U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

CLASSIFICATION ORDER 1845

JUNE 7, 2005

Project No. C-5875

The following classification changes will be effected by this order:

	Class	Subclass	Art Unit	Ex'r Search Room No.
Abolished:	428	64.3, 65.3-65.7, 692-695	1773	REM-0A41
Established:	428	692.1, 693.1, 800, 810, 811, 811.1-811.5, 812-815, 815.1, 815.2, 816-819, 819.1-819.4, 820, 820.1-820.6, 821, 822, 822.1-822.5, 823, 823.1, 823.2, 824, 824.1-824.5, 825, 825.1, 826-828, 828.1, 829-831, 831.1, 831.2, 832, 832.1-832.4, 833, 833.1-833.6, 834, 835, 835.1-835.8, 836, 836.1-836.3, 837-839, 839.1-839.6, 840, 840.1-840.6, 841, 841.1-841.3, 842, 842.1-842.9, 843, 843.1-843.7, 844, 844.1-844.7, 844.71, 844.8, 844.9, 845, 845.1-845.7, 846, 846.1-846.9, 847, 847.1-847.8, 848, 848.1-848.9	1773	REM-0A41

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The following classes were impacted by this order.

Classes: 29, 148, 242, 360, 369, 427

This order includes the following:

A. CLASSIFICATION MANUAL CHANGES,

B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES,

C. CHANGES TO THE U.S. – I.P.C. CONCORDANCE,

D. DEFINITION CHANGES.

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A. CLASSIFICATION MANUAL CHANGES

Additional and Modified Subclasses

CLASS 428 STOCK MATERIAL OR MISCELLANEOUS ARTICLES

JUNE 2005

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

MAGNETIC RECORDING COMPONENT OR STOCK
.Magneto-optical media stock
..Single magneto-optic magnetic layer
...Magneto-optic magnetic layer contains transition metal
* 822.1 ....Magnetic transition metal oxide in magneto-optic layer
* 822.2 .....Having garnet crystal structure
* 822.3 ....Rare-earth or lanthanum series element with iron or cobalt or nickel
* 822.4 .....With additional element(s) other than rare-earth or lanthanum series element and iron, cobalt, or nickel
* 822.5 .....Rare-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.)
* 823.2 .....Al-, Ag-, Au-, or Cu-base reflecting layer
* 824 ...With dielectric layer (e.g., SiO, AlN, ZnS, MgF_2, 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
* 832.1 ...Co or Co-base magnetic layer
* 832.2 ....Cr or Cr-base underlayer
* 832.3 ...Ni or Ni-base underlayer
* 832.4 ...Polymeric underlayer (e.g., polymeric adhesion layer, plasma polymerized carbon, etc.)
* 833 ..Single magnetic layer with plural overcoat layers
* 833.1 ...Inorganic overcoat layer
* 833.2 ....Carbon overcoat (e.g., graphite, diamond like, doped carbon, etc.)
* 833.3 .....With lubricant over carbon layer
* 833.4 ......Plural lubricant layers over carbon layer
* 833.5 .....Having elemental nitrogen in carbon layer
* 833.6 ......With lubricant
* 834 ..Single magnetic layer with single specified overcoat layer
* 835 ...Carbon overcoat (e.g., graphite, diamond like, doped carbon, etc.)
* 835.1 ....Sputter-formed carbon overcoat
* 835.2 ....Plasma-formed carbon overcoat
* 835.3 ....Fullerene carbon
* 835.4 ....Containing elemental nitrogen in carbon overcoat
* 835.5 ....Textured surface overcoat
* 835.6 ...Organic compound overcoat
* 835.7 ....Fluorocarbon
* 835.8 .....Perfluoropolyether
* 836 ..Single magnetic layer
* 836.1 ...Metal or alloy magnetic layer
* 836.2 ...Magnetic layer having oxygen (i.e., uncombined or oxide)
* 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
* 839.3 .....Chemically specified magnetic material
* 839.4 .....Chemically specified binder
* 839.5 .....With chemically identified adjuvant
* 839.6 .....Specified property (e.g., density, Tg, etc.)
* 840 ..Single magnetic layer with underlayer
* 840.1 ...Underlayer composition or structure
* 840.2 ....Nonmagnetic particles in underlayer (e.g., Al_2O_3 particles, etc.)
* 840.3 .....Carbon black particles
* 840.4 ....Lubricant in underlayer (e.g., perfluoether, etc.)

MAGNETIC RECORDING COMPONENT OR STOCK

.Binder media

..Single magnetic layer with underlayer

...Underlayer composition or structure

* 840.5 ....Chemically identified underlayer binder

* 840.6 ...Magnetic layer chemical composition

* 841 ..Single magnetic layer with overcoat

* 841.1 ...Two overcoat layers

* 841.2 ...Chemical composition of overcoat specified

* 841.3 ....Lubricant in overcoat layer

* 842 ..Single magnetic layer

* 842.1 ...Having chemically specified magnetic particles (e.g., FeCo, CoNiPt, etc.)

* 842.2 ....Organic compound encapsulated or coated magnetic particles (e.g., polystyrene encapsulated magnetic particles, etc.)

* 842.3 ....Ferromagnetic (elemental or alloy) particles

* 842.4 .....Inorganic compound encapsulated or coated magnetic particles (e.g., Co oxide coated Fe particles, etc.)

* 842.5 ....Magnetic metal oxide, nitride, or carbide particles

* 842.6 .....Inorganic compound encapsulated or coated magnetic particles (e.g., Co coated Fe_2O_3, etc.)

* 842.7 .....Chromium oxide

* 842.8 .....Hexagonal or plate lattice-shaped oxides

* 842.9 .....Magnetic metal nitride or carbide

* 843 ...With organic compound adjuvant in magnetic layer

* 843.1 ....Dispersant or surfactant

* 843.2 ....Inhibitor

* 843.3 ....Lubricant

* 843.4 .....Ester

* 843.5 .....Fluorine compound

* 843.6 .....Silicon compound

* 843.7 ....Acids, amines, amides, or salts thereof

* 844 ...With nonmagnetic particles (e.g., hematite particles, polystyrene, and polyisoprene copolymer, etc.)

* 844.1 ....Only single-type nonmagnetic particle

* 844.2 .....Surface modified particle (e.g., aluminum oxide coated particles, etc.)

* 844.3 .....Alumina particle (i.e., Al_2O_3)

* 844.4 .....Carbon black particle (e.g., lamp carbon, etc.)

* 844.5 ...Chemically specified polymer binder

* 844.6 ....Radiation cured (i.e., cross linked) binder

* 844.7 ....Plural chemically specified polymeric binders in single layer

* 844.71 .....Polyurethane binder with vinyl chloride binder

* 844.8 ....Polyurethane binder

* 844.9 ....Vinyl chloride binder

* 845 ..Nonmagnetic backcoat layer (e.g., polysiloxane, etc.)

* 845.1 ...Nonmagnetic particles in backcoat layer (TiO_2, ZnO, SiO_2, etc.)

* 845.2 ....Carbon black particles

* 845.3 .....With additional nonmagnetic particles

* 845.4 ...With additive (e.g., lubricant, etc.)

* 845.5 ...Having specified property (e.g., average roughness (Ra) etc.)

* 845.6 ....For servo tracking

* 845.7 ...Chemically specified polymeric binder

* 846 .Magnetic recording media substrate

* 846.1 ..Inorganic substrate

* 846.2 ...Composite or coated substrate (e.g., ceramic-epoxy composite, etc.)

* 846.3 ....Silicon compound coating

* 846.4 ....Anodized or oxidized aluminum or aluminum-base alloy

* 846.5 ...Carbon substrate

* 846.6 ...Metallic (i.e., elemental or alloy) substrate

* 846.7 ....Al or Al-base alloy substrate

* 846.8 ....Ti or Ti-base alloy substrate

* 846.9 ...Glass or ceramic substrate

* 847 ..Organic polymer substrate

* 847.1 ...Composite or coated nonesterfied substrate

* 847.2 ...Polyester substrate (e.g., polyethylene terephthalate, etc.)

* 847.3 ....Containing naphthalene ring (e.g., polyethylenenaphthalate, etc.)

* 847.4 ....Laminate of two or more layers

* 847.5 ....Coated or surface treated layer (e.g., by corona discharge, etc.)

* 847.6 ....Containing particles (e.g., aluminum carbonate particles, calcium carbonate particles, etc.)

* 847.7 .....Having specific surface feature or roughness (e.g., by added particles, etc.)

* 847.8 ...Polymer containing specified ring structure

* 848 ..Circular shape (e.g., disk, etc.)

* 848.1 ...Having zones (e.g., landing zone or contact stop/start (CSS) zone, etc.)

* 848.2 ...Specified texture or roughness (e.g., average roughness (Ra), etc.)

* 848.3 ....Uniform texture

* 848.4 ...Stretched surface

* 848.5 ...Having specified pits, tracks, or indicia

* 848.6 ...Edge feature (e.g., chamfered edge, etc.)

* 848.7 ...Disk in holder (e.g., disk in casing, etc.)

MAGNETIC RECORDING COMPONENT OR STOCK
.Magnetic recording media substrate
..Circular shape (e.g., disk, etc.)
* 848.8 ...Disk property resulting from specified process (e.g., injection molding, photolithography, sintering, etc.)
* 848.9 ...Magneto-optic media disc
544 ALL METAL OR WITH ADJACENT METALS
545 .Component of composite having metal continuous phase interengaged with nonmetal continuous phase
546 .Having metal particles
547 ..Having composition or density gradient or differential porosity
548 ..Composite; i.e., plural, adjacent, spatially distinct metal components (e.g., layers, etc.)
549 ...Fiber, asbestos, or cellulose in or next to particulate component
550 ...Porous component
551 ...Nonmetal component
552 ....Entirely inorganic
553 ...Nonparticulate metal component
554 ....Plural nonparticulate metal components
555 .....Next to each other
556 .....Nonmetal in particulate component
557 ....Plural particulate metal components
558 ....Nonparticulate component encloses particles
559 ....Particles discontinuous
560 .....Separated by nonmetal matrix or binder (e.g., welding electrode, etc.)
561 .....Nonparticulate component has Ni-, Cu-, or Zn-base
562 .....Nonparticulate component has Fe-base
563 .....Next to Fe-containing particles
564 ....Nonmetal particles in particulate component
565 ...Nonmetal particles in a component
566 ..Interconnected void structure (e.g., permeable, etc.)
567 ..Continuous interengaged phases of plural metals, or oriented fiber containing
568 ...Nonmetal containing
569 ...Mo or W containing
570 .Composite powder (e.g., coated, etc.)
571 .Having marginal feature for indexing or weakened portion for severing
572 ..For severing perpendicular to longitudinal dimension
573 .Width or thickness variation or marginal cuts repeating longitudinally
574 ..Variation in both width and thickness
575 ..Marginal slots (i.e., deeper than wide)
576 .Shaped configuration for melting (e.g., package, etc.)
577 .Intermediate article (e.g., blank, etc.)
578 ..Panel having nonrectangular perimeter
579 ...Disk
580 ...Symmetrical
581 ....Only one plane of symmetry
582 ..Having outward flange, gripping means or interlocking feature
583 ..Having discrete fastener, marginal fastening, taper, or end structure
584 ...Same structure at both ends of plural taper
585 ...Single taper (e.g., ingot, etc.)
586 .Workpiece with longitudinal passageway or stopweld material (e.g., for tubular stock, etc.)
587 .Workpiece mimicking finished stock having nonrectangular or noncircular cross section
588 .Workpiece of parallel, nonfastened components (e.g., fagot, pile, etc.)
589 ..Arranged to avoid lateral displacement
590 ..Composite
591 .With provision for limited relative movement between components
592 .Helical or with helical component
593 .Honeycomb, or with grain orientation or elongated elements in defined angular relationship in respective components (e.g., parallel, intersecting, etc.)
594 .Plural layers discontinuously bonded (e.g., spot-weld, mechanical fastener, etc.)
595 .Nonplanar, uniform-thickness material having symmetrical channel shape or reverse fold (e.g., making acute angle, etc.)
596 .Having aperture or cut
597 ..Struck-out portion type
598 .Having member which crosses the plane of another member (e.g., T or X cross section, etc.)
599 .Defined configuration of both thickness and nonthickness surface or angle therebetween (e.g., rounded corners, etc.)
600 .Having variation in thickness
601 ..Discontinuous surface component
602 ..Longitudinally smooth and symmetrical
603 .Nonplanar uniform thickness or nonlinear uniform diameter (e.g., L-shape)
604 ..Intersecting corrugating or dimples not in a single line (e.g., waffle form, etc.)
605 .Mass of only fibers
606 .Foil or filament smaller than 6 mils
607 ..Composite
608 .Embodying fibers interengaged or between layers (e.g., paper, etc.)
609 .Macroscopically anomalous interface between layers

ALL METAL OR WITH ADJACENT METALS
610 .Having composition, density, or hardness gradient
611 .Having magnetic properties, or preformed fiber orientation coordinate with shape
612 .Microscopic interfacial wave or roughness
613 .Porous (e.g., foamed, spongy, cracked, etc.)
614 .Laterally noncoextensive components (e.g., embedded, etc.)
615 .Composite; i.e., plural, adjacent, spatially distinct metal components (e.g., layers, joint, etc.)
616 ..Deflectable by temperature change (e.g., thermostat element)
617 ...More than two components
618 ...One component Cu-based
619 ...Both components Fe-based with more than 10% Ni
620 ..Semiconductor component
621 ..With additional, spatially distinct nonmetal component
622 ...More than one such component
623 ....Adjacent to each other
624 ...Organic component
625 ....Elastomer
626 ....Synthetic resin
627 ...Boride, carbide or nitride component
628 ...Component contains compound of adjacent metal
629 ....Oxide
630 ...Noncrystalline silica or noncrystalline plural-oxide component (e.g., glass, etc.)
631 ....Film (e.g., glaze, etc.)
632 ...Oxide-containing component
633 ....Plural oxides
634 ...Free carbon containing component
635 ..Four or more distinct components with alternate recurrence of each type component
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
648 ...Next to Group VIII metal-base component
649 ..Group IIA metal-base component
650 ..Al-base component
651 ...Next to refractory (Group IVB, VB, or VIB) metal-base component
652 ...Next to Group VIII or IB metal-base component
653 ....Fe
654 ...Next to Al-base component
655 ..Transition metal-base component
656 ...Alternative base metals from diverse categories
657 ...Group IIB metal-base component
658 ....Zn-base component
659 .....Next to Fe-base component (e.g., galvanized)
660 ...Refractory (Group IVB, VB, or VIB) metal-base component
661 ....Diverse refractory group metal-base components: alternative to or next to each other
662 ....Group VB metal-base component
663 ....Group VIB metal-base component
664 .....Alternative to or next to each other
665 .....W-base component
666 .....Cr-base component
667 .....Next to Co-, Fe-, or Ni-base component
668 ...Group VIII or IB metal-base component
669 ....Group IB metal-base component alternative to platinum group metal-base component (e.g., precious metal, etc.)
670 ....Platinum group metal-base component
671 ....Cu-base component alternative to Ag-, Au-, or Ni-base component
672 ....Au-base component
673 ....Ag-base component
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)
678 ....Co-, Fe-, or Ni-base components, alternative to each other
679 ....Co- or Ni-base component next to Fe-base component
680 ....Ni-base component
681 ....Fe-base component
682 .....Next to Fe-base component
683 .....Both containing 0.01-1.7% carbon (i.e., steel)
684 .....Containing 0.01-1.7% carbon (i.e., steel)
685 .....Containing more than 10% nonferrous elements (e.g., high alloy, stainless)
686 ..Adjacent functionally defined components
687 .Surface feature (e.g., rough, mirror)
2 COMPACTED TRASH OR REFUSE BUNDLE

32 ARTICLE HAVING ORNAMENTAL WOUND OR WOVEN STRANDS

32.1 INK JET STOCK FOR PRINTING (I.E., STOCK BEFORE PRINTING)

32.11 .Having property to receive other media in addition to ink jet composition

32.12 .Retransferable

32.13 .Image viewable from either side (e.g., OHP, projectable image, etc.)

32.14 ..Single recording layer

32.15 ...Particles in recording layer

32.16 .Cloth or textile support

32.17 .Microporous synthetic resin support (e.g., microcracked, microembossed, etc.)

32.18 .Physical properties (e.g., dimensions, optical, smoothness, etc.) of support specified

32.19 ..Optical property of support specified (e.g., opacity, brightness, etc.)

