiberboard, etc.)
- 34.3 ..Bag or tubular film (e.g., pouch, flexible food casing, envelope, etc.)
- 34.4 .Glass, ceramic, or sintered, fused, fired, or calcined metal oxide or metal carbide containing (e.g., porcelain, brick, cement, etc.)
- 34.5 ..Contains fabric, fiber particle, or filament made of glass, ceramic, or sintered, fused, fired, or calcined metal oxide, or metal carbide or other inorganic compound (e.g., fiber glass, mineral fiber, sand, etc.)
- 34.6 ..Multilayer (continuous layer)
- 34.7 ...Polymer or resin containing (i.e., natural or synthetic)
- 34.8 .Flexible food casing (e.g., sausage type, etc.)

- 34.9 .Shrinkable or shrunk (e.g., due to heat, solvent, volatile agent, restraint removal, etc.)
- 35.1 ..Single layer (continuous layer)
- 35.2 ..Nonself-supporting tubular film or bag (e.g., pouch, envelope, packet, etc.)
- 35.3 ..Elemental metal containing
- 35.4 ..Contains vapor or gas barrier, polymer derived from vinyl chloride or vinylidene chloride, or polymer containing a vinyl alcohol unit
- 35.5 ..Single layer (continuous layer)
- 35.6 ..Cellular material derived from plant or animal source (e.g., wood, cotton, wool, leather, etc.)
- 35.7 ..Polymer or resin containing (i.e., natural or synthetic)
- 35.8 ..Elemental metal containing (e.g., substrate, foil, film, coating, etc.)
- 35.9 ...Three or more layers (continuous layer)
- 36.1 ..Textile, fabric, cloth, or pile containing (e.g., web, net, woven, knitted, mesh, nonwoven, matted, etc.)
- 36.2 ...Textile, fabric, cloth, or pile is sandwiched between two distinct layers of material unlike the textile, fabric, cloth, or pile layer
- 36.3 ..Fiber or fibers wound around each other or into a self-sustaining shape (e.g., yarn, braid, fibers shaped around a core, etc.)
- 36.4 ..Randomly noninterengaged or randomly contacting fibers, filaments, particles, or flakes
- 36.5 ..Foam or porous material containing
- 36.6 ..Contains vapor or gas barrier, polymer derived from vinyl chloride or vinylidene chloride, or polymer containing a vinyl alcohol unit
- 36.7 ...Vapor or gas barrier, polymer derived from vinyl chloride or vinylidene chloride, or polymer containing a vinyl alcohol unit is sandwiched between layers (continuous layer)
- 36.8 ..Natural or synthetic rubber or rubber-like compound containing
- 36.9 ..Open-ended, self-supporting conduit, cylinder, or tube-type article
- 36.91 ...Multilayer (continuous layer)
- 36.92 ..Single layer (continuous layer)
- 37 **SPIRALLY FLAT-WOUND STRAND OR STRIP (E.G., BRAIDED RUG, ETC.)**
- 38 **MASS TRANSMISSIVE OF LIGHT THROUGH ALL LAYERS AND HAVING OPAQUE BORDER (E.G., STAINED GLASS, WIRED GLASS, ETC.)**
- 39 **COLLAGE REPRESENTATIVE OF REAL OBJECT**
- 40.1 **LAYER OR COMPONENT REMOVABLE TO EXPOSE ADHESIVE**
- 40.2 .Capsule or particulate matter containing (e.g., sphere, flake, microballon, etc.)
- 40.3 .Bituminous
- 40.4 .Ceramic, glass, glasslike, vitreous
- 40.5 .Wax containing
- 40.6 .Halogen containing compound
- 40.7 ..Fluorine
- 40.8 ..Coloring agent containing
- 40.9 .Metal containing
- 41.1 ..Aluminum
- 41.2 ..Coloring agent containing
- 41.3 .Polymer derived only from ethylenically unsaturated monomer
- 41.4 ..Silicon
- 41.5 .Polymer derived from material having at least one acrylic or alkacrylic group or the nitrile or amide derivative thereof (e.g., acrylamide, acrylate ester, etc.)
- 41.6 .Coloring agent
- 41.7 .Protective layer
- 41.8 .Release layer
- 41.9 .Dissimilar adhesives
- 42.1 .Ornamental, decorative, pattern, or indicia

