### Apparel

| 2/00 Apparel | 4/03 Electric flushing |
| 2/01 | . Ventilated garment |
| 2/02 | . Reversible garment |
| 2/03 | . Inflatable garment |
| 2/04 | . Free swing garment |
| 2/05 | . Waterproof garment with gutters |
| 2/08 | . Rear-view mirror |
| 2/09 | . Stocking-girdle relationship |
| 2/10 | . Inflatable hat |
| 2/11 | . Headband |
| 2/90 | . Camouflaged |
| 2/901 | . Antibacterial, antitoxin, or clean room |
| 2/902 | . Antistatic |
| 2/903 | . Fiberglass |
| 2/904 | . Polytetrafluoroethylene |
| 2/905 | . Electric |
| 2/906 | . . Head covering or protector |
| 2/907 | . . Glove having three, four, or six finger pockets |
| 2/908 | . . Guard or protector having a hook-loop type fastener |
| 2/909 | . . Head protector, e.g. helmet, goggles |
| 2/91 | . . Hand or wrist protector |
| 2/911 | . . Leg protector |
| 2/912 | . . Garment having a hook-loop type fastener |
| 2/913 | . . Chest encircling, e.g. shirt, vest |
| 2/914 | . . Combined nether, e.g. union suit, bag type, overalls |
| 2/915 | . . having plural body encircling layers, e.g. coat |
| 2/916 | . . Neck covering, e.g. necktie |
| 2/917 | . . Hand or wrist covering |
| 2/918 | . . Head covering |
| 2/919 | . . Lower torso and leg encircling, e.g. skirts, trousers |
| 2/92 | . . Garment supporter or retainer having a hook-loop type fastener |

### Beds

| 5/00 Beds | 5/90 with means to attach canopy or netting to unmodified bed or bedstead |
| 5/01 with means to attach canopy or netting to unmodified bed or bedstead |
| 5/90 | . Bathtub or bed |
| 5/901 | . Mattress or pad with a convoluted, e.g. egg crate surface |
| 5/902 | . Mattress with nonrectangular supporting surface |
| 5/904 | . with sound emitting means |
| 5/905 | . with light emitting means |
| 5/906 | . with magnetic means |
| 5/907 | . with decorative structure |
| 5/908 | . . Mirror |
| 5/909 | . Flowable viscous, e.g. gel material containing |
| 5/91 | . with suction means |
| 5/911 | . Bead containing |
| 5/913 | . . with suction means |

### Baths, closets, sinks, and spittoons

| 4/00 Baths, closets, sinks, and spittoons | 4/04 Garbage grinder |
| 4/01 | . Plural connected floats |
| 4/02 | . Disappearing bowl |
Beds

5/915 . with vibrating means
5/922 . with hook and loop type fastener
5/923 . Bedclothing
5/924 . Cardboard containing
5/925 . Highly frictional material
5/926 . Low friction, e.g. slippery material
5/927 . Sofa beds with motor means
5/928 . with sprinkling or washing means
5/929 . Facilitating sexual relations
5/93 . for pregnant user
5/931 . with safe or hiding place
5/932 . Seals and sealing methods, for plastics
5/933 . Massaging bed
5/934 . with movable transverse slats
5/935 . with adjustable firmness
5/936 . with adjustable firmness comprising springs
5/937 . Body support with lowerable support portion to provide access to a portion of the supported body
5/938 . with reflective material
5/939 . with microporous material
5/94 . with alarm means
5/941 . Blanket with forced air flow
5/942 . Longitudinally divided top surface with pivotable section
5/943 . with horizontally movable top surface
5/944 . with upstanding firm massaging projections
5/945 . Inflatable baby support with inflatable peripheral guard
5/946 . Crib bumper
5/947 . Wall mounted baby changer
5/948 . Body support with unique, specific filler material
5/949 . Comprising animal derived product
5/95 . Comprising feathers or down
5/951 . Comprising plant derived material
5/952 . Comprising artificial fiber
5/953 . Comprising structurally defined foam material or configuration
5/954 . Fireproof

**Compound tools**

7/00 Compound tools
7/90 Resilient pivot
7/901 Magnetic feature

**Bleaching and dyeing: fluid treatment and chemical modification of textiles and fibers**

8/00 Bleaching and dyeing; fluid treatment and chemical modification of textiles and fibers
8/01 Silicons
8/02 Vinyl sulfoamides and precursors thereof
8/03 Swelling and stretching
8/04 Polymer fibers
8/05 Organic titanium compounds on textiles
8/06 Resin bleach
8/08 Oxirane
8/09 Polyolefin
8/10 Polynvinyl halideses or alcohol fiber modification
8/11 Isocyanate and carbonate modification of fibers
8/12 Wave energy treatment of textiles
8/13 Cyanohydrination of fibers
8/14 Dry mixtures of textile reagents

8/15 Pressurized gas treatment of textiles
8/16 Pressurized and high temperature liquid treatment of textiles
8/17 Glyoxal and polyaldehyde treatment of textiles
8/18 Grafting textile fibers
8/19 Molten metal
8/20 -N-Cl compound
8/21 Nylon
8/90 Basic emulsifiers for dyeing
8/901 Quaternary ammonium salts
8/902 Coacervation or two-phase dyeing system
8/903 Triple mixture of anionic, cationic, and nonionic emulsifiers for dyeing
8/904 Mixed anionic and nonionic emulsifiers for dyeing
8/905 Mixed anionic and cationic emulsifiers for dyeing
8/906 Mixed cationic and nonionic emulsifiers for dyeing
8/907 Nonionic emulsifiers for dyeing
8/908 Anionic emulsifiers for dyeing
8/909 Sulfonated or sulfated aliphatic hydrocarbons
8/91 Soap
8/911 Sulfonated
8/912 Arylene sulfonate-formaldehyde condensate or alkyl aryl sulfonate
8/913 Amphoteric emulsifiers for dyeing
8/914 Amino carboxylic acids
8/915 Amino sulfonic acids
8/916 Natural fiber dyeing
8/917 Wool or silk
8/918 Cellulose textile
8/919 Paper
8/92 Synthetic fiber dyeing
8/921 Cellulose ester or ether
8/922 Polyester fiber
8/923 Halopolyester
8/924 Poliamide fiber
8/925 Aromatic polyamide
8/926 Polyurethane fiber
8/927 Polycrylonitrile fiber
8/928 Polyoolefin fiber
8/929 Carpet dyeing
8/93 Pretreatment before dyeing
8/931 Washing or bleaching
8/932 Specific manipulative continuous dyeing
8/933 Thermosol dyeing, thermofixation or dry heat fixation or development
8/934 High temperature and pressure dyeing
8/935 Immunization as a resist in dyeing
8/936 Solubility studies on dyes
8/937 Li ion in dye bath
8/938 Solvent dyes
8/939 Naphtholactam dye

**Boot and shoe making**

12/00 Boot and shoe making
12/01 Lasting machines, fluid-actuated
12/02 Lasting machines, dash pots
12/03 Jigging

**Brushing, scrubbing, and general cleaning**

15/00 Brushing, scrubbing, and general cleaning
15/01 Rechargeable batter
Miscellaneous hardware, e.g. bushing, carpet fastener, caster, door closer, panel hanger, attachable or adjunct handle, hinge, window sash balance

16/00 Miscellaneous hardware, e.g. bushing, carpet fastener, caster, door closer, panel hanger, attachable or adjunct handle, hinge, window sash balance
16/01 Overhead door
16/02 Paint guard, kick guard
16/03 Hold-down
16/04 Mirror mount
16/05 Push and pull bar
16/06 Anti-rattle
16/07 Door opening apparatus
16/08 Weights
16/09 Hydraulic actuated checks, closers
16/10 Spring actuated checks and closers
16/11 Fireplace screen
16/12 Hand grips, preformed and semi-permanent
16/13 Plastic hinge
16/14 Magnetic hinge
16/15 Battery handles
16/16 Window brakes, counterbalances
16/17 Checks and closers, holding means
16/18 Composition handles
16/19 Cast or molded handles
16/20 Door brakes, e.g. track or guideway
16/21 Checks, closers, check valve construction
16/22 Expansion bolt
16/23 Reversible
16/24 Handle fastening means
16/25 Handle fastening means, clamp band
16/26 Headlight hinge
16/27 Bearings
16/28 Mattress handle
16/29 Nesting hinge leaves
16/30 Knob, control lever
16/31 Pulley, e.g. door guides and hangers
16/32 Door latch
16/33 Rubber sleeve bearings and hinges
16/34 Eccentric adjustments
16/35 Skidways
16/36 Spring
16/37 Nut lock
16/38 Lawn mower type tongue and cross arm
16/39 Adjustment means
16/40 Attaching means
16/41 Coupling, e.g. handle, rod, shaft
16/42 Miscellaneous methods
16/43 Hinge mounting bracket
16/44 Formations positioned along wall forming mating-member-guiding cavity
16/45 Formations member having movably attached or biased interlocking structure
16/46 Formations member having movably attached or biased interlocking structure
16/47 Selectively interlocking member having movably attached or biased interlocking component

Buckles, buttons, clasps

24/00 Buckles, buttons, clasps
24/08 . Paper clips
24/09 . Sheet material
24/10 . Wire
24/11 . Adhesive
24/13 . Weighted clip or clamp
24/16 . Multiflex strap
24/17 . Multiflex axial
24/22 . Jaw structures, teeth
24/26 . Fluid pressure
24/28 . Co-planar flat clip
24/29 . Laundry device
24/30 . Separable-fastener or required component thereof
24/31 . with third, detached member completing interlock
24/32 . . And linking cavities in adjacent parallel panels
24/33 . . . Third member includes independently engaged hooks for linking spaced cavities
24/34 . . . . And movably connected, noninserted gate for closing access throat of hook
24/35 . . . . Third member includes relatively movable, separate components
24/36 . . . . . for parachute harness
24/37 . . . . Third member consists of unitary elongated element
24/38 . . Each mating member having similarly shaped, sized, and operated interlocking face
24/39 . . including elongated face having identical, parallel cross sections throughout its length
24/40 . . including elongated face having varying, parallel cross sections throughout its length
24/41 . . including complementary shaped and alternately useable interlocking faces
24/42 . . Single piece hook-shaped member, e.g. mating garment hooks
24/43 . . including member having distinct formations and mating member selectively interlocking therewith
24/44 . . . Formations member having movably attached or biased interlocking structure
24/45 . . . Formations member having movably attached or biased interlocking structure
Method or apparatus using magnesium
29/028 . Magnetic recording digest
29/029 . Molding with other step
29/030 . Ornamenting with other step
29/031 . Pressing powder with other step
29/032 . Rolling with other step
29/033 . Scoring with other step
29/034 . Scaling with other step
29/035 . Shrink fitting with other step
29/036 . Shot blasting with other step
29/037 . Stamping with other step
29/038 . Spot welding with other step
29/039 . Spraying with other step
29/04 . Strips of repeated articles - cut up later
29/041 . Taper tube making
29/042 . Tension applied during working
29/043 . Upsetting and flanging tube end
29/044 . Vacuum
29/045 . Titanium
29/046 . Vibration
29/047 . Extruding with other step
29/048 . Welding with other step
29/049 . Work hardening with other step
29/05 . Cutting fluid application and debris control
29/051 . Power stop control for movable element
29/052 . Chip breaker
29/053 . Workpiece and debris separator
29/054 . Fluid control interrelated with machine tool mechanism
29/055 . with cutter drive
29/056 . with shield or hood movements
29/057 . with cutter feed
29/059 . Hood actuated by tool or work approach
29/06 . Progressive displacement of hood
29/061 . Plural-type debris removers
29/062 . Rubbing transfer of solid coating to rotating element
29/063 . Fluid conveyor or applicator
29/064 . Ambulatory cutter with fluent conduit
29/065 . Cutter contained supply reservoir
29/066 . Fluid flow to channeled cutter
29/067 . Rotating cutter
29/068 . Hollow spindle contains
29/069 . Fluid spreader contacts cutter
29/07 . Rotary or oscillating fluid applicator
29/080 . Excluding any other step
29/081 . Metal or apparatus involving adhesive
29/082 . Method or apparatus using aluminum
29/083 . Method or apparatus with bending
29/084 . Method or apparatus with brazing
29/085 . Method or apparatus with casting
29/086 . Method or apparatus with centrifugal casting
29/087 . Method or apparatus with cleaning
29/088 . Method or apparatus with composite casting
29/089 . Method or apparatus with cup formed and bottom removed
29/09 . Method or apparatus with die casting
29/091 . Method or apparatus with drawing
29/092 . Method or apparatus with drawing
29/093 . Method or apparatus with enameling
29/094 . forming article on end of long stock and then cutting off
29/095 . Method or apparatus with etching
29/096 . Method or apparatus with making flow lines; crystals
29/097 . Method or apparatus with forging
29/098 . Method or apparatus with grinding
29/099 . Method or apparatus for double blank
29/10 . Method or apparatus for heating
29/101 . Method or apparatus using indium
29/102 . Method or apparatus with knurling
29/103 . Method or apparatus with local heating
29/104 . Method or apparatus with particular material
29/105 . Method or apparatus with machining
29/106 . Method or apparatus using magnesium
29/107 . Magnetic recording digest
29/108 . Molding with other step
29/109 . Ornamenting with other step
29/11 . Pressing powder with other step
29/111 . Rolling with other step
29/112 . Scoring with other step
29/113 . Scaling with other step
29/114 . Shrink fitting with other step
29/115 . Shot blasting with other step
29/116 . Stamping with other step
29/117 . Spot welding with other step
29/118 . Spraying with other step
29/119 . Strips of repeated articles - cut up later
29/12 . Taper tube making
29/121 . Tension applied during working
29/122 . Upsetting and flanging tube end
29/123 . Vacuum
29/124 . Titanium
29/125 . Vibration
29/126 . Extruding with other step
29/127 . Welding with other step
29/128 . Work hardening with other step
29/129 . Cutting fluid application and debris control
29/13 . Power stop control for movable element
29/131 . Chip breaker
29/132 . Workpiece and debris separator
29/133 . Fluid control interrelated with machine tool mechanism
29/134 . with cutter drive
29/135 . with shield or hood movements
29/136 . with cutter feed
29/138 . Hood actuated by tool or work approach
29/139 . Progressive displacement of hood
29/14 . Plural-type debris removers
29/141 . Rubbing transfer of solid coating to rotating element
29/142 . Fluid conveyor or applicator
29/143 . Ambulatory cutter with fluent conduit
29/145 . Cutter contained supply reservoir
29/146 . Fluid flow to channeled cutter
29/147 . Rotating cutter
29/148 . Hollow spindle contains
29/149 . Fluid spreader contacts cutter
29/15 . Rotary or oscillating fluid applicator

Buckles, buttons, clasps

Textiles: cloth finishing

26/00 Textiles: cloth finishing
26/01 . Edge and/or uncurling; stiffening

Undertaking

27/00 Undertaking
27/01 . Coffin lid fasteners

Metal working

29/00 Metal working
29/001 . Method or apparatus involving adhesive
29/002 . Method or apparatus using aluminum
29/003 . Method or apparatus with bending
29/004 . Method or apparatus with brazing
29/005 . Method or apparatus with casting
29/006 . Method or apparatus with centrifugal casting
29/007 . Method or apparatus with cleaning
29/008 . Method or apparatus with composite casting
29/009 . Method or apparatus with cup formed and bottom removed
29/01 . Method or apparatus with die casting
29/011 . Method or apparatus with drawing

Metal working

29/012 . Method or apparatus with electroplating
29/013 . Method or apparatus with electric heating
29/014 . Method or apparatus with enameling
29/015 . forming article on end of long stock and then cutting off
29/016 . Method or apparatus with etching
29/017 . Method or apparatus with making flow lines; crystals
29/018 . Method or apparatus with forging
29/019 . Method or apparatus with grinding
29/02 . Method or apparatus for double blank
29/021 . Method or apparatus for heating
29/022 . Method or apparatus using indium
29/023 . Method or apparatus with knurling
29/024 . Method or apparatus with local heating
29/025 . Method or apparatus with particular material
29/026 . Method or apparatus with machining
29/027 . Method or apparatus using magnesium
29/028 . Magnetic recording digest
29/029 . Molding with other step
29/030 . Ornamenting with other step
29/031 . Pressing powder with other step
29/032 . Rolling with other step
29/033 . Scoring with other step
29/034 . Scaling with other step
29/035 . Shrink fitting with other step
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29/061 . Plural-type debris removers
29/062 . Rubbing transfer of solid coating to rotating element
29/063 . Fluid conveyor or applicator
29/064 . Ambulatory cutter with fluent conduit
29/065 . Cutter contained supply reservoir
29/066 . Fluid flow to channeled cutter
29/067 . Rotating cutter
29/068 . Hollow spindle contains
29/069 . Fluid spreader contacts cutter
29/07 . Rotary or oscillating fluid applicator
Metal working

29/071 . Complete immersion of cutter
29/072 . Dip or splash supply
29/073 . Chain or belt conveyor
29/074 . Partial immersion of cutter
29/075 . Adjustable liquid level
29/076 . Movable liquid-carrying trough
29/077 . with separator or filter
29/078 . Air blast and/or vacuum conveyor
29/079 . Removable debris receptacle
29/081 . Gas as a conveyor
29/082 . Air current generated by cutter
29/083 . Fan coaxial with cutter
29/084 . Vacuum exhaust type
29/085 . with fluid control valve
29/086 . Hood encased cutter
29/087 . Multiple fluid paths
29/088 . by projecting, squirting or dripping
29/089 . Gas entrained liquid supply
29/09 . Elevated tank supply
29/091 . Plural discharge openings
29/092 . Fluid channel in cutter
29/093 . Plural discharge loci
29/094 . Debris remover, catcher, or deflector
29/095 . Magnetic or electrostatic
29/096 . Mechanical removal assistant
29/097 . Cutter engaging cleaner
29/098 . Rotating, reciprocating or oscillating cleaner
29/099 . Flexible conveyor
29/10 . Screw or cam conveyor
29/101 . Pan, bed, or table
29/102 . Debris chute
29/104 . Tool or work attached
29/105 . Assembly, magnetic, or indicia tool
29/90 . Methods and apparatus for assembly by electrostatic attraction
29/901 . Balancing method
29/902 . Filter making
29/903 . Firearm bolt making
29/904 . Laminated metal article making
29/905 . Making coil wound wall screen
29/906 . Nuclear device making

Cutlery

30/00 Cutlery
30/01 . Rechargeable battery operated
30/02 . Dry shavers
30/03 . Envelope openers
30/04 . Explosive
30/05 . Lawn edgers
30/06 . Resilient means
30/07 . Sprinkler and cutter
30/08 . Seam rippers

33/00 Geometrical instruments
33/01 . Magnetic
33/02 . Air
33/03 . Photoelectric
33/04 . Interferometer
33/05 . Differential transformer
33/06 . Dial indicator shock absorber
33/07 . Ribbon and wires
33/08 . Eccentrics
33/09 . Rectangular proportioner
33/10 . Outlet box
33/11 . Materials
33/12 . Mechanical expedients
33/13 . Wire and strain gauges
33/14 . Spline and gear
33/15 . Piston position indicator
33/16 . Clips and rafters
33/17 . Piston ring and bearing race gauging
33/18 . Flush pin gauges
33/19 . Thermal expansive
33/20 . Tile
33/21 . with laser

Drying and gas or vapor contact with solids

34/00 Drying and gas or vapor contact with solids
34/01 . Absorbents and adsorbents

Boots, shoes, and leggings

36/00 Boots, shoes, and leggings
36/01 . Cement
36/02 . Plastic

Excavating

37/00 Excavating
37/01 . Bucket cleaners
37/02 . Hydraulic motors
37/03 . Scoop or scraper attachments
37/04 . Vibration means for excavating tool
37/05 . Nondredge excavating by fluid contact or explosion
37/06 . Visual aids and indicators for excavating tool
37/07 . Automatic leveling excavators
37/08 . Canal cleaners

Textiles: ironing or smoothing

38/00 Textiles: ironing or smoothing
38/01 . Paired leg boards
38/02 . Leg structure
38/03 . Leg latch

Card, picture, or sign exhibiting

40/00 Card, picture, or sign exhibiting
40/01 . Mirror that has changing effect
40/02 . Tvlradio program indicator
40/03 . Circuit control, e.g. flashing light
40/04 . Reflective triangle for highway use
40/05 . Map or chart holder
40/06 . Pen and pencil
40/07 . Sound
40/08 . Out-to-lunch
40/09 . Animal or fur skin identification
40/10 . Television program guidance apparatus
40/11 . Automobile license identification
40/12 . Automobile body identification
40/13 . Tool identification
40/14 . Nuclear fuel element identification
40/915 . Golf club identification

**Firearms**

42/00 Firearms
42/01 . Release trigger

**Fishing, trapping, and vermin destroying**

43/00 Fishing, trapping, and vermin destroying
43/90 . Liquid insecticide sprayer

**Fuel and related compositions**

44/00 Fuel and related compositions
44/901 . Fuel combined with material to be heated
44/902 . Flameless or glowless, e.g. hair curler
44/903 . Method including measuring, testing or automatic control
44/904 . Method involving electric or wave energy
44/905 . Method involving added catalyst

**Plant husbandry**

47/00 Plant husbandry
47/01 . Methods of plant-breeding and including chromosome multiplication
47/03 . Propagation of plant by cuttings
47/06 . Plant growth regulation by control of light thereon
47/08 . Treatment of plants and seeds with radioactive energy
47/09 . Physical and chemical treatment of seeds for planting
47/10 . Physical and chemical treatment of agricultural soils
47/11 . The application of protective coatings to plants
47/12 . Sonic or ultrasonic treatment
47/901 . Plant container with flats, filling, planting, or conveying
47/902 . including a recycled component, e.g. tires
47/903 . Operator means for cold frame or window
47/904 . Openwork container for a growing medium, e.g. wire basket
47/905 . To remEDIATE contaminated soil

**Gas: heating and illuminating**

48/00 Gas: heating and illuminating
48/01 . Recirculation of gases produced to lower part of fuel bed
48/02 . Slagging producer
48/03 . High pressure
48/04 . Powdered fuel injection
48/05 . Diffusion membrane for gas reaction or separation
48/06 . Underground gasification of coal
48/07 . Slurry
48/08 . Internal combustion engine for gas making
48/09 . Solar gasification
48/10 . Computer resisted control

**Movable or removable closures**

49/00 Movable or removable closures
49/01 . Thermal breaks for frames
49/02 . Plastic frame components

**Static structures, e.g. buildings**

52/00 Static structures, e.g. buildings
52/01 . Hand tools for assembling building components
52/02 . Masonry lattice or openwork
52/03 . Trailer or mobile home skirt
52/04 . Magnetic connecting means for building components
52/05 . Designed for thermal distortion
52/06 . Toothed connecting means
52/07 . Synthetic building materials, reinforcements and equivalents
52/08 . Imitation beams
52/09 . Structure including reclaimed component, e.g. trash
52/10 . Polyhedron
52/11 . Mobile-structure stabilizing anchor
52/12 . Temporary protective expedient
52/13 . Hook and loop type fastener
52/14 . Shelter shaped to article configuration
52/15 . Seal for corrugated sheets
52/16 . Roofing with pressure sensitive adhesive, e.g. shingle
52/17 . with transparent walls or roof, e.g. sunroom
52/90 . Hazardous material permeation prevention, e.g. radon

**Package making**

53/00 Package making
53/01 . Bacon and franks packaging
53/02 . High frequency electric sealing
53/03 . Sealing electron tubes
53/90 . Capsules

**Gas separation**

55/00 Gas separation
55/01 . Graduated electrostatic field
55/02 . Vacuum cleaner bags
55/03 . Vacuum cleaner
55/05 . Methods of making filter
55/06 . Magnetic couplings
55/07 . Black liquor treatment
55/08 . Built-in vacuum cleaners
55/09 . Radioactive filters
55/10 . Residue burned
55/12 . Pocket type filter
55/13 . Polyurethane filters
55/14 . Inertia separator
55/15 . Cold traps
55/17 . Compressed air water removal
55/18 . Work bench
55/19 . Crankcase ventilation
55/20 . Spark arrester
55/21 . Silencer cleaner
55/23 . Steam separators
55/24 . Viscous coated filter
55/25 . Agglomerators
55/26 . Bag coupling
55/27 . Cleaners, liquid
55/28 . Carburetor attached
55/29 . Air curtains
55/30 . Exhaust treatment
55/31 . Filter frame
55/32. Gaseous fluid conveying
55/33. Gas mask canister
55/34. Indicator and controllers
55/35. Respirators and register filters
55/36. Kitchen hoods
55/37. Louvers
55/38. Tubular collector electrode
55/39. Electrets separator
55/42. Foam filter materials
55/43. Knitted filter mediums
55/44. Pile and pile-type filter mediums
55/45. Woven filter mediums
55/46. Spray booths

Harvesters

56/00. Harvesters
56/01. Crusher
56/02. Methods
56/03. Ground effect
56/04. Friction drive
56/05. with material distribution
56/06. Clutches and gearing
56/07. Remote control implement
56/08. Air gathering
56/09. Detachable implement
56/10. Uneven terrain compensation
56/11. Hydraulic
56/12. Brush
56/13. Bermuda grass cutters
56/14. Hitch
56/15. Condition responsive
56/16. Movable cutter without stationary cutter bar
56/17. Cutter details
56/18. Handles
56/19. Beaters and wipers
56/20. Blades, reels and guards
56/21. Raking and windrowning
56/22. Underslung yieldable rotary mower
56/23. Dehydrating
56/24. Harvester guards

Textiles: spinning, twisting, and twining

57/00. Textiles: spinning, twisting, and twining
57/901. Antistatic
57/902. Reinforcing or tire cords
57/903. Sewing threads
57/904. Flame retardant
57/905. Bicomponent material
57/906. Line appliances
57/907. Foamed and/or fibrillated
57/908. Jet interlaced or intermingled

Chain, staple, and horseshoe making

59/00. Chain, staple, and horseshoe making
59/90. Plastic
59/901. Cross pin

Power plants

60/00. Power plants
60/90. Excess air to internal combustion engine to assist exhaust treatment
60/901. Exhaust treatment special to rotary internal combustion engines
60/902. Rotary reactor, separator or treater of exhaust of an internal combustion engine
60/903. Closures operators
60/904. Propeller or airplane system
60/905. Winding and reeling
60/906. Engine speed responsive throttle control system
60/907. Working member positioned against counterforce by constantly applied motive fluid
60/908. Washing machine system
60/909. Reaction motor or component composed of specific material
60/91. Free piston
60/911. Fluid motor system incorporating electrical system
60/912. Cooling means
60/913. Collection of reggio patents
60/914. Explosive
60/915. Collection of goddard patents
60/916. Unitary construction
60/917. Solid fuel ramjet using pulverized fuel