32.2 ..Smoothness or freeness specified

32.21 .Paper support composition specified

32.22 .Specified property (e.g., antistatic, anticurl, adhesive, antifriction, etc.) of backing layer

32.23 .Terpolymer ink receptive layer

32.24 .Plural ink receptive layers

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 absorbtivity, 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., shrikability, 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.)

HOLLOW OR CONTAINER TYPE ARTICLE (E.G., TUBE, VASE, ETC.)
.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
42.3 ..Adhesive is on removable layer
43 SHEET, WEB, OR LAYER WEAKENED TO PERMIT SEPARATION THROUGH THICKNESS
44 TWO DIMENSIONALLY SECTIONAL LAYER
45 .With frame, casing, or perimeter structure
46 .Transparent or translucent layer or section
47 .Next to unitary web or sheet of equal or greater extent
48 ..Continuous two dimensionally sectional layer
49 ...Glass, ceramic, or metal sections (e.g., floor or wall tile, etc.)
50 ...Cellulosic sections (e.g., parquet floor, etc.)
51 ..Nonrectangular
52 .Sections connected flexibly with external fastener
53 THREE OR MORE COPLANAR INTERFITTED SECTIONS WITH SECURING MEANS
54 LONGITUDINALLY SECTIONAL LAYER OF THREE OR MORE SECTIONS
55 .Next to unitary sheet of equal or greater extent
56 ..Continuous sectional layer
57 SHEETS OR WEBS EDGE SPLICED OR JOINED
58 .Sheets or webs coplanar
59 ..Double faced corrugated sheets or webs connected
60 ..Beveled, stepped, or skived in thickness
61 ..With noncoplanar reinforcement
62 ...Pile or nap surface sheets connected
63 PATCHED HOLE OR DEPRESSION

64.1 CIRCULAR SHEET OR CIRCULAR BLANK
64.2 .Recording medium or carrier
64.4 ..Optical recording medium or carrier
64.5 ...Tellurium containing
64.6 ....Protective layer
64.7 ...Polycarbonate containing
64.8 ...Coloring agent containing
64.9 ....Thickness specified
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.)
65.2 ...Adhesive containing
65.8 ..Lubricant containing
65.9 ..Fibrous material containing
66.1 .Gear
66.2 .Frictional
66.3 .End closure
66.4 .Seal, gasket, or packing
66.5 .Ornamental, decorative, pattern, or indicia
66.6 .Aperture containing
66.7 .Edge structure
67 NONPARTICULATE ELEMENT EMBEDDED OR INLAID IN SUBSTRATE AND VISIBLE
68 SHEET INCLUDING COVER OR CASING
69 .Filled with gas other than air; or under vacuum
70 .Encased layer derived from inorganic settable ingredient
71 .Foamed or expanded material encased
72 .Including elements cooperating to form cells
73 ..Honeycomb type cells extend perpendicularly to nonthickness layer
74 .Noninterengaged fibered material encased (e.g., mat, batt, etc.)
75 ..Metal cover or casing
76 .Complete cover or casing
77 SHEET FACING AND LONGITUDINALLY NONCOEXTENSIVE WITH WEB OR OTHER SHEET
78 .Sheet smaller in both length and width
79 ..Smaller sheet has decorative outline
80 NONRECTANGULAR SHEET
81 PERIMETER OR CORNER STRUCTURE OF SHEET (EXCLUDING MERE RECTANGULAR)
82 .Pile or nap type surface
83 .Channel or U-shaped perimeter
84 .Paper sheet
85 PILE OR NAP TYPE SURFACE OR COMPONENT
86 .Interlaminar
87 .With particles
88 .Edge feature or configured or discontinuous surface
89 ..Differential pile length or surface
90 .Flock surface
91 .Nap type surface
92 .Particular shape or structure of pile
93 ..U-, V-, or W-shaped or continuous strand, filamentary material
94 ...Continuous strand with adhesive bond to backing
95 .Particular backing structure or composition
96 .With coating, impregnation, or bond
97 .Composition of pile or adhesive
98 STRUCTURALLY DEFINED WEB OR SHEET (E.G., OVERALL DIMENSION, ETC.)
99 .Including fastener for attaching to external surface
100 ..Hook or barb
101 .Superposed movable attached layers or components
102 .Including stitching and discrete fastener(s), coating or bond
103 ..Discontinuous or differential coating, impregnation, or bond
104 ...Coating, impregnation, or bond in stitching zone only
105 .Including grain, strips, or filamentary elements in respective layers or components in angular relation
106 ..Wood grain
107 ..Strand or strand-portions
108 ...Nonlinear strands or strand-portions
109 ...With additional layer(s)
110 ....On each side of strands or strand-portions
111 .....Including mechanically interengaged strands, strand-portions or strand-like strips
112 ...Oblique to direction of web
113 ..Fibers
114 .Including grain, strips, or filamentary elements in different layers or components parallel
115 .Including fringe
116 .Honeycomb-like
117 ..Filled honeycomb cells (e.g., solid substance in cavities, etc.)
118 ..Hexagonally shaped cavities
119 .Including sheet or component perpendicular to plane of web or sheet
120 ..Inward from edge of web or sheet
121 .Fold at edge
122 ..Channel-shaped edge component (e.g., binding, etc.)
123 ..With strand(s) or strand-portion(s) between layers (e.g., upholstery trim, etc.)
124 ..Acute or reverse fold of exterior component
125 ...Embedded in body of web
126 ...At opposed marginal edges
127 ....Annular cover
128 .....One piece
129 ......Abutted or lapped seam
130 ..Particular fold structure (e.g., beveled, etc.)
131 .Including aperture
132 ..Struck out portion type
133 ...Embedded or interlocked

STRUCTURALLY DEFINED WEB OR SHEET (E.G., OVERALL DIMENSION, ETC.)
.Including aperture
134 ..Noncircular aperture (e.g., slit, diamond, rectangular, etc.)
135 ...Diamond or hexagonal
136 ...Slit or elongated
137 ..Composite web or sheet
138 ...Including nonapertured component
139 ....Keyed
140 .....From both sides
141 .Continuous and nonuniform or irregular surface on layer or component (e.g., roofing, etc.)
142 ..With transparent or protective coating
143 ..Particulate matter
144 ...Coated
145 ....Silicon containing coating
146 ...Carbohydrate
147 ...Polymer or resin (e.g., natural or synthetic rubber, etc.)
148 ...Metal or metal compound
149 ...Silicon containing
150 ....Sand, clay, or crushed rock or slate
151 ..Artificial wood or leather grain surface
152 ..Wrinkled, creased, crinkled or creped
153 ...Paper
154 ....Plural paper components
155 ..Crackled, crazed or slit
156 .Including variation in thickness
157 ..Differential nonuniformity at margin
158 ..Foamed or cellular component
159 ...Component comprises a polymer (e.g., rubber, etc.)
160 ....Polyurethane
161 ..With component conforming to contour of nonplanar surface
162 ...And conforming component on an opposite nonplanar surface
163 ...Parallel ribs and/or grooves
164 ...Containing metal or metal compound
165 ...Including cellulosic or natural rubber component
166 ..Interlaminar spaces
167 ..Parallel ribs and/or grooves
168 ...With particulate matter
169 ...Oblique to longitudinal axis of web or sheet
170 ..And varying density
171 ...Fiber containing component
172 ..Composite web or sheet
173 ...With partial filling of valleys on outer surface
174 .Nonplanar uniform thickness material
175 ..Embodying mechanically interengaged strand(s), strand-portion(s) or strand-like strip(s) (e.g., weave, knit, etc.)
176 ...With folds in parallel planes
177 ..Differential nonplanarity at margin
178 ..Forming, or cooperating to form cells
179 ..Aligned or parallel nonplanarities
180 ...Waffle-form
181 ...Pleats or otherwise parallel adjacent folds
182 ...Parallel corrugations
183 ....With locally deformed crests or intersecting series of corrugations
184 ....Plural corrugated components
185 .....With corrugations of respective components intersecting in plane projection
186 .....With planar component
187 ..Ornamental design or indicia
188 .Longitudinal or transverse tubular cavity or cell
189 .Laterally noncoextensive components
190 ..Fabric, cloth or textile component
191 ..Cellulosic
192 .Edge feature
193 ..Including layer embodying mechanically interengaged strands, strand portions or strand-like strips (e.g., weave, knit, etc.)
194 ..Comprising discontinuous or differential impregnation or bond
195.1 .Discontinuous or differential coating, impregnation or bond (e.g., artwork, printing, retouched photograph, etc.)
196 ..Including layer of mechanically interengaged strands, strand-portions or strand-like strips
197 ...Knitted, with particular or differential bond sites or intersections
198 ..Spot bonds connect components
199 ..Including developable image or soluble portion in coating or impregnation (e.g., safety paper, etc.)
200 ..With heat sealable or heat releasable adhesive layer
201 ..Intermediate layer is discontinuous or differential
202 ...With outer strippable or release layer
203 ...Translucent outer layer
204 ....Intermediate layer contains particulate material (e.g., pigment, etc.)
205 ....Translucent layer comprises natural oil, wax, resin, gum, glue, gelatin
206 ..Including particulate material
207 ...Including coloring matter
208 ...Free metal or mineral containing
209 ..Including metal layer
210 ..Including ceramic, glass, porcelain or quartz layer
211.1 ..Including paper layer
212 .Including components having same physical characteristic in differing degree
213 ..Thickness (relative or absolute)

STRUCTURALLY DEFINED WEB OR SHEET (E.G., OVERALL DIMENSION, ETC.)
.Including components having same physical characteristic in differing degree
..Thickness (relative or absolute)
214 ...Of adhesive layers
215 ...Absolute thicknesses specified
216 ....No layer or component greater than 5 mils thick
217 ..Hardness
218 ..Density or compression of components
219 .Weight per unit area specified
220 .Physical dimension specified
221 WEB OR SHEET CONTAINING STRUCTURALLY DEFINED ELEMENT OR COMPONENT
222 .Embodying intertwined or helical component(s)
223 .Including interlaminar mechanical fastener

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.

292.1 .Noninterengaged fiber-containing paper-free web or sheet which is not of specified porosity
292.4 ..Fiber-containing wood product (e.g., hardboard, lumber, or wood board, etc.)
292.7 ..Including paper layer
293.1 ..Fiber embedded in a metal matrix
293.4 ..Fiber embedded in a ceramic, glass, or carbon matrix
293.7 ...Fibers are aligned substantially parallel
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.)
295.1 ..Fiber embedded in or on the surface of a natural or synthetic rubber matrix
295.4 ...Fibers are aligned substantially parallel
295.7 ....Fiber is nonlinear (e.g., crimped, sinusoidal, etc.)
296.1 ....Fiber is precoated
296.4 ...Fiber is precoated
296.7 ...Composite or conjugate fiber (e.g., fiber contains more than one chemically different material in monofilament or multifilament form, etc.)
297.1 ...Two or more layers
297.4 ..Fiber embedded in or on the surface of a polymeric matrix
297.7 ...Fiber is on the surface of a polymeric matrix having no embedded portion
298.1 ...Fibers are aligned substantially parallel
298.4 ....Fiber is nonlinear (e.g., crimped, sinusoidal, etc.)
298.7 ....Fiber is precoated
299.1 ....Carbon or carbonaceous fiber
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
304.4 .Composite having voids in a component (e.g., porous, cellular, etc.)
305.5 ..With chemically effective material or specified gas other than air, N, or carbon dioxide in void-containing component
306.6 ..Void-containing component partially impregnated with adjacent component
307.3 ...Void-containing component is inorganic
307.7 ....Inorganic impregnant
308.4 ...Void-containing component is synthetic resin or natural rubbers
308.8 ...Void-containing component is wood or paper
309.9 ..With internal element bridging layers, nonplanar interface between layers, or intermediate layer of commingled adjacent foam layers
310.5 ..With gradual property change within a component
311.11 ..Void-containing component has a continuous matrix of fibers only (e.g., porous paper, etc.)
311.31 ...And a force disintegratable component (e.g., stencil sheet, etc.)
311.51 ...Fibers of defined composition
311.71 ....Cellulosic
311.91 .....Plural cellulosic components
312.2 ..Inorganic matrix in void-containing component
312.4 ...Of hydraulic-setting material
312.6 ...Of silicon-containing material (e.g., glass, etc.)
312.8 ...Of metal-containing material
313.3 ..Preformed hollow element-containing
313.5 ...Resin or rubber element
313.7 ...Mineral element
313.9 ...Metal- or silicon-containing element
314.2 ..Void shape specified (e.g., crushed, flat, round, etc.)
314.4 ..Voids specified as closed

WEB OR SHEET CONTAINING STRUCTURALLY DEFINED ELEMENT OR COMPONENT

.Composite having voids in a component (e.g., porous, cellular, etc.)
..Voids specified as closed
314.8 ...Specified thickness of void-containing component (absolute or relative), numerical cell dimension or density
315.5 ..Voids specified as micro
315.7 ...Specified thickness of void-containing component (absolute or relative) or numerical cell dimension
315.9 ...Composite has more than two layers
316.6 ..Plural void-containing components
317.1 ..With component specified as adhesive or bonding agent
317.3 ...As outermost component
317.5 ...Adhesive or bonding component contains voids
317.7 ...Composition of adhesive or bonding component specified
317.9 ..Void-containing component contains also a solid fiber or solid particle
318.4 ..With nonvoid component of specified composition
318.6 ...Of about the same composition as, and adjacent to, the void-containing component
318.8 ....Integrally formed skin
319.1 ...Inorganic
319.3 ...Synthetic resin or natural rubbers
319.7 ....Linear or thermoplastic
319.9 .....Hydrocarbon polymer
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.)
321.1 ..Constituent is in liquid form
321.3 ...Ink in pores
321.5 ...Encapsulated liquid
322.2 ..Indefinite plurality of similar impregnated thin sheets (e.g., "decorative laminate" type, etc.)
322.7 ..Differentially filled foam, filled plural layers, or filled layer with coat of filling material
323 .Including a second component containing structurally defined particles
324 ..Mica
325 ..Glass or ceramic (i.e., fired or glazed clay, cement, etc.) (porcelain, quartz, etc.)
326 ..Cellulosic (e.g., wood, paper, cork, rayon, etc.)
327 ..Polymeric or resinous material
328 ..Heavy metal or aluminum or compound thereof
329 ...Iron oxide or aluminum oxide
330 ..Alkali metal or alkaline earth metal or compound thereof
331 ..Silicic material
332 .Physical dimension specified
333 ..In terms of molecular thickness or light wave length
334 ..Coating layer not in excess of 5 mils thick or equivalent
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 BL ....Including addition polymer of diene monomer (e.g., SBR, SIS, etc.)
355 CN ....Including nitrogen containing polymer (e.g., polyacrylonitrile, polymethacrylonitrile, etc.)
355 AC ....Including addition polymer from alpha-beta unsaturated carboxylic acid (e.g., acrylic acid, methacrylic acid, etc.) or derivative thereof

WEB OR SHEET CONTAINING STRUCTURALLY DEFINED ELEMENT OR COMPONENT
.Adhesive outermost layer
..Adhesive compositions
355 N ...Including nitrogen containing condensation polymer (e.g., polyurethane, polyisocyanate, etc.)
357 COATED OR STRUCTUALLY 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)
380 ....Plural coatings
381 .....Free metal in coating
382 .....Natural rubber in coating
383 .....Synthetic resin or polymer in plural coatings, each of different type
384 .....Glass, ceramic or metal oxide in coating
385 ....Metal with weld modifying or stabilizing coating (e.g., flux, slag, producer, etc.)
386 .....Titanium compound in coating
387 .....Silicic material in coating
388 ....Glass or silicic fiber or filament with metal coating
389 ....Metal or metal compound in coating
390 ....Rubber, cellulosic or silicic material in coating
391 ...Silane, silicone or siloxane in coating
392 ...Artificial fiber or filament
393 ....Cellulosic
394 ....Synthetic resin or polymer
395 .....Polyamide, polyimide or polyester
396 ...Impregnation
397 ..Particular cross section
398 ...Tubular or cellular
399 ...Longitudinally varying
400 ...Surface characteristic
401 ..Physical dimension
402 .Particulate matter (e.g., sphere, flake, etc.)
402.2 ..Microcapsule with fluid core (includes liposome)
402.21 ...Solid-walled microcapsule from synthetic polymer
402.22 ....Addition polymer from unsaturated monomers only
402.24 ..Microcapsule with solid core (includes liposome)
403 ..Coated
404 ...Silicic or refractory material containing (e.g., tungsten oxide, glass, cement, etc.)
405 ....Silane, siloxane or silicone coating
406 ....Glass particles or spheres
407 ...Including synthetic resin or polymer
408 SELF-SUSTAINING CARBON MASS OR LAYER WITH IMPREGNANT OR OTHER LAYER
409 SURFACE PROPERTY OR CHARACTERISTIC OF WEB, SHEET OR BLOCK
410 .Surface modified glass (e.g., tempered, strengthened, etc.)
411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)
412 .Of polycarbonate
413 .Of epoxy ether
414 ..As intermediate layer
415 ...Next to glass or quartz
416 ...Next to metal
417 ..Next to glass or quartz
418 ..Next to metal
419 .Of polythioether
420 .Including interfacial reaction product of adjacent layers
421 .Of fluorinated addition polymer from unsaturated monomers
422 ..Addition polymer is perhalogenated
422.8 .Of polyisocyanurate
423.1 .Of polyamidoester (polyurethane, polyisocyanate, polycarbamate, etc.)
423.3 ..Next to second layer of polyamidoester
423.4 ..Next to animal skin or membrane
423.5 ..Next to polyamide (nylon, etc.)