42.2	.Sectional layer removable	65.1	...Polymer derived from material having at least one acrylic or alkacrylic group or the nitrile or amide derivative thereof (e.g., acrylamide, acrylate ester, etc.)
42.3	..Adhesive is on removable layer	65.2	...Adhesive containing
43	SHEET, WEB, OR LAYER WEAKENED TO PERMIT SEPARATION THROUGH THICKNESS	65.8	..Lubricant containing
44	TWO DIMENSIONALLY SECTIONAL LAYER	65.9	..Fibrous material containing
45	.With frame, casing, or perimeter structure	66.1	.Gear
46	.Transparent or translucent layer or section	66.2	.Frictional
47	.Next to unitary web or sheet of equal or greater extent	66.3	.End closure
48	..Continuous two dimensionally sectional layer	66.4	.Seal, gasket, or packing
49	...Glass, ceramic, or metal sections (e.g., floor or wall tile, etc.)	66.5	.Ornamental, decorative, pattern, or indicia
50	...Cellulosic sections (e.g., parquet floor, etc.)	66.6	.Aperture containing
51	..Nonrectangular	66.7	.Edge structure
52	.Sections connected flexibly with external fastener	67	NONPARTICULATE ELEMENT EMBEDDED OR INLAID IN SUBSTRATE AND VISIBLE
53	THREE OR MORE COPLANAR INTERFITTED SECTIONS WITH SECURING MEANS	68	SHEET INCLUDING COVER OR CASING
54	LONGITUDINALLY SECTIONAL LAYER OF THREE OR MORE SECTIONS	69	.Filled with gas other than air; or under vacuum
55	.Next to unitary sheet of equal or greater extent	70	.Encased layer derived from inorganic settable ingredient
56	..Continuous sectional layer	71	.Foamed or expanded material encased
57	SHEETS OR WEBS EDGE SPLICED OR JOINED	72	.Including elements cooperating to form cells
58	.Sheets or webs coplanar	73	..Honeycomb type cells extend perpendicularly to nonthickness layer
59	..Double faced corrugated sheets or webs connected	74	.Noninterengaged fibered material encased (e.g., mat, batt, etc.)
60	..Beveled, stepped, or skived in thickness	75	..Metal cover or casing
61	..With noncoplanar reinforcement	76	.Complete cover or casing
62	...Pile or nap surface sheets connected	77	SHEET FACING AND LONGITUDINALLY NONCOEXTENSIVE WITH WEB OR OTHER SHEET
63	PATCHED HOLE OR DEPRESSION	78	.Sheet smaller in both length and width
64.1	CIRCULAR SHEET OR CIRCULAR BLANK	79	..Smaller sheet has decorative outline
64.2	.Recording medium or carrier	80	NONRECTANGULAR SHEET
64.4	..Optical recording medium or carrier	81	PERIMETER OR CORNER STRUCTURE OF SHEET (EXCLUDING MERE RECTANGULAR)
64.5	...Tellurium containing	82	.Pile or nap type surface
64.6	...Protective layer	83	.Channel or U-shaped perimeter
64.7	...Polycarbonate containing	84	.Paper sheet
64.8	...Coloring agent containing	85	PILE OR NAP TYPE SURFACE OR COMPONENT
64.9	...Thickness specified	86	.Interlaminar
		87	.With particles

88	.Edge feature or configured or discontinuous surface	117	..Filled honeycomb cells (e.g., solid substance in cavities, etc.)
89	..Differential pile length or surface	118	..Hexagonally shaped cavities
90	.Flock surface	119	.Including sheet or component perpendicular to plane of web or sheet
91	.Nap type surface		
92	.Particular shape or structure of pile	120	..Inward from edge of web or sheet
93	..U-, V-, or W-shaped or continuous strand, filamentary material	121	.Fold at edge
		122	..Channel-shaped edge component (e.g., binding, etc.)
94	...Continuous strand with adhesive bond to backing	123	..With strand(s) or strand-portion(s) between layers (e.g., upholstery trim, etc.)
95	.Particular backing structure or composition		
96	.With coating, impregnation, or bond	124	..Acute or reverse fold of exterior component
97	.Composition of pile or adhesive	125	...Embedded in body of web
98	STRUCTURALLY DEFINED WEB OR SHEET (E.G., OVERALL DIMENSION, ETC.)	126	...At opposed marginal edges
		127	....Annular cover
		128	.....One piece
99	.Including fastener for attaching to external surface	129	.....Abutted or lapped seam
100	..Hook or barb	130	..Particular fold structure (e.g., beveled, etc.)
101	.Superposed movable attached layers or components	131	.Including aperture
		132	..Struck out portion type
102	.Including stitching and discrete fastener(s), coating or bond	133	...Embedded or interlocked
103	..Discontinuous or differential coating, impregnation, or bond	134	..Noncircular aperture (e.g., slit, diamond, rectangular, etc.)
			...Diamond or hexagonal
104	...Coating, impregnation, or bond in stitching zone only	135	...Slit or elongated
		136	..Composite web or sheet
105	.Including grain, strips, or filamentary elements in respective layers or components in angular relation	137	...Including nonapertured component
		138	....Keyed
106	..Wood grain	139	.....From both sides
107	..Strand or strand-portions	140	.Continuous and nonuniform or irregular surface on layer or component (e.g., roofing, etc.)
108	...Nonlinear strands or strand-portions		
109	...With additional layer(s)	142	..With transparent or protective coating
110	....On each side of strands or strand-portions		
		143	..Particulate matter
111	.....Including mechanically interengaged strands, strand-portions or strand-like strips	144	...Coated
		145	....Silicon containing coating
112	...Oblique to direction of web	146	...Carbohydrate
113	..Fibers	147	...Polymer or resin (e.g., natural or synthetic rubber, etc.)
114	.Including grain, strips, or filamentary elements in different layers or components parallel	148	...Metal or metal compound
		149	...Silicon containing
115	.Including fringe	150	....Sand, clay, or crushed rock or slate
116	.Honeycomb-like		