Refrigeration

62/00. Refrigeration
62/01. Radiant cooling
62/02. Refrigerant pumps
62/05. Aircraft cooling
62/07. Vacuum plates
62/10. Tool cooling
62/11. Hydrator receptacles
62/13. Insulation
62/16. Roof and ceiling located coolers
62/17. Condenser pressure control
62/19. Ionic thompson effect
62/20. Materials used to prevent corrosion in refrigeration system
62/21. Evaporators where refrigerant covers heat exchange coil
62/22. Free cooling
62/23. Explosive digest
62/90. Triple column
62/901. Single column
62/902. Apparatus
62/903. Heat exchange structure
62/904. Coiled heat exchanger
62/905. Column
62/906. Packing
62/907. Insulation
62/908. Filter or absorber
62/909. Regeneration
62/91. Expander
62/911. Portable
62/912. External refrigeration system
62/913. Liquified gas
62/914. Magnetic or electric field
62/915. Combustion
62/916. Explosion reduction
62/917. Mercury
62/918. Halocarbon
62/919. Isotope
62/92 . Carbon monoxide
62/921 . Chlorine
62/922 . Sulfur
62/923 . Inert gas
62/924 . Argon
62/925 . Xenon or krypton
62/926 . Gasoline
62/927 . Natural gas from nitrogen
62/928 . Recovery of carbon dioxide
62/929 . From natural gas
62/93 . From nitrogen
62/931 . Recovery of hydrogen
62/932 . From natural gas
62/933 . From helium
62/934 . From nitrogen
62/939 . Partial feed stream expansion, air
62/94 . High pressure column

Jewelry

63/00 Jewelry
63/01 . Adhesive jewelry
63/02 . Perfumed jewelry
63/03 . Plastic jewelry
63/90 . Magnetic connector

Glass manufacturing

65/00 Glass manufacturing
65/01 . Lens envelope
65/03 . Cracked glass
65/04 . Electric heat
65/05 . Foi glass
65/06 . Glass electrode
65/08 . Quartz
65/09 . Tube
65/10 . Stemware
65/11 . Encapsulating
65/12 . Reed switch
65/13 . Computer control
65/15 . Nonoxygen containing chalogenides
65/16 . Optical filament or fiber treatment with fluorine or incorporating fluorine in final product
65/90 . Drying, dehydration, minimizing oh groups
65/901 . Liquid phase reaction process

Textiles: fluid treating apparatus

68/00 Textiles: fluid treating apparatus
68/90 . Foam treatment
68/901 . High frequency treatment
68/902 . Devices for storage and reuse of soap suds
68/903 . Perforated drum and continuous textile feed and discharge

Locks

70/00 Locks
70/01 . Tumbler registerable with aperture
70/02 . Tumbler, lateral locking
70/05 . Magazine cylinder and pin tumblers
70/06 . Bolt dogged in retracted position
70/07 . Sleeve with embeddable tooth
70/08 . Closure-operator lock

68/09 . Pawl and ratchet lock
70/10 . Thermally controlled
70/11 . Garage door lock
70/12 . Extension link with detachable link fastener
70/13 . Socket-key lock
70/14 . Insertable permanent key
70/15 . Plug with tumbler retainer
70/16 . Jail door lock
70/17 . Check-key lock
70/18 . Revolving door lock
70/19 . Showcase lock
70/20 . Push to project and lock bolt, key-released
70/21 . Permutation, rotatable-segmental tumbler bolts
70/22 . Segemental tumbler
70/23 . Segmental slot in tumbler cooperating with a pin
70/24 . Curved slot in tumbler
70/25 . Peripheral pin on tumbler
70/26 . Locking lug on bolt
70/27 . Manually locked, key-released
70/28 . Fence tumbler
70/29 . Wedge tumbler
70/30 . Switch lock
70/31 . Handle assembly, lock-controlled
70/32 . Positioners
70/33 . Starting point
70/34 . Cover fasteners
70/35 . Double-ended lock cylinder
70/36 . Spring Returned lock cylinder
70/37 . Cylinder lock, multiple tumbler arrangements
70/38 . Cylinder lock, lateral keyhole
70/39 . Cylinder and knob connection
70/40 . Cylinder lock utilizing sheet metal
70/41 . Coin-controlled
70/42 . Lost motion devices
70/43 . Lock protectors
70/44 . Combination changers
70/45 . Time lock and auxiliary lock operable on failure of time lock
70/46 . Conducting key
70/47 . Laterally movable key
70/48 . Fluid pressure lock
70/49 . With alarm
70/50 . Time lock, fluid-controlled
70/51 . Light sensitive control means
70/52 . Over center spring
70/53 . Adjustable spring
70/54 . Double-ended spring
70/55 . Unitary multiple springs
70/56 . Lock protecting cover
70/57 . Screw guard
70/58 . Handle guard
70/59 . Lock with indicator
70/60 . Opposed cylinders
70/61 . Die cast cylinder
70/62 . Cylinder plug stop
70/63 . Multiple locks
70/64 . Door spanning bolt
70/65 . Double door lock
70/66 . Double-ended bolt
70/67 . Handle-contained latch operator
70/68 . Oblique bolt
70/69  Measuring and testing
70/70  . Floating bolt
70/71  . Geneva stop
70/72  . Combined permutation and key lock
70/73  . Thumb latch operator
70/74  . Telephone lock
70/75  . Spring tumbler
70/76  . Adjustable tumbler
70/77  . Jaw tumbler
70/78  . Sliding and oscillating bolt
70/79  . Sliding and rotary bolt
70/80  . Sliding bolt with sliding operating means
70/81  . Camouflaging means

71/00  Chemistry: fertilizers
71/02  . Chelating agent
71/03  . Defluorination
71/04  . Anti-corrosion
71/09  . Foams
71/01  . Refuse conditioning
71/02  . Nitrification inhibition
71/03  . Soil conditioner
71/04  . Carrier

72/00  Metal deforming
72/01  . Deforming specified alloys or uncommon metal or bimetallic work
72/02  . Preventing distortion
72/03  . Overbending to compensate for springback
72/04  . Camber-adjusting tool
72/05  . Vehicle body or frame straightener
72/06  . Explosive
72/07  . Magnetism
72/08  . Reverse drawing
72/09  . Superplastic material
72/11  . Vibrating
72/11  . Hydrostatic extrusion
72/12  . Electrical terminal crimper
72/13  . Method of making vehicle power transmitting shaft
72/14  . Method of making universal joint shell
72/15  . Method of making can bodies

73/00  Measuring and testing
73/01  . Vibration
73/02  . Magnetostrictive
73/03  . Hall effect
73/04  . Piezoelectric
73/05  . Liquid levels with magnetic transmission
73/08  . Fluid circuits
73/09  . Molten metal samplers
73/10  . Instrument mechanisms with acceleration compensation
73/11  . Photovoltaic cell
73/90  . Automatic gain control
73/901 . Digital readout

74/00  Machine element or mechanism
74/01  . Hydraulic control systems automatic automotive controls
74/02  . Miscellaneous control systems, e.g. ship propulsion, machine tools
74/03  . Movable van or blade torque converters
74/04  . Magnetic gearing
74/05  . Gas turbine with gearing
74/06  . Transistor-electronic gearing controls
74/07  . Indicators-sensors and meters
74/08  . Marine control-electronic gearing controls
74/09  . Perpetual motion gimmicks
74/10  . Polymer digest - plastic gears
74/11  . Creeper speed
74/12  . Novikov gears
74/90  . Particular shift pattern

75/00  Specialized metallurgical processes, compositions for use therein, consolidated metal powder compositions, and loose metal particulate mixtures
75/01  . Consolidated metal powder compositions of >95% theoretical density, e.g. wrought
75/02  . Oxide containing, e.g. dispersion strengthened
75/03  . Producing fibers, filaments, or whiskers
75/04  . Producing spheres
75/05  . Producing flakes or crystals
75/06  . Producing dental product
75/07  . Producing particles containing a dispersed phase
75/08  . Continuous refining of molten iron
75/09  . Thermit-type reaction of solid materials only to yield molten metal
75/10  . in zero gravity environment
75/11  . Treating flue dust to obtain metal other than by consolidation
75/12  . Treating or using mill scale

76/00  Metal tools and implements, making
76/01  . Bowling pin
76/02  . Case hardening
76/03  . Casting
76/04  . Chromium
76/05  . Electric welding
76/06  . Laminated
76/07  . Plastics
76/08  . Razor blade manufacturing
76/09  . Razor blade sharpeners
76/10  . Soldering and cooling
76/11  . Tungsten and tungsten carbide
76/12  . Diamond tools

81/00  Tools
81/01  . Tool-support adjuncts
81/02  . Spiral drive for wrenches
Cutting

83/00 Cutting
83/01 Safety devices
83/02 I-shaped beam cutter
83/03 Inflatable tube
83/04 Book index cutting
83/05 Buttonhole making
83/06 Chip making
83/07 Coiled wire cutting
83/08 Comb, rake, or other toothed article making
83/09 Cutting strand extending from or lying on strand or package support
83/10 Embroidery trimming or cutting
83/11 Envelope blank forming
83/12 Envelope openers
83/13 Filament to staple fiber cutting
83/14 Flash trimming
83/15 Fur cutting
83/153 Ice cutting machines
83/155 Microtome
83/16 Nibbling
83/17 Notching
83/18 Pinking
83/19 Sample taking
83/20 Shingle making
83/21 Slide fastener cutting
83/22 Tacky web cutting
83/23 Waste product cutting
83/24 Work wrapped or coated around a core, not part of the machine
83/27 Printer's rule cutting
83/28 Vehicle-mounted tool
83/29 Particular nature of work or product
83/291 Printed circuit board
83/292 Electrical component lead trimming

Turning

82/00 Turning
82/01 Lathe thermal regulation
82/02 Chip removal
82/02 Oil grooving device
82/03 Balancing and centering
82/04 Vibrating method or tool
82/05 Transmission accessory or control

Music

84/00 Music
84/01 Plural speakers
84/02 Preference networks
84/03 Foldable; detachable; collapsible
84/04 Chorus; ensemble; celeste
84/05 Chiff
84/06 Cathode-ray tube
84/07 Electric key switch structure
84/08 Keyed oscillators
84/09 Filtering
84/10 Feedback
84/11 Frequency dividers
84/12 Side; rhythm and percussion devices
84/13 Gas discharge tube
84/14 Harmonicas
84/15 Accordions
84/16 Crescendo
84/17 Cabinets
84/18 Tuning
84/19 Light sensitive resistor
84/20 Monophonic
84/21 Mechanical resonator
84/22 Chord organs
84/23 Electronic gates for tones
84/24 Piezoelectrical transducers
84/25 Pedal clavier
84/26 Reverberation
84/27 Stereo
84/28 Service manuals
84/29  .  Tape
84/30  .  Fret control

Motors: expansible chamber type

91/00  Motors: expansible chamber type
91/01  .  Digital
91/02  .  Exhaust throttled motor control
91/03  .  Large area valve
91/04  .  Magnets

Expansible chamber devices

92/00  Expansible chamber devices
92/01  .  Bearing on piston or cylinder
92/02  .  Fluid bearing
92/03  .  Flexible drive
92/04  .  Lost motion

Gas separation: processes

95/00  Gas separation: processes
95/90  .  Solid sorbent
95/901  .  Activated carbon
95/902  .  Molecular sieve
95/903  .  Carbon

Foods and beverages: apparatus

99/00  Foods and beverages: apparatus
99/10  .  Temperature responsive
99/11  .  Conductivity control
99/12  .  Supersonic
99/13  .  Electrical deposition
99/14  .  Induction heating
99/15  .  Pie pans

Presses

100/00  Presses
100/901  .  Scrap auto body crushers
100/902  .  Can crushers
100/903  .  Pelleters
100/904  .  Screw
100/905  .  inner roll
100/906  .  Reciprocating
100/907  .  Rotary
100/908  .  Series rolls
100/909  .  Adjustable die openings
100/91  .  Meat
100/911  .  Jet or explosive
100/912  .  Binder containers
100/913  .  Truss presses
100/914  .  Scrap paper
100/915  .  Fixed upper ram, lower movable receptacle
100/916  .  Coil tightener and binder
100/917  .  Magnetic
100/918  .  Bolster and die

Printing

101/00  Printing
101/29  .  Printing involving a color-forming phenomenon
101/30  .  Special article printing with article controlled operation
101/31  .  Devices for applying metal leaf employing hot dies
101/32  .  Means to vary the time of contact of one or more rollers in an ink train
101/33  .  Ink transfer employing one or more belts
101/34  .  Means to agitate ink in a reservoir
101/35  .  Rollers and track therefore in printing presses
101/36  .  Means for registering or alignment of print plates on print press structure
101/37  .  Printing employing electrostatic force
101/38  .  Means for axially reciprocating inking rollers
101/39  .  Printing on cylinder of revolution
101/40  .  Means to print on golf balls
101/41  .  Means for braking press cylinders
101/42  .  Means for tensioning webs
101/43  .  Machines printing by both intaglio and another type of printing means
101/44  .  Coin controlled printing machines
101/45  .  Sensor for ink or dampening fluid thickness or density
101/46  .  Printing operation controlled by code indicia on printing plate or substate
101/47  .  Automatic or remote control of metering blade position
101/48  .  Endless printing belt for other than selective or progressive printing
101/49  .  Convertible printing press, e.g. lithographic to letter press

Ammunition and explosives

102/00  Ammunition and explosives
102/70  .  Combustible cartridge
102/701  .  Charge wave forming
102/702  .  Compression ignition
102/703  .  Flechette
102/704  .  Coolants
102/705  .  Separated explosive constituents

Railways

104/00  Railways
104/01  .  Toy railroad

Compositions: coating or plastic

106/00  Compositions: coating or plastic
106/01  .  Fly ash
106/02  .  Perlite
106/03  .  Mica
106/04  .  Bentonite
106/07  .  Asphalt binders in coating compositions
106/90  .  Soil stabilization
106/901  .  Low molecular weight hydrocarbon polymer-containing mixture

Horizontally supported planar surfaces

108/00  Horizontally supported planar surfaces
108/901  .  Synthetic plastic industrial platform, e.g. pallet
108/902  .  Made with deformable integral fastening elements

Planting

111/00  Planting
111/90  .  Methods of planting seeds and miscellaneous compositions
111/901  .  Lawn or turf
Planting

111/902 . . Pasture renovation
111/903 . Monitor
111/904 . . Population control function
111/905 . Seed treating seed planter
111/906 . Specialized commodity
111/907 . . Cane
111/908 . . Potato
111/909 . . Bulb
111/91 . . . Onion
111/911 . . Rice
111/912 . . Pineapple
111/913 . . Vegetable, i.e. small seed
111/914 . . . Lettuce
111/915 . . Special condition
111/916 . . . Seed pellet
111/917 . . . Gel
111/918 . . Sprout
111/919 . . Special transplant related feature
111/92 . Airplane
111/921 . . Unique motor drive
111/922 . . Variable drive mechanism
111/923 . . Interrow, intercrop planter
111/924 . Minimum and no till planter
111/925 . . Tank and hopper trailers
111/926 . . Special suspension or gauging feature
111/927 . . Parallelogram mounting

Sewing

112/00 Sewing
112/01 . Suction thread cutting
112/02 . Air work handling
112/03 . Pneumatic

Signals and indicators

116/00 Signals and indicators
116/01 . Combined with diverse elements
116/02 . Corrections by cursor lines
116/03 . Shiftable indicia
116/04 . Variable pulley
116/05 . using light guides
116/06 . Pointer structure
116/07 . Fluid actuated
116/08 . Inflatable indicator
116/09 . Balloons
116/10 . Bimetal detents
116/11 . On ski binders
116/12 . Door knockers
116/13 . Inclinometers for earth working devices
116/14 . Tapes as carriers
116/15 . Projection
116/16 . Road structure
116/17 . Tactile
116/18 . Wave generators
116/19 . Wave generator with resonating element
116/20 . Automobile transmission position
116/21 . Shaft position indicators
116/22 . Heated air
116/23 . Movable index
116/24 . with suction cups
116/25 . Air filter condition indicator
116/26 . Light rod
116/27 . Blowout plates
116/28 . Push button structure
116/29 . TV tuner
116/30 . Remote TV tuner
116/31 . TV channel selector
116/32 . Content indicator by weight
116/33 . Indicator for elevated cables
116/34 . Tension indicating
116/35 . Electrolymingescent dials
116/36 . Illuminated dial and pointer
116/37 . Multiple movable scales
116/38 . Hot box alarm
116/39 . Dial magnifiers
116/40 . Flare devices
116/41 . Color comparison
116/42 . Oil filter
116/43 . Navigation devices
116/44 . Portable personal alarms
116/45 . Parallax
116/46 . Interchangeable scales
116/47 . Scale conversion, e.g. english-metric

Single-crystal, oriented-crystal, and epitaxy growth processes; non-coating apparatus therefor

117/00 Single-crystal, oriented-crystal, and epitaxy growth processes; non-coating apparatus therefor
117/90 . Apparatus characterized by composition or treatment thereof, e.g. surface finish, surface coating
117/901 . Levitation, reduced gravity, microgravity, space
117/902 . . Specified orientation, shape, crystallography, or size of seed or substrate
117/903 . . Dendrite or web or cage technique
117/904 . . Laser beam
117/905 . . Electron beam
117/906 . . Special atmosphere other than vacuum or inert
117/907 . . Refluxing atmosphere
117/91 . Downward pulling
117/911 . . Seed or rod holders
117/912 . . Replenishing liquid precursor, other than a moving zone
117/913 . . Graphoepitaxy or surface modification to enhance epitaxy
117/914 . . Crystallization on a continuous moving substrate or cooling surface, e.g. wheel, cylinder, belt
117/915 . . Separating from substrate
117/916 . . Oxygen testing
117/917 . . Magnetic
117/918 . Single-crystal waveguide
117/919 . . Organic

Coating apparatus

118/00 Coating apparatus
118/01 . Anti-offset
118/02 . Bead coater
118/03 . Container-related coater
118/04 . Curtain coater
118/05 . Fluidized bed
118/06 . Fruit coater
118/07 . Hoods
118/08 . Pan greaser
118/09 . Plank and molding coater
Coating apparatus

Internal-combustion engines

123/00 Internal-combustion engines
123/01 Interchangeable
123/02 Accumulated fuel return to tank or engine-induction system
123/03 Model
123/04 Stratification
123/05 Crankcase pressure-operated pumps
123/06 Detachable
123/07 Convertible
123/08 Multiple engine units
123/09 Flame ignition
123/10 Fluidic amplifier fuel control
123/11 Antidieseling
123/12 Hydrogen
123/13 Gas

Mechanical guns and projectors

124/00 Mechanical guns and projectors
124/09 Limb tip rotatable element structure

Stone working

125/00 Stone working
125/091 Forming piezoelectric crystals

Stoves and furnaces

126/00 Stoves and furnaces
126/903 Solar collector cleaning device
126/904 Arrangements for sealing solar collector
126/905 Preventing condensing of moisture in solar collector
126/906 Connecting plural solar collectors as a unit
126/907 Absorber coating
126/908 Particular chemical
126/909 Linear concentrating lens
126/91 Heat storage liquid

Sugar, starch, and carbohydrates

127/00 Sugar, starch, and carbohydrates
127/01 Caramel

Surgery

128/00 Surgery
128/01 Motorized syringe
128/03 Heart-lung
128/06 Intravenous injection support
128/07 Servo-systems
128/08 Collagen
128/10 Fluid amplifiers
128/12 Pressure infusion
128/13 Infusion monitoring
128/14 Polytetrafluoroethylene, i.e. PTFE
128/15 Hook and loop type fastener
128/18 Heat shrinkable film
128/19 Clavicle splint
128/20 Inflatable splint
128/21 Silicone
128/22 Blood coagulation
128/23 Cervical collars
128/24 Medical-surgical bags
128/25 Artificial sphincters and devices for controlling urinary incontinence
128/26 Cannula supporters
128/27 Cryogenic
128/90 Blood pressure recorder
128/901 Suppression of noise in electric signal
128/902 Biological signal amplifier
128/903 Radio telemetry
128/904 Telephone telemetry
128/905 Feedback to patient of biological signal other than brain electric signal
128/906 Multiphasic diagnostic clinic
128/907 Acupuncture
128/908 Patient protection from electric shock
128/909 Breathing apparatus with means for preventing patient cross-contamination
128/91 Anesthesia gas scavenging system
128/911 Unilimb inhalation-exhalation breathing tubes

Animal husbandry

119/00 Animal husbandry
119/01 Milk digest
119/09 Feed saving device
119/091 Chain feeder
119/092 Feed agitator
119/093 Poultry roost preventing device
119/094 Stanchion sure stop
119/095 Breaking or training method
119/096 Animal counting
119/097 Harness
119/098 Electrical animal control or handling

Liquid heaters and vaporizers

122/00 Liquid heaters and vaporizers
122/01 Air heater
122/02 Air heater - indirectly heated
122/03 Gas flow baffles
122/04 Once through boilers
122/05 Critical pressure
122/06 Damper-directed radiation
122/07 Feeding air
122/10 Portable units
122/11 Removable steam-heating elements
122/13 Tubes - composition and protection
122/14 Tube replacement
122/15 Valves
122/16 Welding

Surgery

128/00 Surgery
128/01 Motorized syringe
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<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>128/912</td>
<td>.</td>
<td>Connections and closures for tubes delivering fluids to or from the body</td>
</tr>
<tr>
<td>128/913</td>
<td>.</td>
<td>Breathable liquids</td>
</tr>
<tr>
<td>128/914</td>
<td>.</td>
<td>Rebreathing apparatus for increasing carbon dioxide content in inhaled gas</td>
</tr>
<tr>
<td>128/915</td>
<td>.</td>
<td>Ultrasound mammaryography</td>
</tr>
<tr>
<td>128/916</td>
<td>.</td>
<td>Ultrasound 3-D imaging</td>
</tr>
<tr>
<td>128/917</td>
<td>.</td>
<td>Body fluid, devices for protection thearefrom, e.g. aids, hepatitis</td>
</tr>
<tr>
<td>128/918</td>
<td>.</td>
<td>Condoms and shields</td>
</tr>
<tr>
<td>128/919</td>
<td>.</td>
<td>Syringe, means to protect user</td>
</tr>
<tr>
<td>128/92</td>
<td>.</td>
<td>Computer assisted medical diagnostics</td>
</tr>
<tr>
<td>128/921</td>
<td>.</td>
<td>Diet management</td>
</tr>
<tr>
<td>128/922</td>
<td>.</td>
<td>including image analysis</td>
</tr>
<tr>
<td>128/923</td>
<td>.</td>
<td>by comparison of patient data to other data</td>
</tr>
<tr>
<td>128/924</td>
<td>.</td>
<td>using artificial intelligence</td>
</tr>
<tr>
<td>128/925</td>
<td>.</td>
<td>Neural network</td>
</tr>
</tbody>
</table>

**Tobacco**

<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>131/00</td>
<td>Tobacco</td>
<td>Pipe literature</td>
</tr>
<tr>
<td>131/01</td>
<td></td>
<td>Liquified gas employed in puffing tobacco</td>
</tr>
<tr>
<td>131/02</td>
<td>.</td>
<td>Organic liquid employed in puffing tobacco</td>
</tr>
<tr>
<td>131/03</td>
<td>.</td>
<td>Inorganic chemical agents employed in puffing tobacco</td>
</tr>
<tr>
<td>131/04</td>
<td>.</td>
<td>Fixing the product after puffing</td>
</tr>
<tr>
<td>131/05</td>
<td>.</td>
<td>Pneumatic means for sensing condition or characteristic</td>
</tr>
<tr>
<td>131/06</td>
<td>.</td>
<td>Radiation source for sensing condition or characteristic</td>
</tr>
<tr>
<td>131/07</td>
<td>.</td>
<td>Sensing condition or characteristic of continuous tobacco rod</td>
</tr>
<tr>
<td>131/08</td>
<td>.</td>
<td>Ejection or rejection of finished article due to detected or sensed condition</td>
</tr>
<tr>
<td>131/09</td>
<td>.</td>
<td>Sensing unique characteristic or specific condition of finished product</td>
</tr>
<tr>
<td>131/10</td>
<td>.</td>
<td>Sensing condition in feed hopper for cigar or cigarette making</td>
</tr>
<tr>
<td>131/11</td>
<td>.</td>
<td>Sensing or detecting malfunction in cigar or cigarette maker</td>
</tr>
</tbody>
</table>

**Toilet**

<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>132/00</td>
<td>Toilet</td>
<td>Comb tooth shape</td>
</tr>
<tr>
<td>132/01</td>
<td></td>
<td>Liquid treating forms and mandrels</td>
</tr>
</tbody>
</table>

**Cleaning and liquid contact with solids**

<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>134/00</td>
<td>Cleaning and liquid contact with solids</td>
<td>Paint roller</td>
</tr>
<tr>
<td>134/01</td>
<td></td>
<td>Contact lens</td>
</tr>
<tr>
<td>134/02</td>
<td></td>
<td>Semiconductor wafer</td>
</tr>
</tbody>
</table>

**Tent, canopy, umbrella, or cane**

<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>135/00</td>
<td>Tent, canopy, umbrella, or cane</td>
<td>Worker or spectator shelter</td>
</tr>
<tr>
<td>135/01</td>
<td></td>
<td>Hunting blind or ice-fishing shelter</td>
</tr>
<tr>
<td>135/02</td>
<td></td>
<td>Dressing shelter, e.g. beach or bathing</td>
</tr>
<tr>
<td>135/03</td>
<td></td>
<td>Roller-operated canvas</td>
</tr>
<tr>
<td>135/04</td>
<td></td>
<td>Separate storage means or housing for shelter</td>
</tr>
<tr>
<td>135/05</td>
<td></td>
<td>Method of erecting shelter</td>
</tr>
<tr>
<td>135/06</td>
<td></td>
<td>Arched structure</td>
</tr>
</tbody>
</table>

**Batteries: thermoelectric and photoelectric**

<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>136/00</td>
<td>Batteries: thermoelectric and photoelectric</td>
<td>Testing, calibrating, treating, e.g. aging</td>
</tr>
<tr>
<td>136/01</td>
<td></td>
<td>Applications</td>
</tr>
<tr>
<td>136/02</td>
<td></td>
<td>Space - satellite</td>
</tr>
<tr>
<td>136/03</td>
<td></td>
<td>Circuits</td>
</tr>
</tbody>
</table>

**Fluid handling**

<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>137/00</td>
<td>Fluid handling</td>
<td>Bumpless manual to automatic relays</td>
</tr>
<tr>
<td>137/01</td>
<td></td>
<td>Biased ball valves with operators</td>
</tr>
<tr>
<td>137/02</td>
<td></td>
<td>Slush pump check valves</td>
</tr>
<tr>
<td>137/03</td>
<td></td>
<td>Rubber valve springs</td>
</tr>
<tr>
<td>137/04</td>
<td></td>
<td>Cushion check valves</td>
</tr>
<tr>
<td>137/05</td>
<td></td>
<td>Rotary valves for multiple gas burners</td>
</tr>
<tr>
<td>137/06</td>
<td></td>
<td>Valves biased by fluid &quot;springs&quot;</td>
</tr>
<tr>
<td>137/07</td>
<td></td>
<td>Vacuum-actuated valves</td>
</tr>
<tr>
<td>137/08</td>
<td></td>
<td>Respirator control</td>
</tr>
<tr>
<td>137/09</td>
<td></td>
<td>Magnetic fluid valve</td>
</tr>
<tr>
<td>137/91</td>
<td></td>
<td>Destructible or deformable element constructed of specific material</td>
</tr>
</tbody>
</table>