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

COMPOSITE (NONSTRUCTURAL LAMINATE)
480 .Of polyester (e.g., alkyd, etc.)
481 ..Next to cellulosic
482 ..Of cross-linked polyester
483 ..Next to addition polymer from unsaturated monomers
484.1 .Of wax or waxy material
485 ..Next to cellulosic
486 ...Cellulosic is paper
487 ....Glassine paper
488.11 ....With pigment or dye (e.g., carbon paper, hectograph paper, etc.)
488.41 .....Having layer over transferable material or on carrier opposite transferable material layer
489 .Of bituminous or tarry residue
490 ..Next to cellulosic
491 ...Paper
492 .Of natural rubber
493 ..Next to second layer of natural rubber
494 ..Next to aldehyde or ketone condensation product or addition polymer from unsaturated monomers
495 ...Including polyene monomers
496 ..Next to cellulosic
497 .Of natural gum, rosin, natural oil or lac
498 ..Next to cellulosic
499 ...Natural oil
500 .Of addition polymer from unsaturated monomers
501 ..Next to an aldehyde or ketone condensation product
502 ...Melamine-aldehyde
503 ....Impregnated or coated cellulosic material
504 ...Amide-aldehyde
505 ....Urea or modified urea-aldehyde
506 ...Phenol-aldehyde
507 ..Next to cellulosic
508 ...Regenerated or modified cellulose
509 ....Addition polymer of hydrocarbon(s) only
510 ....Where addition polymer is an ester or halide
511 ...Paper or wood
512 ....Addition polymer of hydrocarbon(s) only
513 .....Monoethylenically unsaturated
514 ....Ester, halide or nitrile of addition polymer
515 ..Next to second addition polymer from unsaturated monomers
516 ...Monoolefin polymer
517 ....Next to polyene polymer
518 ....Next to vinyl or vinylidene chloride polymer
519 ...Including polyene monomers
520 ...Ester, halide or nitrile of addition polymer
521 ..Polyene monomer-containing
522 ..Ester, halide or nitrile of addition polymer
523 ..Polymer of monoethylenically unsaturated hydrocarbon
524 .Of aldehyde or ketone condensation product
525 ..Next to second aldehyde or ketone condensation product
526 ..Next to cellulosic
527 ...Modified or regenerated cellulose
528 ...Wood
529 ....Phenoplast
530 ...Paper
531 ....Phenoplast
532 .Of carbohydrate
533 ..Of cellulosic next to another carbohydrate
534 ...Cellulosic next to another cellulosic
535 ....Wood or paper
536 ....Regenerated or modified
537.1 ..Of wood
537.5 ..Of paper
537.7 ...Next to layer of metal salt (e.g., plasterboard, etc.)
688 .Of inorganic material
689 ..Metal-compound-containing layer
690 ...Fluroescent, phosphorescent, or luminescent layer
691 ....Halogen-containing
* 692.1 ...Defined magnetic layer
* 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
699 ...Next to second metal-compound-containing layer
700 ....Single crystal
701 ....O-containing metal compound
702 ...O-containing
703 ....Water-settable material (e.g., gypsum, etc.)
704 .Of B, N, P, S, or metal-containing material
539.5 METAL CONTINUOUS PHASE INTERENGAGED WITH NONMETAL CONTINUOUS PHASE
540 IMPREGNATED NATURALLY SOLID PRODUCT (E.G., LEATHER, STONE, ETC.)
541 .Wood timber product (e.g., piling, post, veneer, etc.)
542.2 DECORATIVE ARTICLE

542.4 .Trophy or memento (e.g., preserved artifact, etc.)
542.6 .Constructed from filamentary or flat sheet material
542.8 ARTICLE OF INTERMEDIATE SHAPE (E.G., BLANK, PARISON, PREFORM, ETC.)
543 MISCELLANEOUS (E.G., TREATED SURFACES, ETC.)

****

CROSS-REFERENCE ART COLLECTIONS

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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
909 RESILIENT LAYER (E.G., PRINTER'S BLANKET, ETC.)
910 PRODUCT WITH MOLECULAR ORIENTATION
911 PENETRATION RESISTANT LAYER
912 PUNCTURE HEALING LAYER
912.2 MIRROR
913 MATERIAL DESIGNED TO BE RESPONSIVE TO TEMPERATURE, LIGHT, MOISTURE, ETC.
913.3 DECORATIVE ARTICLE FOR VIEWING FROM ONE SIDE ONLY (E.G., PLAQUE, ETC.)
914 TRANSFER OR DECALCOMANIA
915 .Fraud or tamper detecting
916 FRAUD OR TAMPER DETECTING
917 ELECTROLUMINESCENT
918 MATERIAL ABNORMALLY TRANSPARENT
919 CAMOUFLAGED ARTICLE
920 FIRE OR HEAT PROTECTION FEATURE
921 .Fire or flameproofing
922 STATIC ELECTRICITY METAL BLEED-OFF METALLIC STOCK
923 .Physical dimension
924 ..Composite
925 ...Relative dimension specified
926 ...Thickness of individual layer specified
.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)

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FOREIGN ART COLLECTIONS

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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 108 ....Needled (428/300)
FOR 109 ....With 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 115 ....Cellulosic (428/311.7)
FOR 116 .....Plural cellulosic components (428/311.9)
FOR 117 .Discontinuos 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)
..Next to cellulosic (428/485)
...Cellulosic is paper (428/486)
WEB OR SHEET CONTAINING STRUCTURALLY DEFINED ELEMENT OR COMPONENT (428/221)
.Of wax or waxy material (428/484)
..Next to cellulosic (428/485)
...Cellulosic is paper (428/486)
FOR 120 ....With pigment or dye (e.g., carbon paper hectograph paper, etc.) (428/488.1)
FOR 121 .....Having layer over transferable material or on carrier opposite transferable material layer (428/488.4)
* CIRCULAR SHEET OR CIRCULAR BLANK (428/64.1)
* .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)
* .Of inorganic material (428/688)
* ..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 131 .....Magneto optical recording layer (428/694 ML)
* FOR 132 ......Specified recording layer composition (428/694 SC)
* FOR 133 ....Lanthanoid (428/694 LE)
* FOR 134 ....Garnet or magnetoplumbite (428/694 GT)
* FOR 135 ....Separate refractive, anti-reflective or protective layer composition (428/694 DE)
* FOR 136 ....Pure metal or alloy (428/694 MT)
* FOR 137 ....Rare earth (428/694 RE)
* FOR 138 ....Nitride, carbide, or fluoride (428/694 NF)
* FOR 139 ....Oxide or sulfide (428/694 XS)
* FOR 140 ......Reflective layer specified (428/694 RL)
* FOR 141 ......With plasma polymerized organic top coat or other adhesive layer (428/694 AH)
* FOR 142 ......Multiple magnetic layers (428/694 MM)
* FOR 143 ....Exchange coupling (428/694 EC)
* FOR 144 ....Magnetically or thermally isolated (428/694 IS)
* FOR 145 ......Composition gradient (428/694 GR)
* FOR 146 ......Hardness, stress, thermal or electrical coefficients specified (428/694 PR)
* FOR 147 ......Microporous layer (428/694 MP)
* FOR 148 .....Metal thin film magnetic layer (428/694 T)
* FOR 149 ......Specified subbing or underlayer (428/694 TS)
* FOR 150 ......Specified back coat layer (428/694 TB)
* FOR 151 ......Topcoat, or protective overlayer (428/694 TP)
* FOR 152 ....Carbon (428/694 TC)
* FOR 153 ....Plasma polymerized (428/694 TZ)
* FOR 154 ....Fluorocarbon or organosilicon layer (428/694 TF)
* FOR 155 ......Specified surface feature or roughness (428/694 TR)
* FOR 156 ......Multiple magnetic layer (428/694 TM)
* FOR 157 .....Binder containing magnetic layer (428/694 B)
* FOR 158 ......Radiation curable binder (428/694 BC)
* FOR 159 ......Organic acid or salt thereof (428/694 BG)
* FOR 160 ......Polyurethane binder (428/694 BU)
* FOR 161 ....Isocyanate specified (428/694 BY)
* FOR 162 ....Polyol specified (428/694 BL)
* FOR 163 ......Specified lubricant or protective layer (428/694 BP)
* FOR 164 ....Fluorocarbon or organosilicon (428/694 BF)
* FOR 165 ......Including subbing or underlayer (428/694 BS)
* FOR 166 ......Including back coat layer (428/694 BB)
* FOR 167 ......Specified surface feature or roughness (428/694 BR)
* FOR 168 ......With non-magnetic particle (428/694 BN)
* FOR 169 ......Magnetic particle with specified shape or dimension (428/694 BA)
* FOR 170 ....Hexagonal or tabular (428/694 BH)
* FOR 171 ......Multiple magnetic layers (428/694 BM)
* FOR 172 .....Support composition specified (428/694 ST)
* FOR 173 ......Organic material (428/694 SL)
* FOR 174 ......Specified surface feature or roughness (428/694 SG)
* FOR 175 .....With lubricant in or on layer (428/695)

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
2/161.1	1	428/692	190
365/27	1	428/693	33
365/31	1	428/693	33
365/32	1	428/692	190
	1	428/694 T	96
365/33	1	428/692	190
	7	428/693	33
428/212	1	428/692	190
428/32.1	1	428/694 T	96
428/692.1	1	428/694 BA	27
	6	428/692	190
428/693.1	1	428/693	33
428/800	1	428/694 BA	27
	1	428/694 R	32
	20	428/692	190
428/810	2	428/694 R	32
	4	428/692	190
428/811	13	428/692	190
428/811.1	3	428/692	190
428/811.2	1	428/694 ML	94
	1	428/694 TM	49
	4	428/693	33
	35	428/692	190
428/811.3	1	428/693	33
	1	428/694 T	96
	1	428/694 TM	49
	7	428/692	190
428/811.4	6	428/692	190
428/811.5	1	428/693	33
	1	428/694 R	32
	6	428/692	190
428/812	1	428/65.7	14
	1	428/693	33
	1	428/694 ML	94
	1	428/694 TS	110
	5	428/694 R	32
	6	428/694 T	96
	24	428/692	190
428/813	1	428/693	33
	1	428/694 ST	10
	1	428/694 TS	110
	2	428/694 R	32
	3	428/692	190
428/814	1	428/65.3	169
428/814	1	428/692	190

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
	1	428/693	33
	1	428/694 R	32
428/815	2	428/693	33
	2	428/694 R	32
	14	428/692	190
428/815.2	1	428/694 R	32
	3	428/692	190
428/816	1	428/693	33
428/817	1	428/64.3	46
	2	428/694 ML	94
428/818	1	428/694 ML	94
428/819	3	428/64.3	46
	7	428/694 ML	94
428/819.1	1	428/694 EC	8
	1	428/694 MM	11
	1	428/694 T	96
	2	428/693	33
	2	428/694 SC	8
	3	428/694 ML	94
428/819.2	1	428/692	190
	1	428/694 RE	8
	2	428/694 MM	11
	6	428/694 ML	94
428/819.3	1	428/694 RE	8
	1	428/694 SC	8
	3	428/694 EC	8
	3	428/694 ML	94
428/820	1	428/694 ML	94
428/820.1	3	428/694 ML	94
	3	428/694 MM	11
428/820.2	1	428/693	33
	5	428/694 ML	94
428/820.3	1	428/64.3	46
	1	428/694 MM	11
	4	428/694 ML	94
428/820.4	1	428/693	33
	1	428/694 EC	8
	1	428/694 MT	4
	1	428/694 R	32
	2	428/694 ML	94
	2	428/694 MM	11
	3	428/64.3	46
428/820.5	1	428/694 EC	8
428/820.5	2	428/64.3	46
	2	428/694 ML	94

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
428/820.6	1	428/694 TM	49
	2	428/694 EC	8
	8	428/694 ML	94
428/821	1	428/694 NF	4
	3	428/692	190
	3	428/694 ML	94
428/822	1	428/694 MM	11
	2	428/692	190
	3	428/694 ML	94
428/822.1	1	428/694 T	96
	3	428/694 ML	94
428/822.2	1	428/64.3	46
	1	428/693	33
	2	428/694 GT	2
	2	428/694 ML	94
	5	428/692	190
428/822.3	1	428/64.3	46
	1	428/65.3	169
	1	428/694 RE	8
	1	428/694 T	96
	2	428/694 SC	8
	9	428/694 ML	94
428/822.4	1	428/64.3	46
	1	428/692	190
	1	428/694 R	32
	1	428/694 SC	8
	5	428/694 ML	94
428/822.5	2	428/694 ML	94
428/823	1	428/64.3	46
	1	428/694 DE	6
	1	428/694 ML	94
	1	428/694 MT	4
	1	428/694 SC	8
428/823.1	1	428/64.3	46
	1	428/65.3	169
	1	428/694 RL	1
	3	428/694 ML	94
428/823.2	1	428/694 ML	94
	3	428/64.3	46
428/824	2	428/692	190
428/824.1	1	428/692	190
	2	428/694 ML	94
428/824.2	1	428/694 R	32
	1	428/694 TS	110
	2	428/694 DE	6

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
	2	428/694 ML	94
	2	428/694 RE	8
	2	428/694 XS	2
428/824.4	1	428/694 DE	6
	1	428/694 ML	94
	1	428/694 NF	4
	1	428/694 RE	8
428/824.5	1	428/694 DE	6
	1	428/694 R	32
	1	428/694 TS	110
	2	428/64.3	46
	4	428/694 ML	94
428/825	1	428/65.5	37
	1	428/694 AH	1
	1	428/694 ML	94
	6	428/64.3	46
428/825.1	1	428/694 ML	94
	6	428/64.3	46
428/826	1	428/65.7	14
	1	428/693	33
	1	428/694 ML	94
	1	428/694 ST	10
	1	428/694 TM	49
	2	428/65.4	49
	2	428/692	190
	2	428/694 R	32
	4	428/694 TS	110
	13	428/694 T	96
428/827	1	428/65.3	169
	1	428/694 BP	38
	1	428/694 MM	11
	1	428/694 T	96
	3	428/65.5	37
	3	428/694 TP	13
	4	428/694 TM	49
	4	428/694 TS	110
428/828	1	428/65.7	14
	1	428/693	33
	2	428/692	190
	2	428/694 BM	7
	2	428/694 T	96
428/828	5	428/65.3	169
	9	428/694 TS	110
	16	428/694 TM	49

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
428/828.1	1	428/65.3	169
	1	428/65.7	14
	1	428/694 ML	94
	1	428/694 T	96
	2	428/694 TM	49
	2	428/694 TS	110
428/829	1	428/65.3	169
	1	428/65.6	24
	1	428/692	190
	1	428/694 SG	7
	1	428/694 TP	13
	2	428/694 T	96
	5	428/694 TM	49
428/830	1	428/65.5	37
	1	428/65.7	14
	1	428/694 TS	110
	2	428/694 T	96
	3	428/65.3	169
	5	428/694 TM	49
428/831	1	428/65.5	37
	1	428/65.6	24
	1	428/65.7	14
	1	428/694 TZ	3
	3	428/694 TM	49
	7	428/65.3	169
	9	428/694 T	96
	17	428/694 TS	110
428/831.1	1	428/65.3	169
	1	428/694 T	96
	4	428/694 TS	110
428/831.2	1	428/65.7	14
	1	428/692	190
	1	428/694 BU	10
	1	428/694 SG	7
	1	428/694 T	96
	1	428/694 TM	49
	1	428/694 TR	5
	2	428/65.6	24
	7	428/65.3	169
	14	428/694 TS	110
428/832	1	428/694 TM	49
428/832	2	428/694 T	96
	3	428/694 TS	110
	4	428/65.3	169