151	..Artificial wood or leather grain surface	185	....With corrugations of respective components intersecting in plane projection
152	..Wrinkled, creased, crinkled or creped		
153	...Paper	186	....With planar component
154	...Plural paper components	187	..Ornamental design or indicia
155	..Crackled, crazed or slit	188	..Longitudinal or transverse tubular cavity or cell
156	..Including variation in thickness		
157	..Differential nonuniformity at margin	189	..Laterally noncoextensive components
158	..Foamed or cellular component	190	..Fabric, cloth or textile component
159	..Component comprises a polymer (e.g., rubber, etc.)	191	..Cellulosic
160	....Polyurethane	192	..Edge feature
161	..With component conforming to contour of nonplanar surface	193	..Including layer embodying mechanically interengaged strands, strand portions or strand-like strips (e.g., weave, knit, etc.)
162	..And conforming component on an opposite nonplanar surface		
163	...Parallel ribs and/or grooves		
164	...Containing metal or metal compound	194	..Comprising discontinuous or differential impregnation or bond
165	...Including cellulosic or natural rubber component	195.1	..Discontinuous or differential coating, impregnation or bond (e.g., artwork, printing, retouched photograph, etc.)
166	..Interlaminar spaces		
167	..Parallel ribs and/or grooves		
168	..With particulate matter	196	..Including layer of mechanically interengaged strands, strand-portions or strand-like strips
169	..Oblique to longitudinal axis of web or sheet		
170	..And varying density	197	...Knitted, with particular or differential bond sites or intersections
171	...Fiber containing component		
172	..Composite web or sheet	198	..Spot bonds connect components
173	..With partial filling of valleys on outer surface	199	..Including developable image or soluble portion in coating or impregnation (e.g., safety paper, etc.)
174	..Nonplanar uniform thickness material	200	..With heat sealable or heat releasable adhesive layer
175	..Embodying mechanically interengaged strand(s), strand-portion(s) or strand-like strip(s) (e.g., weave, knit, etc.)	201	..Intermediate layer is discontinuous or differential
176	..With folds in parallel planes	202	...With outer strippable or release layer
177	..Differential nonplanarity at margin	203	...Translucent outer layer
178	..Forming, or cooperating to form cells	204	....Intermediate layer contains particulate material (e.g., pigment, etc.)
179	..Aligned or parallel nonplanarities	205	....Translucent layer comprises natural oil, wax, resin, gum, glue, gelatin
180	...Waffle-form		
181	...Pleats or otherwise parallel adjacent folds	206	..Including particulate material
182	...Parallel corrugations	207	...Including coloring matter
183	....With locally deformed crests or intersecting series of corrugations	208	...Free metal or mineral containing
184	....Plural corrugated components	209	..Including metal layer

210	..Including ceramic, glass, porcelain or quartz layer	295.1	..Fiber embedded in or on the surface of a natural or synthetic rubber matrix
211.1	..Including paper layer	295.4	...Fibers are aligned substantially parallel
212	..Including components having same physical characteristic in differing degree	295.7	....Fiber is nonlinear (e.g., crimped, sinusoidal, etc.)
213	..Thickness (relative or absolute)	296.1	....Fiber is precoated
214	...Of adhesive layers	296.4	...Fiber is precoated
215	...Absolute thicknesses specified	296.7	...Composite or conjugate fiber (e.g., fiber contains more than one chemically different material in monofilament or multifilament form, etc.)
216	...No layer or component greater than 5 mils thick	297.1	...Two or more layers
217	..Hardness	297.4	..Fiber embedded in or on the surface of a polymeric matrix
218	..Density or compression of components	297.7	...Fiber is on the surface of a polymeric matrix having no embedded portion
219	..Weight per unit area specified	298.1	...Fibers are aligned substantially parallel
220	..Physical dimension specified	298.4	....Fiber is nonlinear (e.g., crimped, sinusoidal, etc.)
221	WEB OR SHEET CONTAINING STRUCTURALLY DEFINED ELEMENT OR COMPONENT	298.7	....Fiber is precoated
222	..Embodying intertwined or helical component(s)	299.1	....Carbon or carbonaceous fiber
223	..Including interlaminar mechanical fastener	299.4	....Glass fiber
		299.7	....Polymeric fiber
		300.1	...Fiber is precoated
		300.4	...Two or more chemically different fibers
		300.7	...Two or more layers
		301.1	...Including a free metal or alloy constituent
		301.4	...At least one thermosetting synthetic polymeric material layer
292.1	..Noninterengaged fiber-containing paper-free web or sheet which is not of specified porosity	304.4	..Composite having voids in a component (e.g., porous, cellular, etc.)
292.4	..Fiber-containing wood product (e.g., hardboard, lumber, or wood board, etc.)	305.5	..With chemically effective material or specified gas other than air, N, or carbon dioxide in void-containing component
292.7	..Including paper layer	306.6	..Void-containing component partially impregnated with adjacent component
293.1	..Fiber embedded in a metal matrix	307.3	...Void-containing component is inorganic
293.4	..Fiber embedded in a ceramic, glass, or carbon matrix	307.7	....Inorganic impregnant
293.7	...Fibers are aligned substantially parallel	308.4	...Void-containing component is synthetic resin or natural rubbers
294.1	....Fiber is precoated		
294.4	...Free metal or alloy fiber		
294.7	..Fiber embedded in a layer derived from a water-settable material (e.g., cement, gypsum, etc.)		