**Pipes and tubular conduits**

<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>138/00</td>
<td>Pipes and tubular conduits</td>
<td>Adhesive</td>
</tr>
<tr>
<td>138/01</td>
<td></td>
<td>Glass fiber</td>
</tr>
<tr>
<td>138/02</td>
<td></td>
<td>Polytetrafluoroethylene, i.e. PTFE</td>
</tr>
<tr>
<td>138/03</td>
<td></td>
<td>Air conditioning</td>
</tr>
<tr>
<td>138/04</td>
<td></td>
<td>Pre-stress</td>
</tr>
<tr>
<td>138/05</td>
<td></td>
<td>Corrosion</td>
</tr>
<tr>
<td>138/06</td>
<td></td>
<td>Resins</td>
</tr>
<tr>
<td>138/07</td>
<td></td>
<td>Bent shaped retained</td>
</tr>
<tr>
<td>138/08</td>
<td></td>
<td>Cellular</td>
</tr>
<tr>
<td>138/09</td>
<td></td>
<td>Metal foil</td>
</tr>
<tr>
<td>138/10</td>
<td></td>
<td>Shape</td>
</tr>
</tbody>
</table>

**Textiles: weaving**

<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>139/00</td>
<td>Textiles: weaving</td>
<td>Bias fabric digest</td>
</tr>
</tbody>
</table>

**Fluent material handling, with receiver or receiver coating means**

<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>141/00</td>
<td>Fluent material handling, with receiver or receiver coating means</td>
<td>Magnetic</td>
</tr>
<tr>
<td>141/01</td>
<td></td>
<td>Fluidic flow control valves</td>
</tr>
</tbody>
</table>

**Metal treatment**

<table>
<thead>
<tr>
<th>Class</th>
<th>Subclass</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>148/00</td>
<td>Metal treatment</td>
<td>Amorphous semiconductor</td>
</tr>
<tr>
<td>148/01</td>
<td></td>
<td>Amphoteric doping</td>
</tr>
<tr>
<td>148/02</td>
<td></td>
<td>Anneal</td>
</tr>
</tbody>
</table>
Metal treatment

148/004 . Annealing, incoherent light
148/005 . Antimonides of gallium or indium
148/006 . Apparatus
148/007 . Autodoping
148/008 . Bi-level fabrication
148/009 . Bi-MOS
148/01 . Bipolar transistors-ion implantation
148/011 . Bipolar transistors
148/012 . Bonding, e.g. electrostatic for strain gauges
148/013 . Breakdown voltage
148/014 . Capacitor
148/015 . Capping layer
148/016 . Catalyst
148/017 . Clean surfaces
148/018 . Compensation doping
148/019 . Contacts of silicides
148/02 . Contacts, special
148/021 . Continuous process
148/022 . Controlled atmosphere
148/023 . Deep level dopants
148/024 . Defect control-gettering and annealing
148/025 . Deposition multi-step
148/026 . Deposition thru hole in mask
148/027 . Dichlorosilane
148/028 . Dicing
148/029 . Differential crystal growth rates
148/03 . Diffusion
148/031 . Diffusion at an edge
148/032 . Diffusion length
148/033 . Diffusion of aluminum
148/034 . Diffusion of boron or silicon
148/035 . Diffusion through a layer
148/036 . Diffusion, nonselective
148/037 . Diffusion-deposition
148/038 . Diffusions-staged
148/039 . Displace P-N junction
148/04 . Dopants, special
148/041 . Doping control in crystal growth
148/042 . Doping, graded, for tapered etching
148/043 . Dual dielectric
148/045 . Electric field
148/046 . Electron beam treatment of devices
148/047 . Emitter dip
148/048 . Energy beam assisted EPI growth
148/049 . Equivalence and options
148/05 . Etch and refill
148/051 . Etching
148/052 . Face to face deposition
148/053 . Field effect transistors fets
148/054 . Flat sheets-substrates
148/055 . Fuse
148/056 . Gallium arsenide
148/057 . Gas flow control
148/058 . Ge germanium
148/059 . Germanium on silicon or Ge-Si on III-V
148/06 . Gettering
148/061 . Gettering-armorphous layers
148/062 . Gold diffusion
148/063 . Gp II-IV-VI compounds
148/064 . Gp II-VI compounds
148/065 . Gp III-V generic compounds-processing
148/066 . Gp III-V liquid phase epitaxy
148/067 . Graded energy gap
148/068 . Graphite masking
148/069 . Green sheets
148/07 . Guard rings and emos
148/071 . Heating, selective
148/072 . Heterojunctions
148/073 . Hollow body
148/074 . Horizontal melt solidification
148/075 . Imide resists
148/076 . Implant
148/077 . Implantation of silicon on sapphire
148/078 . Impurity redistribution by oxidation
148/079 . Inert carrier gas
148/08 . Infra-red
148/081 . Insulators
148/082 . Ion implantation FET's/COMs
148/083 . Ion implantation, general
148/084 . Ion implantation of compound devices
148/085 . Isolated-integrated
148/086 . Isolated zones
148/087 . I2L integrated injection logic
148/088 . J-Fet, i.e. junction field effect transistor
148/089 . Josephson devices
148/09 . Laser anneal
148/091 . Laser beam processing of fets
148/092 . Laser beam processing-diodes or transistor
148/093 . Laser beam treatment in general
148/094 . Laser beam treatment of compound devices
148/095 . Laser devices
148/096 . Lateral transistor
148/097 . Lattice strain and defects
148/098 . Layer conversion
148/099 . LED, multicolor
148/10 . Lift-off masking
148/101 . Liquid Phase Epitaxy, LPE
148/102 . Mask alignment
148/103 . Mask, dual function, e.g. diffusion and oxidation
148/104 . Mask, movable
148/105 . Masks, metal
148/106 . Masks, special
148/107 . Melt
148/108 . Melt back
148/109 . Memory devices
148/11 . Metal-organic CVD, ruehrwein type
148/111 . Narrow masking
148/112 . Nitridation, direct, of silicon
148/113 . Nitrides of boron or aluminum or gallium
148/114 . Nitrides of silicon
148/115 . Orientation
148/116 . Oxidation, differential
148/117 . Oxidation, selective
148/118 . Oxide films
148/119 . Phosphides of gallium or indium
148/12 . Photocathodes-Cs coated and solar cell
148/121 . Plastic temperature
148/122 . Polycrystalline
148/123 . Polycrystalline diffuse anneal
148/124 . Polycrystalline emitter
148/125 . Polycrystalline passivation
Metal treatment

148/126 . Power FETs
148/127 . Process induced defects
148/128 . Proton bombardment of silicon
148/129 . Pulse doping
148/13 . Purification
148/131 . Reactive ion etching rie
148/132 . Recoil implantation
148/133 . Reflow oxides and glasses
148/134 . Remelt
148/135 . Removal of substrate
148/136 . Resistors
148/137 . Resist
148/138 . Roughened surface
148/139 . Schottky barrier
148/14 . Schottky barrier contacts
148/141 . Self-alignment coat gate
148/142 . Semiconductor-metal-semiconductor
148/143 . Shadow masking
148/144 . Shallow diffusion
148/145 . Shaped junctions
148/146 . Sheet resistance, dopant parameters
148/147 . Silicides
148/148 . Silicon carbide
148/149 . Silicon on III-V
148/15 . Silicon on sapphire SOS
148/151 . Simultaneous diffusion
148/152 . Single crystal on amorphous substrate
148/154 . Solid phase epitaxy
148/155 . Solid solubility
148/156 . Sonos
148/157 . Special diffusion and profiles
148/158 . Sputtering
148/159 . Strain gauges
148/16 . Superlattice
148/161 . Tapered edges
148/162 . Testing steps
148/163 . Thick-thin oxides
148/164 . Three dimensional processing
148/165 . Transmutation doping
148/166 . Traveling solvent method
148/167 . Two diffusions in one hole
148/168 . V-Grooves
148/169 . Vacuum deposition, e.g. including molecular beam epitaxy
148/17 . Vapor-liquid-solid
148/171 . Varistor
148/172 . Vidicons
148/173 . Washed emitter
148/174 . Zener diodes
148/190 . Ion implanted
148/901 . Surface depleted in an alloy component, e.g. decarburized
148/902 . having portions of differing metallurgical properties or characteristics
148/903 . Directly treated with high energy electromagnetic waves or particles, e.g. laser, electron beam
148/904 . Crankshaft
148/905 . Cutting tool
148/906 . Roller bearing element
148/907 . Threaded or headed fastener
148/908 . Spring
148/909 . Tube
148/91 . in pattern discontinuous in two dimensions, e.g. checkerboard pattern

Explosive and thermic compositions or charges

149/00 Explosive and thermic compositions or charges
149/11 . Particle size of a component
149/111 . Nitrated organic compound
149/112 . Inorganic nitrogen-oxygen salt
149/113 . Inorganic oxygen-halogen salt
149/114 . Inorganic fuel
149/115 . Organic fuel
149/116 . Flare contains resin
149/117 . Smoke or weather composition contains resin
149/118 . Gel contains resin
149/119 . Oxidizer compounds
149/12 . High energy fuel compounds
149/121 . Containing B, P or S
149/122 . Containing N, without B, P or S
149/123 . Tagged compositions for identifying purposes
149/124 . Methods for reclaiming or disposing of one or more materials in a composition

Purses, wallets, and protective covers

150/00 Purses, wallets, and protective covers
150/90 . Means biasing mouth in open or closed configuration
150/901 . insulating flaccid cover

Resilient tires and wheels

152/00 Resilient tires and wheels
152/01 . Pebble ejectors
152/02 . Static discharge
152/03 . Slits in threads
152/04 . Crack resistant
152/05 . Water filled
152/06 . Peg leg
152/07 . Rubber valves
152/08 . Clamps
152/09 . Bead to rim seal
152/10 . Split rim seal
152/11 . Tubeless valves
152/12 . White sidewalls
152/13 . Valves stem guards
152/14 . Fabrics
152/15 . Overlap
152/16 . Air impermeable liner
152/17 . Grooved rim
152/18 . Hub tires
152/19 . Sandwich breakers
152/20 . Rims for inverted bead tires
152/90 . Tread pattern having no blocks and having circumferential ribs defined by zig-zag circumferential grooves
152/901 . Tread pattern having no blocks and having circumferential ribs defined by linear circumferential grooves having straight edges
152/902 . Non-directional tread pattern having no circumferential rib and having blocks defined by circumferential grooves and transverse grooves
Resilient tires and wheels

Adhesive bonding and miscellaneous chemical manufacture

156/00  Adhesive bonding and miscellaneous chemical manufacture
156/006  .  Off-drum manufacture of tire fabric or ply
156/007  .  including assembly of bias-cut fabric
156/008  .  Laminating sheet to entire edge of block and both adjacent opposite surfaces, e.g. bookbinding
156/009  .  Apparatus for applying new tread to used tire casing, e.g. retreading, recapping
156/91  .  Bonding tire cord and elastomer: improved adhesive system
156/912  .  Differential etching apparatus having a vertical tube reactor
156/913  .  Differential etching apparatus having a horizontal tube reactor
156/914  .  Differential etching apparatus including particular materials of construction
156/915  .  Differential etching apparatus including focus ring surrounding a wafer for plasma apparatus
156/916  .  Differential etching apparatus including chamber cleaning means or shield for preventing deposits
156/917  .  Differential etching apparatus having a barrel reactor
156/918  .  Delaminating processes adapted for specified product, e.g. delaminating medical specimen slide
156/919  .  Delaminating in preparation for post processing recycling step
156/92  .  .  Textile delaminating in preparation for recycling, e.g. carpet
156/921  .  .  Delaminating container component in preparation for recycling, e.g. glass bottle, plastic bottle
156/922  .  .  Specified electronic component delaminating in preparation for recycling
156/923  .  .  .  Delaminating wire or optical fiber laminate, e.g. coaxial cable, optical cable
156/924  .  .  .  Delaminating display screen, e.g. cathode-ray, LCD screen
156/925  .  .  .  .  Delaminating display screen using sintering for delamination
156/926  .  .  .  .  Delaminating recording media, e.g. DVD, CD, HD, flash memory
156/927  .  .  .  .  Delaminating vehicle component, e.g. brake pad
156/928  .  .  .  .  Delaminating tire, e.g. tread from carcass
156/929  .  .  .  .  Delaminating component from building, e.g. wall paper, shingle
156/93  .  .  .  .  Semiconductive product delaminating, e.g. delaminating emiconductive wafer from underlayer
156/931  .  .  .  .  Peeling away backing
156/932  .  .  .  .  with poking during delaminating, e.g. jabbing release sheet backing to remove wafer
156/934  .  .  .  .  Apparatus having delaminating means adapted for delaminating a specified article
156/935  .  .  .  .  Delaminating means in preparation for post consumer recycling

Concentrating evaporators

159/00  Concentrating evaporators
159/01  .  Electric heat
159/02  .  Entrainment
159/03  .  Fluidized bed
159/04  .  Foam
159/05  .  Freezing
159/06  .  Infrared
159/07  .  Magnetic coupling
159/08  .  Multieffect or multistage
159/09  .  Two liquids dried simultaneously
159/10  .  Organic
159/11  .  Biologicals
159/12  .  Radioactive
159/13  .  Scale
159/14  .  Soap
159/15  .  Special material
159/16  .  Vacuum
159/17  .  Two liquids
159/18  .  Accumulator
159/19  .  Acid
159/20  .  Additive
159/21  .  Coating
159/22  .  Condensate flashing
159/23  .  Cooling
159/24  .  Critical
159/25  .  .  Decant, press, centrifuge
159/26  .  .  Electric field
159/27  .  .  Micropores
159/28  .  .  Porous member
159/29  .  .  Pebble bed
159/30  .  .  Desuper heating
159/31  .  .  Deaeration
159/32  .  .  Indirect heat exchange
159/33  .  .  Two liquids, one a heat carrier
159/34  .  .  Caustic
159/35  .  .  Viewports, peep sights, and sightglasses
159/36  .  .  Rabbled hearth
159/37  .  .  Ported
159/38  .  .  Seed
159/39  .  .  Power plant
159/40  .  .  Pumps
159/41  .  .  Removable units
159/42  .  .  Seals
159/90  .  .  using vibratory force
159/901 .  .  Promoting circulation
Flexible or portable closure, partition, or panel

160/00 Flexible or portable closure, partition, or panel
160/01 . Auto radiator screens
160/02 . Auto screens and miscellaneous
160/03 . Auto visors and glare shields
160/04 . Auto side awnings
160/05 . Awning head and front bars
160/06 . Bath curtains
160/07 . Fabric
160/08 . Flexible door
160/09 . Fireplace screen
160/10 . Roll screen
160/11 . Roll screen idler roll
160/12 . Overlapping, on windows
160/13 . Suction cup
160/14 . Step joints
160/15 . Web-to-tube fasteners
160/16 . Magnetic
160/17 . Venetian blinds, motor driven
160/18 . Zipper
160/19 . Storm sash
160/90 . Vertical type venetian blind
160/901 . Lazy-tong connected plural strips, slats, or panels
160/902 . Venetian blind type bracket means
160/903 . Roll type bracket means
160/904 . Electric or pneumatic awning operator
160/905 . Lazy-tong-link awning operator
160/906 . Screw-threaded awning operator
160/907 . Spring, other than spring roller, awning operator
160/908 . Strand awning operator
160/909 . . . Endless strand
160/91 . . . Drum wound strand
160/911 . Worm gear awning operator
160/912 . Rack-and-pinion awning operator
160/913 . Gear awning operator

Paper making and fiber liberation

162/00 Paper making and fiber liberation
162/02 . Chip soaking
162/03 . Wetting agent
162/04 . Pitch control
162/05 . Alpha cellulose
162/06 . Moisture and basic weight
162/07 . Water collectors, e.g. save-alls
162/08 . Chlorine-containing liquid regeneration
162/09 . Uses for paper making sludge
162/10 . . . Computer control of paper making variables
162/11 . . . Wet end paper making variables
162/12 . Seasoning
162/90 . Papermaking press felts
162/901 . Impermeable belts for extended nip press
162/902 . Woven fabric for papermaking drier section
162/903 . Paper forming member, e.g. fourdrinier, sheet forming member
162/904 . . with specified seam structure of papermaking belt

Metal founding

164/00 Metal founding
164/01 . Battery
164/02 . Bearing
164/03 . Centrifugal
164/04 . Dental
164/05 . Electron beam
164/06 . Ingot
164/07 . Melt
164/08 . Piston
164/09 . Piston-vacuum
164/10 . Rotor
164/11 . Slush
164/12 . Thermit
164/13 . Valve
164/14 . Wheel
164/15 . Precision casting
164/90 . Rheo-casting

Heat exchange

165/00 Heat exchange
165/001 . . with alarm, indicator, recorder, test, or inspection means
165/002 . . Energy, efficiency, performance or malfunction
165/003 . . Remote control inspection means
165/004 . . Sight glass
165/005 . . Fluid level or amount
165/006 . . Temperature
165/007 . . Flow or valve position
165/008 . . Leakage
165/009 . . having a solid heat storage mass for absorbing heat from one fluid and releasing it to another, i.e. regenerator
165/01 . . Cleaning storage mass
165/011 . . . Reciprocating cleaner device, e.g. scraper, sprayer
165/012 . . . Spray nozzle cleaner
165/013 . . . Movable heat storage mass with enclosure
165/014 . . . Reciprocated linearly
165/015 . . . with pump
165/016 . . . Rotary storage mass
165/017 . . . . . with thermal expansion compensating means
165/018 . . . . . having means controlling direction or rate of flow
165/019 . . . . . Plate type shutter associated with face of storage mass
165/02 . . . Seal and seal-engaging surface are relatively movable
165/021 . . . Seal engaging a face of cylindrical heat storage mass
165/022 . . . . . Seal defining sector-shaped flow area
165/023 . . . . . Brush-type seal
165/024 . . . . . Circumferential seal
165/025 . . . . . Heat resistant material seal
165/026 . . . . . Seal attached to and rotating with storage mass
165/027 . . . . . with particular rotary bearing or drive means
165/028 . . . . . Ring gear surrounding cylindrical storage mass
Heat exchange

165/029 . . . Cylindrical storage mass with axial flow passages
165/03  . . . Mass formed of modules arranged in three dimensional matrix, i.e. checkerwork
165/031 . . . Gradated flow area, heat capacity or conductivity
165/032 . . . having gas supply or exhaust manifold structure
165/033 . . . with flow control device, i.e. valve
165/034 . . . with flow distributing baffle
165/035 . . . in casing
165/036 . . . Distinct passages formed in individual modules
165/037 . . . having flow diverting means, e.g. valve to selectively control flow through storage mass
165/038 . . . Correlated control of plural diverting means
165/039 . . . Synchronously rotated flow guiding hoods disposed on opposite sides of fixed regenerator
165/04  . . . Linearly movable diverting means
165/041 . . . Rotary diverting means
165/042 . . . Particular structure of heat storage mass
165/043 . . . Element for constructing regenerator rotor
165/044 . . . having flexible heat exchange surface conforming to a solid structure, e.g. applicator
165/045 . . . Conform to head, neck, or face
165/046 . . . Heat exchange body suit
165/047  . . . for cooling
165/048  . . . Electrical component
165/049 . . . Or for heating
165/05  . . . including a pump or valve
165/051 . . . having expansion and contraction relieving or absorbing means
165/052 . . . for cylindrical heat exchanger
165/053 . . . Flexible or movable header or header element
165/054 . . . Movable header, e.g. floating header
165/055 . . . including guiding means for movable header
165/056 . . . . . . Fluid sealing means between movable header and enclosure
165/057 . . . Flexing tubesheet
165/058 . . . Movable tubesheet, e.g. floating tubesheet
165/059 . . . . . . Tubesheet connected to enclosure by expansion joint
165/06  . . . Expandable casing for cylindrical heat exchanger
165/061 . . . . . . for plural cylindrical heat exchangers
165/062 . . . having particular external casing support means
165/063 . . . Cylindrical heat exchanger fixed to fixed end supports
165/064 . . . . . . including intermediate support
165/065 . . . . . . Bent cylindrical heat exchanger
165/066 . . . . . . Coiled
165/067 . . . . . . Cylindrical heat exchanger rectilinearly slidable relative to its support
165/068 . . . . . . including fluid seal
165/069 . . . . . . Pivotal support for cylindrical heat exchanger
165/07  . . . Resilient fluid seal
165/071 . . . Resilient fluid seal for plate-type heat exchanger
165/072 . . . Agitator or impeller motor operated by first heat exchange fluid
165/073 . . . To agitate or move second heat exchange fluid
165/074 . . . Agitator structure confines first heat exchange fluid
165/075 . . . Agitator structure confines second heat exchange fluid
165/076 . . . with scraper for removing product from heat transfer surface
165/077 . . . Screw shaped scraper
165/078 . . . Linearly operated scraper
165/079 . . . Reciprocated linearly
165/08  . . . Plural scrapers for spaced shelves or chambers
165/081 . . . Rotary heat exchange scraper or scraper for rotary heat exchange surface
165/082 . . . Grooved drum surface
165/083 . . . Scraper attached to or formed part of rotary heat exchange fluid surface
165/084 . . . Scraper within annular space formed by concentric cylinders or concentric conical surfaces
165/085 . . . Scraper for cleaning inner surface of rotary heat exchange surface
165/086 . . . Weight operated scraper
165/087 . . . Spring pressed scraper
165/088 . . . Adjustable scraper
165/089 . . . for scraping flat horizontal surface
165/09  . . . Scraper blade movable relative to scraper blade support, e.g. pivoting blade, rocking blade
165/091 . . . for scraping wall of cylindrical heat exchanger
165/092 . . . with valve or movable deflector for heat exchange fluid flow
165/093 . . . Adjustable radiator face covering means, e.g. adjustable shield for car radiator, heater core
165/094 . . . Windowshade type, i.e. sheet feeds off roller
165/095 . . . Rectilinear sliding movement of adjustable cover
165/096 . . . Pivotal movement of adjustable cover
165/097 . . . Plural parallel pivotable shutters
165/098 . . . . . . One shutter section having different flow area or flow direction with another shutter section
165/099 . . . with fan
165/10  . . . Flow direction reversed through heat exchanger
165/101 . . . for controlling supply of heat exchange fluid flowing between hydraulically independent heat exchange sections
165/102 . . . Hydraulically independent single-confined-fluid radiator sections for heating ambient air
165/103 . . . Valves each controls a radiator section
165/104 . . . Hydraulically independent heat exchange sections connected in parallel
165/105 . . . Correlated valves
165/106 . . . Valves each controls a heat exchange section
165/107 . . . Hydraulically independent heat exchange tubes disposed in housing, e.g. tank, casing
165/108 . . . . . . Coiled tubes
165/109 . . . . . . with by-pass of heat exchanger or heat exchanger section
165/11  . . . Bypass within or surrounds heat exchanger
165/111 . . . Heat exchanger enclosing a fluid conduit confining second heat exchange fluid
165/112 . . . Stove pipe drum having air draft passage for heating ambient air
165/113 . . . Bypass centrally located in heat exchanger
165/114 . . . having centrally located in heat exchanger
Surrounding by a helical flow channel
Plural adjacent flow channel parallel to central bypass
Arranged for series flow therethrough
Serpentine heat exchange flow path
Bypass controlled by pivotal damper
U or serpentine heat exchange flow path
Serpentine heat exchange flow path
U heat exchange flow path and linear bypass
Heat exchange flow path through heat exchanger altered, e.g. crossed
Stove pipe drum
Valve mounted on fixed deflector
Total flow rate through heat exchanger controlled by valve
Stove pipe drum
including air draft passage for heating ambient air
Valve regulates flow through housing enclosing heat exchanger
including valve regulating flow through heat exchanger
Single-confined-fluid radiator for heating ambient air
with adjustor for heat flow
Conduction rate
by varying thickness of conductive layer, e.g. air gap
Movable heat exchanger
Movable belt or strip transfers heat to or from objects or material thereon
Unconstrained movement, e.g. float
Partially rotatable, e.g. rocking, pivoting, oscillation, tilting
Fully rotatable
Rotating heat exchanger having rotating flow confining structures or chambers for two separate heat exchange fluids
Concentric flow confining structures or chambers
Jacketed shell
Discrete tubing having length extending along a longitudinal axis of rotating heat exchanger
Helical
Radially extending hollow arm on rotating shaft traverses furnace shelf, e.g. rabbet arm
Angled blade suspended from arm for advancing material
Fluid impeller or material advancement
Auger
having hollow blade
Radial or axial impeller
having hollow blade
Rotating agitator
Flow space or fluid chamber defined between two relatively movable, closely spaced coextensive surfaces
Hollow tubing rotates in vessel to stir contents
Tubing has radially or axially extending sections
Hollow cylindrical member, e.g. drum
Fluid sprayed onto surface of rotatable cylinder
having stationary material removal means
with particular flow path or defined fluid chamber, e.g. annulus, spiral
Concentric shells define annular flow space
with means defining particular flow path, e.g. baffle
Only direct-contact heat exchange between two separately supplied fluids
including a means to form fluid film on heat transfer surface, e.g. trickle
Film flow constrained to spiral path
Film formed on spirally coiled member
Vertically spaced pipe sections contact liquid in underlying troughs
Liquid film flows sequentially along upper surfaces of vertically spaced trays, i.e. shelf-to-shelf
Film formed on interior surface of container or pipe
inside of vertical pipe
Distributor "cap" mounted in top end of pipe
including means at top end of vertical pipe to distribute liquid film on pipe exterior
Film flows along exterior of plural pipe sections
Pipe exterior surfaces about to form continuous surface
Intervening members extend between spaced pipe sections to form continuous surface
Horizontally extending, parallel sections disposed in vertical array, i.e. one pipe directly above another
with means suspended beneath pipe surface to guide liquid droplets
Film flows along upper surface of tray
Parallel corrugated vertical sheets formed fluid passage therebetweent Container enclosed by casing
Vertically disposable elongated member
Horizontally disposable elongated member
Indirect-contact cooling tower
Indirect-contact evaporator
Indirect-contact condenser
having stacked plates forming flow channel therebetween
Stacked plates surrounded by housing confining another fluid
having pump downstream of condenser
Pump to remove only uncondensed vapor or air
From a first-stage direct-contact condenser
including second-stage indirect-contact condenser
including second-stage direct-contact condenser
including means to heat collected condensate
First-stage condenser serially connected to second-stage condenser
First stage direct-contact condenser
including condensate collecting tray connected to condensate drain conduit to divert condensate around a section of heat transfer surface
165/196 . . . Baffle defines flow passage within header for condensate to bypass portion of vapor flow path
165/197 . . . including means for removing condensate from vapor flow path to bypass portion of vapor flow path
165/198 . . . Condensate guiding means attached to heat transfer surface
165/199 . . . Heat transfer tube surrounds by jacket condensate guiding means
165/20 . . . Condensate guiding means forms inside heat transfer tube
165/201 . . . including fin member associated with condensate guiding means
165/202 . . . Vapor flow passage between vapor inlet and outlet has decreasing cross-sectional area
165/203 . . . Coolant tubes arranged in groups to form vapor flow lanes of decreasing cross-sectional area
165/204 . . . including a direct-contact heat exchange chamber
165/205 . . . Space for condensable vapor surrounds space for coolant
165/206 . . . including coiled heat exchange tube
165/207 . . . Distinct outlets for separated condensate and gas
165/208 . . . including vapor guide plate extending across vapor inlet
165/209 . . . including tube banks arranged in undulating pattern, e.g. w shape
165/21 . . . including perforated baffle completely surrounding a group of coolant tube
165/211 . . . including concave member adjacent to vapor outlet and partially covering a group of coolant tubes
165/212 . . . including inclined flat condensate guiding means
165/213 . . . including baffle partially covering a group of coolant tubes
165/214 . . . including baffle structure for reversing flow direction of vapor
165/215 . . . having longitudinal partition extending parallel to longitudinal axis of coolant tube
165/216 . . . having partition transverse to longitudinal axis of coolant tube
165/217 . . . Space for coolant surrounds space for vapor
165/218 . . . Condensor adapted to cover opening at top of vapor generator
165/219 . . . Radiator cap condenser
165/22 . . . U-shaped or spur tubes connected to adjacent inlet and outlet headers
165/221 . . . Vapor is the only confined fluid
165/222 . . . Plural parallel tubes confining vapor connecting between spaced headers
165/223 . . . Vapor tube enclosed by coolant confining shell
165/224 . . . including a means to form a fluid jet
165/225 . . . with solid conveyor
165/226 . . . Screw conveyor
165/227 . . . Belt conveyor
165/228 . . . with fan or pump
165/229 . . . Screw conveyor in pipe or tank
165/30 . . . Injector-type pump
165/301 . . . having nested nozzles
165/302 . . . Rotary gas pump
165/303 . . . Annular heat exchanger
165/304 . . . Axial impeller
165/305 . . . . . . Located at heat-exchange housing inlet
165/306 . . . . . . Located at heat-exchange housing outlet
165/307 . . . . . . including plural impellers
165/308 . . . . . . Coaxial impellers
165/309 . . . . . . Radial impeller
165/31 . . . . . . Heat exchanger located at housing inlet or outlet
165/311 . . . . . . including particular flow deflector, e.g. shroud, diffuser
165/312 . . . . . . Plural parallel deflectors
165/313 . . . . . . Deflector with curved surface
165/314 . . . . . . Radial impeller
165/315 . . . . . . Located at heat-exchange housing inlet
165/316 . . . . . . Axial impeller located at heat-exchange housing inlet
165/317 . . . . . . Axial impeller located at heat-exchange housing outlet
165/318 . . . . . . with driven agitator
165/319 . . . . . . Linearly moving agitator
165/32 . . . . . . Fully rotary agitator
165/321 . . . . . . Generating toroidal flow
165/322 . . . . . . including heat exchange jacket-walls
165/323 . . . . . . Heating or cooling coil disposed between jacket-walls
165/324 . . . . . . Agitator having blade sections mounted along rotating shaft
165/325 . . . . . . Blade sections mounted along rotating shaft
165/326 . . . . . . Agitator and heating or cooling coil disposed in same housing
165/327 . . . . . . Thermosyphonic having vertical air draft passage
165/328 . . . . . . Air draft passage confined entirely or in part by fin structure
165/329 . . . . . . Corrugated fin attached to heat transfer surface
165/33 . . . . . . Air draft passage is parallel to flow direction of heating or cooling means
165/331 . . . . . . Air draft passage confined entirely by heat transfer surface
165/332 . . . . . . Coaxial ducts define air draft passage and annular passage for heat exchange fluid
165/333 . . . . . . including baffle
165/334 . . . . . . Baffle located in annular passage
165/335 . . . . . . Plural air draft passages enclosed by casing
165/336 . . . . . . Angled air draft passage
165/337 . . . . . . Heating or cooling means entirely surrounded by air draft passage forming casing
165/338 . . . . . . Nested or concentric members define annular air draft passage and heating or cooling conduit
165/339 . . . . . . with baffle
165/34 . . . . . . including flow baffle in casing
165/341 . . . . . . Parallel heating or cooling tubes or tubular sections, e.g. coil, serpentine
165/342 . . . . . . Tank with heat exchanger
165/343 . . . . . . Heat exchanger forms all or portion of tank
165/344 . . . . . . Spiral coil forms hemispherical vessel
165/345 . . . . . . Jacketed vessel
165/346 . . . . . . Flow baffle or fin in annular flow space
165/347 . . . . . . Heat exchanger forms cover for tank
165/348 . . . . . . Heat exchanger within tank
165/349 . . . . . . Supported by cover for tank
165/35 . . . . . . Tubing removably coupled to inlet and outlet at tank wall
165/351 . . . . . . Spaced from tank wall
Heat exchange