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
428/832.1	1	428/65.3	169
	1	428/65.5	37
	1	428/692	190
	1	428/693	33
	1	428/694 R	32
	1	428/694 TM	49
	3	428/694 T	96
	6	428/694 TS	110
428/832.2	1	428/65.5	37
	1	428/694 TR	5
	2	428/65.7	14
	2	428/694 TM	49
	5	428/694 T	96
	6	428/65.3	169
	26	428/694 TS	110
428/832.3	1	428/65.3	169
	1	428/65.4	49
	1	428/694 TS	110
428/832.4	1	428/65.3	169
	1	428/65.5	37
	1	428/694 BP	38
428/833	1	428/692	190
	1	428/695	3
	2	428/65.4	49
428/833.1	1	428/65.5	37
428/833.2	1	428/65.5	37
	3	428/694 TP	13
	4	428/65.3	169
428/833.3	1	428/694 TS	110
428/833.5	1	428/65.5	37
	1	428/694 TF	2
	2	428/65.4	49
	3	428/65.3	169
428/833.6	1	428/65.3	169
	1	428/694 T	96
428/834	1	428/65.5	37
	1	428/694 T	96
	2	428/65.3	169
	2	428/65.4	49
428/835	1	428/65.5	37
	2	428/65.3	169
428/835.1	2	428/65.4	49
428/835.2	1	428/65.3	169
	2	428/65.5	37

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
	2	428/694 TC	2
428/835.3	1	428/65.3	169
428/835.5	2	428/694 TR	5
428/835.6	1	428/694 TP	13
	1	428/694 TZ	3
	2	428/65.5	37
	3	428/694 BP	38
	5	428/65.4	49
428/835.7	1	428/65.3	169
	1	428/65.5	37
	1	428/694 BP	38
	1	428/694 TF	2
	1	428/694 TP	13
	2	428/65.4	49
	2	428/694 T	96
428/835.8	1	428/694 R	32
	1	428/695	3
	2	428/694 BP	38
	2	428/694 T	96
	5	428/65.4	49
428/836	1	428/65.5	37
	1	428/692	190
428/836.1	1	428/65.7	14
	1	428/692	190
	1	428/694 B	38
	1	428/694 NF	4
	2	428/694 TM	49
	4	428/65.3	169
	4	428/694 TS	110
	8	428/694 T	96
428/836.2	1	428/65.6	24
	1	428/694 TB	4
	1	428/694 TM	49
	1	428/694 TP	13
	1	428/694 TZ	3
	2	428/65.4	49
	2	428/692	190
	2	428/694 R	32
	2	428/694 TS	110
	14	428/694 T	96
428/836.3	1	428/694 NF	4
428/836.3	1	428/694 TB	4
	1	428/694 TP	13
	2	428/65.3	169
	2	428/65.6	24

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
	2	428/692	190
	4	428/694 TS	110
	9	428/694 T	96
428/837	1	428/695	3
	2	428/694 TB	4
428/838	1	428/65.3	169
	1	428/692	190
	1	428/694 BN	6
	1	428/694 BU	10
428/839	1	428/694 BM	7
	1	428/694 BN	6
	1	428/694 BS	6
428/839.1	2	428/692	190
428/839.3	1	428/694 BA	27
	1	428/694 BM	7
	1	428/694 BU	10
	2	428/65.3	169
	3	428/694 B	38
428/839.4	1	428/694 BM	7
428/839.6	1	428/694 BM	7
	1	428/694 BP	38
	1	428/694 R	32
	1	428/694 SL	3
428/840	1	428/694 BS	6
428/840.1	1	428/694 B	38
	3	428/65.3	169
428/840.2	1	428/65.3	169
	1	428/65.4	49
	1	428/694 BN	6
	1	428/694 BS	6
428/840.3	1	428/694 BR	5
	3	428/65.3	169
428/840.4	1	428/65.4	49
428/840.5	1	428/65.3	169
	1	428/694 BC	6
	2	428/694 BS	6
	2	428/694 BU	10
428/840.6	2	428/694 B	38
	4	428/65.3	169
428/841	1	428/694 B	38
428/841.1	1	428/65.3	169
	1	428/65.5	37
	1	428/694 BP	38
	1	428/694 BS	6
	1	428/694 BU	10

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
	2	428/694 TP	13
428/841.2	1	428/65.4	49
	1	428/65.5	37
428/841.3	2	428/65.4	49
	5	428/694 BP	38
428/842	1	428/694 BG	12
	1	428/694 BN	6
	1	428/694 BR	5
	1	428/694 BY	2
	2	428/65.3	169
	2	428/694 B	38
428/842.1	1	428/65.3	169
	1	428/692	190
	2	428/694 BA	27
428/842.2	1	428/694 B	38
	1	428/694 BP	38
	1	428/694 T	96
	1	428/694 TM	49
428/842.3	1	428/65.6	24
	1	428/694 BL	2
	1	428/694 BR	5
	2	428/694 RE	8
	3	428/65.3	169
	3	428/694 B	38
	3	428/694 BA	27
428/842.4	1	428/694 B	38
	1	428/694 MT	4
428/842.5	1	428/65.3	169
	1	428/692	190
	1	428/694 BN	6
	1	428/694 BR	5
	3	428/694 B	38
	6	428/694 BA	27
428/842.6	1	428/692	190
	2	428/694 BA	27
428/842.7	1	428/694 B	38
	3	428/694 BA	27
428/842.8	1	428/65.6	24
	1	428/693	33
428/842.8	1	428/694 MT	4
	1	428/694 R	32
	3	428/694 BA	27
	4	428/694 B	38
	5	428/694 BH	6
	6	428/65.3	169

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
428/843.1	1	428/692	190
	1	428/694 B	38
	1	428/694 BA	27
	1	428/694 BN	6
	1	428/694 BP	38
	1	428/694 R	32
	1	428/694 TS	110
428/843.2	1	428/694 B	38
	2	428/694 BP	38
	2	428/694 BU	10
428/843.3	1	428/65.3	169
428/843.4	1	428/694 B	38
	1	428/694 SL	3
	2	428/65.3	169
	2	428/65.4	49
	5	428/694 BG	12
	10	428/694 BP	38
428/843.5	1	428/694 BP	38
	2	428/65.4	49
428/843.6	1	428/65.3	169
	1	428/65.4	49
	1	428/692	190
	2	428/694 BP	38
428/843.7	1	428/694 BB	7
	1	428/694 BU	10
	5	428/694 BP	38
428/844	1	428/65.6	24
	1	428/694 BA	27
428/844.1	1	428/693	33
	1	428/694 BA	27
428/844.2	1	428/65.4	49
	1	428/694 T	96
428/844.3	1	428/694 B	38
428/844.4	1	428/65.3	169
428/844.5	1	428/65.3	169
	1	428/694 BB	7
	1	428/694 BC	6
	1	428/694 BG	12
428/844.5	1	428/694 BL	2
	4	428/694 B	38
428/844.6	1	428/694 BA	27
	4	428/694 BC	6
428/844.7	1	428/65.4	49
	1	428/694 BB	7
	1	428/694 BG	12

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
	1	428/694 BY	2
	1	428/694 R	32
	2	428/65.3	169
	2	428/65.6	24
428/844.71	1	428/65.3	169
	1	428/65.6	24
	1	428/692	190
	1	428/694 B	38
428/844.8	1	428/694 B	38
	1	428/694 BU	10
	2	428/694 BG	12
428/844.9	1	428/694 BA	27
	1	428/694 BP	38
	2	428/694 B	38
	2	428/694 BG	12
428/845	1	428/694 BB	7
428/845.2	1	428/694 B	38
428/845.5	1	428/694 BH	6
	1	428/694 T	96
428/845.6	1	428/694 T	96
428/845.7	3	428/694 BB	7
428/846.1	1	428/692	190
	2	428/65.3	169
428/846.2	1	428/65.5	37
	1	428/65.7	14
	1	428/692	190
	1	428/694 B	38
	4	428/65.3	169
	4	428/65.6	24
428/846.3	2	428/65.3	169
	2	428/694 ST	10
428/846.4	1	428/65.6	24
428/846.5	1	428/65.3	169
428/846.6	1	428/694 TS	110
	3	428/65.3	169
428/846.7	1	428/65.5	37
	1	428/65.6	24
428/846.7	1	428/694 TS	110
428/846.8	1	428/65.3	169
	1	428/694 R	32
	1	428/694 ST	10
428/846.9	1	428/65.4	49
	1	428/65.5	37
	1	428/694 SC	8
	1	428/694 TM	49

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
	2	428/65.6	24
	2	428/694 SG	7
	4	428/694 ST	10
	5	428/65.3	169
428/847	1	428/694 R	32
428/847.1	1	428/65.3	169
428/847.2	1	428/65.3	169
	1	428/694 TS	110
428/847.3	1	428/694 B	38
	3	428/65.3	169
428/847.4	1	428/65.3	169
428/847.7	1	428/65.3	169
428/847.8	1	428/694 SG	7
	1	428/694 SL	3
	2	428/65.3	169
428/848	1	428/64.3	46
	1	428/694 SG	7
	2	428/65.3	169
428/848.1	1	428/694 BM	7
	1	428/694 ST	10
	5	428/65.4	49
	6	428/65.5	37
	8	428/65.3	169
428/848.2	1	428/64.3	46
	1	428/65.4	49
	1	428/65.6	24
	1	428/65.7	14
	3	428/65.5	37
	8	428/65.3	169
428/848.3	1	428/65.3	169
	1	428/65.4	49
	1	428/694 T	96
	1	428/694 TR	5
428/848.4	1	428/64.3	46
	1	428/65.4	49
	1	428/65.7	14
428/848.4	5	428/65.3	169
428/848.5	1	428/64.3	46
	1	428/65.6	24
	1	428/692	190
	1	428/693	33
	1	428/694 BR	5
	2	428/65.5	37
	7	428/65.3	169
428/848.6	1	428/64.3	46

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs
	1	428/65.4	49
	2	428/65.3	169
428/848.7	1	428/65.5	37
	1	428/65.6	24
	2	428/65.4	49
	3	428/65.3	169
428/848.8	1	428/65.7	14
	1	428/694 R	32
	1	428/694 SG	7
	5	428/65.3	169
428/848.9	1	428/694 DE	6
	9	428/64.3	46

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
428/64.3	46	428/817	1
		428/819	3
		428/823	1
		428/825	6
		428/820.5	2
		428/822.3	1
		428/823.1	1
		428/824.5	2
		428/848.2	1
		428/848.9	9
		428/848.6	1
		428/848.5	1
		428/848.4	1
		428/825.1	6
		428/823.2	3
		428/822.4	1
		428/822.2	1
		428/820.4	3
		428/820.3	1
		428/848	1
428/65.3	169	428/814	1
		428/831	7
		428/834	2
		428/838	1
		428/848	2
		428/832.4	1
		428/832.3	1
		428/832.2	6
		428/832.1	1
		428/831.2	7
		428/831.1	1
		428/828.1	1
		428/823.1	1
		428/822.3	1
		428/844.7	2
		428/844.5	1
		428/844.4	1
		428/843.6	1
		428/843.4	2
		428/843.3	1
		428/842.8	6
		428/842.5	1
		428/842.3	3
		428/848.4	5
		428/848.3	1

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/848.2	8
428/65.3	169	428/848.1	8
		428/847.8	2
		428/847.7	1
		428/847.4	1
		428/847.3	3
		428/847.2	1
		428/844.71	1
		428/848.8	5
		428/848.7	3
		428/848.6	2
		428/848.5	7
		428/847.1	1
		428/846.9	5
		428/846.8	1
		428/846.6	3
		428/846.5	1
		428/846.3	2
		428/846.2	4
		428/846.1	2
		428/842.1	1
		428/841.1	1
		428/840.6	4
		428/840.5	1
		428/840.3	3
		428/840.2	1
		428/840.1	3
		428/839.3	2
		428/836.3	2
		428/836.1	4
		428/835.7	1
		428/835.3	1
		428/835.2	1
		428/833.6	1
		428/833.5	3
		428/833.2	4
		428/842	2
		428/835	2
		428/832	4
		428/830	3
		428/827	1
		428/829	1
		428/828	5
428/65.4	49	428/826	2
		428/848.6	1

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/848.4	1
		428/848.3	1
428/65.4	49	428/848.2	1
		428/848.1	5
		428/846.9	1
		428/844.7	1
		428/844.2	1
		428/843.6	1
		428/848.7	2
		428/843.5	2
		428/843.4	2
		428/841.3	2
		428/841.2	1
		428/840.4	1
		428/840.2	1
		428/836.2	2
		428/835.8	5
		428/832.3	1
		428/833.5	2
		428/835.1	2
		428/835.7	2
		428/835.6	5
		428/834	2
		428/833	2
428/65.5	37	428/825	1
		428/841.1	1
		428/835.7	1
		428/835.6	2
		428/835.2	2
		428/833.5	1
		428/833.2	1
		428/833.1	1
		428/832.4	1
		428/832.2	1
		428/848.7	1
		428/848.5	2
		428/848.2	3
		428/848.1	6
		428/846.9	1
		428/846.7	1
		428/846.2	1
		428/841.2	1
		428/831	1
		428/834	1
		428/835	1

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/832.1	1
		428/836	1
		428/830	1
428/65.5	37	428/827	3
428/65.6	24	428/829	1
		428/844.71	1
		428/848.7	1
		428/848.5	1
		428/848.2	1
		428/846.9	2
		428/846.7	1
		428/846.4	1
		428/846.2	4
		428/844.7	2
		428/831.2	2
		428/836.2	1
		428/836.3	2
		428/842.8	1
		428/842.3	1
		428/844	1
		428/831	1
428/65.7	14	428/812	1
		428/848.8	1
		428/848.4	1
		428/848.2	1
		428/846.2	1
		428/836.1	1
		428/830	1
		428/831	1
		428/828.1	1
		428/832.2	2
		428/831.2	1
		428/828	1
		428/826	1
428/692	190	2/161.1	1
		365/32	1
		365/33	1
		428/212	1
		428/800	20
		428/810	4
		428/811	13
		428/812	24
		428/813	3
		428/814	1
		428/815	14

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/821	3
		428/822	2
		428/824	2
		428/826	2
428/692	190	428/828	2
		428/829	1
		428/833	1
		428/836	1
		428/838	1
		428/692.1	6
		428/811.1	3
		428/811.2	35
		428/811.3	7
		428/811.4	6
		428/811.5	6
		428/815.2	3
		428/819.2	1
		428/822.2	5
		428/822.4	1
		428/824.1	1
		428/831.2	1
		428/832.1	1
		428/836.1	1
		428/836.2	2
		428/836.3	2
		428/839.1	2
		428/842.1	1
		428/842.5	1
		428/842.6	1
		428/843.1	1
		428/843.6	1
		428/846.1	1
		428/846.2	1
		428/848.5	1
		428/844.71	1
428/693	33	365/27	1
		365/31	1
		365/33	7
		428/812	1
		428/813	1
		428/814	1
		428/815	2
		428/816	1
		428/826	1
		428/828	1

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/693.1	1
		428/811.2	4
		428/811.3	1
		428/811.5	1
		428/819.1	2
428/693	33	428/820.2	1
		428/820.4	1
		428/822.2	1
		428/832.1	1
		428/842.8	1
		428/844.1	1
		428/848.5	1
428/694 AH	1	428/825	1
428/694 B	38	428/841	1
		428/842	2
		428/836.1	1
		428/839.3	3
		428/840.1	1
		428/840.6	2
		428/842.2	1
		428/842.3	3
		428/842.4	1
		428/842.5	3
		428/842.7	1
		428/842.8	4
		428/843.1	1
		428/843.2	1
		428/843.4	1
		428/844.3	1
		428/844.5	4
		428/844.8	1
		428/844.9	2
		428/845.2	1
		428/846.2	1
		428/847.3	1
		428/844.71	1
428/694 BA	27	428/800	1
		428/844	1
		428/692.1	1
		428/839.3	1
		428/842.3	3
		428/842.6	2
		428/844.9	1
		428/844.6	1
		428/844.1	1