Class 442 is an integral part of this Class (Class 428), as shown by the position of this box, and follows the schedule hierarchy of this Class, retaining all pertinent definitions and Class lines of this class.

308.8	...Void-containing component is wood or paper	317.9	..Void-containing component contains also a solid fiber or solid particle
309.9	..With internal element bridging layers, nonplanar interface between layers, or intermediate layer of commingled adjacent foam layers	318.4	..With nonvoid component of specified composition
310.5	..With gradual property change within a component	318.6	...Of about the same composition as, and adjacent to, the void-containing component
311.11	..Void-containing component has a continuous matrix of fibers only (e.g., porous paper, etc.)	318.8	...Integrally formed skin
311.31	...And a force disintegratable component (e.g., stencil sheet, etc.)	319.1	...Inorganic
311.51	...Fibers of defined composition	319.3	...Synthetic resin or natural rubbers
311.71	....Cellulosic	319.7	....Linear or thermoplastic
311.91	.....Plural cellulosic components	319.9	....Hydrocarbon polymer
312.2	..Inorganic matrix in void-containing component	320.2	.Composite having a component wherein a constituent is liquid or is contained within preformed walls (e.g., impregnant-filled, previously void containing component, etc.)
312.4	...Of hydraulic-setting material	321.1	..Constituent is in liquid form
312.6	...Of silicon-containing material (e.g., glass, etc.)	321.3	...Ink in pores
312.8	...Of metal-containing material	321.5	...Encapsulated liquid
313.3	..Preformed hollow element-containing	322.2	..Indefinite plurality of similar impregnated thin sheets (e.g., "decorative laminate" type, etc.)
313.5	..Resin or rubber element	322.7	..Differentially filled foam, filled plural layers, or filled layer with coat of filling material
313.7	..Mineral element	323	.Including a second component containing structurally defined particles
313.9	..Metal- or silicon-containing element	324	..Mica
314.2	..Void shape specified (e.g., crushed, flat, round, etc.)	325	..Glass or ceramic (i.e., fired or glazed clay, cement, etc.) (porcelain, quartz, etc.)
314.4	..Voids specified as closed	326	..Cellulosic (e.g., wood, paper, cork, rayon, etc.)
314.8	...Specified thickness of void-containing component (absolute or relative), numerical cell dimension or density	327	..Polymeric or resinous material
315.5	..Voids specified as micro	328	..Heavy metal or aluminum or compound thereof
315.7	..Specified thickness of void-containing component (absolute or relative) or numerical cell dimension	329	...Iron oxide or aluminum oxide
315.9	...Composite has more than two layers	330	..Alkali metal or alkaline earth metal or compound thereof
316.6	..Plural void-containing components	331	..Silicic material
317.1	..With component specified as adhesive or bonding agent	332	.Physical dimension specified
317.3	...As outermost component	333	..In terms of molecular thickness or light wave length
317.5	...Adhesive or bonding component contains voids	334	..Coating layer not in excess of 5 mils thick or equivalent
317.7	...Composition of adhesive or bonding component specified	335	...Up to 3 mils
		336	....1 mil or less