165/352 . . . Flow directing baffle associated with heat exchanger tubing
165/353 . . . Tube coil bonded directly to tank exterior
165/354 . . . Heat exchanger serially connected to tank
165/355 . . . having separate flow passage for two distinct fluids
165/356 . . . Plural plates forming a stack providing flow passages therein
165/357 . . . forming annular heat exchanger
165/358 . . . Radially arranged plates
165/359 . . . including means for modifying thermal stress in heat exchange plate
165/36 . . . Stacked plates having plurality of perforations
165/361 . . . Circular flow passages between plates
165/362 . . . Heat exchange liquids separated by double walls
165/363 . . . Slotted plates forming grid
165/364 . . . with fluid traversing passages formed through the plate
165/365 . . . including peripheral seal element forming flow channel bounded by seal and heat exchange plates
165/366 . . . Rigid or semi-rigid peripheral seal frame
165/367 . . . Peripheral seal element between corrugated heat exchange plates
165/368 . . . including angulated corrugations with respect to flow direction
165/369 . . . including seal to plate attachment means
165/37 . . . Unitary heat exchange plate and projecting edge
165/371 . . . including mating flanges around fluid traversing passage
165/372 . . . Adjacent heat exchange plates having joined bent edge flanges for forming flow channels therebetween
165/373 . . . Adjacent heat exchange plates having joined bent edge flanges for forming flow channels therebetween
165/374 . . . Liquid to air heat exchanger having liquid passage formed by joined sheets
165/375 . . . Transverse air tubes
165/376 . . . Air passages defined by spacing projections of sheets
165/377 . . . Spacing projections formed by folded sheet portions
165/378 . . . including intermediate sheet supporting opposed spacing projections
165/379 . . . including corrugated air fin passages between adjacent liquid passages
165/38 . . . Air fin conforms to joined corrugated sheets forming plural liquid chambers
165/381 . . . including air fin apertures
165/382 . . . Overlapping flanges
165/383 . . . Interlocking flanges
165/384 . . . Thermally bonded side edges
165/385 . . . Bent sheet forming a single tube
165/386 . . . To form only air passages
165/387 . . . including side-edge seal or edge spacer bar
165/388 . . . including spacer bar transverse to plate stack
165/389 . . . Flow enhancer integral with side-edge seal or edge spacer bar
165/39 . . . Flange element to connect two adjacent heat exchange plates
165/391 . . . including intermediate corrugated element
165/392 . . . Unitary heat exchange plate and projecting edge
165/393 . . . including additional element between heat exchange plates
165/394 . . . Corrugated heat exchange plate
165/395 . . . Monolithic core having flow passages for two different fluids, e.g. one-piece ceramic
165/396 . . . Plurality of stacked monolithic cores
165/397 . . . including conduits embedded in monolithic block
165/398 . . . Spirally bent heat exchange plate
165/399 . . . Corrugated heat exchange plate
165/40 . . . Shell enclosed conduit assembly
165/401 . . . including tube support or shell-side flow director
165/402 . . . Manifold for shell-side fluid
165/403 . . . Preheater for shell-side fluid for preventing thermal shock to tube sheet
165/404 . . . Serially connected separate shells
165/405 . . . Extending in a longitudinal direction
165/406 . . . Helically or spirally shaped
165/407 . . . internal casing or tube sleeve
165/408 . . . Tube sleeve
165/409 . . . including transverse element, e.g. fin, baffle
165/41 . . . . . . . Movable internal casing connecting to transverse element
165/411 . . . . . . . Connecting to shell by specific structure
165/412 . . . . . . . including transverse element, e.g. fin, baffle
165/413 . . . . . . . for directing flow along the length of tube
165/414 . . . . . . . for supporting coil tubes
165/415 . . . . . . . including perforations
165/416 . . . . . . . Extending transverse of shell, e.g. fin, baffle
165/417 . . . . . . . including spacer or support for transverse tube support or shell-side flow director
165/418 . . . . . . . Tubular spacer sleeve
165/419 . . . . . . . Spacer or support connected to shell
165/42 . . . . . . . Segmented plate
165/421 . . . . . . . Disc and donut plates
165/422 . . . . . . . Unitary tube support or shell-side flow director carried by single tube
165/423 . . . . . . . Bar
165/424 . . . . . . . forming grid structure
165/425 . . . . . . . having ends connected to ring element
165/426 . . . . . . . Clamped tube spacer or support
165/427 . . . . . . . Manifold for tube-side fluid, i.e. parallel
165/428 . . . . . . . including flow director in manifold
165/429 . . . . . . . Line-connected conduit assemblies
165/43 . . . . . . . Manifolds connected in parallel, e.g. multi-stage
165/431 . . . . . . . Manifolds connected in series
165/432 . . . . . . . including a tube sheet
165/433 . . . . . . . Tubes-tubesheet connection
165/434 . . . . . . . Plural strips forming tubesheet
165/435 . . . . . . . Plural bonded conduit end portions, i.e. tubesheet not needed
165/436 . . . . . . . Bent conduit assemblies
165/437 . . . . . . . Coiled
165/438 . . . . . . . Helical
Heat exchange

165/439 . . . Serially connected conduit assemblies, i.e. no manifold
165/44 . . . Coiled conduit assemblies
165/411 . . . Helical
165/442 . . . Conduits
165/443 . . . Adjacent conduits with transverse air passages, e.g. radiator core type
165/444 . . . Including transversely stacked fin sheets
165/445 . . . Including transverse corrugated fin sheets
165/446 . . . Including intermediate sheet between adjacent tubes forming air fin passages
165/447 . . . Corrugated sheet
165/448 . . . Air conduits, e.g. radiator core type
165/449 . . . Vertically stacked conduits
165/45 . . . Including integral abutting or interlocking elements
165/451 . . . Including bent conduits
165/452 . . . Including fins
165/453 . . . Plural elements arranged to form a fluid passage
165/454 . . . Having side-by-side conduits structure or conduit section
165/455 . . . Readily detachable tubes having ends with distinct fluid coupling members engaging corresponding coupling members on manifold
165/456 . . . Readily and independently detachable sections
165/457 . . . Individual manifolds for each section
165/458 . . . Self-contained sections hydraulically connected in series
165/459 . . . Strips with shaped, interfitted edges form heat exchanger core with plural passages
165/46 . . . With spacers interposed between adjacent passages
165/461 . . . Plate fins formed with tubular projections which join with projections of adjacent plates to form parallel conduits
165/462 . . . Tapering, nested projections
165/463 . . . Conduits oblong in cross section
165/464 . . . Conduits formed by joined pairs of matched plates
165/465 . . . Manifold space formed in end portions of plates
165/466 . . . Manifold spaces provided at one end only
165/467 . . . With turbulence enhancing pattern embossed on joined plates
165/468 . . . Core formed by stack tubular members with abutting edges
165/469 . . . Reinforcing rod or strip extends across parallel fin edges
165/47 . . . Tensioning member within manifold
165/471 . . . Plural parallel conduits joined by manifold
165/472 . . . U-shaped conduits connected to side-by-side manifolds
165/473 . . . With clamping member at joint between header plate and header tank
165/474 . . . With compressible seal at joint
165/475 . . . Header plate and tank of dissimilar materials
165/476 . . . Fusion joint, e.g. solder, braze between tube plate and header tank
165/477 . . . Elastic seal element between conduit ends and receiving holes in header plate
165/478 . . . Separate means employed for mechanical attachment and hydraulic seal of conduit ends to header plate
165/479 . . . Tubes joined to tube plate with adhesive, e.g. glue or braze compound
165/48 . . . Elongated support members extending between spaced manifolds
165/481 . . . Portions in manifold define serial flow pattern for conduits/conduit groups
165/482 . . . Portions are separate members
165/483 . . . Flow deflecting/retarding means in header for even distribution of fluid to plural tubes
165/484 . . . Orifices mounted at conduit ends
165/485 . . . Unitary, i.e. one-piece header structure
165/486 . . . Corrugated fins disposed between adjacent conduits
165/487 . . . Louvered
165/488 . . . Header is rounded in cross section, e.g. circular, oval
165/489 . . . Two piece header structure
165/49 . . . Noncircular tube cross section, e.g. oval, triangular
165/491 . . . Manifolds formed in core-enclosing frame
165/492 . . . Plural conduits with ends connected to tube plate
165/493 . . . Welded or fused joint between conduit end and plate
165/494 . . . Conduit end deformed, e.g. expanded to affix to plate
165/495 . . . Single unitary conduit structure bent to form flow path with side-by-side sections
165/496 . . . Spiral or helical coil
165/497 . . . Serpentine flow path with straight side-by-side sections
165/498 . . . Fin assembly extends across side-by-side sections
165/499 . . . With parallel tubes or tube sections having ends joined to opposed frame members
165/50 . . . Side-by-side conduits with fins
165/501 . . . Plate fins penetrated by plural conduits
165/502 . . . Lanced
165/503 . . . Angled louvers
165/504 . . . Contoured fin surface
165/505 . . . Corrugated strips disposed between adjacent conduits
165/506 . . . Side-by-side conduits with means, e.g. support grid holding them in spaced relation
165/507 . . . Straight side-by-side conduits joined for flow of one fluid
165/508 . . . Side-by-side conduits penetrate parallel plate-type fins
165/509 . . . Side-by-side conduits lie in common plane
165/51 . . . Having heat exchange surface treatment, adjunct or enhancement
165/511 . . . Polished heat transfer surface
165/512 . . . Coated heat transfer surface
165/513 . . . Corrosion resistant
165/514 . . . Hydrophilic/hydrophobic coating
165/515 . . . Patterned surface, e.g. knurled, grooved
165/516 . . . Subsurface pockets formed
165/517 . . . Roughened surface
165/518 . . . Conduit with discrete fin structure
165/519 . . . Porous or mesh
165/52 . . . Internal and external
165/521 . . . Fin mesh penetrating conduit wall
165/522 . . . Transverse fins spaced along conduit
Heat exchange

165/523... Separated by integral flanges engaging conduit exterior
165/524... Longitudinally extending
165/525... Helical
165/526... Spine or loop fins
165/527... Integrally formed
165/528... Fin and conduit of diverse materials
165/529... with structure for promoting turbulence and/or breaking up laminar flow adjacent heat transfer surface
165/53... Conduit insert
165/531... with wicking structure
165/532... Heat exchange conduit structure
165/533... Composite of diverse materials
165/534... Concentric layers
165/535... Helically formed
165/536... Noncircular cross-section
165/537... Oblong or elliptical
165/538... with particular flow connecting structure
165/539... having a heat storage mass
165/90... Cooling towers
165/901... Heat savers
165/902... Heat storage
165/903... Convection
165/904... Radiation
165/905... Materials of manufacture
165/906... Reinforcement
165/907... Porous
165/908... Fluid jets
165/909... Regeneration
165/91... Tube pattern
165/911... Vaporization
165/912... Combined or convertible heat exchange modes
165/913... Condensation
165/914... Filming
165/915... Foaming
165/916... Oil cooler
165/917... Pressurization and/or degassification
165/918... Heated and cooled food cabinets and/or trays
165/919... Wheeled
165/92... Particulate heat exchange
165/921... Dew point

Wells

166/00... Wells
166/901... Wells in frozen terrain
166/902... for inhibiting corrosion or coating

Farriery

168/00... Farriery
168/01... Nonmetallic
168/02... Traction shape

Fire extinguishers

169/00... Fire extinguishers
169/01... Floats
169/02... Ablative fluids
169/03... Trip mechanisms

Unearthing plants or buried objects

171/00... Unearthing plants or buried objects
171/01... Peanut digger

Earth working

172/00... Earth working
172/90... Plant thinners

Tool driving or impacting

173/00... Tool driving or impacting
173/01... Operable submerged in liquid
173/02... Sound muffling
173/03... Lubrication
173/04... Liquid operated

Electricity: conductors and insulators

174/00... Electricity: conductors and insulators
174/01... Anti-tracking
174/02... Ballasts
174/07... Sodium conductors, connectors
174/08... Shrinkable tubes
174/09... Pull-out cabinet or drawer with retractable cable
174/10... Bushing with current transformers
174/11... Zipper tubes
174/12... Helical preforms
174/13... High voltage cable, e.g. above 10kv, corona prevention
174/14... having a particular cable application, e.g. winding
174/15... in a power generation system, e.g. prime-mover dynamo, generator system
174/16... in a motive power system, e.g. electric motor control system
174/17... in an electric power conversion, regulation, or protection system
174/18... in a power distribution network
174/19... in a dynamo-electric machine
174/20... Stator
174/21... Rotor
174/22... Winding per se
174/23... in a circuit breaker, relay, or switch
174/24... in an inductive device, e.g. reactor, electromagnet
174/25... Transformer
174/26... having a plural-layer insulation system
174/27... including a semiconductive layer
174/28... Plural semiconductive layers
174/29... having a semiconductive layer
174/30... having insulation with a particular dimension or geometry
174/31... having a shield or metallic layer
174/32... having means for cooling
174/33... Method of cable manufacture, assembly, repair, or splicing
174/34... PCB in box or housing
174/35... Box or housing mounted on substrate or PCB

Weighing scales

177/00... Weighing scales
177/02... Digitizers mechanical
177/03... Digitizers electrical
Weighing scales

177/04 Digitizers non-sensing
177/05 Magnets
177/06 Photoelectric
177/07 Pneumatic controls
177/08 RR motion
177/09 Scale bearings
177/10 Telemetric
177/11 Vibrators

Motor vehicles

180/00 Motor vehicles
180/90 Agricultural-type tractors
180/901 Devices for traversing vertical surfaces
180/902 Shock or vibration absorbing or transmitting means between wheel suspension and motor
180/903 Airstream reactive vehicle or vehicle structure
180/904 Traction dollies for aircraft
180/905 Axles
180/906 Adjustable axles
180/907 Motorized wheelchairs
180/908 Motor vehicles with short wheelbase

Acoustics

181/00 Acoustics
181/40 Wave coupling
181/401 Earth
181/402 Liquid
181/403 Refrigerator compressor muffler
181/404 Hobby craft engine muffler

Motors: spring, weight, or animal powered

185/00 Motors: spring, weight, or animal powered
185/01 Spring powered toys
185/02 foreign digest

Elevator, industrial lift truck, or stationary lift for vehicle

187/00 Elevator, industrial lift truck, or stationary lift for vehicle
187/90 Temporary construction elevator for building
187/901 Control modified for use by disabled individual
187/902 Control for double-decker car

Brakes

188/00 Brakes
188/01 Panic braking
188/02 Hill holder
188/03 Progressive braking

Trunks and hand-carried luggage

190/00 Trunks and hand-carried luggage
190/90 Brief case type
190/901 . Flat opening
190/902 . with closure flap
190/903 . Zipper

Clutches and power-stop control

192/00 Clutches and power-stop control
192/01 Removable members
192/02 Universal joint

Conveyors, chutes, skids, guides, and ways

193/00 Conveyors, chutes, skids, guides, and ways
193/01 Coin chute
193/02 Indicators, safety devices and signals

Check-actuated control mechanisms

194/00 Check-actuated control mechanisms
194/90 Parking meter with barrier
194/901 Check-operated toll booth
194/902 Check-operated device for controlling parking lot
194/903 Check-controlled turnstile
194/904 Check-operated releaser for automobile service equipment
194/905 Shopping cart return
194/906 Video cassette vendor

Conveyors: power-driven

198/00 Conveyors: power-driven
198/95 Conveyor transverses wall aperture
198/951 Turning cigarettes end-for-end
198/952 Heating or cooling
198/953 Coil spring untangling apparatus
198/954 Overflow
198/955 Air manifold
198/956 Impact plates
198/957 Conveyor material
198/958 Load units counter
198/959 Weighing

Electricity: circuit makers and breakers

200/00 Electricity: circuit makers and breakers
200/02 Body attached switches
200/03 Coin operated
200/04 High potential type insulation
200/05 Fluid pressure: fluid amplifier
200/06 Tie bar
200/07 Molded drum
200/08 Disturbance
200/09 Momentum
200/10 Curb, bumper and fender
200/11 Web or thread actuated
200/12 Burglar screens
200/13 Shaft bearing and armature wear indicator switches
200/14 Rail or leak indicator
200/15 Bin alarm
200/16 Gas detector
200/17 Gas engine and motor vehicle
200/18 Gravity
200/19 Gyroscope
200/20 Sound and vibration operated
200/21 Pencil, counter or dispenser operated
200/22 Strain relief, shear pin
200/23 Game
200/24 Plug holder
200/26 Slack cable operated
200/27 Thermal magnetic snap
200/28 Thermal spring snap
200/29 Ball
200/30 Fluid conductor
200/31 Fluid flow
200/32 . Speed responsive
200/33 . Speed synchronizing switch
200/34 . Recording and reproducing
200/35 . Weight operated tread/treadless switch
200/36 . Light operated switches
200/37 . Hose
200/38 . Money till drawer operated
200/39 . Motor vehicle-steering column
200/40 . Moisture
200/41 . Liquid contact
200/42 . Contact welding considerations
200/43 . Fluid-operated matrix switches
200/44 . Lubrication-periodic switches
200/46 . Separators and/or insulators for stacked leaf spring contacts
200/47 . Light guides for switch indicators, e.g. prisms, reflectors or cables

Distillation: processes, thermolytic

201/00 Distillation: processes, thermolytic
201/42 . Particle size
201/43 . An extraneous, cyclically circulated, inert heating gas
201/44 . Plural distinct temperature stages
201/45 . Distillate treatment or conservation

Distillation: apparatus

202/00 Distillation: apparatus
202/01 . Scale problems digest

Distillation: processes, separatory

203/00 Distillation: processes, separatory
203/01 . Solar still
203/02 . Laboratory distillation
203/03 . Acrylonitrile
203/04 . Heat pump
203/05 . Human waste
203/06 . Reactor-distillation
203/07 . Start up or shut down
203/08 . Waste heat
203/09 . Plural feed
203/10 . Vinyl acetate
203/11 . Batch distillation
203/13 . Spirits
203/14 . Ejector-eductor
203/16 . Combination
203/17 . Saline water conversion
203/18 . Control
203/19 . Sidestream
203/20 . Power plant
203/21 . Acrylic acid or ester
203/22 . Accessories
203/23 . Methanol
203/24 . Mobile, marine distiller
203/25 . Non-distilling bottoms treatment
203/90 . Particular type of heating

Chemistry: electrical and wave energy

204/00 Chemistry: electrical and wave energy
204/03 . Auxiliary internally generated electrical energy
204/04 . Electrolysis cell combined with fuel cell
204/05 . Magnetic plus electrolytic
204/06 . Unusual non-204 uses of electrolysis
204/07 . Current distribution within the bath
204/08 . AC plus DC
204/09 . Wave forms
204/12 . Electrochemical machining
204/13 . Purification and treatment of electroplating baths and plating wastes
204/90 . Effecting a change in isomerization by wave energy
204/901 . Effecting a color change by wave energy
204/902 . Production of desired compound by wave energy in presence of a chemically designated non-reactant chemical treating agent, excluding water, chloroform, carbon tetrachloride, methylene chloride or benzene
204/903 . Inorganic chemical treating agent
204/904 . . . . Metal treating agent
204/905 . . . . Heavy metal agent
204/907 . . . Silicon or boron treating agent
204/908 . . . Phosphorus treating agent
204/909 . . . Heavy metal treating agent
204/91 . Sulfur treating agent
204/911 . Nitrogen treating agent
204/912 . . . Oxygen treating agent
204/913 . . . Peroxide agent
204/914 . . . Only carbon, hydrogen or halogen atom in treating agent

Electrolysis: processes, compositions used therein, and methods of preparing the compositions

205/00 Electrolysis: processes, compositions used therein, and methods of preparing the compositions
205/915 . Electrolytic deposition of semiconductor
205/916 . Sequential electrolytic and nonelectrolytic, or non-electrolytic and electrolytic coating from the same bath
205/917 . Treatment of workpiece between coating steps
205/918 . Use of wave energy or electrical discharge during pretreatment of substrate or post-treatment of coating
205/919 . Waterproofing
205/92 . Electrolytic coating of circuit board or printed circuit, other than selected area coating
205/921 . Electrolytic coating of printing member, other than selected area coating
205/922 . Electrolytic coating of magnetic storage medium, other than selected area coating
205/923 . Solar collector or absorber
205/924 . Electrolytic coating substrate predominantly comprised of specified synthetic resin
205/925 . Synthetic resin is electrically conductive
205/926 . Polyamide or polyimide, e.g. nylon
205/927 . Polyoledin, e.g. polyethylene, polypropylene
205/928 . ABS copolymer

Special receptacle or package

206/00 Special receptacle or package
206/80 . Chewing gum
206/802 . Shredded sausage casing
206/803 . Emergency, e.g. flare, first aid, survival pack
206/804 . with means to lift or draw out content
206/805  . Rubber band
206/806  . Suspension
206/807  . Tamper proof
206/809  . X-type
206/81  . Zipper, i.e. receptacle securement
206/811  . Waterproof
206/812  . Packaged towel
206/813  . Adhesive
206/814  . Space filler
206/815  . Finger opening
206/816  . Flexible closure, e.g. sliding desktop type
206/817  . Follower
206/818  . Magnet
206/819  . Material
206/82  . Separable, striplike plural articles
206/821  . Stacking member
206/822  . Special shape
206/823  . Cosmetic, toilet, powder puff
206/824  . Tear apertures for roll, strip, or sheet
206/825  . Recoil-type retainer
206/828  . Medicinal content
206/829  . Vacuum, or suction, cup adjunct
206/83  . Biscuit package
206/831  . Detachable coupon
206/832  . Semiconductor wafer boat
206/833  . Apertured side walls

**Mineral oils: processes and products**

208/00  **Mineral oils: processes and products**
208/01  . Automatic control
208/02  . Molecular sieve
208/95  . Processing of "fischer-tropsch" crude
208/951  . Solid feed treatment with a gas other than air, hydrogen or steam
208/952  . Solid feed treatment under supercritical conditions