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/843.1	1
		428/842.8	3
		428/842.7	3
		428/842.5	6
		428/842.1	2
428/694 BB	7	428/845	1
428/694 BB	7	428/843.7	1
		428/845.7	3
		428/844.7	1
		428/844.5	1
428/694 BC	6	428/840.5	1
		428/844.6	4
		428/844.5	1
428/694 BG	12	428/842	1
		428/843.4	5
		428/844.8	2
		428/844.7	1
		428/844.5	1
		428/844.9	2
428/694 BH	6	428/842.8	5
		428/845.5	1
428/694 BL	2	428/842.3	1
		428/844.5	1
428/694 BM	7	428/828	2
		428/839	1
		428/839.3	1
		428/839.4	1
		428/848.1	1
		428/839.6	1
428/694 BN	6	428/838	1
		428/839	1
		428/842.5	1
		428/840.2	1
		428/842	1
		428/843.1	1
428/694 BP	38	428/827	1
		428/835.7	1
		428/843.5	1
		428/843.4	10
		428/843.2	2
		428/843.1	1
		428/842.2	1
		428/841.3	5
		428/841.1	1
		428/839.6	1

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/835.8	2
		428/844.9	1
		428/843.7	5
		428/843.6	2
		428/835.6	3
		428/832.4	1
428/694 BR	5	428/842	1
428/694 BR	5	428/842.3	1
		428/848.5	1
		428/842.5	1
		428/840.3	1
428/694 BS	6	428/839	1
		428/840	1
		428/840.2	1
		428/840.5	2
		428/841.1	1
428/694 BU	10	428/838	1
		428/844.8	1
		428/843.7	1
		428/843.2	2
		428/841.1	1
		428/840.5	2
		428/831.2	1
		428/839.3	1
428/694 BY	2	428/842	1
		428/844.7	1
428/694 DE	6	428/823	1
		428/824.5	1
		428/824.4	1
		428/824.2	2
		428/848.9	1
428/694 EC	8	428/819.1	1
		428/820.5	1
		428/820.6	2
		428/820.4	1
		428/819.3	3
428/694 GT	2	428/822.2	2
428/694 ML	94	428/812	1
		428/817	2
		428/819	7
		428/821	3
		428/822.3	9
		428/822.2	2
		428/822.1	3
		428/820.6	8

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/820.5	2
		428/820.4	2
		428/820.3	4
		428/820.2	5
		428/820.1	3
		428/819.3	3
		428/819.2	6
		428/819.1	3
428/694 ML	94	428/811.2	1
		428/826	1
		428/825	1
		428/823	1
		428/822	3
		428/825.1	1
		428/824.5	4
		428/824.4	1
		428/824.2	2
		428/824.1	2
		428/823.2	1
		428/823.1	3
		428/822.5	2
		428/822.4	5
		428/828.1	1
		428/820	1
		428/818	1
428/694 MM	11	428/822	1
		428/827	1
		428/819.1	1
		428/820.1	3
		428/820.4	2
		428/820.3	1
		428/819.2	2
428/694 MT	4	428/823	1
		428/820.4	1
		428/842.4	1
		428/842.8	1
428/694 NF	4	428/821	1
		428/836.3	1
		428/836.1	1
		428/824.4	1
428/694 R	32	428/800	1
		428/810	2
		428/812	5
		428/813	2
		428/814	1

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/815	2
		428/826	2
		428/847	1
		428/811.5	1
		428/815.2	1
		428/820.4	1
		428/822.4	1
		428/824.2	1
		428/824.5	1
428/694 R	32	428/832.1	1
		428/835.8	1
		428/836.2	2
		428/839.6	1
		428/842.8	1
		428/843.1	1
		428/844.7	1
		428/846.8	1
		428/848.8	1
428/694 RE	8	428/819.2	1
		428/824.2	2
		428/824.4	1
		428/822.3	1
		428/819.3	1
		428/842.3	2
428/694 RL	1	428/823.1	1
428/694 SC	8	428/823	1
		428/819.1	2
		428/822.4	1
		428/846.9	1
		428/822.3	2
		428/819.3	1
428/694 SG	7	428/829	1
		428/831.2	1
		428/848.8	1
		428/847.8	1
		428/846.9	2
		428/848	1
428/694 SL	3	428/839.6	1
		428/843.4	1
		428/847.8	1
428/694 ST	10	428/813	1
		428/848.1	1
		428/846.9	4
		428/846.8	1
		428/846.3	2

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/826	1
428/694 T	96	365/32	1
		428/812	6
		428/826	13
		428/827	1
		428/828	2
		428/829	2
		428/830	2
		428/831	9
		428/832	2
428/694 T	96	428/834	1
		428/32.1	1
		428/811.3	1
		428/819.1	1
		428/822.1	1
		428/822.3	1
		428/828.1	1
		428/831.1	1
		428/831.2	1
		428/832.1	3
		428/832.2	5
		428/833.6	1
		428/835.7	2
		428/835.8	2
		428/836.1	8
		428/836.2	14
		428/836.3	9
		428/842.2	1
		428/844.2	1
		428/845.5	1
		428/845.6	1
		428/848.3	1
428/694 TB	4	428/837	2
		428/836.2	1
		428/836.3	1
428/694 TC	2	428/835.2	2
428/694 TF	2	428/833.5	1
		428/835.7	1
428/694 TM	49	428/826	1
		428/827	4
		428/828	16
		428/829	5
		428/830	5
		428/831	3
		428/832	1

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/811.2	1
		428/811.3	1
		428/820.6	1
		428/828.1	2
		428/831.2	1
		428/832.1	1
		428/832.2	2
		428/836.1	2
		428/836.2	1
		428/842.2	1
		428/846.9	1
428/694 TP	13	428/827	3
		428/829	1
		428/833.2	3
		428/835.6	1
		428/835.7	1
		428/836.2	1
		428/836.3	1
		428/841.1	2
428/694 TR	5	428/831.2	1
		428/832.2	1
		428/835.5	2
		428/848.3	1
428/694 TS	110	428/812	1
		428/813	1
		428/826	4
		428/827	4
		428/828	9
		428/830	1
		428/831	17
		428/832	3
		428/824.2	1
		428/824.5	1
		428/828.1	2
		428/831.1	4
		428/831.2	14
		428/832.1	6
		428/832.2	26
		428/832.3	1
		428/833.3	1
		428/836.1	4
		428/836.2	2
		428/836.3	4
		428/843.1	1
		428/846.6	1

DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT
PROJECT: C5875

Generated by: Data Control Division

Source Classification	Number Of ORs	New Classification	Number Of ORs
		428/846.7	1
		428/847.2	1
428/694 TZ	3	428/831	1
		428/835.6	1
		428/836.2	1
428/694 XS	2	428/824.2	2
428/695	3	428/833	1
		428/837	1
		428/835.8	1

C. CHANGES TO THE U.S. – I.P.C. CONCORDANCE

U.S. Class	U.S. Subclass	I.P.C. Subclass	I.P.C. Notation
428	692.1	B32B	15/00
	693.1		15/04
	800, 810	G11B	05/33
	811-811.5		05/39
	812-816		05/33
	817-820.6		05/66
	821		05/65
	822-825		05/66
	825.1		05/725
	826		05/64
	827-832.4		05/66
	833-836.3		05/65
	837		05/64
	838		05/838
	839-841.3		05/716
	842-843.2		05/708
	843.3-843.7		05/71
	844-848.9		05/706

D. CHANGES TO THE DEFINITIONS (Project C-5875)

CLASS 29 – METAL WORKING

Definitions Modified

Subclass 603.1: After the subclass definition

Insert:

SEE OR SEARCH CLASS:

428, Stock Material or Miscellaneous Articles, subclasses 800-848.9 for magnetic recording component or stock, having disclosed utility in dynamic magnetic recording, reproducing, or storage or in a component intended for information storage, with specific chemical composition or physical chemistry.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

CLASS 148 – METAL TREATMENT

Definitions Modified

Class Definition: Under SECTION IV – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 692.1 and 693.1 for stock materials having a defined magnetic layer; and subclasses 800-848.9 for magnetic heads, and magnetic and magneto-optic storage medium, per se, with specific detail of composition or physical chemistry (e.g., materials, microstructure, surface property, etc.).

Subclass 300: Under SEE OR SEARCH CLASS

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 692.1 and 693.1 for stock materials having a defined magnetic layer and subclasses 800-848.9 for magnetic recording component or stock.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

CLASS 242 – WINDING, TENSIONING, OR GUIDING

Definitions Modified

Class Definition: Under SECTION V – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 826-837 and 838-845.7 for specific magnetic recording media and subclasses 846-848.9 for recording media substrates relating to a roll or coil.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

CLASS 360 – DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL

Definitions Modified

Class Definition: Under SECTION IV – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 800-848.9 for magnetic heads, and magnetic and magneto-optic storage medium, per se, having specific detail of physical chemistry or composition (e.g., material, microstructure, surface property, etc.).

Subclass 77.01: Under SEE OR SEARCH CLASS

Insert:

428, Stock Material or Miscellaneous Articles, subclass 845.6 for magnetic storage medium having backcoat layer for servo tracking, with specific physical chemistry or chemical composition; and subclass 848.5 for magnetic storage medium having specified pits, tracks, or indicia with specific physical chemistry or chemical composition.

Subclass 110: Under SEE OR SEARCH CLASS

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 810-816 for magnetic recording component or stock with specified composition or physical chemistry, such as microstructure, or property resulting from microstructure, composition, or chemistry.

Subclass 131: Under SEE OR SEARCH CLASS

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 800-848.9 for magnetic recording component or stock distinguished by composition or physical chemistry (e.g., materials, microstructure, surface property, etc.), usable as

D. CHANGES TO THE DEFINITIONS (Project C-5875)

magnetic record carrier or component; subclasses 817-825.1 for media or magnetizable material free of polymeric binder; subclasses 826-837 for magneto-optical stock material; subclasses 838-845.7 for media wherein the magnetizable material is in particulate form dispersed in a binder; and subclasses 846-848.9 for media substrates.

Subclass 133: After the subclass definition

Insert:

SEE OR SEARCH CLASS:

428, Stock Material or Miscellaneous Articles, subclass 848.7 for stock articles distinguished by composition or physical chemistry, usable as magnetic record carriers in the form of the disk within enclosure.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

CLASS 369 – DYNAMIC INFORMATION STORAGE OR RETRIEVAL

Definitions Modified

Subclass 13.35: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 817-825.1 for magneto-optic storage medium, per se, with specific composition of materials or physical chemistry; and subclass 848.9 for magneto-optic media disk substrate, per se, with specific composition of materials or physical chemistry.

Subclass 13.41: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 817-825.1 for magneto-optic storage medium, per se, with specific chemical composition or physical chemistry.

Subclass 13.42: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 819-819.4 for magneto-optic storage medium having a unit structure of three or more differing magnetic layers in series, per se, having a specific chemical composition or physical chemistry.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

Subclass 13.44: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Subclass 13.45: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 822.3-822.5 for magneto-optic storage medium stock, per se, having rare earth in single magneto-optic magnetic layer.

Subclass 13.49: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 817-825.1 for magneto-optic storage medium, per se, having a specific chemical composition or physical chemistry.

Subclass 13.5: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 822.3-822.5 for magneto-optic storage medium stock, per se, having rare earth in single magneto-optic magnetic layer.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

Subclass 272.1: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 817-825.1 for magneto-optic storage medium, per se, with specific chemical composition or physical chemistry.

Subclass 286: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 817-825.1 for magneto-optic storage media, per se, with specific composition or physical chemistry; subclass 848.9 for magneto-optic media disk substrate of specific composition or physical chemistry.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

CLASS 427 – COATING PROCESSES

Definitions Modified

Subclass 131: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 428

Insert:

428, Stock Material or Miscellaneous Articles, subclasses 692.1 and 693.1 for stock materials having a defined magnetic layer; and subclasses 800-848.9 for magnetic recording component or stock, with specific chemical composition or physical chemistry.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

CLASS 428 – STOCK MATERIAL OR MISCELLANEOUS ARTICLES

Definitions Abolished

Subclasses

64.3, 65.3-65.7, 692-695

Definitions Modified

Class Definition: Under SECTION IV – GLOSSARY, after the definition for ANIMAL MEMBRANE

Insert:

ANTIFERROMAGNETISM

Antiferromagnetism occurs when the exchange interaction between neighboring atoms cancel each other, so the net magnetic moment is zero. Examples of antiferromagnetic materials are (Pt, Ir, Cr , and Pd) Mn alloys, and select transition metal oxides.

Under SECTION IV – GLOSSARY, after the definition for FABRIC

Insert:

FERRIMAGNETISM

Ferrimagnetic materials exhibit exchange interaction between neighboring atoms leading to adjacent moments; however, the magnetic moments are unequal and opposite in direction. The magnetic properties of ferrimagnetic materials are strongly temperature dependent and are characterized by their Curie temperature. Examples of ferrimagnetic materials are rare earth-transition metal amorphous alloys, such as GdFeCo, TbFeCo, and select granular transition-metal alloys.

FERROMAGNETISM

Ferromagnetic materials exhibit exchange interaction between neighboring atoms leading to adjacent moments. Ferromagnetism is temperature dependent and field strength dependent. Typical ferromagnetic materials include transition metals such as Fe, Ni, and Co and their alloys.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

Under SECTION IV – GLOSSARY, after the definition for LAYER

Insert:

MAGNETIC

A material exhibiting the inherent property of magnetism, which is dependent on the electronic configuration of the atom, crystalline and molecular structure, and coupling between electrons arising from the orbital and spin magnetic moments of the nucleus and electrons. A material is considered magnetic for the purposes of this class if it exhibits a nonzero magnetic moment, such as in paramagnetism, ferromagnetism, and ferrimagnetism.

Under SECTION IV – GLOSSARY, after the definition for PAPER

Insert:

PARAMAGNETISM

Paramagnetic materials have magnetic moments not completely canceled because of electronic configuration and exhibit a resultant moment. Paramagnetic susceptibility is strongly temperature dependent. Examples of paramagnetic materials are CoCr alloys at specific Cr concentrations and materials exhibiting specific size ranges of either the magnetic grains or particle dimensions.

Subclass 611: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Insert:

800-848.9, for magnetic recording component or stock.

Definitions Established

692.1 Defined magnetic layer:
Subject matter under subclass 689 in which a layer or component thereof has disclosed properties which include magnetic susceptibility.

SEE OR SEARCH THIS CLASS, SUBCLASS:

800-848.9, for magnetic recording component or stock, with specific chemical composition or physical chemistry.

900, for an article having a magnetic feature.

693.1 Next to second metal compound-containing layer:
Subject matter under subclass 692.1 wherein the magnetic component is in a metal compound-containing layer next to another metal compound-containing layer.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

800 MAGNETIC RECORDING COMPONENT OR STOCK:
Stock material under the class definition comprising a laminate of one or more layers deposited on a substrate, which laminate has a disclosed utility in a dynamic magnetic recording, magnetic reproducing, or magnetic storage apparatus or in a component thereof that consists of a layer of magnetizable material deposited on a substrate intended for information storage.

(1) Note. This subclass does not provide for magnetic recording media having an information-bearing track.

(2) Note. Subclasses 544-691 have not been exhaustively screened for patents which meet the definition of subclasses 800-848.9; a search of these subclasses, in particular subclass 611, may thus be appropriate to ensure a complete search.

SEE OR SEARCH THIS CLASS, SUBCLASS:

846-848.9, for magnetic recording media structures that includes a specified substrate structure.

SEE OR SEARCH CLASS:

360, Dynamic Magnetic Information Storage or Retrieval, appropriate subclasses for storage elements that include discrete magnetic areas, inserts, spots, etc.

365, Static Information Storage and Retrieval, appropriate subclasses for static memory.

369, Dynamic Information Storage or Retrieval, appropriate subclasses for processes and apparatus for the storage or retrieval of arbitrarily variable information which is retained in a storage medium by variation of a physical characteristic, where the information is stored or retrieved by causing or sensing a variation of physical characteristic of the storage medium by a transducer having relative motion along a continuous path; and subclasses 272.1-291.1 for information-bearing storage medium with structure having an information-bearing track.