- 337 ..Of base or substrate
- 338 ..Monolayer with structurally defined element
- 339 ..Including synthetic resin or polymer layer or component
- 340 ..Weight per unit area specified (e.g., gms/sq cm, lbs/sq ft, etc.)
- 341 ..Of coating
- 342 ..Cellulosic substrate
- 343 ..Adhesive outermost layer
- 344 ..Next to metal
- 345 ..Including irradiated or wave energy treated component
- 346 ..Heat or solvent activated or sealable
- 347 ...Heat sealable
- 348 ...Wax containing
- 349 ...Synthetic resin or polymer
- 350 ...Water activated
- 351 ..Including moisture or waterproof component
- 352 ..With release or antistick coating
- 353 ..Including a primer layer
- 354 ..Three or more layers
- 355 R ..Adhesive compositions
- 356 ...Including metal or compound thereof or natural rubber
- 355 RA ..Having readily strippable combined with readily readhearable properties (e.g., stick-ons, etc.)
- 355 CP ...Including monomer or polymer of carbohydrate (e.g., starch, dextrin, etc.) or protein (e.g., casein, animal protein, etc.) or derivative thereof
- 355 EP ...Including epoxy group or epoxy polymer
- 355 AK ...Including aldehyde or ketone condensation polymer (e.g., urea formaldehyde polymer, melamine formaldehyde polymer, etc.)
- 355 EN ...Including addition polymer from unsaturated monomer
- 355 BLIncluding addition polymer of diene monomer (e.g., SBR, SIS, etc.)
- 355 CNIncluding nitrogen containing polymer (e.g., polyacrylonitrile, polymethacrylonitrile, etc.)
- 355 ACIncluding addition polymer from alpha-beta unsaturated carboxylic acid (e.g., acrylic acid, methacrylic acid, etc.) or derivative thereof
- 355 N ...Including nitrogen containing condensation polymer (e.g., polyurethane, polyisocyanate, etc.)
- 357 **COATED OR STRUCTURALLY DEFINED FLAKE, PARTICLE, CELL, STRAND, STRAND PORTION, ROD, FILAMENT, MACROSCOPIC FIBER OR MASS THEREOF**
- 358 .Channel shape
- 359 .Staple length fiber
- 360 ..Plural and with bonded intersections only
- 361 ..With coating or impregnation
- 362 ..Nonlinear (e.g., crimped, coiled, etc.)
- 363 .Mica flake
- 364 .Rod, strand, filament or fiber
- 365 ..Including textile, cloth or fabric
- 366 ..Including boron or compound thereof (not as steel)
- 367 ..Including free carbon or carbide or therewith (not as steel)
- 368 ...In coating or impregnation
- 369 ..Nonlinear (e.g., crimped, coiled, etc.)
- 370 ...Composite
- 371 ...Helical or coiled
- 372 ..Including structurally defined particulate matter
- 373 ..Bicomponent, conjugate, composite or collateral fibers or filaments (i.e., coextruded sheath-core or side-by-side type)
- 374 ...Fibers or filaments nonconcentric (e.g., side-by-side or eccentric, etc.)
- 375 ..Coated or with bond, impregnation or core
- 376 ...Discontinuous or tubular or cellular core
- 377 ...Wound or wrapped core or coating (i.e., spiral or helical)
- 378 ...Coating on discrete and individual rods, strands or filaments

379	...Including metal or compound thereof (excluding glass, ceramic and asbestos)	408	SELF-SUSTAINING CARBON MASS OR LAYER WITH IMPREGNANT OR OTHER LAYER
380	....Plural coatings	409	SURFACE PROPERTY OR CHARACTERISTIC OF WEB, SHEET OR BLOCK
381	.....Free metal in coating		
382	.....Natural rubber in coating		
383	.....Synthetic resin or polymer in plural coatings, each of different type	410	.Surface modified glass (e.g., tempered, strengthened, etc.)
384	.....Glass, ceramic or metal oxide in coating	411.1	COMPOSITE (NONSTRUCTURAL LAMINATE)
385	...Metal with weld modifying or stabilizing coating (e.g., flux, slag, producer, etc.)	412	.Of polycarbonate
386	.....Titanium compound in coating	413	.Of epoxy ether
387	.....Silicic material in coating	414	..As intermediate layer
388	...Glass or silicic fiber or filament with metal coating	415	...Next to glass or quartz
389	...Metal or metal compound in coating	416	...Next to metal
390	...Rubber, cellulosic or silicic material in coating	417	..Next to glass or quartz
391	...Silane, silicone or siloxane in coating	418	..Next to metal
392	..Artificial fiber or filament	419	.Of polythioether
393	....Cellulosic	420	.Including interfacial reaction product of adjacent layers
394	....Synthetic resin or polymer	421	.Of fluorinated addition polymer from unsaturated monomers
395	.....Polyamide, polyimide or polyester	422	..Addition polymer is perhalogenated
396	..Impregnation	422.8	.Of polyisocyanurate
397	..Particular cross section	423.1	.Of polyamidoester (polyurethane, polyisocyanate, polycarbamate, etc.)
398	..Tubular or cellular	423.3	..Next to second layer of polyamidoester
399	..Longitudinally varying	423.4	..Next to animal skin or membrane
400	..Surface characteristic	423.5	..Next to polyamide (nylon, etc.)
401	..Physical dimension	423.7	..Next to polyester (polyethylene terephthalate, etc.)
402	.Particulate matter (e.g., sphere, flake, etc.)	423.9	..Next to natural rubber
402.2	..Microcapsule with fluid core (includes liposome)	424.2	..Next to addition polymer of ethylenically unsaturated monomer
402.21	...Solid-walled microcapsule from synthetic polymer	424.4	...Ester monomer type (polyvinylacetate, etc.)
402.22	....Addition polymer from unsaturated monomers only	424.6	...Halide monomer type (polyvinyl chloride, etc.)
402.24	..Microcapsule with solid core (includes liposome)	424.7	...Nitrile monomer type (polyacrylonitrile, etc.)
403	..Coated	424.8	...Hydrocarbon polymer (polyethylene, polybutadiene, etc.)
404	...Silicic or refractory material containing (e.g., tungsten oxide, glass, cement, etc.)	425.1	..Next to cellulosic
405	....Silane, siloxane or silicone coating	425.3	..Next to aldehyde or ketone condensation product (phenol-aldehyde, etc.)
406	....Glass particles or spheres	425.5	..Next to silicon-containing (silicone, cement, etc.) layer
407	...Including synthetic resin or polymer	425.6	...Quartz or glass
		425.8	..Next to free metal