**Classifying, separating, and assorting solids**

209/00  **Classifying, separating, and assorting solids**
209/90  . Sorting flat-type mail
209/901  . Froth flotation; copper
209/902  . Froth flotation; phosphate
209/903  . Feeder conveyor having opposed grippers
209/904  . Feeder conveyor holding item by magnetic attraction
209/905  . Feeder conveyor holding item by suction
209/906  . Pneumatic or liquid stream feeding item
209/907  . Magnetic feeder
209/908  . Item fed by free fall
209/909  . Item holding feed magazine insertable in sorting apparatus
209/91  . Feed hopper
209/911  . Feed means supporting or guiding item moving under influence of gravity
209/912  . Endless feed conveyor with means for holding each item individually
209/913  . Screw feed conveyor
209/914  . Diverse sequential feeding steps
209/915  . Centrifugal feeder
209/916  . Reciprocating pusher feeding item
209/917  . Endless belt pusher feeding item
209/918  . Swinging or rotating pusher feeding item
209/919  . Rotary feed conveyor
209/92  . Vibratory feed conveyor
209/921  . Reciprocating or oscillating feed conveyor
209/922  . Miscellaneous feed conveyors
209/923  . Feed through including at least one endless conveyor
209/924  . Gravity conveyor moving item from separating station
209/925  . Driven or fluid conveyor moving item from separating station
209/926  . Silverware sorter
209/927  . Cop sorter
209/928  . Container closure sorter
209/929  . Fastener sorter
209/93  . Municipal solid waste sorting
209/931  . Materials of construction
209/932  . Fluid applied to items
209/933  . Accumulation receiving separated items
209/934  . Moving items to sorting means in spaced relation lengthwise of feed path
209/935  . Ambulant
209/936  . Plural items tested as group
209/937  . Laundry sorting
209/938  . Illuminating means facilitating visual inspection
209/939  . Video scanning
209/94  . Noncondition-responsive sorting by contour
209/941  . Item carrying bridge raisable to expose discharge opening
209/942  . Operator selects destination of item

**Liquid purification or separation**

210/00  **Liquid purification or separation**
210/03  . Belt alignment
210/05  . Coalescer
210/06  . Dehydrators
210/07  . Drier blocks
210/08  . Fat fryer
210/09  . Floating cover
210/13  . Part flow-full flow
210/17  . Twist-on
210/90  . Ultra pure water, e.g. conductivity water
210/901  . Specified land fill feature, e.g. prevention of ground water fouling
210/902  . Materials removed
210/903  . Nitrogenous
210/904  . -CN containing
210/905  . Protein
210/906  . Phosphorus containing
210/907  . Phosphate slimes
210/908  . Organic
210/909  . Aromatic compound, e.g. pcb, phenol
210/91  . Nonbiodegradable surfacant
210/911  . Cumulative poison
210/912  . Heavy metal
210/913  . Chromium
210/914  . Mercury
210/915  . Fluorine containing
210/916  . Odor, e.g. including control or abatement
210/917  . Color
210/918  . Miscellaneous specific techniques
210/919  . using combined systems by merging parallel diverse waste systems
Liquid purification or separation

210/92 . . using combined systems of sequential local and regional or municipal sewage systems
210/921 . . Flow equalization or time controlled stages or cycles
210/922 . . Oil spill cleanup, e.g. bacterial
210/923 . . using mechanical means, e.g. skimmers, pumps
210/924 . . using physical agent, e.g. sponge, mop
210/925 . . using chemical agent
210/926 . . using oxidation ditch, e.g. carousel
210/928 . Paper mill waste, e.g. white water, black liquor treated
210/929 . Hemofiltrate volume measurement or control processes
210/93 . Paint detackifying
210/931 . Zebra mussel mitigation or treatment

Supports: racks
211/00 Support: racks
211/01 . Magnetic article holder

Traversing hoists
212/00 Traversing hoists
212/001 . Dolley-type cranes

Bottles and jars
215/00 Bottles and jars
215/01 . Fins
215/02 . Coatings and laminations for making of bottle caps
215/03 . Medical
215/04 . Capping materials
215/05 . Spoons
215/06 . Resin-coated bottles
215/07 . with drinking cup
215/08 . Mixing
215/09 . Collapsible wall structure
215/091 . Tamper-resistant structure
215/092 . Vent

Receptacles
220/00 Receptacles
220/01 . Beer barrels
220/02 . Bottle crates
220/03 . Breaker strips and sealing strips
220/04 . Bushings
220/05 . Antidrip
220/06 . Drains
220/07 . Flexible tubes
220/08 . Ice cream cabinets
220/09 . Insulating materials
220/10 . Lunch kits
220/11 . Materials
220/12 . Molded
220/13 . Odd-shaped
220/14 . Plastic
220/15 . Plastic bottle crates
220/16 . Pressure indicators
220/17 . Pressure and temperature locks
220/18 . Refrigerator linings
220/19 . Rubber plugs and caps
220/20 . Safety locking devices
220/21 . Shields
220/22 . Seamless
220/23 . Fiberglass
220/24 . Tank trucks
220/25 . U-shaped sectional
220/26 . Vanity
220/27 . Vents
220/28 . Washtubs
220/29 . Welded seam
220/30 . Biodegradable
220/31 . Sonic seal
220/32 . Radiator cap
220/33 . Gasoline tank cap
220/34 . Anti-tamper pharmaceutical capsules, e.g. tamper indicating or resistant
220/35 . Rupture proof
220/90 . Liquified gas content, cryogenic
220/902 . Foam
220/903 . Insulating jacket for beverage container
220/904 . Pail or bucket of flexible or flaccid material, e.g. fabric, rubber
220/905 . Flexible fuel tank for a vehicle
220/906 . Beverage can, i.e. beer, soda
220/907 . Collapsible
220/908 . Trash container
220/9081 . with liner
220/9082 . . including deodorizer, animal repellent, or insecticide
220/9083 . . including guiding means for directing trash into the container, e.g. funnel
220/909 . Segregated
220/91 . Table-top type
220/911 . . Can converted to ash container
220/912 . Cookware, i.e. pots and pans
220/913 . Ventilated container
220/914 . Container contoured to fit a body part
220/915 . Aerosol valve cap or protector
220/9151 . Hand-carried container for transporting a beverage or prepared food, e.g. lunch box, dinner pail, picnic cooler
220/9152 . . insulated cooler, e.g. for use on a picnic, at the beach
220/916 . Container including axially opposed removable closures
220/917 . Corrosion resistant container
220/918 . Spacing element for separating the walls of a spaced-wall container
220/919 . . Removable or separable spacing element
220/92 . Shock absorbing spacing element, e.g. spring
220/921 . . Spacing element of unitary construction with one wall

Article dispensing
221/00 Article dispensing
221/01 . Storage retrieval

Dispensing
222/00 Dispensing
222/01 . Xerography
### Apparel apparatus

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>223/00</td>
<td>Apparel apparatus</td>
</tr>
<tr>
<td>223/01</td>
<td>Tie hanger</td>
</tr>
<tr>
<td>223/02</td>
<td>Holders and clamps</td>
</tr>
<tr>
<td>223/03</td>
<td>Reversible hanger</td>
</tr>
<tr>
<td>223/04</td>
<td>Hooks</td>
</tr>
</tbody>
</table>

### Package and article carriers

<table>
<thead>
<tr>
<th>Code</th>
<th>Package and article carriers</th>
</tr>
</thead>
<tbody>
<tr>
<td>224/00</td>
<td>Package and article carriers</td>
</tr>
<tr>
<td>224/01</td>
<td>Carrier component having adherent surface</td>
</tr>
<tr>
<td>224/012</td>
<td>Loop and hook fastener</td>
</tr>
<tr>
<td>224/014</td>
<td>On strap</td>
</tr>
<tr>
<td>224/016</td>
<td>Closure fastener</td>
</tr>
<tr>
<td>224/018</td>
<td>Connection between support and article or receiver</td>
</tr>
<tr>
<td>224/02</td>
<td>Battery carrier</td>
</tr>
<tr>
<td>224/03</td>
<td>Holder for timepiece not carried on wrist</td>
</tr>
<tr>
<td>224/04</td>
<td>Tool holder carried by belt</td>
</tr>
<tr>
<td>224/05</td>
<td>Attaching means crossing back of pack animal</td>
</tr>
<tr>
<td>224/06</td>
<td>Container formed of folded paperboard</td>
</tr>
<tr>
<td>224/07</td>
<td>Rigid shield or pad positioned between article and bearer</td>
</tr>
<tr>
<td>224/08</td>
<td>Carrier for camera or other photographic equipment</td>
</tr>
<tr>
<td>224/09</td>
<td>Binocular carrier</td>
</tr>
<tr>
<td>224/91</td>
<td>Carrier for musical instrument</td>
</tr>
<tr>
<td>224/911</td>
<td>Handgun holder formed of leather, fabric, or other flexible material</td>
</tr>
<tr>
<td>224/912</td>
<td>Handgun holder formed of metal or other rigid material</td>
</tr>
<tr>
<td>224/913</td>
<td>Carrier for rifle or shotgun</td>
</tr>
<tr>
<td>224/914</td>
<td>Carrier for handcuffs, blackjack, club, or other equipment carried by policeman</td>
</tr>
<tr>
<td>224/915</td>
<td>Carrier for folded umbrella</td>
</tr>
<tr>
<td>224/916</td>
<td>Carrier for bow or arrow</td>
</tr>
<tr>
<td>224/917</td>
<td>Ski carrier</td>
</tr>
<tr>
<td>224/9175</td>
<td>Vehicle attached</td>
</tr>
<tr>
<td>224/918</td>
<td>Carrier for golf tee or marker</td>
</tr>
<tr>
<td>224/919</td>
<td>Ball carrier</td>
</tr>
<tr>
<td>224/92</td>
<td>Carrier for fishing bait or lure, or fish carrier other than stringer</td>
</tr>
<tr>
<td>224/921</td>
<td>Game carrier other than stringer</td>
</tr>
<tr>
<td>224/922</td>
<td>Fishing rod holder</td>
</tr>
<tr>
<td>224/923</td>
<td>Carrier with sleeping compartment</td>
</tr>
<tr>
<td>224/924</td>
<td>Vehicle attached carrier for bicycle or motorcycle</td>
</tr>
<tr>
<td>224/925</td>
<td>Carrier for grocery bag</td>
</tr>
<tr>
<td>224/926</td>
<td>Vehicle attached carrier for beverage container or bottle</td>
</tr>
<tr>
<td>224/927</td>
<td>Carrier for clothes hanger</td>
</tr>
<tr>
<td>224/928</td>
<td>Trash receptacle</td>
</tr>
<tr>
<td>224/929</td>
<td>Article carrier for electrical device</td>
</tr>
<tr>
<td>224/93</td>
<td>Attached to animate bearer</td>
</tr>
<tr>
<td>224/931</td>
<td>Carrier for ammunition</td>
</tr>
<tr>
<td>224/932</td>
<td>Carrier for towel or handkerchief</td>
</tr>
<tr>
<td>224/933</td>
<td>Carrier for gloves</td>
</tr>
<tr>
<td>224/934</td>
<td>Underwater carrier</td>
</tr>
<tr>
<td>224/935</td>
<td>Carrier for cycle lock</td>
</tr>
</tbody>
</table>

### Elongated-member-driving apparatus

<table>
<thead>
<tr>
<th>Code</th>
<th>Elongated-member-driving apparatus</th>
</tr>
</thead>
<tbody>
<tr>
<td>227/00</td>
<td>Elongated-member-driving apparatus</td>
</tr>
<tr>
<td>227/902</td>
<td>Surgical clip applicers</td>
</tr>
</tbody>
</table>

### Metal fusion bonding

<table>
<thead>
<tr>
<th>Code</th>
<th>Metal fusion bonding</th>
</tr>
</thead>
<tbody>
<tr>
<td>228/00</td>
<td>Metal fusion bonding</td>
</tr>
<tr>
<td>228/01</td>
<td>Process of bonding batteries</td>
</tr>
<tr>
<td>228/02</td>
<td>using flame</td>
</tr>
<tr>
<td>228/03</td>
<td>Metal to nonmetal</td>
</tr>
<tr>
<td>228/04</td>
<td>Wire bonding</td>
</tr>
</tbody>
</table>

### Envelopes, wrappers, and paperboard boxes

<table>
<thead>
<tr>
<th>Code</th>
<th>Envelopes, wrappers, and paperboard boxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>229/00</td>
<td>Envelopes, wrappers, and paperboard boxes</td>
</tr>
<tr>
<td>229/90</td>
<td>including means to facilitate handling by a mechanical apparatus during manufacturing or filling</td>
</tr>
<tr>
<td>229/901</td>
<td>Box structure alternatively useable as a container or a lid</td>
</tr>
<tr>
<td>229/902</td>
<td>Box for prepared or processed food</td>
</tr>
<tr>
<td>229/903</td>
<td>Ovenable, i.e. disclosed to be placed in an oven</td>
</tr>
<tr>
<td>229/904</td>
<td>Compartmented fast food holder or lap tray</td>
</tr>
<tr>
<td>229/9041</td>
<td>Candy</td>
</tr>
<tr>
<td>229/905</td>
<td>Frozen food</td>
</tr>
<tr>
<td>229/906</td>
<td>Baked goods</td>
</tr>
<tr>
<td>229/9061</td>
<td>Cup lid with means for forming a drinking opening</td>
</tr>
<tr>
<td>229/907</td>
<td>Trash box</td>
</tr>
<tr>
<td>229/908</td>
<td>Paint tray</td>
</tr>
<tr>
<td>229/909</td>
<td>Cigar box</td>
</tr>
<tr>
<td>229/91</td>
<td>Bucket or pail type, i.e. liquid proof container with handle</td>
</tr>
<tr>
<td>229/911</td>
<td>with closure</td>
</tr>
<tr>
<td>229/912</td>
<td>. . . Separate element</td>
</tr>
<tr>
<td>229/913</td>
<td>Drawer-type</td>
</tr>
<tr>
<td>229/914</td>
<td>Basket-type with handle</td>
</tr>
<tr>
<td>229/915</td>
<td>Stacking feature</td>
</tr>
<tr>
<td>229/9151</td>
<td>Gable-top box</td>
</tr>
<tr>
<td>229/916</td>
<td>Means for ventilating while stacked</td>
</tr>
<tr>
<td>229/917</td>
<td>Stacking of collapsed container or blank</td>
</tr>
<tr>
<td>229/918</td>
<td>Corner construction</td>
</tr>
<tr>
<td>229/919</td>
<td>Reinforced wall</td>
</tr>
<tr>
<td>229/92</td>
<td>Stress relief</td>
</tr>
<tr>
<td>229/921</td>
<td>with mailing indicia</td>
</tr>
<tr>
<td>229/922</td>
<td>with decorative feature</td>
</tr>
<tr>
<td>229/923</td>
<td>Gift wrapped</td>
</tr>
<tr>
<td>229/924</td>
<td>Means to facilitate gripping a tear strip</td>
</tr>
<tr>
<td>229/925</td>
<td>Finger opening, e.g. slit, aperture</td>
</tr>
<tr>
<td>229/926</td>
<td>Pull tab located in a seam</td>
</tr>
<tr>
<td>229/927</td>
<td>Means for tearing or breaking rigid or semirigid thermoplastic container</td>
</tr>
<tr>
<td>229/928</td>
<td>Expandable envelope</td>
</tr>
<tr>
<td>229/929</td>
<td>Vented envelope</td>
</tr>
<tr>
<td>229/93</td>
<td>Fold detail</td>
</tr>
<tr>
<td>229/931</td>
<td>Fold includes slit or aperture</td>
</tr>
<tr>
<td>229/932</td>
<td>Ice cream cone carrier</td>
</tr>
<tr>
<td>229/933</td>
<td>Mating container blanks</td>
</tr>
<tr>
<td>229/934</td>
<td>Compartmented bottle carrier</td>
</tr>
<tr>
<td>229/935</td>
<td>No waste, i.e. edge-to-edge blanks</td>
</tr>
<tr>
<td>229/936</td>
<td>Three or more blanks with alternating orientations</td>
</tr>
<tr>
<td>229/937</td>
<td>Plural blanks for making a single container</td>
</tr>
<tr>
<td>229/938</td>
<td>Sandwich holder</td>
</tr>
<tr>
<td>229/939</td>
<td>Container made of corrugated paper or corrugated paperboard</td>
</tr>
<tr>
<td>229/94</td>
<td>Container material with specified grain direction</td>
</tr>
</tbody>
</table>
239/941 Fluid sprinkling, spraying, and diffusing
  Box having joint structure for preventing leakage
239/942 Nonreusable box having means to facilitate
collapsing or disassembling for disposal or for
recycling of the box material, e.g. "knockdown" type

Selective cutting, e.g. punching
238/00 Selective cutting, e.g. punching
238/00 Fluid and photoelectric control

Registers
235/00 Registers
235/00 Means to affix bar code, e.g. attaching, etching,
coating, printing
235/00 Bar code reader specialized to read code on a highly
reflective surface

Automatic temperature and humidity regulation
236/00 Automatic temperature and humidity regulation
236/00 Adjustable lever
236/02 Fail safe
236/03 Safety electric
236/04 Safety vacuum
236/05 Fusible
236/06 Clamp on
236/07 Coil bulb
236/08 Computer
236/09 Fan control
236/10 Filling
236/11 Expandable fluid
236/12 Heat conductor
236/13 Humidithermostat
236/14 Intermittent control
236/15 photocell
236/16 Relief spring
236/17 Spring rate compensator
236/18 Rubber
236/19 Ventilated thermostat

Heating systems
237/00 Heating systems
237/01 Inert gas

Railways: surface track
238/00 Railways: surface track
238/00 Track structure assembled by gluing

Fluid sprinkling, spraying, and diffusing
239/00 Fluid sprinkling, spraying, and diffusing
239/01 Pattern sprinkler
239/02 Scarfing torches
239/03 Fluid amplifier
239/04 O-ring
239/05 Ball agitators
239/06 Lawn mower
239/07 Coanda
239/08 Cutter sprayer
239/09 Slide fastener
239/10 Carbon dioxide bulb
239/11 Magnets
239/12 Flexible outlets
239/13 Soot blowers and tube cleaners
239/14 Paint sprayers
239/15 Sprinkler systems with controls
239/17 Low volume
239/19 Nozzle materials
239/21 Air blast
239/22 Safety air nozzles
239/23 Screens
239/90 Electromagnetically actuated fuel injector having
ball and seat type valve

Solid material comminution or disintegration
241/00 Solid material comminution or disintegration
241/10 Foundry sand treatment
241/14 Grinding in inert, controlled atmosphere
241/17 Ice crushers
241/27 Pill or tablet crushers
241/30 Rubber elements in mills
241/31 Rubber preparation
241/37 Cryogenic cooling
241/38 Solid waste disposal
241/60 Furnace stokers
241/601 Sand mullers
241/602 Soap dispensers
241/603 Animal powered mill
241/604 Plural inlets for diverse solid materials
241/605 Hay unbaler
241/606 Medical/surgical waste comminution

Winding, tensioning, or guiding
242/00 Winding, tensioning, or guiding
242/01 Tape program control means
242/02 Narrow fabric winding apparatus
242/03 Coreless coilers
242/09 Particular apparatus material
242/901 Figure eight winding
242/902 Line loader for fishing reel
242/903 Drum for a winch or hoist
242/904 Water ski reel
242/905 Winder with storage chamber, e.g. for deodorant,
paper
242/906 Static charger or discharger
242/907 Vibration creation or dampening
242/908 Fluid treatment or handling
242/909 Heating or cooling
242/91 Convolution tightenor or loosener
242/911 Cutter
242/912 Indicator or alarm
242/913 Safety device
242/914 Special bearing or lubrication
242/915 Coil gripper
242/916 Hand tool
242/917 Accommodating special material or article, e.g.
antenna
242/918 . . Web material, e.g. thermal insulation
242/919 . . . Ground cover, e.g. tarp
242/92 Glass strand winding

Aeronautics and astronautics
244/00 Aeronautics and astronautics
244/90 . . . Lightweight, winged, air vehicle, e.g. ultralight or hang glider
244/901 . . . having delta shaped wing
244/902 . . . having parachute type wing
244/903 . . . Powered
244/904 . . . Miscellaneous hardware or control
244/905 . . . Inflatable evacuation slide

Radiant energy

250/00 Radiant energy
250/01 . . . Passive intrusion detectors
250/02 . . . Radon detection
250/90 . . . Optical liquid level sensors
250/901 . . . with gap between light guide elements, includes open light path preset
250/902 . . . with closed light path preset
250/903 . . . with prism contacting liquid
250/904 . . . with single light guide element to guide light in a continuous path
250/905 . . . with longitudinal irregularity
250/906 . . . . . . with large scale longitudinal bend
250/907 . . . . . . with portions of light guide coating or cladding removed
250/908 . . . . . . with waveguide twisted about its longitudinal axis
250/909 . . . Methods and apparatus ancillary to stimulable phosphor systems
250/91 . . . Food sample analysis using invisible radiant energy source

Railway switches and signals

246/00 Railway switches and signals
246/01 . . . Radiant energy devices
246/02 . . . Thermal sensing devices

Supports

248/00 Supports
248/90 . . . Movable or disengageable on impact or overload
248/901 . . . Support having temperature or pressure responsive feature
248/902 . . . Eyeglasses holder
248/903 . . . Support reinforcement
248/904 . . . Indicator mount
248/905 . . . Tissue dispenser mount
248/906 . . . Electrical outlet box support
248/907 . . . Trash container support
248/908 . . . Simulation of diverse device
248/909 . . . Frangible component, e.g. having a score line or groove
248/91 . . . Weighted base
248/911 . . . Plural, selectively usable, support engaging means
248/912 . . . Plural, selectively usable, article engaging means
248/913 . . . Two axis article engaging means, e.g. x - y device
248/914 . . . Handbag holder
248/915 . . . with ornamentation
248/916 . . . Mechanical expedients, e.g. in supports
248/917 . . . Video display screen support
248/918 . . . Ancillary device support associated with a video display screen
248/919 . . . Adjustably orientable video screen support
248/92 . . . . . . Angular and linear video display screen support adjustment
248/921 . . . . . . Plural angular
248/922 . . . . . . Angular
248/923 . . . . . . Tilting
248/924 . . . . . . . Adjustable size
248/925 . . . . . . Mountain climbing aids, e.g. pitons etc.

Static molds

249/00 Static molds
249/01 . . . Cake pan
249/02 . . . Paper core
249/03 . . . Swimming pool
249/04 . . . Test mold
249/05 . . . Hot top

Compositions

251/00 Compositions
251/18 . . . Activation-platinum
251/95 . . . Doping agent source material
251/951 . . . for vapor transport
251/96 . . . Surface flaw detecting compositions
251/961 . . . Stress or contact indicators
251/962 . . . Temperature or thermal history
251/963 . . . Humidity or moisture indicators
251/964 . . . Leak detection
251/965 . . . Retrospective product identification, e.g. tags and tracers

Implement or apparatus for applying pushing or pulling force

252/00 Implements or apparatus for applying pushing or pulling force
252/01 . . . Jack bases
252/02 . . . Electric screw jacks
252/03 . . . Jack handles
252/04 . . . Object engaging heads for jacks
252/05 . . . Means for depressing foot brake when adjusting same
252/06 . . . Flexible rack and pinion
252/07 . . . Printers form trucks
252/08 . . . Screw jacks, plural section nut
252/09 . . . Vehicle-operated lift platform
252/10 . . . Tire or rim expanding or contracting devices
252/11 . . . Cable drum feed for presser
252/12 . . . Pawls
252/13 . . . Vehicle retarding drums
252/14 . . . Rope attachment
252/15 . . . Motor clamps
252/16 . . . Automobile transmission jack
252/90 . . . Cable pulling drum having wave motion responsive actuator for operating drive or rotation retarding means
252/901 . . . Antifriction means for cable pulling drum
Fences

257/00 Fences
257/01 . Compensator, spring
257/02 . Adjustable or falling fence
257/03 . Wire clamp
257/04 . Board fastener
257/05 . Metal post
257/06 . Building construction guard rail

Active solid-state devices, e.g. transistors, solid-state diodes

257/00 Active solid-state devices, e.g. transistors, solid-state diodes
257/02 . MOSFET type gate sidewall insulating spacer
257/02 . MOSFET substrate bias
257/02 . FET with metal source region
257/03 . FET configuration adapted for use as static memory cell
257/04 . . with passive components, e.g. polysilicon resistors
257/05 . Plural dram cells share common contact or common trench
257/06 . Dram with capacitor electrodes used for accessing, e.g. bit line is capacitor plate
257/07 . Folded bit line dram configuration
257/08 . Dram configuration with transistors and capacitors of pairs of cells along a straight line between adjacent bit lines
257/09 . Macrocell arrays, e.g. gate arrays with variable size or configuration of cells
257/11 . Light sensitive array adapted to be scanned by electron beam, e.g. vidicon device
257/12 . Charge transfer device using both electron and hole signal carriers
257/13 . with means to absorb or localize unwanted impurities or defects from semiconductors, e.g. heavy metal gettering
257/14 . Polysilicon containing oxygen, nitrogen, or carbon, e.g. sipsos
257/15 . with titanium nitride portion or region
257/16 . Narrow band gap semiconductor material, <<1ev
257/17 . Plural dopants of same conductivity type in same region
257/18 . Light emitting regenerative switching device, e.g. light emitting scr arrays, circuitry
257/19 . Elements of similar construction connected in series or parallel to average out manufacturing variations in characteristics
257/20 . Conductor layers on different levels connected in parallel, e.g. to reduce resistance
257/21 . Radiation hardened semiconductor device
257/22 . with means to prevent inspection of or tampering with an integrated circuit, e.g. "smart card", anti-tamper
257/23 . with means to optimize electrical conductor current carrying capacity, e.g. particular conductor aspect ratio

Chemistry of carbon compounds

260/00 Chemistry of carbon compounds
260/02 . Soil treatment digest, polyelectrolytes
260/03 . Antistatic agents not otherwise provided for
260/04 . Antistatic agents containing a metal, silicon, boron or phosphorus
260/05 . High polymeric, resinous, antistatic agents
260/06 . High polymeric, resinous, antistatic agents containing pentavalent nitrogen
260/07 . Non-high polymeric antistatic agents/n
260/08 . Antistatic agent contains pentavalent nitrogen
260/09 . Polymer chemically or physically modified to impart antistatic properties and methods of antistatic agent addition
260/10 . Concentration
260/11 . Fiber
260/12 . Flameproof
260/13 . Metal catalyst
260/14 . Multicolor
260/15 . Nomenclature
260/16 . Peroxide
260/17 . Properties
260/18 . Ionic cross-link
260/19 . Incompatible blend
260/20 . Molecular sieve
260/21 . Hydantoin
260/22 . Crystallization
260/23 . Closure
260/24 . Ink
260/25 . Glass flake
260/27 . Promoting degradability of polymers
260/28 . Beta branched fatty acid
260/29 . Polymer dispersions
260/30 . Vibration dampening composition
260/31 . Poison, foods, or pharmaceuticals
260/32 . Oral cavity
260/33 . Dental
260/34 . Ablative
260/35 . Brake, friction or anti-skid
260/36 . Ball, bush, pin or billy
260/37 . Floor covering
260/38 . Sound record
260/39 . Pearlescent
260/40 . Mold or mold coating
260/41 . Road marking or pavement compositions, non-cementitious, non-bituminous
Gas and liquid contact apparatus