810 Magnetic head:
Subject matter under subclass 800 in which the laminate of one or more layers has a disclosed utility as a component in a magnetic head or transducer (i.e., layer or laminate intended to sense stored magnetic information or to magnetically record information on a media) and which has a specified chemical composition, microstructure, or a property resulting from or influenced by microstructure of a layer or layers.

(1) Note. The term "*microstructure*" is intended to mean atomic, magnetic, crystalline, molecular, or dimensional characteristics of less than 100 microns.

(2) Note. A magnetic head or transducer is a device especially adapted to generate an electrical signal in response to a recorded magnetic bit on a media (e.g., a tape or disc) in relative motion to the device or to record a bit of information by magnetization in response to an electrical signal.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

SEE OR SEARCH CLASS:

29, Metal Working, subclass 603.1 for a device which either (1) exhibits magnetic attraction when electrical current is applied, or (2) changes the magnitude or phase of an alternating current by inductive coupling, or (3) impedes a change of current flow by induced magnetism.

420, Alloys or Metallic Compositions, appropriate subclasses for alloy stock or strands which are claimed broadly as "magnetic", or "magnetized" or "permanent magnet" or are defined only in terms of their composition but are inherently magnetic, and for metallic stock or strands composed of a single metal.

811 Magnetoresistive:
Subject matter under subclass 810 in which the laminate has material whose resistance varies in accordance with a magnetic field.

SEE OR SEARCH CLASS:

324, Electricity: Measuring and Testing, subclass 252 for magneto-resistive sensing means.

338, Electrical Resistors, subclass 32 for an electrical resistor which is responsive to a magnetic field.

365, Static Information Storage and Retrieval, subclass 8 for magnetic bubbles which use magnetoresistive devices, and subclass 158 for static storage systems which use magnetoresistive-type storage elements.

369, Dynamic Information Storage or Retrieval, subclasses 113-115 for magnetoresistive heads with or without specified chemical composition, microstructure, or property.

811.1 Having tunnel junction effect:
Subject matter under subclass 811 in which the laminate has at least one tunnel junction effect.

(1) Note. Ferromagnetic magneto-resistive tunnel junction effect occurs when a current is applied in direction of the laminate between ferromagnetic layers sandwiching a nonmetal tunnel barrier layer; a tunnel current flowing in the tunnel barrier layer then changes, depending on the relative angle of magnetization between ferromagnetic layers.

SEE OR SEARCH CLASS:

360, Dynamic Magnetic Information Storage or Retrieval, subclass 324.2 for tunnel junction effect in a magnetic head.

811.2 Multilayer:
Subject matter under subclass 811 in which the laminate comprises two or more layers, at least one of which exhibits magneto resistance.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

811.3 Super lattice (e.g., giant magneto resistance (GMR) or colossal magneto resistance (CMR), etc.):
Subject matter under subclass 811.2 in which the multilayered laminate has repeated occurrence of a sequence of layers forming a single sensor.

(1) Note. Each sequence of layers whose sequence periodically repeats is termed a "period". The magnetoresistive response is dependent on the quantity of periods.

811.4 Single film:
Subject matter under subclass 811 in which the laminate contains a single layer exhibiting magneto resistance.

811.5 With defined structural feature:
Subject matter under subclass 811 in which the laminate has a particular structure specified such as a micro or macro physical topographic feature.

(1) Note. Sequence of the layers is not provided for in this subclass.

812 Magnetic layer composition:
Subject matter under subclass 810 in which the laminate has a chemical composition specified for one or more of the magnetic layers.

(1) Note. The term "specified" means that a substance is identified by its chemical name or by its class of chemical compound structure (i.e., greater specificity than "organic compound" or "inorganic compound" is required).

SEE OR SEARCH CLASS:

106, Compositions: Coating or Plastic, particularly subclass 749 for strands, filaments, and records distinguished solely by compositions.

148, Metal Treatment, subclasses 300-315 for stock magnetic material claimed as resulting from metal treatment.

206, Special Receptacle or Package, subclasses 307-387.15 for a container for removably containing an article which includes machine readable information registered thereon.

235, Registers, subclass 493 for a record containing discrete bits which are coded markings on a record of magnetic material.

252, Compositions, subclasses 62.51-62.64 for compositions specialized and designed for use as magnetic materials, substances peculiar to such compositions, or processes of making compositions or substances.

346, Recorders, subclasses 134-138 for nonmagnetic records.

352, Optics: Motion Pictures, subclasses 1-37 for sound recording, including magnetic sound records, combined with motion picture structure.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

420, Alloys or Metallic Compositions, appropriate subclasses for alloys or strands recited broadly as “magnetic”, or “magnetized” or “permanent magnet” or defined only in terms of their inherently magnetic composition, and for metallic stock or strands composed of a single metal.

813 Substrate composition:
Subject matter under subclass 810 in which the laminate has the chemical composition of the substrate identified.

(1) Note. The expression “chemical composition of the substrate identified” means that a substance is identified by its chemical name or by its class of chemical compound (i.e., greater specificity than “glass” or “inorganic compound” is required).

814 With protective film:
Subject matter under subclass 810 in which the laminate has a layer or coating disclosed to resist physical or chemical deterioration or damage.

815 With defined laminate structural detail:
Subject matter under subclass 810 in which the laminate microstructure or macrostructure has been specified.

(1) Note. The term “specified” means that a substance is identified by its structure name or by its class of structure (i.e., greater specificity than “microstructure” or “macrostructure” is required).

815.1 Head with slider structure:
Subject matter under subclass 815 in which the surface of the laminate head has a structure to allow for sliding contact with a magnetic recording media surface.

SEE OR SEARCH CLASS:

360, Dynamic Magnetic Information Storage or Retrieval, subclasses 234.3-237.1 for a floating slider in a fluid-bearing head support and subclass 246.2 for a full contact slider.

369, Dynamic Information Storage or Retrieval, subclass 300 for specific slider structure provided on a slider which is part of an optical head.

815.2 With head pole component:
Subject matter under subclass 815 in which a chemical or microstructural feature includes a head pole component for reading information stored in the media by sensing transitions of magnetic domains.

816 With interlaminar component (e.g., adhesion layer, etc.):
Subject matter under subclass 810 in which the laminate includes a component in between layers (e.g., specified for adhesion or cohesion between adjacent layers).

D. CHANGES TO THE DEFINITIONS (Project C-5875)

817 Magneto-optical media stock:
Subject matter under subclass 800 for a magnetic recording medium where the magnetic flux intensity from a recorded bit is determined by directing a beam of polarized light at the record surface and detecting the rotation angle of polarization caused by the flux.

SEE OR SEARCH CLASS:

360, Dynamic Magnetic Information Storage or Retrieval, subclass 114.1 for a magnetic record carrier, an element which consists of magnetizable material or comprised of a coating or impregnation of magnetizable material which includes discrete magnetic areas, inserts, spots, etc., each intended for the storage of single bits of information.

369, Dynamic Information Storage or Retrieval, subclasses 13.35-13.55 for storage media in combination with a light beam without specified composition or physical chemistry and subclass 272.1 for information-bearing storage medium with structure having an information-bearing track.

818 Multiple magnetic layers, at least one of which is magneto-optic:
Subject matter under subclass 817 in which the laminate medium contains two or more magnetic layers, at least one of which is intended for magneto-optic recording.

819 Unit structure (i.e., three or more differing magnetic layers in series):
Subject matter under subclass 818 in which the medium has three or more magnetic layers forming a structure as a unit.

819.1 Reoccurring unit structure:
Subject matter under subclass 819 in which the medium has the unit structure repeated multiple times.

819.2 Only three adjacent magnetic layers form series:
Subject matter under subclass 819 in which the medium has just three contiguous magnetic layers.

819.3 Only four or six adjacent magnetic layers form series:
Subject matter under subclass 819 in which the medium has just four or six contiguous magnetic layers.

819.4 Magnetic layers and at least one intervening nonmagnetic layer (e.g., antiferromagnetic, dielectric, etc.):
Subject matter under subclass 819 in which the medium includes at least one nonmagnetic layer, positioned between adjacent magnetic layers (e.g., antiferromagnetic, paramagnetic, etc.).

820 Only two magnetic layers, at least one of which is magneto-optic:
Subject matter under subclass 818 in which the medium has only two magnetic layers present, at least one of which is magneto-optic responsive.

820.1 Magnetic layer pairs separated by single nonmagnetic (e.g., antiferromagnetic, dielectric, etc.) layer:
Subject matter under subclass 820 in which the medium has two magnetic layers separated by a nonmagnetic layer (e.g., antiferromagnetic, paramagnetic, etc.).

D. CHANGES TO THE DEFINITIONS (Project C-5875)

820.2 Adjacent magnetic layers:
Subject matter under subclass 820 in which the medium has magnetic layers specified as being directly adjacent each other.

820.3 Having in-plane orientated magnetization:
Subject matter under subclass 820.2 in which the medium has magnetic layers with magnetization aligned in the same magnetic plane.

820.4 Magnetic layer composition specified:
Subject matter under subclass 820.2 in which the medium has a chemical composition of at least one magnetic layer specified.

(1) Note. The term "specified" means that a substance is identified by its chemical name or by its class of chemical compound (i.e., greater specificity than "organic compound" or "inorganic compound" is required).

820.5 Specified performance related property (e.g., Kerr rotation, etc.):
Subject matter under subclass 820.2 in which one or more of the magnetic layers has properties (physical or chemical) related to performance identified.

(1) Note. The term "identified" means that a substance is identified by its property explicitly set forth in definite parameter terms.

820.6 Curie temperature:
Subject matter under subclass 820.5 in which the property specified is the Curie temperature of at least one component.

(1) Note. The Curie temperature is the temperature above which the molecular forces of magnetism of paramagnetic bodies cease to exist.

821 Single magneto-optic magnetic layer:
Subject matter under subclass 817 in which the one magnetic layer present in the medium is a magneto-optic layer.

822 Magneto-optic magnetic layer contains transition metal:
Subject matter under subclass 821 in which the single magneto-optic magnetic layer contains an elemental or an alloyed transition metal.

(1) Note. In the periodic table, transition metals include elements 21 through 30 (scandium through zinc), 39 through 48 (yttrium through cadmium), 57 through 80 (lanthanum through mercury), and 89 through 103 (actinium through lawrencium).

822.1 Magnetic transition metal oxide in magneto-optic layer:
Subject matter under subclass 822 in which the single magneto-optic layer has an oxide of a transition metal.

822.2 Having garnet crystal structure:
Subject matter under subclass 822.1 in which the magnetic transition metal oxide has the garnet crystal structure.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

822.3 Rare-earth or lanthanum series element with iron or cobalt or nickel:
Subject matter under subclass 822 in which the medium contains one or more of Fe, Co, or Ni, in addition to one or more rare-earth element (i.e., an element of the group scandium (Sc), yttrium (Y), or lanthanum series) (i.e., elements of atomic numbers 57-71) element.

822.4 With additional element(s) other than rare-earth or lanthanum series element and iron, cobalt, or nickel:
Subject matter under subclass 822.3 in which the medium contains one or more elements in addition to the rare-earth or lanthanum series element, with iron or cobalt or nickel that is other than a rare-earth or lanthanum series element or iron or cobalt or nickel.

822.5 Rare-earth or lanthanum series element contained in separate lattice phase (e.g., scandium or yttrium in separate phase from FeCoNi, etc.):
Subject matter under subclass 822.3 in which the medium contains more than one phase wherein the rare-earth element is in a separate phase from the iron or cobalt or nickel containing phase.

823 With nonmagnetic metal (e.g., antiferromagnetic metal layer, Cu layer, etc.):
Subject matter under subclass 821 in which the medium contains a nonmagnetic metal layer or antiferromagnetic layer.

823.1 Metal reflecting layer (e.g., reflecting polarized beam, etc.):
Subject matter under subclass 823 in which the metal layer is for reflecting a beam of (polarized) light.

823.2 Al -, Ag -, Au -, or Cu-base reflecting layer:
Subject matter under subclass 823.1 in which the metal reflective layer is an elemental metal or alloy of more than 40% Al (aluminum), Ag (silver), Au (gold), or Cu (copper), or a combination of two or more of these metals.

824 With dielectric layer (e.g., SiO, AlN, ZnS, MgF_2, etc.):
Subject matter under subclass 821 in which the medium also contains a layer that is dielectric.

824.1 Plural dielectric layers or sections:
Subject matter under subclass 824 in which the dielectric layer is in more than one layer or in portions.

824.2 Plural compounds in single dielectric layer (e.g., mixed layer of TiN and TiC, etc.):
Subject matter under subclass 824 in which the dielectric layer includes two or more distinct compounds.

824.3 Dielectric layer having chalcogen (i.e., O, S, Se, or Te) compound:
Subject matter under subclass 824 in which the dielectric layer includes a chalcogen compound.

(1) Note. The term “chalcogen” includes oxygen, sulfur, selenium, or tellurium.

824.4 Dielectric layer having nitride or carbide compound (e.g., TiN, TiC, etc.):
Subject matter under subclass 824 in which the dielectric layer has a carbide or nitride compound (e.g., TiC, TiN).

D. CHANGES TO THE DEFINITIONS (Project C-5875)

824.5 Dielectric layer having refractive index specified:
Subject matter under subclass 824 in which the dielectric layer has a numerically specified refractive index.

825 With topcoat:
Subject matter under subclass 821 in which the medium has a layer on its outermost surface (e.g., carbon or organic compound).

825.1 Lubricant:
Subject matter under subclass 825 in which the topcoat is a lubricant (i.e., a substance for reducing friction (e.g., perfluoropolyether, etc.)).

826 Thin film media:
Subject matter under subclass 800 in which the media or magnetizable material is a continuous layer free of polymeric binder having a thickness of approximately 1 angstrom to 100 micrometers.

SEE OR SEARCH CLASS:

148, Metal Treatment, subclasses 300-315 for stock magnetic material claimed as resulting from metal treatment.

252, Compositions, subclasses 62.51-62.64 for compositions specialized and designed for use as magnetic materials, substances peculiar to such compositions, or processes of making the compositions or substances.

346, Recorders, subclasses 134-138 for nonmagnetic records.

352, Optics: Motion Pictures, subclasses 1-37 for sound recording, including magnetic sound records, combined with motion picture structure.

360, Dynamic Magnetic Information Storage or Retrieval, subclass 131 for specific structure of a record carrier for the storage of information.

365, Static Information Storage and Retrieval, subclasses 86 and 87 for static memory systems, apparatus, or processes using thin film magnetic shift register where information is transferred (shifted) from one magnetic element to another along an array where the magnetic element is thin film material; and subclass 171 for a nonshifting system where the magnetic element is thin film media.

420, Alloys or Metallic Compositions, appropriate subclasses for alloy stock or strands which are claimed broadly as “magnetic”, or “magnetized” or “permanent magnet” or are defined only in terms of their composition but are inherently magnetic, and for metallic stock or strands composed of a single metal.

430, Radiation Imagery Chemistry: Process, Composition, or Product Thereof, subclass 39 for products or processes where magnetic force forms an image.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

827 Multiple magnetic layers:
Subject matter under subclass 826 in which the medium contains more than one magnetic layer.

SEE OR SEARCH CLASS:

360, Dynamic Magnetic Information Storage or Retrieval, appropriate subclasses for magnetic recording media that consists of a layer of magnetizable material deposited on a substrate that is intended for the storage of more than a single bit of information.

828 Magnetic layers separated by nonmagnetic (antiferromagnetic, Cu, dielectric, etc.) layer(s):
Subject matter under subclass 827 in which there is at least one intervening nonmagnetic or antiferromagnetic layer between magnetic layers.

828.1 Three or more magnetic layers on one substrate side:
Subject matter under subclass 828 in which the medium has at least three magnetic layers on a single side of the substrate, with at least one intervening nonmagnetic or antiferromagnetic layer.

829 Differing compositions in plurality of magnetic layers (e.g., layer compositions having differing elemental components, different proportions of elements, etc.):
Subject matter under subclass 827 having two or more magnetic layers, with each layer having a different composition.

830 Plural magnetic layers of same empirical composition, each with different structure (e.g., differing crystalline lattice, atomic structure, etc.):
Subject matter under subclass 827 having a plurality of magnetic layers having the same chemical constituents but differing in crystal lattice or molecular arrangement.

831 Single magnetic layer having two or more nonmagnetic underlayers (e.g., seed layers, barrier layers, etc.):
Subject matter under subclass 826 in which the medium has a single magnetic layer and at least two nonmagnetic layers between substrate and the magnetic layer.