425.9	..Particulate metal or metal compound-containing	458	..Next to polyester, polyamide or polyimide (e.g., alkyd, glue, or nylon, etc.)
426	.Of quartz or glass		
427	..Next to a boron containing layer	459	...Natural source polyamide (e.g., casein, gelatin, etc.)
428	..Next to another silicon containing layer	460	..Next to aldehyde or ketone condensation product
429	...As silicone, silane or siloxane	461	..Next to addition polymer from unsaturated monomers
430	..Next to polyester (e.g., alkyd)	462	...Including polyene monomers (e.g., butadiene, etc.)
431	...Cross-linked polyester (e.g., glycerol maleate-styrene, etc.)	463	...Ester, halide or nitrile of addition polymer
432	..Next to metal or compound thereof	464	..Next to cellulosic
433	...Alloy or free metal	465	..Next to natural rubber
434	...Noble metal containing	466	...With natural rubber next to second layer of natural rubber
435	..Next to polyamide or polyimide	467	..Next to natural gum, natural oil, rosin, lac or wax
436	..Next to aldehyde or ketone condensation product	468	..Next to bituminous or tarry residue
437	...Next to acetal of polymerized unsaturated alcohol (e.g., formal butyral, etc.)	469	..Next to metal salt or oxide
438	..Next to cellulosic	470	...Organo-metallic salt
439	...Cellulosic ester	471	...Alkali or alkaline earth metal oxide
440	..Next to natural rubber, gum, oil, rosin, wax, bituminous or tarry residue	472	...Refractory metal salt or oxide
441	..Next to addition polymer from unsaturated monomers	472.1	....Formed in situ
442	...Ester, halide or nitrile of addition polymer	472.2	...Aluminum or iron salt or oxide formed in situ
443	.Of asbestos	472.3	...Phosphorus containing metal salt formed in situ
444	..With metal layer	473	.Of animal membrane or skin
445	..With cellulosic layer	473.5	.Of polyimide
446	.Of silicon containing (not as silicon alloy)	474.4	.Of polyamide
447	..As siloxane, silicone or silane	474.7	..Next to second layer of polyamide
448	..As intermediate layer	474.9	...At least one layer is nylon type
449	...Paper as both adjacent layers	475.2	..Next to polyester
450	..Next to metal	475.5	..Nylon type
451	..Next to addition polymer from unsaturated monomers, or aldehyde or ketone condensation product	475.8	...Next to addition polymer from unsaturated monomer(s)
452	..Next to cellulosic	476.1	...Polymer of monoethylenically unsaturated hydrocarbon
453	...Sodium silicate	476.3	..Next to addition polymer from unsaturated monomer(s)
454	..Sand, clay or mica (silica excluded)	476.6	...Natural source-type polyamide
455	.Of cork	476.9	...Polymer of monoethylenically unsaturated hydrocarbon
456	..Including natural oil or gum or rosin (e.g., linoleum, etc.)	477.4	..Next to aldehyde or ketone condensation product
457	.Of metal	477.7	..Inorganic-containing or next to inorganic-containing
		478.2	..Natural source-type polyamide (e.g., casein, gelatin, etc.)

478.4	...Next to cellulosic	512	....Addition polymer of hydrocarbon(s) only
478.8	....Paper		
479.3	..Next to cellulosic	513	....Monoethylenically unsaturated
479.6	...Paper or wood		
480	.Of polyester (e.g., alkyd, etc.)	514	....Ester, halide or nitrile of addition polymer
481	..Next to cellulosic		
482	..Of cross-linked polyester	515	..Next to second addition polymer from unsaturated monomers
483	..Next to addition polymer from unsaturated monomers	516	..Monoolefin polymer
484.1	.Of wax or waxy material	517	....Next to polyene polymer
485	..Next to cellulosic	518	....Next to vinyl or vinylidene chloride polymer
486	...Cellulosic is paper		
487	....Glassine paper	519	...Including polyene monomers
488.11	....With pigment or dye (e.g., carbon paper, hectograph paper, etc.)	520	...Ester, halide or nitrile of addition polymer
488.41	....Having layer over transferable material or on carrier opposite transferable material layer	521	..Polyene monomer-containing
		522	..Ester, halide or nitrile of addition polymer
		523	..Polymer of monoethylenically unsaturated hydrocarbon
489	.Of bituminous or tarry residue	524	.Of aldehyde or ketone condensation product
490	..Next to cellulosic		
491	...Paper	525	..Next to second aldehyde or ketone condensation product
492	.Of natural rubber		
493	..Next to second layer of natural rubber	526	..Next to cellulosic
494	..Next to aldehyde or ketone condensation product or addition polymer from unsaturated monomers	527	...Modified or regenerated cellulose
		528	...Wood
495	...Including polyene monomers	529	....Phenoplast
496	..Next to cellulosic	530	...Paper
497	.Of natural gum, rosin, natural oil or lac	531	....Phenoplast
498	..Next to cellulosic	532	.Of carbohydrate
499	..Natural oil	533	..Of cellulosic next to another carbohydrate
500	.Of addition polymer from unsaturated monomers	534	...Cellulosic next to another cellulosic
501	..Next to an aldehyde or ketone condensation product	535	....Wood or paper
502	...Melamine-aldehyde	536	....Regenerated or modified
503	....Impregnated or coated cellulosic material	537.1	..Of wood
504	...Amide-aldehyde	537.5	..Of paper
505	....Urea or modified urea-aldehyde	537.7	...Next to layer of metal salt (e.g., plasterboard, etc.)
506	...Phenol-aldehyde	688	.Of inorganic material
507	..Next to cellulosic	689	..Metal-compound-containing layer
508	..Regenerated or modified cellulose	690	...Fluorescent, phosphorescent, or luminescent layer
509	....Addition polymer of hydrocarbon(s) only	691	....Halogen-containing
510	....Where addition polymer is an ester or halide	692.1	...Defined magnetic layer
511	...Paper or wood	693.1	....Next to second metal compound-containing layer
		696	...Halogen-containing
		697	...Layer contains compound(s) of plural metals