261/00  Gas and liquid contact apparatus
261/01  . Auxiliary air inlet carburetors
261/02  . Airplane
261/03  . Air cooling
261/04  . Auto humidifiers
261/06  . Backfire
261/07  . Carburetors
261/08  . Carburetor primers
261/09  . Furnace gas scrubbers
261/10  . Steam heaters and condensers
261/11  . Cooling towers
261/12  . Carburetor venturi
261/13  . Desuperheaters
261/14  . Display stands
261/15  . Duct humidifiers
261/16  . Cream whipping
261/17  . Odorizers
261/18  . Dashpots
261/19  . Degassers
261/20  . Deicers for carburetors
261/21  . Drawing excess fuel from carbureting passage
261/22  . Faucet aerators
261/23  . Fuel feeding valves
261/24  . Fuel feeding valve retaining
261/25  . Fuel spread out into a film
261/26  . Foam
261/27  . Gas circulated in circuit
261/28  . Blood oxygenators
261/29  . Heaters submerged in liquid
261/30  . Tray heaters
261/31  . Heaters
261/32  . Heaters and condensers
261/33  . Heaters, spray
261/34  . Automatic humidity regulation
261/35  . Air line lubricators
261/36  . Carburetor manifolds
261/37  . Modern pumps diaphragm
261/38  . Needle valves
261/39  . Liquid feeding nozzles
261/40  . Oil filter for fuel entering nozzles or float chamber
261/41  . Pad retaining means in humidifiers and air conditioners
261/42  . Ozonizers
261/43  . Air coolers
261/44  . Overflow trough
261/45  . Processes carburetors
261/46  . Residue prevention in humidifiers and air conditioners
261/47  . Swing diffusers
261/48  . Sonic vibrators
261/49  . Suction operated feed valve
261/50  . Surge prevention in carburetors
261/51  . Carburetors with supercharging blowers
261/52  . Carburetor with valves
261/53  . Valve actuation

Plastic and nonmetallic article shaping or treating: processes

264/00  Plastic and nonmetallic article shaping or treating: processes
264/01  . Methods of blow-molding cellular containers
264/02  . Molding cellular aldehyde resins
264/03  . Molding cellular pvc-isocyanate resins
264/04  . Molding and forming bendable and flexible product from rigid preform
264/05  . Use of one or more blowing agents together
264/06  . Molding microballoons and binder
264/07  . Binding and molding cellular particles
264/08  . Fibrillating cellular materials
264/09  . Pre-expansion of foamed polystyrene
264/10  . Foamed polystyrene mold filling
264/11  . Molding styropor using steam probes-batch
264/12  . Molding styropor using steam probes continuous
264/13  . Cell size and distribution control while molding a foam
264/14  . forming integral skin on a foamed product
264/15  . Aging of foamed resin products
264/16  . Molding foamed polypropylene articles
Plastic and nonmetallic article shaping or treating: processes

264/17 . Molding a foam containing a filler
264/18 . Cross-linking a thermoplastic linear foam during molding
264/19 . Inorganic fiber
264/20 . Tar bonded
264/25 . Metallic oxide
264/26 . Composite fibers made of two or more materials
264/27 . Process of spinning viscose where viscose has high degree of polymerization
264/28 . Stretching filaments in gas or steam
264/29 . Mixed resin filaments
264/30 . Use of anatomy in making a mold or using said mold
264/31 . Processes of making tile and tile-like surfaces
264/32 . Processes in molding using asbestos or asphalt
264/33 . Blow-molding articles of nonuniform thickness
264/34 . Processes and molds for making buttons
264/35 . Use of CaO with refractories
264/36 . Processes of making metal-ceramics
264/37 . Processes and molds for making capsules
264/38 . Making film or tubes from casein
264/39 . Treatment of clay before and after molding
264/40 . Processes of coiling plastics
264/41 . Processes of molding collapsible tubes
264/42 . Processes of molding involving cross linking
264/43 . Processes of curing clay and concrete materials
264/44 . using destructible molds or cores in molding processes
264/45 . Molding using an electrical force
264/46 . Molding using an electrical heat
264/47 . Processes of splitting film, webs or sheets
264/48 . Processes of making filters
264/49 . Processes of using fly ash
264/50 . Use of fluid pressure in molding
264/51 . Use of fluidized bed in molding
264/52 . Processes of making corrugated tubes for gas mask
264/53 . Processes of using glass filter in molding process
264/54 . Processes in making insulators
264/55 . Processes for making jewelry
264/56 . Processes of molding lactams
264/57 . Processes of forming layered products
264/58 . Processes of forming magnets
264/59 . Processes in which a partial cure is involved
264/60 . Processes of molding plastisols
264/61 . Processes of molding polyamide
264/62 . Processes of molding porous films
264/63 . Processes of molding porous blocks
264/64 . Processes of using preform in molding
264/65 . Processes of preheating prior to molding
264/66 . Processes of reshaping and reforming
264/67 . forming ring-like structure
264/68 . Roll
264/70 . Processes for forming screens or perforating articles
264/71 . Processes of shaping by shrinking
264/72 . Processes of molding by spraying
264/73 . Processes of stretching
264/74 . Processes of repairing tires
264/75 . Processes of uniting two or more fibers
264/76 . Processes of uniting two or more parts
264/77 . Processes of molding urethanes
264/78 . Processes of molding using vacuum
264/79 . Processes of molding articles of vinylidene chloride
264/80 . Processes of waterproofing
264/81 . Plastic net
264/82 . Embossing by foaming
264/83 . Injection molding of polyolefin-type foam
264/84 . Conversion of foamed resinous buns into foamed billets having geo metrical crosssections
264/85 . Direct application of fluid pressure differential to shape, reshape, i.e. distort, or sustain an article or preform and heat-setting, i.e. crystallizing of stretched or molecularly oriented portion thereof
264/86 . Heat-setting of stretched or molecularly oriented article formed from planar preform, e.g. sheet, film
264/87 . Production of continuous length
264/88 . Heat-setting and simultaneous differential heating of stretched or molecularly oriented section of article or preform
264/89 . Maintaining article in fixed shape during heat-setting
264/90 . having plural, distinct differential fluid pressure shaping steps
264/91 . And heat-shrinking outside of mold including subsequent re-expanding of shrunken article using differential fluid pressure
264/92 . Direct application of fluid pressure differential to shape, reshape, i.e. distort, or sustain an article or preform and crystalizing of nonstretched or molecularly unoriented portion thereof
264/93 . Crystallizing of neck portion of hollow article or hollow preform
264/94 . Direct application of fluid pressure differential to stretch an article or preform and heat shrinking of stretched article or preform
264/95 . Sintering to produce translucent inorganic article
264/96 . Recycling consumer used articles or products
264/97 . From toroidal shapes, e.g. resilient tires
264/98 . From fiber or filament, or fiber or filament containing article or product, e.g. textile, cloth fabric, carpet, fiberboard
264/99 . From cellulose containing articles, e.g. paper
264/100 . From inorganic material containing articles or products, e.g. hydro-set, cement, plaster, wire, cable
264/101 . From porous material containing articles, e.g. sponge, foam
264/102 . by blow molding material recycled from consumer used article or product
264/103 . From hollow- or container-type articles, e.g. tubes, bottles, cups
264/104 . From pipe or tube, e.g. hose
264/105 . by extruding material recycled from consumer used article or product
264/106 . by injection molding material recycled from consumer used article or product

Metallurgical apparatus

266/00 Metallurgical apparatus
266/01 . Repair or restoration of apparatus
266/02 . Metal melting furnaces, e.g. cupola type
266/03 . Scrap metal preheating or melting
266/04 . Blowpipes specialized to transversely cut or notch blooms, billets or bars
266/05 . Safety shields
Spring devices

Spring devices

267/00

267/01 . Constant height
267/02 . Constant height, self-pumping
267/03 . Spring buckle

Work holders

Work holders

269/00

269/90 . Supporting structure having work holder receiving apertures or projections
269/901 . Collapsible or foldable work holder supporting structure
269/902 . Work holder member with V-shaped notch or groove
269/903 . Work holder for electrical circuit assemblages or wiring systems
269/904 . Work holder for positioning elements of building in installed location
269/905 . Work holder for doors and door frames
269/906 . Work holder for skis
269/907 . Work holder for fishing flies
269/908 . Work holder for cathode-ray tubes
269/909 . Work holder for specific work
269/91 . Work holder for prefabricated roof truss or wall frame

Sheet feeding or delivering

Sheet feeding or delivering

271/00

271/90 . Stripper
271/901 . Magnetic operation
271/902 . Reverse direction of sheet movement
271/903 . Traveling wicket for stack on edge

Amusement devices: games

Amusement devices: games

273/00

273/01 . Carbonate
273/02 . Styrene
273/03 . Epoxy
273/04 . Ethylene
273/05 . Vinyl
273/06 . Nylon
273/07 . Glass fiber
273/08 . Urethane
273/09 . Ester
273/10 . Butadiene
273/11 . Acetal
273/12 . Propylene
273/13 . Artificial grass
273/14 . Transparent
273/15 . Cork
273/16 . Acrylic
273/17 . Head mounted
273/18 . Shoe mounted
273/19 . Waist mounted
273/20 . Weighted balls
273/21 . Reel
273/22 . Ionomer
273/23 . High modulus filaments
273/24 . Luminescent, phosphorescent
273/25 . Suction cups involved
273/26 . Point counters and score indicators
273/27 . Blind and color blind
273/29 . Silicone
273/30 . Hooked pile fabric fastener
273/31 . Undulated surface

Seal for a joint or juncture

Seal for a joint or juncture

277/00

277/902 . Seal for sterling engine
277/903 . Seal for rotating kiln or drum
277/904 . Viscous seal
277/905 . T-shaped or I-shaped ring member including seal on a side
277/906 . Seal for article of indefinite length, e.g. strip, sheet
277/907 . Passageway in rod or shaft
277/908 . Seal for use in rotating and reciprocating arrangement
277/909 . Similar sealing structures for mounting on piston and about rod
277/91 . O-ring seal
277/911 . Seal combined with nominal motion transmitting device
277/912 . . . Spline connection
277/913 . Seal for fluid pressure below atmospheric, e.g. vacuum
277/914 . Backup seal for failure of primary seal
277/915 . Seal including compression set feature
277/916 . Seal including vibration dampening feature
277/917 . Seal including frangible feature
277/918 . Seal combined with filter or fluid separator
277/919 . Seal including electrical feature
277/92 . Seal including electromagnetic shielding feature
277/921 . Closure or weather strip seal
277/922 . Bonding or joining for manufacture of seal
277/923 . . . Shrink-fitting for the assembly of seal
277/924 . . . Deformation, material removal, or molding for manufacture of seal
277/925 . Snap fit feature for mounting or assembly of seal
277/926 . Seal including fluid pressure equalizing or balancing feature
277/927 . Seal including fluid pressure differential feature
277/928 . Seal including pressure relief or vent feature
277/929 . Seal feature where change in operation or condition induces additional leakage control
277/93 . Seal including heating or cooling feature
277/931 . Seal including temperature responsive feature
277/932 . . . Bi-metallic
277/933 . . . Chemical reaction or physical change of state
277/934 . Seal swells when wet
277/935 . Seal made of a particular material
277/936 . . . Composite
277/937 . . . Glass particles or filament
277/938 . . . Carbon or graphite particle or filament
277/939 . . . Containing metal
277/94 . . . Alloy
277/941 . . . Aluminum or copper
277/942 . . . Silver or gold
277/943 . . . Ceramic or glass
277/944 . . . Elastomer or plastic
277/945 . . . Containing fluorine
285/901 . . . . PTFE

Chucks or sockets

279/00 Chucks or sockets
279/90 . . . Adapted for automatic tool changer
279/901 . . . Chuck or chuck jaw changing means
279/902 . . . Keyless type socket
279/903 . . . Needle roller type socket
279/904 . . . Quick change socket
279/905 . . . with ball detent
279/906 . . . Self grasping socket
279/907 . . . Washer type jaw or actuator

Land vehicles

280/00 Land vehicles
280/01 . . . Load responsive, leveling of vehicle
280/02 . . . Wheel supports for outboard motors
280/03 . . . Wheeled shopping bag
280/04 . . . Grocery store cart
280/05 . . . Motorized golf carts
280/06 . . . Wheeled golf club carriers
280/07 . . . Air bag rollers
280/08 . . . Separable body or container-type semitrailers
280/09 . . . Occupant-steered trailers
280/10 . . . Stair climbing chairs
280/11 . . . Walking attendant steered trailers
280/12 . . . Clamp-type ski bindings having plural diverse axes or clamps
280/13 . . . Ski binding controlled by skier position or by remote control
280/14 . . . Tractor-trailer backing connections
280/90 . . . Runner vehicle attachments
280/901 . . . Adaptation of nonspecialized vehicles to semitrailer tractors

Books, strips, and leaves

281/00 Books, strips, and leaves
281/01 . . . . Magnet

Printed matter

283/00 Printed matter
283/90 . . . Medical record
283/901 . . . Concealed data
283/902 . . . Anti-photocopy
283/903 . . . Lottery ticket
283/904 . . . Credit card

Pipe joints or couplings

285/00 Pipe joints or couplings
285/90 . . . Balanced pressure
285/901 . . . Cap closures
285/902 . . . Canted ring
285/903 . . . Corrugated
285/904 . . . Cryogenic
285/905 . . . Different coefficients of expansion
285/906 . . . Equivalents
285/907 . . . Electrical fixtures
285/908 . . . Extrusion holes
285/909 . . . Fluorocarbons and memory plastics
285/91 . . . Gaskets
285/911 . . . Glass
285/912 . . . Gear
285/913 . . . Interdigitating
285/914 . . . Irreversible
285/915 . . . Mastic
285/916 . . . Molecular change
285/917 . . . Metallic seals
285/918 . . . O-ring
285/919 . . . Resinous
285/92 . . . Remotely controlled
285/921 . . . Snap-fit
285/922 . . . Safety and quick release for drill pipes
285/923 . . . Specific material
285/924 . . . Vented
285/925 . . . Swells when wet

Closure fasteners

292/00 Closure fasteners
292/01 . . . Automobile fender shield fasteners
292/02 . . . Auxiliary knob slip covers, guards
292/03 . . . Automobile multiple door latches
292/04 . . . Automatic release latches
292/05 . . . Automobile top latches
292/06 . . . Automobile window wing fasteners
292/07 . . . Disc cam; also swinging windows, locking and operating means
292/08 . . . Buffer handles
292/09 . . . Hinge plate fasteners secured to upper sash
292/10 . . . Cupped disc fasteners
292/11 . . . Cover fasteners
292/12 . . . Closure operators
292/13 . . . Cow proof latches
292/14 . . . Hood latches
292/15 . . . Door, checks, floor
292/16 . . . Flexible bolts
292/17 . . . Hinge edge latches
292/18 . . . Gang locks
292/19 . . . Combined door holder and buffer
292/20 . . . Window fasteners
292/21 . . . Individually latched double doors
292/22 . . . Inertia operated
292/23 . . . Vehicle door latches
292/24 . . . Dogging mechanism from inside operating means
292/25 . . . Remote control
292/26 . . . Automatic undogging or reconnecting
292/27 . . . Disconnectable handle
292/28 . . . Suction cup fasteners
292/29 . . . End gate fasteners
292/30 . . . . Latch and handle
292/31 . . . . . Lever operator, flush
292/32 . . . . . Freight car door fasteners
292/33 . . . . . Metallic casement window fasteners
292/34 . . . . . Non-refillable container cover fasteners
292/35 . . . . . Storm sash fasteners
292/36 . . . . . Overhead door latches
292/37 . . . . . Push button operators
292/38 . . . . . Plastic latch parts
292/39 . . . . . Dove tail door aligner
292/40 . . . . . Combined dovetail and keeper
292/41 . . . . . Door latch separation prevention
292/42 . . . . . Trunk latches
Closure fasteners

Vehicle fenders

293/00 Vehicle fenders
293/01 Pusher attachment for tractors
293/06 Magnetic fender securing devices

Handling: hand and hoist-line implements

294/00 Handling: hand and hoist-line implements
294/01 Plate lifting clamp
294/02 Gripping element
294/03 Battery carrier
294/04 Vehicle carrier
294/05 Wireless remote control device
294/06 Atomic fuel handler
294/07 Sensor controlled device

Land vehicles: bodies and tops

296/00 Land vehicles: bodies and tops
296/90 Material
296/9010 Plastic

Chairs and seats

297/00 Chairs and seats
297/01 Foam
297/02 Molded
297/03 Pneumatic
297/04 Wheelchair
297/05 Fireproof
297/06 Hook and loop type fastener

Fluid-pressure and analogous brake systems

303/00 Fluid-pressure and analogous brake systems
303/01 Pressure comparison
303/02 Brake control by pressure comparison
303/03 . Electrical pressure sensor
303/04 . Pressure signal used in electrical speed controlled braking circuit
303/05 . Acceleration peak detection
303/06 . Axle differential control
303/07 . Small tire digest
303/08 . Antichatter
303/09 . Plural processors
303/10 . Valve block integrating pump, valves, solenoid, accumulator
303/11 . Accumulator
303/12 . Air over hydraulic brake system
303/09 . ABS throttle control
303/901 . ABS check valve detail

Wheel substitutes for land vehicles

305/00 Wheel substitutes for land vehicles
305/90 Master link

Electrical transmission or interconnection systems

307/00 Electrical transmission or interconnection systems
307/01 . Data transmitted over power lines

Electrical generator or motor structure

310/00 Electrical generator or motor structure
310/02 . Hysteresis rotors and motors
310/03 . Hall effect generators and converters
310/06 . Printed-circuit motors and components
310/80 . Piezoelectric polymers, e.g. PVDF

Supports: cabinet structure

312/00 Supports: cabinet structure
312/901 . Fan-out holders for recording media
312/902 . Carrying case

Electric lamp and discharge devices

313/00 Electric lamp and discharge devices
313/07 . Bombardment induced conductivity

Electric lamp and discharge devices: systems

315/00 Electric lamp and discharge devices: systems
315/01 . Fluorescent lamp circuits with more than two principle electrodes
315/02 . High frequency starting operation for fluorescent lamp
315/03 . Circuit for ion gauges and pressure gauges
315/04 . Dimming circuit for fluorescent lamps
315/05 . Starting and operating circuit for fluorescent lamp
Electric lamp and discharge devices: systems

315/07 . Starting and control circuits for gas discharge lamp using transistors

Electricity: motive power systems

318/00 Electricity: motive power systems
318/02 . Windshield wiper controls

Electricity: battery or capacitor charging or discharging

320/00 Electricity: battery or capacitor charging or discharging
320/10 . Nonbattery load controls charging
320/11 . Prioritized supply of power or power supply compensation
320/12 . Precharging analysis, e.g. determining presence of battery
320/13 . Fault detection
320/14 . Battery acts as buffer
320/15 . Polarity control
320/16 . Removal of memory effect in batteries
320/17 . Sensing of "gassing" voltage
320/18 . Indicator or display
320/19 . . Charger status, e.g. voltmeter
320/20 . . Polarity
320/21 . . State of charge of battery
320/22 . . Line impedance, e.g. resistor
320/23 . . Capacitor
320/24 . . Inductor
320/25 . Optical coupler
320/26 . Button or hearing aid type
320/27 . Transformerless
320/28 . Regulating transformer, e.g. high leakage, ferro-resonant
320/29 . Transformer having plural secondaries
320/30 . Plural transformers
320/31 . Plural rectifier systems
320/32 . Voltage divider having diverse elements other than merely plural resistors
320/33 . Aircraft or spacecraft application
320/34 . Robot, hybrid, recreational or emergency vehicle
320/35 . Home power station
320/36 . Distribution system, e.g. railroad lighting

Electricity: single generator systems

322/00 Electricity: single generator systems
322/02 . Generator field current-responsive systems
322/05 . Hall effects elements
322/06 . Ripple sensitive

Electricity: power supply or regulation systems

323/00 Electricity: power supply or regulation systems
323/01 . Starting circuits
323/02 . Optical coupling to semiconductor
323/03 . Precipitators
323/04 . Touch systems
323/05 . Lamp dimmer structure
323/06 . Solar cell systems
323/07 . Temperature compensation of semiconductor
323/08 . Inrush current limiters
323/09 . Remote sensing
323/11 . Two of three phases regulated

323/11 . Medical electronics

Electricity: measuring and testing

324/00 Electricity: measuring and testing
324/80 . Divining rods

Oscillators

331/00 Oscillators
331/02 . Phase locked loop having lock indicating or detecting means
331/03 . Logic gate active element oscillator

Inductor devices

336/00 Inductor devices
336/01 . Superconductive
336/02 . Separable

Electrical resistors

338/00 Electrical resistors
338/01 . Worm gear drive

Communications: radio wave antennas

343/00 Communications: radio wave antennas
343/01 . with vibration damper or wind catcher
343/02 . Satellite-mounted antenna

Computer graphics processing and selective visual display systems

345/00 Computer graphics processing and selective visual display systems
345/01 . Electronic book with display
345/02 . Menu display
345/03 . Modular display
345/04 . Display with fail/safe testing feature
345/05 . Display device with housing structure
345/07 . Font character edge processing
345/08 . Alteration of stored fonts to maintain feature consistency throughout scaled font
345/09 . Animation processing method
345/10 . . Sprite processing
345/11 . . . Key frame processing
345/12 . . . Simulation
345/13 . . . Geometric processing
345/14 . . . Quaternions
345/15 . . . Morphing
345/16 . . . Language driven animation
345/17 . . . Actor
345/18 . . . Collision avoidance
345/19 . . . Object path adherence
345/20 . . . Iterative display of preconfigured images

Incremental printing of symbolic information

347/00 Incremental printing of symbolic information
347/01 . Data processing for electrostatic recording

Television

348/00 Television
348/01 . High speed television system
348/02 . Photochromic
Illumination

362/00 Illumination
362/80 . Light emitting diode
362/801 . Bedroom lighting, e.g. modular combinations
362/802 . Position or condition responsive switch
362/803 . Photo safe lamp
362/804 . Surgical or dental spotlight
362/805 . Horticultural
362/806 . Ornamental or decorative
362/807 . . Star
362/808 . . Figure
362/809 . . Terrestrial globe

362/81 . . Imitation candle
362/811 . . Psychedelic lighting
362/812 . . Signs

Agitating

366/00 Agitating
366/01 . Micromixers: continuous laminar flow with laminar boundary mixing in the linear direction parallel to the fluid propagation with or without conduit geometry influences from the pathway
366/02 . Micromixers: segmented laminar flow with boundary mixing orthogonal to the direction of fluid propagation with or without geometry influences from the pathway
366/03 . Micromixers: variable geometry from the pathway influences mixing/agitation of non-laminar fluid flow
366/04 . Micromixers: with application of energy to influence mixing/agitation, e.g. magnetic, electrical, e-m radiation, particulate radiation, or ultrasound
366/60 . Bodine vibrator
366/601 . Motor control
366/602 . Amalgam mixer, e.g. dental filling
366/603 . Animal food mixer
366/604 . Lather maker
366/605 . Paint mixer
366/606 . Tractor-mounted mortar mixing chamber
366/607 . Chain-type stirrer
366/608 . Stirrer in mixing chamber side wall

Communications, electrical: acoustic wave systems and devices

367/00 Communications, electrical: acoustic wave systems and devices
367/90 . Sonar time varied gain control systems
367/901 . Noise or unwanted signal reduction in nonseismic receiving system
367/902 . Speed of sound compensation
367/903 . Transmit-receive circuitry
367/904 . Doppler compensation systems
367/905 . Side lobe reduction or shading
367/906 . Airborne shock-wave detection
367/907 . Coordinate determination
367/908 . Material level detection, e.g. liquid level
367/909 . Collision avoidance
367/91 . Portable sonar devices
367/911 . Particular well-logging apparatus
367/912 . . Particular transducer

Multiplex communications

370/00 Multiplex communications
370/901 . Wide area network
370/902 . . Packet switching
370/903 . . . Osi compliant network
370/904 . . . . Integrated Services Digital Network, ISDN
370/905 . . . . . Asynchronous transfer mode, ASN
370/906 . . . . . . Fiber data distribution interface, FDDI
370/907 . . . . . . . Synchronous optical network, SONET
370/908 . . Local area network
370/909 . . . Token ring
370/91 . . Carrier sense multiple access, e.g. ethernet, 10base-t
370/911 . . . Bridge, e.g. brouter, bus extender
X-ray or gamma ray systems or devices

X-ray or gamma ray systems or devices

379/00 X-ray or gamma ray systems or devices
379/901 Computer tomography program or processor

Telephonic communications

379/00 Telephonic communications
379/90 Internet, e.g. Internet phone, webphone, internet-based telephony
379/901 Virtual networks or virtual private networks
379/902 Auto-switch for an incoming voice data, or fax telephone call, e.g. comp/fax/el
379/903 Password
379/904 Auto-calling
379/905 Fax mail
379/906 Touchtone message transmission
379/907 Speech recognition via telephone system or component
379/908 Multimedia
379/909 Alternatives

Coherent light generators

372/00 Coherent light generators
372/70 Optical delay
372/701 Nozzle
372/702 Isotope
372/703 Optical isolater
372/704 Summary reference
372/705 Neat thing

Induced nuclear reactions: processes, systems, and elements

376/00 Induced nuclear reactions: processes, systems, and elements
376/90 Particular material or material shapes for fission reactors
376/901 Fuel
376/902 . . . with external lubricating or absorbing material
376/903 . . . Shapes
376/904 . . . Moderator, reflector, or coolant materials
376/905 . . . Organic
376/906 . . . Metal
376/907 . . . Dissociative coolants
376/908 . Reactor geometry, or part thereof, defined in terms of numerical values
376/909 Mobile reactors
376/91 Rotating reactors
376/911 Plural reactor systems
376/912 Nuclear reactor systems situated in the ocean
376/913 Antimatter devices and methods
376/914 Nuclear explosives
376/915 Fusion reactor fuels
376/916 Methods of making fusion fuel targets
376/917 Utilizing different fuels or fuels in different forms, in different reactor regions in relation to amounts of heat produced in said regions
376/918 Entire reactor core of single integral structure

Flexible bags

383/00 Flexible bags
383/901 Hot water or ice bag
383/902 . having nonbag use
383/903 Stress relief
383/904 Filling tube
383/905 Dead fold, ductile, closure element
383/906 Dispensing feature
383/907 Peculiar, particular shape
383/908 Material having specified grain direction or molecular orientation

Bearings

384/00 Bearings
384/90 Cooling or heating
384/901 . Floating bushing
384/902 . Porous member
384/903 Retaining ring
384/904 Propeller shaft outer bearing
384/905 Temperature compensation
384/9051 Cup-shaped bearing
384/906 Antitrotation key
384/907 Bearing material or solid lubricant
384/9071 Jewel, glass, ceramic or carbon
384/908 Nylon or polytetrafluorethylene
384/909 Plastic
384/91 Powders
384/911 including fiber
384/912 Metallic
384/913 Metallic compounds