(1) Note. “Underlayer” encompasses a layer designated by position (e.g., precoat layer, prelayer, base layer, sublayer, ground layer) or designated by function such as nucleation layer, seed layer, barrier layer, corrosion prevention layer, diffusion prevention layer, or texture layer.

(2) Note. This subclass includes chemically modified substrate surface (e.g., oxidized, etc.).

831.1 Including NiP underlayer:
Subject matter under subclass 831 in which the medium includes NiP underlayer.

831.2 Specified physical structure of underlayer (e.g., texture, etc.):
Subject matter under subclass 831 in which the medium underlayer includes an identified physical structure.

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(1) Note. This subclass provides for microstructure influencing magnetic properties.

SEE OR SEARCH THIS CLASS, SUBCLASS:

848.2 and 848.3, for disk substrates having a specified roughness or texture above the microscale (i.e., more than 100 micrometers).

847.4-847.7, for substrates with texture as an end result of a layer.

832 Single magnetic layer and single underlayer:
Subject matter under subclass 826 in which the medium has a single magnetic layer and a single layer between substrate and the magnetic layer.

832.1 Co or Co-base magnetic layer:
Subject matter under subclass 832 in which the medium single magnetic layer is cobalt or cobalt-base alloy containing 40% or more cobalt.

832.2 Cr or Cr-base underlayer:
Subject matter under subclass 832.1 in which the medium single underlayer consists of chromium or chromium-base alloy containing 40% or more chromium.

832.3 Ni or Ni-base underlayer:
Subject matter under subclass 832 in which the medium single underlayer consists of nickel or nickel-base alloy containing 40% or more nickel.

832.4 Polymeric underlayer (e.g., polymeric adhesion layer, plasma polymerized carbon, etc.):
Subject matter under subclass 832 in which the medium single underlayer is polymeric.

833 Single magnetic layer with plural overcoat layers:
Subject matter under subclass 826 in which the medium includes a single magnetic layer and two or more layers on its upmost side.

(1) Note. The outer surface side is the side facing away from the substrate and adjacent to the magnetic layer.

833.1 Inorganic overcoat layer:
Subject matter under subclass 833 in which the medium has an overcoat layer that is inorganic.

(1) Note. The term “inorganic” means that the components do not include organic carbon bonds.

833.2 Carbon overcoat (e.g., graphite, diamond like, doped carbon, etc.):
Subject matter under subclass 833.1 in which at least one of the inorganic overcoat layers is made of carbon (e.g., graphite, etc.).

833.3 With lubricant over carbon layer:
Subject matter under subclass 833.2 in which the overcoat layer includes a lubricant (i.e., a substance for reducing friction or wear) directly on the carbon layer.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

(1) Note. Included in this subclass are lubricants which are chemically or physically bonded to the carbon layer.

833.4 Plural lubricant layers over carbon layer:
Subject matter under subclass 833.3 in which the medium has at least two distinct layers of lubricant over the carbon layer.

833.5 Having elemental nitrogen in carbon layer:
Subject matter under subclass 833.2 in which the carbon layer contains uncombined nitrogen.

833.6 With lubricant:
Subject matter under subclass 833.5 in which the carbon layer has a lubricant (i.e., a substance for reducing friction).

834 Single magnetic layer with single specified overcoat layer:
Subject matter under subclass 826 in which the medium has a single magnetic layer and a single overcoat layer.

SEE OR SEARCH THIS CLASS, SUBCLASS:

833.3, 833.4, and 833.6, for specific lubricants in combination with a specified overcoat layer.

835 Carbon overcoat (e.g., graphite, diamond like, doped carbon, etc.):
Subject matter under subclass 834 in which the single overcoat layer is made of carbon (e.g., graphite, etc.).

835.1 Sputter-formed carbon overcoat:
Subject matter under subclass 835 in which the single elemental carbon overcoat layer has been formed by sputtering.

SEE OR SEARCH CLASS:

204, Chemistry: Electrical and Wave Energy, subclass 192.11 for sputter deposition processes.

835.2 Plasma-formed carbon overcoat:
Subject matter under subclass 835 in which the single elemental carbon overcoat layer of the medium has been formed by plasma deposition.

SEE OR SEARCH CLASS:

204, Chemistry: Electrical and Wave Energy, subclass 192.38 for vacuum arc discharge coating utilizing processes for the deposition of a coating onto a substrate within a vacuum environment by the action of an arc discharge between an anode and a cathode wherein the source material is the cathode, per se, or the source material is on the cathode.

219, Electric Heating, particularly subclasses 73.11, 73.21, and 76.1-77 for coating operations that involve a buildup of metal coating on a metal work piece and wherein an arc between an electrode and the work is utilized.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

427, Coating Processes, subclasses 127-132 for forming a magnetic coating.

835.3 Fullerene carbon:
Subject matter under subclass 835 in which the single elemental carbon overcoat layer contains fullerene carbon.

(1) Note. Fullerene carbon is generally carbon with 20-1,000 atoms having pentagonal or hexagonal faces.

835.4 Containing elemental nitrogen in carbon overcoat:
Subject matter under subclass 835 in which the carbon overcoat layer contains uncombined nitrogen.

835.5 Textured surface overcoat:
Subject matter under subclass 835 in which the single elemental carbon overcoat layer has a specified texture or a particular external surface quality.

835.6 Organic compound overcoat:
Subject matter under subclass 834 in which the single overcoat layer of the medium is comprised of an organic compound.

(1) Note. When the expression “organic compound” is used in this class, it means a compound characterized by two carbons bonded together, one atom of carbon bonded to at least one atom of hydrogen or halogen, or one atom of carbon bonded to at least one atom of nitrogen by a single or double bond.

835.7 Fluorocarbon:
Subject matter under subclass 835.6 in which the overcoat includes an organic compound of fluorine.

835.8 Perfluoropolyether:
Subject matter under subclass 835.7 in which the fluorocarbon overcoat consists of a perfluoropolyether compound.

836 Single magnetic layer:
Subject matter under subclass 826 in which the medium has only a single magnetic layer.

836.1 Metal or alloy magnetic layer:
Subject matter under subclass 836 in which the medium consists of only elemental metal or alloy.

836.2 Magnetic layer having oxygen (i.e., uncombined or oxide):
Subject matter under subclass 836 in which the magnetic layer includes magnetic metal oxide or a magnetic layer with uncombined oxygen present within the magnetic elemental metal or the alloy lattice structure.

836.3 Magnetic layer having inorganic compound of Si, N, P, B, H, or C:
Subject matter under subclass 836 in which the magnetic layer includes an inorganic compound of Si, N, P, B, H, or C within the layer (e.g., CoPtCrB, etc.).

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837 With nonmagnetic backcoat layer (e.g., inorganic particles in polymer, carbon, etc.):
Subject matter under subclass 826 in which the medium has a nonmagnetic layer on the substrate side opposite the magnetic layer.

(1) Note. The backcoat layer is the layer directly contacting the substrate on the side opposite the side having a magnetic layer.

SEE OR SEARCH THIS CLASS, SUBCLASS:

847.1, 847.4, and 847.5, for substrate which is a laminate or which has precoating on a side opposite to the magnetic layer.

838 Binder media:
Subject matter under subclass 800 wherein the magnetizable material of the recording medium dispersed in a binder (i.e., magnetic particulate dispersed in binder).

(1) Note. A binder is secondary material which is usually an organic polymer holding a layer having magnetic particulate material together.

SEE OR SEARCH CLASS:

252, Compositions, subclasses 62.51-62.64 for compositions specialized and designed for use as magnetic materials, substances peculiar to such compositions, or processes of making compositions or substances.

346, Recorders, subclasses 134-138 for nonmagnetic records.

352, Optics: Motion Pictures, subclasses 1-37 for sound recording, including magnetic sound records, combined with motion picture structure.

360, Dynamic Magnetic Information Storage or Retrieval, subclass 131 for specific structure of a record carrier for the storage of information.

839 Multiple magnetic layers:
Subject matter under subclass 838 in which the magnetic recording medium has two or more magnetic layers.

839.1 Magnetic layers only on single side of substrate:
Subject matter under subclass 839 in which the medium has plurality of magnetic layers on a single side of the substrate (i.e., two or more magnetic layers).

(1) Note. These magnetic layers are all present on the same side of the substrate.

839.2 Two magnetic layers on single side of substrate:
Subject matter under subclass 839.1 in which the medium has exactly two magnetic layers on the same side of the substrate.

(1) Note. These magnetic layers are all present on the same side of the substrate.

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839.3 Chemically specified magnetic material:
Subject matter under subclass 839.2 in which the magnetic composition in one or more of the layers has been chemically identified.

(1) Note. The expression "chemically identified" means that a substance is identified by its chemical name or by its class of chemical compound (i.e., greater specificity than generic "ferrite" is required).

839.4 Chemically specified binder:
Subject matter under subclass 839.2 in which the medium includes a chemically identified binder in the magnetic layers.

(1) Note. The expression "specific binder" means that a substance is identified by its chemical name or by its class of chemical compound (i.e., greater specificity than "polymeric" or "inorganic compound" is required).

839.5 With chemically identified adjuvant:
Subject matter under subclass 839.2 in which the medium includes a chemically identified additional component to enhance binder effectiveness.

(1) Note. The term "identified" means that a substance is identified by its chemical name or by its class of chemical compound (i.e., greater specificity than "organic compound" or "inorganic compound" is required).

839.6 Specified property (e.g., density, Tg, etc.):
Subject matter under subclass 839.2 in which a characteristic of the medium (e.g., density, glass transition temperature, Vickers hardness, Young's modulus of the magnetic layers, etc.) is identified.

840 Single magnetic layer with underlayer:
Subject matter under subclass 838 in which the medium has a single magnetic layer and one or more nonmagnetic layers in contact with the substrate and between the substrate and the magnetic layer.

(1) Note. Included in this subclass are transfer tapes with a removable single magnetic layer.

SEE OR SEARCH THIS CLASS, SUBCLASS:

40.1-42.3, for a nonmagnetic product which layers lie removable on the outermost surface of the web or sheet.

200, for a nonmagnetic product which must be heated to destroy the adhesion or cohesion of a layer to an adjacent layer or component.

202, for a nonmagnetic product which layers lie on the outermost surface of the web or sheet and are removable from the web or sheet.

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352, for a nonmagnetic product web or sheet having a layer of adhesive as an outermost coating and a release or antistick coating associated therewith on the side of the base opposite to the adhesive layer.

840.1 Underlayer composition or structure:
Subject matter under subclass 840 in which the medium has the chemical composition or arrangement of atoms of molecules of one or more of the underlayers specified.

(1) Note. The term "specified" means that a substance is identified with greater specificity than "organic compound" or "inorganic compound".

840.2 Nonmagnetic particles in underlayer (e.g., Al_2O_3 particles, etc.):
Subject matter under subclass 840.1 in which the medium underlayer contains nonmagnetic particles.

840.3 Carbon black particles:
Subject matter under subclass 840.2 in which the medium underlayer contains carbon black particles.

840.4 Lubricant in underlayer (e.g., perfluoether, etc.):
Subject matter under subclass 840.1 in which the medium underlayer contains a material identified as a lubricant (i.e., a substance for reducing friction or wear).

(1) Note. Included in this subclass are migrating lubricants, which are intended to move around within the medium, as well as single-layer lubricants.

840.5 Chemically identified underlayer binder:
Subject matter under subclass 840.1 in which the medium underlayer contains a chemically identified binder.

(1) Note. The expression "chemically identified" means that a substance is identified by its chemical name or by its class of chemical compound (i.e., greater specificity than "polymeric" is required).

840.6 Magnetic layer chemical composition:
Subject matter under subclass 840 in which the composition of the single magnetic layer in the medium is specified by physical chemistry or chemical compound (e.g., by lattice structure, etc.).

(1) Note. The term "specified" means that a substance is identified by its chemical name or by its class of chemical compound (i.e., greater specificity than "ferromagnetic" or "inorganic compound" is required).

841 Single magnetic layer with overcoat:
Subject matter under subclass 838 in which the medium has an overcoat layer on the magnetic layer bearing side of the substrate (i.e., the head contact surface).

841.1 Two overcoat layers:
Subject matter under subclass 841 in which the medium has exactly two overcoat layers.

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SEE OR SEARCH THIS CLASS, SUBCLASS:

40.1-42.3, for a nonmagnetic product which layers lie removable on the outermost surface of the web or sheet.

200, for a nonmagnetic product which must be heated to destroy the adhesion or cohesion of a layer to an adjacent layer or component.

202, for a nonmagnetic product which layers lie on the outermost surface of the web or sheet and are removable from the web or sheet.

352, for a nonmagnetic product web or sheet having a layer of adhesive as an outermost coating and a release or antistick coating associated therewith on the side of the base opposite to the adhesive layer.

847.1, for a composite or coated organic polymer substrate.

841.2 Chemical composition of overcoat specified:
Subject matter under subclass 841 in which the overcoat layer chemical composition is specified chemically or physically (e.g., by lattice structure, etc.).

(1) Note. The expression “chemical composition is specified” means that a substance is identified by its chemical name or by its class of chemical compound (i.e., greater specificity than “organic compound” or “inorganic compound” is required).

841.3 Lubricant in overcoat layer:
Subject matter under subclass 841.2 in which the overcoat layer has a lubricant (i.e., a substance to reduce friction or wear).

842 Single magnetic layer:
Subject matter under subclass 838 in which the medium has only one magnetic layer.

842.1 Having chemically specified magnetic particles (e.g., FeCo, CoNiPt, etc.):
Subject matter under subclass 842 in which the single magnetic layer contains magnetic particles specified.

(1) Note. The expression “chemically specified” means that a substance is identified by chemical name or by chemical compound structure (i.e., greater specificity than “ferromagnetic” is required).

842.2 Organic compound encapsulated or coated magnetic particles (e.g., polystyrene encapsulated magnetic particles, etc.):
Subject matter under subclass 842.1 in which the magnetic particles in the magnetic layer have been coated or encapsulated with an organic compound.

842.3 Ferromagnetic (elemental or alloy) particles:
Subject matter under subclass 842.1 in which the magnetic particles in the layer are composed of a ferromagnetic metal or alloy.

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842.4 Inorganic compound encapsulated or coated magnetic particles (e.g., Co oxide coated Fe particles, etc.):
Subject matter under subclass 842.3 in which the magnetic particles in the magnetic layer are coated or encapsulated with an element or an inorganic compound (e.g., Co or Co oxide coated Fe particles, etc.).

842.5 Magnetic metal oxide, nitride, or carbide particles:
Subject matter under subclass 842.1 in which magnetic particles in the magnetic layer are metal oxide, metal nitride, or metal carbide compound particles.

842.6 Inorganic compound encapsulated or coated magnetic particles (e.g., Co coated Fe_2O_3, etc.):
Subject matter under subclass 842.5 in which magnetic particles in the magnetic layer are coated with an element or inorganic compound.

842.7 Chromium oxide:
Subject matter under subclass 842.5 in which the magnetic particles in the magnetic layer are composed of chromium oxide.

842.8 Hexagonal or plate lattice-shaped oxides:
Subject matter under subclass 842.5 in which the magnetic particles have a hexagonal or plate lattice shape.

842.9 Magnetic metal nitride or carbide:
Subject matter under subclass 842.5 in which the magnetic particles contained in the magnetic layer are metallic nitride or carbide compound particles.

843 With organic compound adjuvant in magnetic layer:
Subject matter under subclass 842 in which the medium also has an organic compound adjuvant in the magnetic layer to modify or enhance a property.

(1) Note. This subclass does not include a binder.

SEE OR SEARCH THIS CLASS, SUBCLASS:

839.5, for magnetic recording media with binders that include an adjuvant.

843.1 Dispersant or surfactant:
Subject matter under subclass 843 in which organic compound adjuvant is a surface active dispersant or surfactant.

843.2 Inhibitor:
Subject matter under subclass 843 in which the organic compound adjuvant delays or retards a chemical change in one or more layer.

843.3 Lubricant:
Subject matter under subclass 843 in which the organic compound adjuvant is a lubricant (i.e., a substance for reducing friction or wear).

SEE OR SEARCH THIS CLASS, SUBCLASS:

833.3, 833.4, and 833.6, for lubricating layer on binder media.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

843.4 Ester:
Subject matter under subclass 843.3 in which the lubricant is an ester (i.e., a compound formed from reacting an organic acid and an alcohol).