698	...Carbide-, nitride-, or sulfide-containing layer	909	RESILIENT LAYER (E.G., PRINTER'S BLANKET, ETC.)
699	..Next to second metal-compound-containing layer	910	PRODUCT WITH MOLECULAR ORIENTATION
700	....Single crystal	911	PENETRATION RESISTANT LAYER
701	....O-containing metal compound	912	PUNCTURE HEALING LAYER
702	...O-containing	912.2	MIRROR
703	....Water-settable material (e.g., gypsum, etc.)	913	MATERIAL DESIGNED TO BE RESPONSIVE TO TEMPERATURE, LIGHT, MOISTURE, ETC.
704	.Of B, N, P, S, or metal-containing material	913.3	DECORATIVE ARTICLE FOR VIEWING FROM ONE SIDE ONLY (E.G., PLAQUE, ETC.)
539.5	METAL CONTINUOUS PHASE INTERENGAGED WITH NONMETAL CONTINUOUS PHASE	914	TRANSFER OR DECALCOMANIA
540	IMPREGNATED NATURALLY SOLID PRODUCT (E.G., LEATHER, STONE, ETC.)	915	.Fraud or tamper detecting
541	.Wood timber product (e.g., piling, post, veneer, etc.)	916	FRAUD OR TAMPER DETECTING ELECTROLUMINESCENT
542.2	DECORATIVE ARTICLE	917	MATERIAL ABNORMALLY TRANSPARENT
542.4	.Trophy or memento (e.g., preserved artifact, etc.)	918	CAMOUFLAGED ARTICLE
542.6	.Constructed from filamentary or flat sheet material	919	FIRE OR HEAT PROTECTION FEATURE
542.8	ARTICLE OF INTERMEDIATE SHAPE (E.G., BLANK, PARISON, PREFORM, ETC.)	920	.Fire or flameproofing
543	MISCELLANEOUS (E.G., TREATED SURFACES, ETC.)	921	STATIC ELECTRICITY METAL BLEED-OFF METALLIC STOCK
		922	.Physical dimension
		923	..Composite
		924	...Relative dimension specified
		925	...Thickness of individual layer specified
		926	.Special properties
		927	..Decorative informative
		928	..Magnetic
		929	..Electrical contact feature
		930	..Electric superconducting
		931	..Components of differing electric conductivity
		932	..Abrasive or cutting feature
		933	..Sacrificial component
			.Product by special process
		934	..Electrical process
		935	...Electroplating
		936	..Chemical deposition (e.g., electroless plating, etc.)
		937	..Sprayed metal
		938	..Vapor deposition or gas diffusion
		939	..Molten or fused coating
		940	..Pressure bonding (e.g., explosive, etc.)
		941	..Solid state alloying (e.g., diffusion, to disappearance of an original layer)
<u>CROSS-REFERENCE ART COLLECTIONS</u>			
900	MAGNETIC FEATURE		
901	PRINTED CIRCUIT		
902	HIGH MODULUS FILAMENT OR FIBER		
903	MICROFIBER (LESS THAN 100 MICRON DIAMETER)		
903.3	RECYCLED MATERIALS		
904	ARTIFICIAL LEATHER		
904.4	WALL AND SHELF COVERING		
905	ODOR RELEASING MATERIAL		
906	ROLL OR COIL		
906.6	EMBROIDERY		
907	RESISTANT AGAINST PLANT OR ANIMAL ATTACK		
907.7	LAYER OR ARTICLE RENDERED LIGHT-TRANSMISSIVE BY PRESSURE (E.G., BLUSHED, ETC.)		
908	IMPRESSION RETENTION LAYER (E.G., PRINT MATRIX, SOUND RECORD, ETC.)		
908.8	WEAR-RESISTANT LAYER		

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.