Optical waveguides

385/00 Optical waveguides
385/90 Solar collector or transmitter
385/901 Illuminating or display apparatus
385/902 Nonbundle fiberscope devices

Electricity: motor control systems

388/00 Electricity: motor control systems
388/90 Specific system operational feature
388/901 Sample and hold
388/902 Compensation
388/903 Protective, e.g. voltage or current limit
388/904 Stored velocity profile
388/905 Armature and field windings connected in series, i.e. series motor
388/906 Proportional-integral system
388/907 Specific control circuit element or device
388/9072 Bridge circuit
388/9075 Computer or microprocessor
388/908 Frequency to voltage converter
**Joints and connections**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>403/00</td>
<td>Joints and connections</td>
</tr>
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</table>

**Binder device releasably engaging aperture or notch of sheet**

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<tr>
<td>402/00</td>
<td>Binder device releasably engaging aperture or notch of sheet</td>
</tr>
<tr>
<td>402/01</td>
<td>. Binder with tab or fastener for securing sheet</td>
</tr>
<tr>
<td>402/02</td>
<td>. Sheet retainer continuous with periphery of sheet notch</td>
</tr>
<tr>
<td>402/03</td>
<td>. Container with sheet retainer</td>
</tr>
<tr>
<td>402/04</td>
<td>. Binder device, sheet or depository including magnetic material</td>
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</table>

**Coating implements with material supply**

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</tr>
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<tbody>
<tr>
<td>401/00</td>
<td>Coating implements with material supply</td>
</tr>
<tr>
<td>401/01</td>
<td>. Readily detachable lipstick cartridges</td>
</tr>
<tr>
<td>401/02</td>
<td>. Remote recording of writing</td>
</tr>
<tr>
<td>401/03</td>
<td>. Point shape</td>
</tr>
</tbody>
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<td>Binder device releasably engaging aperture or notch of sheet</td>
</tr>
<tr>
<td>402/05</td>
<td>. Binder with tab or fastener for securing sheet</td>
</tr>
<tr>
<td>402/06</td>
<td>. Sheet retainer continuous with periphery of sheet notch</td>
</tr>
<tr>
<td>402/07</td>
<td>. Container with sheet retainer</td>
</tr>
<tr>
<td>402/08</td>
<td>. Binder device, sheet or depository including magnetic material</td>
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**Cutting by use of rotating axially moving tool**

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<tr>
<td>408/00</td>
<td>Cutting by use of rotating axially moving tool</td>
</tr>
<tr>
<td>408/01</td>
<td>. Bowling ball drill</td>
</tr>
<tr>
<td>408/02</td>
<td>. Cutting by use of ultrasonic energy</td>
</tr>
<tr>
<td>408/03</td>
<td>. Cutting by use of radiant energy, e.g. laser, maser</td>
</tr>
<tr>
<td>408/04</td>
<td>. Cutting by use of pneumatic drive means</td>
</tr>
<tr>
<td>408/05</td>
<td>. Trepanning</td>
</tr>
<tr>
<td>408/06</td>
<td>. Drilling small holes</td>
</tr>
<tr>
<td>408/07</td>
<td>. Drilling deep holes</td>
</tr>
<tr>
<td>408/08</td>
<td>. Drilling brake lining</td>
</tr>
<tr>
<td>408/09</td>
<td>. Drilling opening for bearing in connecting rod or piston</td>
</tr>
<tr>
<td>408/10</td>
<td>. Drilling opening for bearing in engine block</td>
</tr>
<tr>
<td>408/11</td>
<td>. Reborung piston receiving cylinder</td>
</tr>
<tr>
<td>408/12</td>
<td>. Safety device</td>
</tr>
<tr>
<td>408/13</td>
<td>. Adapter for broken tool</td>
</tr>
<tr>
<td>408/14</td>
<td>. Drill press adapted to use portable hand drill</td>
</tr>
<tr>
<td>408/15</td>
<td>. Tool having detachable cutting edge</td>
</tr>
<tr>
<td>408/16</td>
<td>. Resilient tool or tool-support</td>
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**Coating implements with material supply**

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</tr>
<tr>
<td>401/01</td>
<td>. Chemical-symbol character</td>
</tr>
<tr>
<td>401/02</td>
<td>. Continuously rotating type-head</td>
</tr>
<tr>
<td>401/03</td>
<td>. Stepping-motor drive for web feed</td>
</tr>
<tr>
<td>401/04</td>
<td>. Stepping-motor drive for carriage feed</td>
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**Expanded, threaded, driven, headed, tool-deformed, or locked-threaded fastener**

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<tr>
<td>411/00</td>
<td>Expanded, threaded, driven, headed, tool-deformed, or locked-threaded fastener</td>
</tr>
<tr>
<td>411/01</td>
<td>. Thread forming, reforming, or cleaning</td>
</tr>
<tr>
<td>411/02</td>
<td>. Temperature modification</td>
</tr>
<tr>
<td>411/03</td>
<td>. Utilizing fluid pressure</td>
</tr>
<tr>
<td>411/04</td>
<td>. Fastener or fastener element composed of plural different materials</td>
</tr>
<tr>
<td>411/05</td>
<td>. Core and exterior of different materials</td>
</tr>
<tr>
<td>411/06</td>
<td>. Metal core</td>
</tr>
<tr>
<td>411/07</td>
<td>. Resinous exterior</td>
</tr>
<tr>
<td>411/08</td>
<td>. Fastener or fastener element composed of nonmetallic material</td>
</tr>
<tr>
<td>411/09</td>
<td>. Paper or wood</td>
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**Gear cutting, milling, or planing**

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<td>409/00</td>
<td>Gear cutting, milling, or planing</td>
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<tr>
<td>409/01</td>
<td>. Machine button or locator</td>
</tr>
<tr>
<td>409/02</td>
<td>. Machine tool carriage clamp</td>
</tr>
<tr>
<td>409/03</td>
<td>. Stereotype printing plate</td>
</tr>
<tr>
<td>409/04</td>
<td>. Tire mold</td>
</tr>
<tr>
<td>409/05</td>
<td>. Work holder</td>
</tr>
<tr>
<td>409/06</td>
<td>. with hydrostatic bearing</td>
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**Joints and connections**

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<td>402/07</td>
<td>. Container with sheet retainer</td>
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Expanded, threaded, driven, headed, tool-deformed, or locked-threaded fastener

- Material or article handling
  - Bookbinding: process and apparatus
    - 412/00
    - 412/90
    - 412/901
    - 412/902
  - Material or article handling
    - 414/00
    - 414/10
    - 414/101
    - 414/102
    - 414/103
    - 414/104
    - 414/105
    - 414/106
Material or article handling

Rotary kinetic fluid motors or pumps

415/00 Rotary kinetic fluid motors or pumps
415/90 . Rotary blood pump
415/901 . Drilled well-type pump
415/902 . Rotary pump turbine publications
415/903 . Well bit drive turbine
415/904 . Tool drive turbine, e.g. dental drill
415/905 . Natural fluid current motor
415/906 . having specific features for water current
415/907 . Vertical runner axis
415/908 . Axial flow runner
415/909 . Air stack or shaft having natural fluid current motor
415/91 . Reversible between pump and motor use
415/911 . Pump having reversible runner rotation and separate outlets for opposing directions of rotation
415/912 . Interchangeable parts to vary pumping capacity or size of pump
415/913 . Inlet and outlet with concentric portions

415/914 . Device to control boundary layer
415/915 . Pump or portion thereof by casting or molding
415/916 . Perpetual motion devices

Fluid reaction surfaces, i.e. impellers

416/00 Fluid reaction surfaces, i.e. impellers
416/01 . Stalker
416/02 . Formulas of curves
416/03 . Sheet metal
416/04 . Fluid current motor and generator
416/05 . Variable camber or chord length
416/06 . Supports for natural fluid current motors
416/07 . Inlet and outlet
416/08 . Stack or chimney with fluid motor
416/09 . Savonius
416/50 . Vibration damping features
416/501 . Fly brush type impeller

Pumps

417/00 Pumps
417/01 . Materials digest
417/90 . Slurry pumps, e.g. concrete
417/901 . Cryogenic pumps
417/902 . Hermetically sealed motor pump unit
417/903 . Treadle operated
417/904 . Well pump driven by fluid motor mounted above ground

Rotary expansible chamber devices

418/00 Rotary expansible chamber devices
418/01 . Non-working fluid separation

Alloys or metallic compositions

420/00 Alloys or metallic compositions
420/90 . Hydrogen storage
420/901 . Superconductive
420/902 . Superplastic
420/903 . Semiconductive

Chemical apparatus and process disinfecting, deodorizing, preserving, or sterilizing

422/00 Chemical apparatus and process disinfecting, deodorizing, preserving, or sterilizing
422/90 . Decreasing pollution or environmental impact
422/901 . Polymer dissolver
422/902 . Sodium chloride and potassium chloride dissolver
422/903 . Radioactive material apparatus
422/904 . Nitrogen fixation means
422/905 . Miscellaneous liquid sterilization means
422/906 . Plasma or ion generation means
422/907 . Corona or glow discharge means

Chemistry of inorganic compounds

423/00 Chemistry of inorganic compounds
423/01 . Waste acid containing iron
423/02 . Sulfuric acid
423/03 . Papermaking liquor
423/04 . Manganese marine modules
423/05 . Automatic, including computer, control
423/06 . Temperature control

CPC - 2019.08
Drug bio-affecting and body treating compositions

424/00 Drug, bio-affecting and body treating compositions
424/01 Aerosol hair preparation
424/02 Resin hair settings
424/03 Hair bleach
424/04 Dandruff
424/05 Stick
424/06 Chelate
424/07 Microporous membranes
424/08 Systemic pesticides
424/09 Fish posts
424/10 Insect repellent
424/11 Termite treating
424/12 Fertilization attaching inhibition
424/13 Burn treatment
424/14 Topical contraceptives and spermicides
424/15 Suppositories
424/16 Dendrimers and dendritic polymers
424/80 Antibody or fragment thereof whose amino acid sequence is disclosed in whole or in part
424/801 involving antibody or fragment thereof produced by recombinant dna technology

424/02 Antibody or antigen-binding fragment thereof that binds gram-positive bacteria
424/03 Antibody or antigen-binding fragment thereof that binds gram-negative bacteria
424/04 involving IgG3, IgG4, IgA, or IgY
424/05 involving IgE or IgD
424/06 involving IgM
424/07 Monoclonal
424/08 Human
424/09 involving immunoglobulin or antibody fragment, e.g. fab’, fv, fc, heavy chain or light chain
424/10 involving autoimmunity, allergy, immediate hypersensitivity, delayed hypersensitivity, immunosuppression, immunotolerance, or anergy
424/11 involving sex selection or contraception
424/12 Liposome comprising an antibody, antibody fragment, antigen, or other specific or nonspecific immunoeffecttor
424/13 Viral vaccine for bovine species, e.g. cattle
424/14 Viral vaccine for ovine species, e.g. sheep
424/15 Viral vaccine for porcine species, e.g. swine
424/16 Viral vaccine for avian species, e.g. poultry or other birds
424/17 Viral vaccine for fish
424/18 Viral vaccine for canidae or mustelidae, e.g. dogs, foxes, minks
424/19 Viral vaccine for feline species, e.g. cats
424/20 Viral vaccine for equine species, e.g. horses
424/21 involving temperature-sensitive mutant virus
424/22 involving tk- virus
424/23 Bacterial vaccine for bovine species, e.g. cattle
424/24 Bacterial vaccine for ovine species, e.g. sheep
424/25 Bacterial vaccine for porcine species, e.g. swine
424/26 Bacterial vaccine for avian species, e.g. poultry or other birds
424/27 Bacterial vaccine for fish
424/28 Bacterial vaccine for canidae or mustelidae, e.g. dogs, foxes, minks
424/29 Bacterial vaccine for feline species, e.g. cats
424/30 Bacterial vaccine for equine species, e.g. horses
424/31 involving temperature-sensitive mutant bacterium
424/32 involving capsular polysaccharide of bacterium, e.g. polyribosyl ribitol phosphate
424/33 involving bacterial toxin that has modified amino acid sequence
424/34 In vivo diagnostic or in vivo test agent which contains an additional ingredient to reduce the toxicity or side effects of the active ingredient

Plastic article or earthenware shaping or treating: apparatus

425/00 Plastic article or earthenware shaping or treating: apparatus
425/01 Accumulator
425/02 Air support
425/03 Appendage
425/04 Back pressure
425/05 Cammed
425/06 Coil
425/07 Cooling and color
425/08 Core positioning
425/09 Dental injection
425/10 Destructible mold and core
425/11 Electric heat

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Plastic article or earthenware shaping or treating: apparatus

425/014 . Expansible and collapsible
425/015 . Explosive
425/016 . Extrude and mold
425/017 . Filament stretching apparatus
425/019 . Flexible fluid pressure
425/02 . Fluidized bed
425/021 . Frictional drive
425/022 . Friction heat
425/023 . Glazing
425/024 . Gora
425/025 . Gutter
425/026 . High pressure
425/027 . Hot water bottle
425/028 . Impact
425/029 . Jigs and dies
425/03 . Laminated mold
425/032 . Lipstick
425/033 . Magnet
425/034 . Morin
425/035 . Opposed plunger
425/036 . Patching
425/037 . Perforate
425/038 . Pre-form
425/039 . Pre-heat
425/04 . Pulling wheel
425/041 . Reshape
425/042 . Ring
425/043 . Rocket fuel core
425/044 . Rubber mold
425/045 . Safety
425/046 . Scrap
425/047 . Seal ring
425/048 . Sheet clamping
425/049 . Spinnerette mixer
425/05 . Spray
425/051 . Sprue removal
425/053 . Stretch
425/054 . Through travel mold
425/055 . Polytetrafluoroethylene, i.e. PTFE
425/056 . Telephone
425/057 . Toy molding
425/058 . Undercut
425/059 . United parts
425/06 . Vacuum
425/061 . Venetian blind
425/01 . Aggregate and pellet
425/02 . Air ejection
425/05 . Brace
425/06 . Chamber
425/07 . Connection
425/08 . Conveyor
425/09 . Frangible connections
425/11 . Heated mold
425/111 . Hollow block
425/112 . Inflatable form
425/113 . Inner roll
425/115 . Lubricator
425/116 . Mold cleaning
425/117 . Pallet
425/118 . Pallet feeder
425/119 . Perforated or porous
425/249 . Pressure
425/251 . Pre-heat
425/253 . Pre-form
425/255 . Pre-heat
425/26 . Pulling wheel
425/261 . Reshape
425/262 . Ring
425/264 . Rocket fuel core
425/265 . Rubber mold
425/266 . Safety
425/267 . Scrap
425/268 . Seal ring
425/269 . Sheet clamping
425/27 . Spinnerette mixer
425/271 . Spray
425/272 . Sprue removal
425/273 . Stretch
425/274 . Through travel mold
425/275 . Polytetrafluoroethylene, i.e. PTFE
425/276 . Telephone
425/277 . Toy molding
425/278 . Undercut
425/279 . United parts
425/28 . Vacuum
425/281 . Venetian blind
425/282 . Aggregate and pellet
425/283 . Air ejection
425/284 . Brace
425/285 . Chamber
425/286 . Connection
425/287 . Conveyor
425/288 . Frangible connections
425/289 . Heated mold
425/29 . Hollow block
425/291 . Inflatable form
425/292 . Inner roll
425/293 . Lubricator
425/294 . Mold cleaning
425/295 . Pallet
425/296 . Pallet feeder
425/297 . Perforated or porous
Plastic article or earthenware shaping or treating: apparatus

425/815 . Chemically inert or reactive atmosphere
425/816 . Gas mask
425/817 . Means molding pore formable material
425/8175 . Continuous
425/818 . Belt

Food or edible material: processes, compositions, and products

426/80 . Geriatric
426/801 . Pediatric
426/802 . Simulated animal flesh
426/803 . Simulated fruit or vegetable
426/804 . Low calorie, low sodium or hypoallergenic
426/805 . Pet food for dog, cat, bird, or fish
426/806 . Salt or mineral substitute
426/807 . Poultry or ruminant feed
426/808 . Starch base snack product
426/809 . including harvesting or planting or other numerous miscellaneous processing steps
426/81 . Energy rations, e.g. emergency rations, survival rations
426/811 . Utilizing surface parting, antistick or release agent

Coating processes

427/10 . Chemical vapor infiltration, i.e. CVI
427/101 . Liquid Source Chemical Deposition, i.e. LSCVD or Aerosol Chemical Vapor Deposition, i.e. ACVD
427/102 . Fullerene type base or coating
427/103 . Diamond-like carbon coating, i.e. DLC
427/104 . Utilizing low energy electromagnetic radiation, e.g. microwave, radio wave, IR, UV, visible, actinic laser
427/105 . Utilizing ion plating or ion implantation
427/106 . Utilizing plasma, e.g. corona, glow discharge, cold plasma

Stock material or miscellaneous articles

428/90 . Magnetic feature
428/901 . Printed circuit
428/902 . High modulus filament or fiber
428/903 . Microfiber, less than 100 micron diameter
428/9033 . Recycled materials
428/904 . Artificial leather
428/9044 . Wall and shelf covering
428/905 . Odor releasing material
428/906 . Roll or coil
428/9066 . Embroidery
428/907 . Resistant against plant or animal attack
428/9077 . Layer or article rendered light-transmissive by pressure, e.g. blushed
428/908 . Impression retention layer, e.g. print matrix, sound record
428/9088 . Wear-resistant layer
428/909 . Resilient layer, e.g. printer's blanket
428/91 . Product with molecular orientation
428/911 . Penetration resistant layer
428/912 . Puncture healing layer
428/9122 . Mirror
428/913 . Material designed to be responsive to temperature, light, moisture
428/9133 . Decorative article for viewing from one side only, e.g. plaque
428/914 . Transfer or decalcomania
428/915 . Fraud or tamper detecting
428/916 . Fraud or tamper detecting
428/917 . Electroluminescent
428/918 . Material abnormally transparent
428/919 . Camouflaged article
428/92 . Fire or heat protection feature
428/921 . Fire or flameproofing
428/922 . Static electricity metal bleed-off metallic stock
428/923 . Physical dimension
428/924 . Composite
428/925 . Relative dimension specified
428/926 . Thickness of individual layer specified
428/9265 . Special properties
428/927 . Decorative informative
428/928 . Magnetic property
428/929 . Electrical contact feature
428/93 . Electric superconducting
428/931 . Components of differing electric conductivity
428/932 . Abrasive or cutting feature
428/933 . Sacrificial component
428/9335 . Product by special process
428/934 . Electrical process
428/935 . Electroplating
428/936 . Chemical deposition, e.g. electroless plating
428/937 . Sprayed metal
428/938 . Vapor deposition or gas diffusion
428/939 . Molten or fused coating
428/94 . Pressure bonding, e.g. explosive
428/941 . Solid state alloying, e.g. diffusion, to disappearance of an original layer

Chemistry: electrical current producing apparatus, product, and process

429/90 . Fuel cell including means for power conditioning, e.g. Conversion to ac
429/901 . Fuel cell including means for utilization of heat for unrelated application, e.g. heating a building

Radiation imagery chemistry: process, composition, or product thereof

430/00 . Radiation imagery chemistry: process, composition, or product thereof
430/001 . Electric or magnetic imagery, e.g., xerography, electrography, magnetography, etc. Process, composition, or product
430/10 . Donor-acceptor complex photoconductor
430/101 . Photoconductive powder
430/102 . Electrically charging radiation-conductive surface
430/103 . Radiation sensitive composition or product containing specified antioxidant
430/104 . One component toner
430/105 . Polymer in developer
Radiation imagery chemistry: process, composition, or product thereof

430/1053 . Imaging affecting physical property or radiation sensitive material, or producing nonplanar or printing surface - process, composition, or product: radiation sensitive composition or product or process of making binder containing
430/1055 . Radiation sensitive composition or product or process of making
430/106 . Binder containing
430/107 . Polymamide or polyurethane
430/108 . Polyolefin or halogen containing
430/109 . Polyester
430/11 . Vinyl alcohol polymer or derivative
430/111 . Polymer of unsaturated acid or ester
430/112 . Cellulosic
430/113 . with plasticizer
430/114 . Initiator containing
430/115 . Cationic or anionic
430/116 . Redox or dye sensitizer
430/117 . Free radical
430/118 . with inhibitor or stabilizer
430/119 . Hydroxyl or carbonyl group containing as sole functional groups
430/12 . Nitrogen compound containing
430/121 . Nitrogen in heterocyclic ring
430/122 . Sulfur compound containing
430/123 . Sulfur in heterocyclic ring
430/124 . Carboxyl compound containing
430/125 . Carboxyl in heterocyclic compound
430/126 . Halogen compound containing
430/127 . Spectral sensitizer containing
430/128 . Radiation-activated cross-linking agent containing
430/129 . Aerial films or processes specifically adapted for aerial radiation imagery
430/13 . Antibronze agent or process
430/131 . Anticurl layer
430/132 . Anti-ultraviolet fading
430/133 . Binder-free emulsion
430/134 . Brightener containing
430/135 . Cine film
430/136 . Coating process making radiation sensitive element
430/137 . Cobalt complex containing
430/138 . Corona discharge process
430/139 . Defect coating
430/14 . Dimensionally stable material
430/141 . Direct positive material
430/142 . Dye mordant
430/143 . Electron beam
430/144 . Hydrogen peroxide treatment
430/145 . Infrared
430/146 . Laser beam
430/147 . Lenticular
430/148 . Light sensitive titanium compound containing
430/149 . Lippmann
430/15 . Lithographic emulsion
430/151 . Matting or other surface reflectivity altering material
430/152 . Making camera copy, e.g. mechanical negative
430/153 . Multiple image producing on single receiver
430/154 . Neutron beam
430/155 . Nonresinous additive to promote interlayer adhesion in element

430/156 . Precursor compound
430/157 . interlayer correction coupler, ICC
430/158 . Development inhibitor releaser, DIR
430/159 . Development dye releaser, DDR
430/16 . Blocked developers
430/161 . Blocked restrainers
430/162 . Protective or antiabrasion layer
430/163 . Radiation-chronic compound
430/164 . Rapid access processing
430/165 . Thermal imaging composition
430/166 . Toner containing
430/167 . X-ray
430/168 . X-ray exposure process

Heating

432/00 Heating
432/50 . Tobacco barns

Chemistry: molecular biology and microbiology

435/00 Chemistry: molecular biology and microbiology
435/80 . Elimination or reduction of contamination by undersired ferments, e.g. aseptic cultivation
435/801 . Anaerobic cultivation
435/802 . Logarithmic growth phase
435/803 . Physical recovery methods, e.g. chromatography, grinding
435/804 . Single cell protein
435/805 . Test papers
435/806 . Fertility tests
435/807 . Gas detection apparatus
435/808 . Optical sensing apparatus
435/809 . Incubators or racks or holders for culture plates or containers
435/81 . Packaged device or kit
435/811 . Interferon
435/812 . Foam control
435/813 . Continuous fermentation
435/814 . Enzyme separation or purification
435/815 . by sorption
435/816 . by solubility
435/817 . Enzyme or microbe electrode
435/818 . Aeriation or oxygen transfer technique
435/819 . Fermentation vessels in series
435/82 . Subcellular parts of microorganisms
435/821 . Microorganisms used in the destruction of hazardous or toxic waste
435/8215 . Microorganisms
435/822 . using bacteria or actinomycetales
435/823 . Acetobacter
435/824 . Achromobacter
435/825 . Actinomadura
435/826 . Actinomycetes
435/827 . Actinoplanes
435/828 . Aerobacter
435/829 . Alcaligenes
435/83 . Arthrobacter
435/831 . Azotobacter
435/832 . Bacillus
435/833 . Bacillus brevis
435/834 . Bacillus cereus
435/835 . Bacillus circulans
Chemistry: molecular biology and microbiology

Prevention or removal of interfering materials or the antigen or forming the hapten-immunogenic using protozoa

Bacillus licheniformis
Bacillus megaterium
Bacillus polymyxa
Bacillus subtilis
Brevibacterium
Clostridium
Corynebacterium
corynebacterium diphteriae
Corynebacterium poineita
Corynebacterium pyogenes
E. coli
Escherichia
Escherichia coli
Flavobacterium
Haemophilus
Klebsiella
Lactobacillus
Lactobacillus acidophilus
Lactobacillus brevis
Lactobacillus casei
Lactobacillus plantarum
Methylomonas
Micrococcus
Micrococcus flavus
Micrococcus glutamicus
Micrococcus lysodeikicus
Mycobacterium
Mycobacterium avium
Mycobacterium fortuitum
Mycobacterium smegmatis
Micromonospora
Micromonaspora chalcea
Micromonaspora purpurea
Plasmodium
Neisseria
Nocardia
Proteus
Pseudomonas
Pseudomonas aeruginosa
Pseudomonas fluorescens
Pseudomonas putida
Rhizobium
Salmonella
Serratia
Serratia marcescens
Staphylococcus
Staphylococcus aureus
Staphylococcus epidermidis
Streptococcus
Streptococci
Streptomyces
Streptomyces albus
Streptomyces antibioticus
Streptomyces aureofaciens
Streptomyces aureus
Streptomyces biciniensia
Streptomyces candidus
Streptomyces chartreusis
Streptomyces diastatochomogenes
Streptomyces filipinensis
Streptomyces griseus
Streptomyces hygroscopicus
Streptomyces lavendulae
Streptomyces lincolnensis
Streptomyces noursei
Streptomyces olivaceus
Streptomyces platensis
Streptomyces rimosus
Streptomyces sparogenes
Streptomyces venezuelae
Streptosporangium
Streptovitiscillium
Vibrio
Xanthomonas
using fungi
Candida
Candida albicans
Candida lipolytica
Candida tropicalis
Cephalosporium
Cephalosporium acremonium
Cephalosporium caerules
Cephalosporium crotoniigenium
 Fusarium
Hansenula
Mucor
Paecilomyces
Penicillium
Penicillium brevi
Penicillium chrysogenum
Penicillium notatum
Penicillium patulum
Picha
Rhizopus
Saccharomyces
Saccharomyces carlsbergensis
Saccharomyces cerevisiae
Saccharomyces lactis
Torulopsis
Trichoderma
using algae
using protozoa
using viruses or cell lines
Immunohistochemical assay
including a step of forming, releasing, or exposing the antigen or forming the hapten-immunogenic carrier complex or the antigen per se
Prevention or removal of interfering materials or reactants or other treatment to enhance results, e.g. determining or preventing nonspecific binding
Methods of stopping an enzyme reaction or stabilizing the test materials
<table>
<thead>
<tr>
<th>CPC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>435/964</td>
<td>including enzyme-ligand conjugate production, e.g. reducing rate of nonproductive linkage</td>
</tr>
<tr>
<td>435/965</td>
<td>involving idiootype or anti-idiootype antibody</td>
</tr>
<tr>
<td>435/966</td>
<td>involving an enzyme system with high turnover rate or complement magnified assay, e.g. multi-enzyme systems</td>
</tr>
<tr>
<td>435/967</td>
<td>Standards, controls, materials, e.g. validation studies, buffer systems</td>
</tr>
<tr>
<td>435/968</td>
<td>High energy substrates, e.g. fluorescent, chemiluminescent, radioactive</td>
</tr>
<tr>
<td>435/969</td>
<td>Multiple layering of reactants</td>
</tr>
<tr>
<td>435/97</td>
<td>Test strip or test slide</td>
</tr>
<tr>
<td>435/971</td>
<td>Capture of complex after antigen-antibody reaction</td>
</tr>
<tr>
<td>435/972</td>
<td>Modified antibody, e.g. hybrid, bifunctional</td>
</tr>
<tr>
<td>435/973</td>
<td>Simultaneous determination of more than one analyte</td>
</tr>
<tr>
<td>435/974</td>
<td>Aids related test</td>
</tr>
<tr>
<td>435/975</td>
<td>Kit</td>
</tr>
</tbody>
</table>