843.5 Fluorine compound:
Subject matter under subclass 843.3 in which the lubricant is a fluorine compound.

843.6 Silicon compound:
Subject matter under subclass 843.3 in which the lubricant is an organic compound that includes silicon.

843.7 Acids, amines, amides, or salts thereof:
Subject matter under subclass 843 in which the organic compound adjuvant is an amine, amide, acid, or their salts.

844 With nonmagnetic particles (e.g., hematite particles, polystyrene, and polyisoprene copolymer, etc.):
Subject matter under subclass 842 in which the magnetic layer contains nonmagnetic particles.

844.1 Only single-type nonmagnetic particle:
Subject matter under subclass 844 in which the medium magnetic layer has only one structure nonmagnetic particle.

844.2 Surface modified particle (e.g., aluminum oxide coated particles, etc.):
Subject matter under subclass 844.1 in which the magnetic layer contains nonmagnetic particles whose surfaces have been altered.

844.3 Alumina particle (i.e., Al_2O_3):
Subject matter under subclass 844.1 in which the nonmagnetic particle is a compound of alumina (aluminum oxide).

844.4 Carbon black particle (e.g., lamp carbon, etc.):
Subject matter under subclass 844.1 in which the nonmagnetic particle is a compound of carbon in the form of carbon black.

844.5 Chemically specified polymer binder:
Subject matter under subclass 842 in which the magnetic layer medium has an identified polymeric binder having a specified physical or chemical structure.

(1) Note. The expression “chemically specified” means that a substance is identified by its chemical name or by its class of chemical compound (i.e., greater specificity than “polymeric” is required).

844.6 Radiation cured (i.e., cross linked) binder:
Subject matter under subclass 844.5 in which the binder is one that has been cured by radiation.

(1) Note. This subclass provides for radiation cross-linked binders. Radiation cross-linking may cause chain scission and differences in the magnetic layer from other induced cross linking.

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844.7 Plural chemically specified polymeric binders in single layer:
Subject matter under subclass 844.5 wherein two or more different binders have been chemically identified as present in the magnetic layer.

(1) Note. More than a single binder must be identified as to its specific structure; nominal recitation of a second binder, or relationship with a second binder, is not proper for this subclass.

SEE OR SEARCH THIS CLASS, SUBCLASS:

844.5 and 844.6, for single binder with specific disclosed structure.

844.71 Polyurethane binder with vinyl chloride binder:
Subject matter under subclass 844.7 wherein the plural binders in the magnetic layer are a specific polyurethane compound binder and a specific vinyl chloride compound binder.

844.8 Polyurethane binder:
Subject matter under subclass 844.5 wherein the single binder present in the magnetic layer is specific polyurethane compound.

844.9 Vinyl chloride binder:
Subject matter under subclass 844.5 wherein the single binder in the magnetic layer is a specific structure polyvinyl chloride.

845 Nonmagnetic backcoat layer (e.g., polysiloxane, etc.):
Subject matter under subclass 838 in which the medium has a nonmagnetic layer opposite the magnetic recording layer side of the substrate.

(1) Note. This subclass provides for a medium having a nonmagnetic substrate coating opposite the magnetic layer side of the substrate.

SEE OR SEARCH THIS CLASS, SUBCLASS:

846.2-846.4, 847.1, and 847.5, for laminated, coated, or surface treated magnetic recording composite substrates.

845.1 Nonmagnetic particles in backcoat layer (TiO_2, ZnO, SiO_2, etc.):
Subject matter under subclass 845 in which the nonmagnetic backcoat layer contains nonmagnetic particles.

845.2 Carbon black particles:
Subject matter under subclass 845.1 in which the nonmagnetic backcoat layer contains carbon black particles.

845.3 With additional nonmagnetic particles:
Subject matter under subclass 845.2 in which the backcoat layer has carbon black particles and other nonmagnetic particles in the binder.

845.4 With additive (e.g., lubricant, etc.):
Subject matter under subclass 845 in which the nonmagnetic backcoat layer contains an additive component in addition to particles and binders (e.g., a substance that reduces friction, etc.).

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845.5 Having specified property (e.g., average roughness (Ra), etc.):
Subject matter under subclass 845 in which the backcoat layer has a physical property identified.

845.6 For servo tracking:
Subject matter under subclass 845.5 in which the medium backcoat layer provides for servo tracking information, including closed-loop control of the alignment between track and information processing means, on the backcoat layer.

SEE OR SEARCH CLASS:

360, Dynamic Magnetic Information Storage or Retrieval, subclasses 77.01-77.17 for track centering aligning a transducer head with the midpoint of a continuous information containing path.

845.7 Chemically specified polymeric binder:
Subject matter under subclass 845 in which the binder of the backcoat layer has been specified chemically.

(1) Note. The expression "chemically specified" means that a substance is identified by its chemical name or by its class of chemical compound (i.e., greater specificity than "polymeric" is required).

846 Magnetic recording media substrate:
Subject matter under subclass 800 in which a layer or laminate provides physical integrity to a magnetic recording media by acting as base or support for a magnetic recording layer.

(1) Note. This subclass provides for media details substrate set forth with chemical or structural specificity.

SEE OR SEARCH CLASS:

360, Dynamic Magnetic Information Storage or Retrieval, subclass 131 for specific structure of a record carrier for the storage of information.

846.1 Inorganic substrate:
Subject matter under subclass 846 in which the substrate is composed of inorganic material.

SEE OR SEARCH THIS CLASS, SUBCLASS:

846.2 and 846.3, for inorganic substances contained in a polymeric matrix.

846.2 Composite or coated substrate (e.g., ceramic-epoxy composite, etc.):
Subject matter under subclass 846.1 in which the substrate has two or more contiguous layers or portions of distinct components (e.g., glass containing metallic particles, etc.).

(1) Note. Included in this subclass are an inorganic structural element and an organic compound as metallic particles and resin, etc.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

846.3 Silicon compound coating:
Subject matter under subclass 846.2 in which the composite substrate has a contiguous layer of a silicon compound.

846.4 Anodized or oxidized aluminum or aluminum-base alloy:
Subject matter under subclass 846.2 in which an aluminum or aluminum-base alloy substrate has an oxide coating or has been anodized or otherwise oxidized.

(1) Note. Included in this subclass are substrates with filled pores that comprise anodized or oxidized aluminum or aluminum-based alloy.

846.5 Carbon substrate:
Subject matter under subclass 846.1 in which the substrate is composed of elemental carbon.

846.6 Metallic (i.e., elemental or alloy) substrate:
Subject matter under subclass 846.1 in which the substrate is metallic.

(1) Note. This subclass includes metals in elemental and alloy form.

846.7 Al or Al-base alloy substrate:
Subject matter under subclass 846.6 in which the substrate is composed of elemental aluminum or an aluminum-base alloy (i.e., an alloy containing 40% or more aluminum).

846.8 Ti or Ti-base alloy substrate:
Subject matter under subclass 846.6 in which the substrate is composed of elemental titanium or a titanium base alloy (i.e., an alloy containing 40% or more titanium).

846.9 Glass or ceramic substrate:
Subject matter under subclass 846.1 in which the substrate is composed of glass or ceramic.

(1) Note. This subclass includes amorphous and crystalline glasses as well as ceramic compositions.

SEE OR SEARCH THIS CLASS, SUBCLASS:

426, for a layer of quartz or glass next to a nonmagnetic material.

848.2, for glass in ceramic substrates with texture.

847 Organic polymer substrate:
Subject matter under subclass 846 in which the substrate is composed of solid polymer compound or polymeric composition (e.g., polyurethane, melamine resin, etc.).

SEE OR SEARCH THIS CLASS, SUBCLASS:

847.6, for a polymeric composition comprised of one or more polymers and/or inorganic particulate components.

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847.1 Composite or coated nonesterfied substrate:
Subject matter under subclass 847 in which the substrate is other than an ester and composed of plural layers (i.e., laminate or distinct nonparticulate components contained in a single layer).

(1) Note. A coating on an organic substrate directed to the improvement of the properties of the substrate and not affecting the crystalline anisotropy of a subsequently deposited layer (e.g., a coating solely for adhesive, texture, etc.) is provided for in this subclass.

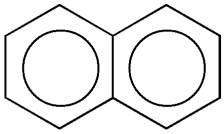
(2) Note. Included in this subclass are substrate leader and trailer tapes.

847.2 Polyester substrate (e.g., polyethylene terephthalate, etc.):
Subject matter under subclass 847 in which the polymer substrate includes an ester group thereon such as carboxylic acid ester.

SEE OR SEARCH THIS CLASS, SUBCLASS:

847.1, for a composite or coated organic polymer substrate.

847.3 Containing naphthalene ring (e.g., polyethylenenaphthalate, etc.):
Subject matter under subclass 847.2 in which polyester substrate contains a naphthalene ring structure.



Example of a naphthalene ring structure.

847.4 Laminate of two or more layers:
Subject matter under subclass 847.2 in which the polyester polymer substrate is composed of two or more layers, at least one of which is the polyester layer.

847.5 Coated or surface treated layer (e.g., by corona discharge, etc.):
Subject matter under subclass 847.2 in which the polyester polymer layer has been coated or surface treated.

(1) Note. Included in this subclass are polyester substrate leader and trailer tapes.

847.6 Containing particles (e.g., aluminum carbonate particles, calcium carbonate particles, etc.):
Subject matter under subclass 847.2 in which the single polyester polymer layer contains particles (e.g., aluminum carbonate particles, calcium carbonate particles, etc.).

847.7 Having specific surface feature or roughness (e.g., by added particles, etc.):
Subject matter under subclass 847.6 in which the single polyester polymer layer, which contains particles, has a definite surface feature or roughness.

D. CHANGES TO THE DEFINITIONS (Project C-5875)

847.8 Polymer containing specified ring structure:
Subject matter under subclass 847 in which the substrate layer contains an organic ring structure such as benzyl groups, 1,4-dihydroxydimethylbenzene, etc.

848 Circular shape (e.g., disk, etc.):
Subject matter under subclass 846 in which the substrate is in the form of a circular disk.

SEE OR SEARCH THIS CLASS, SUBCLASS:

900, for a collection of magnetizable stock material.

SEE OR SEARCH CLASS:

360, Dynamic Magnetic Information Storage or Retrieval, subclass 135 for a disc having information recorded thereon in magnetic form.

369, Dynamic Information Storage or Retrieval, subclasses 272.1-291.1 for a disc having information recorded thereon in the form of grooves.

848.1 Having zones (e.g., landing zone or contact stop/start (CSS) zone, etc.):
Subject matter under subclass 848 in which the circular shape substrate has areas or regions distinguished from adjacent parts by a distinctive feature or characteristic (e.g., landing zone or contact stop/start (CSS) zone, data zone, etc.).

848.2 Specified texture or roughness (e.g., average roughness (Ra), etc.):
Subject matter under subclass 848 in which the disk substrate has a specified surface finish, irregularity, or amount of surface unevenness (e.g., Ra, Rz, etc.).

848.3 Uniform texture:
Subject matter under subclass 848.2 for a disk substrate where the texture projections or "bumps" are arranged in an orderly fashion relative to a surface (e.g., by laser irradiation or photolithography).

(1) Note. A uniform texture is also known in the art as a "regular" texture.

848.4 Stretched surface:
Subject matter under subclass 848 in which the disc substrate surface has been extended by stretching.

848.5 Having specified pits, tracks, or indicia:
Subject matter under subclass 848 in which the disk substrate has depressions or grooves (e.g., pits which may be used for address information).

SEE OR SEARCH CLASS:

235, Registers, subclass 493 for a record containing discrete bits of magnetic material, the bits being coded markings on a record.

360, Dynamic Magnetic Information Storage or Retrieval, subclass 134 for a recording tape having recording thereon.

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848.6 Edge feature (e.g., chamfered edge, etc.):
Subject matter under subclass 848 in which the disk substrate has edge of particular profile or coating at the outer extremity of the disk.

848.7 Disk in holder (e.g., disk in casing, etc.):
Subject matter under subclass 848 in which the disk is within an enclosure.

(1) Note. This subclass provides for a medium wherein the circular-shaped substrate is within a container distinguished by composition.

SEE OR SEARCH CLASS:

206, Special Receptacle or Package, subclasses 307-387.15 for a container for removably containing an article which includes machine readable information registered thereon.

360, Dynamic Magnetic Information Storage or Retrieval, subclass 133 for specific structure of a record carrier in the form of a disk distinguished by the container in which it is housed.

848.8 Disk property resulting from specified process (e.g., injection molding, photolithography, sintering, etc.):
Subject matter under subclass 848 in which the disk has a property that is the product of a specific method of production such as a specified shaping method (e.g., injection molding, photolithography, sintering, etc.).

(1) Note. Mere recitation of a product produced by a method is not sufficient to place a patent in this subclass. The product of a specific method with parameters must be recited as a description of the disk.

848.9 Magneto-optic media disc:
Subject matter under subclass 848 in which the disk substrate has identified utility as a magneto-optic disk substrate.

FOR 122 Magneto optical recording medium or carrier:
Foreign art collection wherein the recording medium or carrier is composed of a magnetic material and records information based on changes in magnetization and the recorded information is readable; e.g., by diffraction of polarized light through a magnetic field, etc.

FOR 123 Magnetic recording medium or carrier:
Foreign art collection wherein the recording medium or carrier contains magnetizable material in the form of particles, film, coating, layer, or impregnant which is intended for the storage of more than a single bit of information to be read by a magnetic head.

FOR 124 Lubricant containing:
Foreign art collection wherein the recording medium or carrier contains a substance that reduces friction.

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FOR 125 Protective layer containing:

Foreign art collection wherein the magnetic recording medium or carrier layer is covered by a resistant layer; e.g., resistant to heat, cold, oxidation, pollution, etc.

FOR 126 Aluminum containing:

Foreign art collection wherein the magnetic recording medium or carrier contains aluminum as a free metal, combined metal, and includes alloys and metal compounds.

FOR 127 Chromium containing:

Foreign art collection wherein the magnetic recording medium or carrier contains chromium as a free metal, combined metal, and includes alloys and metal compounds.

FOR 128 Defined magnetic layer:

Foreign art collection in which a layer or component thereof has disclosed properties which include magnetic susceptibility.

FOR 129 Next to second metal-compound-containing layer:

Foreign art collection wherein the magnetic component is in a metal-compound-containing layer next to another metal-compound-containing layer.

FOR 130 Dynamic recording medium:

Foreign art collection which has a use as a recording medium, e.g., tape, disc, etc., which is “read” by using relative motion between the medium and the reading device and wherein the composition of a backing or support material is not defined in the claims.

FOR 131 Magneto optical recording layer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 132 Specified recording layer composition:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 133 Lanthanoid:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 134 Garnet or magnetoplumbite:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 135 Separate refractive, anti-reflective or protective layer composition:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

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FOR 136 Pure metal or alloy:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 137 Rare earth:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 138 Nitride, carbide, or fluoride:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 139 Oxide or sulfide:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 140 Reflective layer specified:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 141 With plasma polymerized organic top coat or other adhesive layer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 142 Multiple magnetic layers:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 143 Exchange coupling:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 144 Magnetically or thermally isolated:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 145 Composition gradient:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

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FOR 146 Hardness, stress, thermal or electrical coefficients specified:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 147 Microporous layer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 148 Metal thin film magnetic layer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 149 Specified subbing or underlayer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 150 Specified back coat layer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 151 Topcoat, or protective overlayer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 152 Carbon:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 153 Plasma polymerized:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 154 Fluorocarbon or organosilicon layer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 155 Specified surface feature or roughness:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

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FOR 156 Multiple magnetic layer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 157 Binder containing magnetic layer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 158 Radiation curable binder:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 159 Organic acid or salt thereof:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 160 Polyurethane binder:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 161 Isocyanate specified:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 162 Polyol specified:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 163 Specified lubricant or protective layer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 164 Fluorocarbon or organosilicon:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 165 Including subbing or underlayer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

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FOR 166 Including back coat layer:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 167 Specified surface feature or roughness:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 168 With non-magnetic particle:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 169 Magnetic particle with specified shape or dimension:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 170 Hexagonal or tabular:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 171 Multiple magnetic layers:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 172 Support composition specified:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 173 Organic material:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 174 Specified surface feature or roughness:

This foreign art collection was derived from an undefined alpha subclass. Consult the documents contained herein to clarify or interpret the title and scope of this foreign art collection.

FOR 175 With lubricant in or on layer:

Foreign art collection which has, either in or on the magnetic layer, a material disclosed as having a lubricant function.