**WEB OR SHEET CONTAINING
STRUCTURALLY DEFINED ELEMENT
OR COMPONENT (428/221)**

- FOR 100 ..Including noninterengaged strand(s) or strand-portion(s) (428/292)
- FOR 101 ..With or in fiber layer (428/293)
- FOR 102 ..Parallel (428/294)
- FOR 103 ...With coating, impregnation or bond of rubber or elastomeric material (428/295)
- FOR 104 ..Autogeneously bonded fibers (428/296)
- FOR 105 ..Including a second component containing structurally defined fibers (428/297)
- FOR 106 ..Plural fiber layers (428/298)
- FOR 107 ...Intertangled and/or interfitted (428/299)
- FOR 108Needled (428/300)
- FOR 109With coating, impregnation or bond (428/301)
- FOR 110 ..With coating, impregnation or bond (428/302)
- FOR 111 ..Physical dimension specified (428/303)
- FOR 112 ..Void-containing component has a continuous matrix of fibers only (e.g., porous paper, etc.) (428/311.1)
- FOR 113 ...And a force disintegratable component (e.g., stencil sheet, etc.) (428/311.3)
- FOR 114 ...Fibers of defined composition (428/311.5)
- FOR 115Cellulosic (428/311.7)
- FOR 116Plural cellulosic components (428/311.9)
- FOR 117 ..Discontinuous or differential coating, impregnation or bond (e.g., artwork, printing, retouched photograph, etc.) (428/195)
- FOR 118 ..Including paper layer (428/211)
- FOR 119 ..Of wax or waxy material (428/484)
- FOR 120 ...Next to cellulosic (428/485)
- FOR 120 ...Cellulosic is paper (428/486)
- FOR 120 ...With pigment or dye (e.g., carbon paper hectograph paper, etc.) (428/488.1)
- FOR 121Having layer over transferable material or on carrier opposite transferable material layer (428/488.4)
- FOR 121 ...Recording medium or carrier (428/64.2)
- FOR 122 ..Magneto optical recording medium or carrier (428/64.3)
- FOR 123 ..Magnetic recording medium or carrier (428/65.3)
- FOR 124 ...Lubricant containing (428/65.4)
- FOR 125 ...Protective layer containing (428/65.5)
- FOR 126 ...Aluminum containing (428/65.6)
- FOR 127 ...Chromium containing (428/65.7)
- COMPOSITE (NONSTRUCTURAL LAMINATE) (428/411.1)**
- FOR 127 ...Of inorganic material (428/688)
- FOR 127 ...Metal-compound-containing layer (428/689)
- FOR 128 ...Defined magnetic layer (428/692)
- FOR 129 ...Next to second metal-compound-containing layer (428/693)
- FOR 130 ...Dynamic recording medium (428/694 R)
- FOR 131Magneto optical recording layer (428/694 ML)
- FOR 132Specified recording layer composition (428/694 SC)
- FOR 133Lanthanoid (428/694 LE)
- FOR 134Garnet or magnetoplumbite (428/694 GT)
- FOR 135Separate refractive, anti-reflective or protective layer composition (428/694 DE)
- FOR 136Pure metal or alloy (428/694 MT)

- FOR 137Rare earth (428/694 RE)
FOR 138Nitride, carbide, or
fluoride (428/694 NF)
FOR 139Oxide or sulfide (428/694
XS)
FOR 140Reflective layer specified
(428/694 RL)
FOR 141With plasma polymerized
organic top coat or other
adhesive layer (428/694 AH)
FOR 142Multiple magnetic layers
(428/694 MM)
FOR 143Exchange coupling (428/694
EC)
FOR 144Magnetically or thermally
isolated (428/694 IS)
FOR 145Composition gradient (428/
694 GR)
FOR 146Hardness, stress, thermal
or electrical coefficients
specified (428/694 PR)
FOR 147Microporous layer (428/694
MP)
FOR 148Metal thin film magnetic
layer (428/694 T)
FOR 149Specified subbing or
underlayer (428/694 TS)
FOR 150Specified back coat layer
(428/694 TB)
FOR 151Topcoat, or protective
overlayer (428/694 TP)
FOR 152Carbon (428/694 TC)
FOR 153Plasma polymerized (428/
694 TZ)
FOR 154Fluorocarbon or
organosilicon layer (428/694
TF)
FOR 155Specified surface feature
or roughness (428/694 TR)
FOR 156Multiple magnetic layer
(428/694 TM)
FOR 157Binder containing magnetic
layer (428/694 B)
FOR 158Radiation curable binder
(428/694 BC)
FOR 159Organic acid or salt
thereof (428/694 BG)
FOR 160Polyurethane binder (428/
694 BU)
FOR 161Isocyanate specified (428/
694 BY)
FOR 162Polyol specified (428/694
BL)
FOR 163Specified lubricant or
protective layer (428/694 BP)
FOR 164Fluorocarbon or
organosilicon (428/694 BF)
FOR 165Including subbing or
underlayer (428/694 BS)
FOR 166Including back coat layer
(428/694 BB)
FOR 167Specified surface feature
or roughness (428/694 BR)
FOR 168With non-magnetic particle
(428/694 BN)
FOR 169Magnetic particle with
specified shape or dimension
(428/694 BA)
FOR 170Hexagonal or tabular (428/
694 BH)
FOR 171Multiple magnetic layers
(428/694 BM)
FOR 172Support composition
specified (428/694 ST)
FOR 173Organic material (428/694
SL)
FOR 174Specified surface feature
or roughness (428/694 SG)
FOR 175With lubricant in or on
layer (428/695)