### Chemistry: analytical and immunological testing

436/00 Chemistry: analytical and immunological testing

<table>
<thead>
<tr>
<th>CPC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>436/80</td>
<td>Fluorescent dyes, e.g. rhodamine</td>
</tr>
<tr>
<td>436/801</td>
<td>Electron dense compounds, e.g. ferritin</td>
</tr>
<tr>
<td>436/802</td>
<td>Protein-bacteriophage conjugates</td>
</tr>
<tr>
<td>436/803</td>
<td>Stable free radicals, e.g. spin immunosayy</td>
</tr>
<tr>
<td>436/804</td>
<td>Radioisotope, e.g. radioimmunoassay</td>
</tr>
<tr>
<td>436/805</td>
<td>Optical property</td>
</tr>
<tr>
<td>436/806</td>
<td>Electrical property or magnetic property</td>
</tr>
<tr>
<td>436/807</td>
<td>Apparatus included in process claim, e.g. physical support structures</td>
</tr>
<tr>
<td>436/808</td>
<td>Automated or kit</td>
</tr>
<tr>
<td>436/809</td>
<td>Multifield plates or multicontainer arrays</td>
</tr>
<tr>
<td>436/81</td>
<td>Tube, bottle, or dipstick</td>
</tr>
<tr>
<td>436/811</td>
<td>Test for named disease, body condition or organ function</td>
</tr>
<tr>
<td>436/812</td>
<td>Infectious mononucleosis</td>
</tr>
<tr>
<td>436/813</td>
<td>Cancer</td>
</tr>
<tr>
<td>436/814</td>
<td>Pregnancy</td>
</tr>
<tr>
<td>436/815</td>
<td>Test for named compound or class of compounds</td>
</tr>
<tr>
<td>436/816</td>
<td>Alkaloids, amphetamines, and barbiturates</td>
</tr>
<tr>
<td>436/817</td>
<td>Steroids or hormones</td>
</tr>
<tr>
<td>436/818</td>
<td>Human chorionic gonadotropin</td>
</tr>
<tr>
<td>436/819</td>
<td>Multifunctional antigen or antibody</td>
</tr>
<tr>
<td>436/82</td>
<td>Hepatitis associated antigens and antibodies</td>
</tr>
<tr>
<td>436/821</td>
<td>involving complement factors or complement systems</td>
</tr>
<tr>
<td>436/822</td>
<td>Identified hapten</td>
</tr>
<tr>
<td>436/823</td>
<td>Immunogenic carrier or carrier per se</td>
</tr>
<tr>
<td>436/824</td>
<td>Immunological separation techniques</td>
</tr>
<tr>
<td>436/825</td>
<td>Pretreatment for removal of interfering factors from sample</td>
</tr>
<tr>
<td>436/826</td>
<td>Additives, e.g. buffers, diluents, preservatives</td>
</tr>
<tr>
<td>436/827</td>
<td>Lectins</td>
</tr>
<tr>
<td>436/828</td>
<td>Protein A</td>
</tr>
<tr>
<td>436/829</td>
<td>Liposomes, e.g. encapsulation</td>
</tr>
<tr>
<td>436/90</td>
<td>Breath testing</td>
</tr>
<tr>
<td>436/901</td>
<td>Drugs of abuse, e.g. narcotics, amphetamine</td>
</tr>
<tr>
<td>436/902</td>
<td>Dosimeter</td>
</tr>
<tr>
<td>436/903</td>
<td>Diazot reactions</td>
</tr>
<tr>
<td>436/904</td>
<td>Oxidation - reduction indicators</td>
</tr>
<tr>
<td>436/905</td>
<td>Photochemical activation of reactions</td>
</tr>
<tr>
<td>436/906</td>
<td>Fertility tests</td>
</tr>
</tbody>
</table>

### Semiconductor device manufacturing: process

438/00 Semiconductor device manufacturing: process

<table>
<thead>
<tr>
<th>CPC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>438/80</td>
<td>Bulk effect device making</td>
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<tr>
<td>438/801</td>
<td>Capacitive junction</td>
</tr>
<tr>
<td>438/802</td>
<td>Capping layer</td>
</tr>
<tr>
<td>438/803</td>
<td>Catalyst aided deposition</td>
</tr>
<tr>
<td>438/804</td>
<td>Charge carrier lifetime deposition</td>
</tr>
<tr>
<td>438/805</td>
<td>Cleaning of reaction chamber</td>
</tr>
<tr>
<td>438/806</td>
<td>Cleaning of wafer as interim step</td>
</tr>
<tr>
<td>438/807</td>
<td>Continuous processing</td>
</tr>
<tr>
<td>438/808</td>
<td>Utilizing cluster apparatus</td>
</tr>
<tr>
<td>438/809</td>
<td>Controlled atmosphere</td>
</tr>
<tr>
<td>438/81</td>
<td>Controlling charging state at semiconductor-insulator interface</td>
</tr>
<tr>
<td>438/811</td>
<td>Differential oxidation and etching</td>
</tr>
<tr>
<td>438/812</td>
<td>Displacing pn junction</td>
</tr>
<tr>
<td>438/813</td>
<td>Diverse treatments performed in unitary chamber</td>
</tr>
<tr>
<td>438/814</td>
<td>Doping</td>
</tr>
<tr>
<td>438/815</td>
<td>Amphoteric doping</td>
</tr>
<tr>
<td>438/816</td>
<td>Autodoping control or utilization</td>
</tr>
<tr>
<td>438/817</td>
<td>Deep level dopants, e.g. gold, chromium, iron or nickel</td>
</tr>
<tr>
<td>438/818</td>
<td>Special or nonstandard dopant</td>
</tr>
<tr>
<td>438/819</td>
<td>Compensation doping</td>
</tr>
<tr>
<td>438/82</td>
<td>Controlling diffusion profile by oxidation</td>
</tr>
<tr>
<td>438/821</td>
<td>Nonselective diffusion</td>
</tr>
<tr>
<td>438/822</td>
<td>Diffusion along grain boundaries</td>
</tr>
<tr>
<td>438/823</td>
<td>Diffusion through a layer</td>
</tr>
<tr>
<td>438/824</td>
<td>To facilitate selective etching</td>
</tr>
<tr>
<td>438/825</td>
<td>Fluid growth doping control, e.g. delta doping</td>
</tr>
<tr>
<td>438/826</td>
<td>Dummy metallization</td>
</tr>
<tr>
<td>438/827</td>
<td>Electromigration resistant metallization</td>
</tr>
<tr>
<td>438/828</td>
<td>Front and rear surface processing</td>
</tr>
<tr>
<td>438/829</td>
<td>Eutectic semiconductor</td>
</tr>
<tr>
<td>438/83</td>
<td>Ternary or quaternary semiconductor comprised of elements from three different groups, e.g. I-III-V</td>
</tr>
<tr>
<td>438/831</td>
<td>Silicon carbide semiconductor</td>
</tr>
<tr>
<td>438/832</td>
<td>Boron nitride semiconductor</td>
</tr>
<tr>
<td>438/833</td>
<td>Germanium or silicon or Ge-Si on III-V</td>
</tr>
<tr>
<td>438/834</td>
<td>Sheet resistance, i.e. dopant parameters</td>
</tr>
<tr>
<td>438/835</td>
<td>Gas flow control</td>
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<tr>
<td>438/836</td>
<td>Graded energy gap</td>
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<tr>
<td>438/837</td>
<td>Hilllock prevention</td>
</tr>
<tr>
<td>438/838</td>
<td>Lattice strain control or utilization</td>
</tr>
<tr>
<td>438/839</td>
<td>Langmuir-blodgett film utilization</td>
</tr>
<tr>
<td>438/84</td>
<td>Laser ablative material removal</td>
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<tr>
<td>438/841</td>
<td>Loading effect mitigation</td>
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<td>438/842</td>
<td>Masking</td>
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<tr>
<td>438/843</td>
<td>Movable</td>
</tr>
<tr>
<td>438/844</td>
<td>Shadow</td>
</tr>
<tr>
<td>438/845</td>
<td>Special, e.g. metal</td>
</tr>
<tr>
<td>438/846</td>
<td>Step and repeat</td>
</tr>
<tr>
<td>438/847</td>
<td>Subphotolithographic processing</td>
</tr>
<tr>
<td>438/848</td>
<td>Radiation resist</td>
</tr>
<tr>
<td>438/849</td>
<td>Energy beam treating radiation resist on semiconductor</td>
</tr>
</tbody>
</table>

Chemistry: molecular biology and microbiology
439/95 . . . Multilayer mask including nonradiation sensitive layer
439/951 . . . Lift-off
439/952 . . . Utilizing antireflective layer
439/953 . Making radiation resistant device
439/954 . Making oxide-nitride-oxide device
439/955 . Melt-back
439/956 . Making multiple wavelength emissive device
439/957 . Making metal-insulator-metal device
439/958 . Passivation layer
439/959 . Mechanical polishing of wafer
439/96 . Porous semiconductor
439/961 . Ion beam source and generation
439/962 . Quantum dots and lines
439/963 . Removing process residues from vertical substrate surfaces
439/964 . Roughened surface
439/965 . Shaped junction formation
439/966 . Selective oxidation of ion-amorphousized layer
439/967 . Semiconductor on specified insulator
439/968 . Semiconductor-metal-semiconductor
439/969 . Simultaneous formation of monocristalline and polycristalline regions
439/97 . Specified etch stop material
439/971 . Stoichiometric control of host substrate composition
439/972 . Stored charge erasure
439/973 . Substrate orientation
439/974 . Substrate surface preparation
439/975 . Substrate or mask aligning feature
439/976 . Temporary protective layer
439/977 . Thinning or removal of substrate
439/978 . forming tapered edges on substrate or adjacent layers
439/979 . Tunnel diodes
439/98 . Utilizing process equivalents or options
439/981 . Utilizing varying dielectric thickness
439/982 . Varying orientation of devices in array
439/983 . Zener diodes

**Electrical connectors**

439/00 . Electrical connectors

439/001 . Connector hood or shell
439/002 . . . Angularly disposed contact and conductor
439/003 . . . Special latch for insert
439/004 . . . Multipart shell
439/005 . . . Axially joined sections
439/006 . . . Longitudinally divided
439/007 . . . Contact having three contact surfaces, including diverse surface
439/008 . . . Contact having two contact surfaces for electrical connection on opposite sides of insulative body
439/009 . . . Medical use or attached to human body
439/01 . Observation aide, e.g. transparent material, window in housing
439/011 . Safety, e.g. electrical disconnection required before opening housing
439/012 . . . with testing means
439/013 . . . Condition determining device, e.g. oxygen sensor, accelerometer, ionizer chamber, thermocouple
439/014 . . . for flashbulb or camera, including flash cube
439/015 . Auxiliary device for existing plug
439/016 . Antenna

439/917 . . . Alarm circuit, e.g. window affixed foil
439/918 . . . Multilamp vehicle panel
439/919 . . . for treatment by electrical current, e.g. magnet or battery charger, heater or welder
439/92 . . . for interconnecting rigid pipelike bodies, e.g. wave guides
439/921 . . . Transformer bushing type or high voltage underground connector
439/922 . . . Telephone switchboard protector
439/923 . . . Separation or disconnection aid
439/9241 . . . Contacts arranged for sequential connection
439/9242 . . . with contact preventer to require joining in a given sequence
439/925 . . . Floor mounted, e.g. under carpet
439/926 . . . within machine casing or motor housing, connector within casing wall
439/927 . . . Conductive gasket
439/928 . . . Modular electrically interengaging parts, e.g. stowe with replaceable heating elements formed on coupling parts
439/9281 . . . Plug-in carrier or adapter for removable component, e.g. "hard drive" for computer
439/929 . . . Connecting base plate or shelf type holder
439/93 . . . Coupling part wherein contact is comprised of a wire or brush
439/931 . . . Conductive coating
439/932 . . . Heat shrink material
439/933 . . . Special insulation
439/934 . . . High voltage barrier, e.g. surface arcing or corona preventing insulator
439/935 . . . Glass or ceramic contact pin holder
439/936 . . . Potting material or coating, e.g. grease, insulative coating, sealant or, adhesive
439/937 . . . Plural insulators in strip form
439/9381 . . . Cathodic protection of structure, e.g. ship hull
439/939 . . . with grounding to metal mounting panel
439/94 . . . including provision for mechanical lifting or manipulation, e.g. for vacuum lifting
439/941 . . . Crosstalk suppression
439/942 . . . Combiike retainer for conductor
439/943 . . . including provision for pressing contact into pcb hole
439/944 . . . Coaxial connector having circuit-interrupting provision effected by mating or having "dead" contact activated after mating
439/945 . . . Adapter for pcb or cartridge
439/946 . . . Memory card cartridge
439/947 . . . PCB mounted connector with ground terminal
439/948 . . . Contact or connector with insertion depth limiter
439/949 . . . Junction box with bushar for plug-socket type interconnection with receptacle
439/95 . . . Electrical connector adapted to transmit electricity to mating connector without physical contact, e.g. by induction, magnetism, or electrostatic field
439/951 . . . PCB having detailed leading edge
439/952 . . . Jumper for use with specific apparatus
439/953 . . . with latch rod to be retainingly received by opening of mating connector
439/954 . . . Special orientation of electrical connector
439/955 . . . including electronic identifier or coding means
439/956 . . . with means to allow selection of diverse voltage or polarity
Electrical connectors

439/957 . Auxiliary contact part for circuit adaptation

Amusement devices: toys

446/00 Amusement devices: toys
446/901 . Detachably adhesive

Abrading

451/00 Abrading
451/90 . Gear abrader
451/901 . Super finish
451/902 . Brake abrading
451/903 . Egg cleaning
451/904 . Flexible abrasive storage reel
451/905 . Metal lap
451/906 . Machine element or unit
451/907 . Strip feeding
451/908 . Electrical abrading
451/909 . Wire polishing
451/91 . Ultrasonic
451/911 . Tool mounting point
451/912 . Shoe abrading
451/913 . Contour abrading
451/914 . Supporting, positioning, or feeding work
451/915 . Abrading wheel speed control
451/916 . Abrading of brush bristle
451/917 . Abrading of scalloped cutting edge, e.g. bread knife sharpening
451/918 . Adjustable work support, e.g. by sine bar
451/919 . Wankel
451/92 . Tire “rounding”
451/921 . Pad for lens shaping tool

Ventilation

454/00 Ventilation
454/90 . Ventilator using solar power
454/901 . Fog dispeller
454/902 . Air raid shelter ventilation
454/903 . Flexible ducts used for carrying air
454/904 . Magnetic means to hold a damper closed
454/905 . Black out means
454/906 . Noise inhibiting means
454/907 . Seat
454/908 . having rotary retarder
454/909 . Radon prevention

Crop threshing or separating

460/00 Crop threshing or separating
460/901 . Material distributor
460/902 . Grain cleaner
460/903 . Grain saver
460/904 . Potato digger
460/905 . Straw or chaff stacker

Books, strips, and leaves for manifolding

462/00 Books, strips, and leaves for manifolding
462/90 . Adhesive
462/901 . Pressure sensitive
462/902 . Camouflage or nontransfer
462/903 . Security

Rotary shafts, gudgeons, housings, and flexible couplings for rotary shafts

464/00 Rotary shafts, gudgeons, housings, and flexible couplings for rotary shafts
464/90 . Electrically insulative member
464/901 . Rapid attachment or release
464/902 . Particular material
464/903 . Nonmetal
464/904 . Homokinetic coupling
464/905 . Torque transmitted via radially extending pin
464/906 . Torque transmitted via radially spaced balls

Threaded, headed fastener, or washer making: process and apparatus

470/00 Threaded, headed fastener, or washer making: process and apparatus
470/90 . Floating workholder
470/901 . Pipe or rod workholder
470/902 . Workholder index
470/903 . Yieldsable spindle
470/904 . Turret
470/905 . Wire coil insert
470/906 . Nylon plug lock
470/907 . Clinch nut feeder

Endless belt power transmission systems or components

474/00 Endless belt power transmission systems or components
474/90 . Phase variator
474/901 . Pulley or guide roll for track of endless track vehicle
474/902 . Particular connection between rim and hub
474/903 . Particular connection between hub and shaft

Planetary gear transmission systems or components

475/00 Planetary gear transmission systems or components
475/90 . Brake for input or output shaft
475/901 . Particular material
475/902 . Nonmetallic
475/903 . Stacked planetary gearing
475/904 . Particular mathematical equation

Friction gear transmission systems or components

476/00 Friction gear transmission systems or components
476/90 . Overload release

Interrelated power delivery controls, including engine control

477/00 Interrelated power delivery controls, including engine control
477/90 . Control signal is vehicle weight
477/901 . Control signal is slope
477/902 . Control signal is engine parameter other than manifold pressure or fuel control
477/903 . Control signal is steering
477/904 . Control signal is acceleration
477/905 . Acceleration of throttle signal
477/906 . Means detecting or ameliorating the effects of malfunction or potential malfunction
477/907 . Redundant
Interrelated power delivery controls, including engine control

Exercise devices

482/00 Exercise devices
482/90 . Ergometer with feedback to load or with feedback comparison
482/901 . having computer circuitry
482/902 . Employing specific graphic or video display
482/903 . Utilizing electromagnetic force resistance
482/904 . Removably attached to wheelchair, home furnishing, or home structure
482/905 . Arm wrestling
482/906 . Utilizing opponent supplied resistance
482/907 . Stretching
482/908 . Adjustable
482/909 . Mechanical indicator
482/91 . Portable exercise device with carrying handle, case, or cabinet

Tool changing

483/00 Tool changing
483/90 . Gripping portion engages tool simultaneous with tool rotating in spindle
483/901 . Robot end effectors
483/902 . Tool grippers

Manufacturing container or tube from paper; or other manufacturing from a sheet or web

493/00 Manufacturing container or tube from paper; or other manufacturing from a sheet or web
493/901 . Rigid container
493/902 . Dished
493/903 . Insulated thermally
493/904 . Cushioned
493/905 . having window
493/906 . having multilayer wall
493/907 . Lined
493/908 . Covered
493/909 . having handle or suspension means
493/91 . Cigarette container
493/911 . Flip-top
493/912 . having internal partition
493/913 . Egg container
493/914 . Eyeglass container
493/915 . Match container
493/916 . Pliable container
493/917 . Envelope
493/918 . Expandable
493/919 . having window
493/92 . having plural compartments
493/921 . having integrally formed insert
493/922 . having liner
493/923 . with opening means, e.g. tear strip, valve
493/924 . Requiring external support during filling
493/925 . having mesh or window opening
493/926 . having handle or suspension means
493/927 . Reclosable
493/928 . with draw string
493/929 . with valve
493/93 . having tear strip
493/931 . having plural compartments
493/932 . having plural openings
493/933 . having multilayer wall
493/934 . Parallelepiped or tetrahedron shape
493/935 . Covering bag, e.g. garment protector
493/936 . Square bottom
493/937 . Textile
493/938 . Apparel
493/939 . Apparel support
493/94 . Bellows
493/941 . Filter
493/942 . Cleaning implement, e.g. brush, dust mop
493/943 . Candy stick
493/944 . Aperture card or display device with window
493/945 . Coin holder
493/946 . Phonograph record jacket
493/947 . File folder
493/948 . Igniting fuse
493/949 . Electrical insulation
493/95 . Lamp shade
493/951 . Seedling container
493/952 . Photo corner mount
493/953 . Stencil or outline guide
493/954 . Spool
493/955 . Decoration article
493/956 . having appearance of living plant, e.g. christmas tree
493/957 . Festoon
493/958 . Garland
493/959 . Toy or amusement article
493/96 . Toilet article
493/961 . Tag, marker, or label
493/962 . Closure, e.g. tie string, valve
493/963 . Opener, e.g. tear strip
493/964 . Pallet
493/965 . Flat or "boat", e.g. for candy, crackers
493/966 . Honeycomb structure
493/967 . Dunnage, wadding, stuffing, or filling excelsior
493/968 . Structural shape

Imperforate bowl: centrifugal separators

494/00 Imperforate bowl: centrifugal separators
494/90 . involving mixture containing one or more gases
494/901 . involving mixture containing oil
494/902 . involving the use of mercury

Compositions: ceramic

501/00 Compositions: ceramic
501/90 . Optical glass, e.g. silent on refractive index and/or ABBE number
501/901 . having R.I. at least 1.8
501/902 . having ABBE number at least 70
501/903 . having refractive index less than 1.8 and ABBE number less than 70
501/904 . Infrared transmitting or absorbing
501/905 . Ultraviolet transmitting or absorbing
501/906 . Thorium oxide containing

Catalyst, solid sorbent, or support therefor: product or process of making

502/00 Catalyst, solid sorbent, or support therefor: product or process of making
Catalyst, solid sorbent, or support therefor: product or process of making

502/50  . Stabilized
502/501 . for multi-regenerability
502/502 . Crystallinity
502/503 . Crush strength
502/504 . Abrasion resistance
502/506 . Method of making inorganic composition utilizing organic compound, except formic, acetic, or oxalic acid or salt thereof
502/507 . Synthetic resin, natural resin, polysaccharide, or polypeptide
502/508 . Sulfur containing organic compound
502/509 . Nitrogen containing organic compound
502/51 . Also containing hydroxyl bonded to carbon, e.g. carboxylic acid
502/511 . Two or more nitrogen atoms bonded to different carbon atoms
502/512 . Carboxylic acid or salt thereof other than formic, acetic, or oxalic acid
502/513 . Alcohol, phenol, or ether or metallate thereof
502/514 . Process applicable either to preparing or to regenerating or to rehabilitating catalyst or sorbent
502/515 . Specific contaminant removal
502/516 . Metal contaminant removal
502/517 . Sulfur or sulfur compound removal
502/518 . Carbonaceous contaminant
502/519 . Reagent grade, e.g. ultra pure
502/52 . Suppressed side reactions
502/521 . Metal contaminant passivation
502/522 . Radiant or wave energy activated
502/523 . Miscellaneous specific techniques of general applicability
502/524 . Spinel
502/525 . Perovskite
502/526 . Sorbent for fluid storage, other than an alloy for hydrogen storage
502/52711 . Monolith of peculiar structure or physical form, with specified heat exchange capability
502/52712 . Plural layers on a support, each layer having a distinct function
502/52713 . More than two overlapping layers
502/52714 . Specified support particles of peculiar structure or physical form, e.g. whiskers, fiber pieces
502/52715 . Layered deposition on support particle, i.e. on a carrier particle
502/52716 . Specified shape of support particle, e.g. hollow-carrier particle
502/52717 . Specified cross-section shape or area of elongated support particles, e.g. tape, with area of cross section stated
502/52718 . Monolith with specified gas flow patterns, e.g. turbulent flow monolith
502/52719 . Monolith with specified shape or dimension of cell opening, e.g. honeycomb, rings
502/5272 . Cell opening shape and dimensions are determined by the intersection of the woof and the warp of a woven structure, e.g. of a fabric or gauze
502/52721 . Cell openings are quadrilateral or triangular, e.g. pie shaped
502/52722 . Cell openings are spiral or corrugated
502/52723 . Specified external or internal shape or configuration of catalyst reactor or of sorbent converter
502/52724 . Peculiar structure or physical form, e.g. foam, sponge, foil, sack, bag, fiber in a matrix, monolith, microstructure, microcracking, or microaggregates

Superconductor technology: apparatus, material, process

505/00 Superconductor technology: apparatus, material, process
505/70 . High TC, above 30 k, superconducting device, article, or structured stock
505/701 . Coated or thin film device, i.e. active or passive
505/702 . Josephson junction present
505/703 . Microelectronic device with superconducting conduction line
505/704 . Wire, fiber, or cable
505/705 . Magnetic coil
505/706 . Contact pads or leads bonded to superconductor
505/725 . Process of making or treating high tc, above 30 k, superconducting shaped material, article, or device
505/726 . Measuring or testing of superconducting property
505/727 . Using magnetic field
505/728 . Etching
505/729 . Growing single crystal, e.g. epitaxy, bulk
505/73 . Vacuum treating or coating
505/731 . Sputter coating
505/732 . Evaporative coating with superconducting material
505/733 . Rapid solidification, e.g. quenching, gas-atomizing, melt-spinning, roller-quenching
505/734 . From organometallic precursors, e.g. acetylacetonates
505/735 . By sol-gel process
505/736 . From free metal precursors
505/737 . From inorganic salt precursors, e.g. nitrates
505/738 . By precipitating
505/739 . Molding, coating, shaping, or casting of superconducting material
505/74 . To form wire or fiber
505/741 . Coating or casting onto a substrate, e.g. screen printing, tape casting
505/742 . Annealing
505/775 . High tc, above 30 k, superconducting material
505/776 . Containing transition metal oxide with rare earth or alkaline earth
505/777 . Lanthanum, e.g. La,CuO
505/778 . Alkaline earth, i.e. Ca, Sr, Ba, Ra
505/779 . Other rare earth, i.e. Sc,Y,Ce,Pr,Nd,Pm,Sm,Eu,Gd,Tb,Dy, Ho,Er,Tm,Yb,Lu and alkaline earth, i.e. Ca,Sr,Ba,Ra
505/778 . Yttrium and barium-, e.g. YBa2Cu307
505/781 . Noble metal, i.e. Ag, Au, Os, Ir, Pt, Ru, Rh, Pd or chromium, manganese, iron, cobalt or nickel
505/782 . Bismuth-, e.g. BiCaSrCuO
505/783 . Thallium-, e.g. Tl2CaBaCu308
505/784 . Bismuth-, e.g. BaKBiO
505/785 . Composition containing superconducting material and diverse nonsuperconducting material
505/786 . Manufacturing system or apparatus for making high temperature, i.e. tc greater than 30 k superconductor product, device, article or stock, i.e. which system or apparatus does not itself contain a superconducting component
505/80 . Material per se process of making same
Superconductor technology: apparatus, material, process

505/801 . . . Composition
505/802 . . . Organic
505/803 . . . Magnetic
505/804 . . . Amorphous alloy
505/805 . . . Alloy or metallic
505/806 . . . Niobium base, Nb
505/807 . . . Powder
505/808 . . . Liquid crystal
505/809 . . . Ceramic
505/81 . . . Compound
505/811 . . . Organic
505/812 . . . Stock
505/813 . . . Wire, tape, or film
505/814 . . . Treated metal
505/815 . . . Process of making per se
505/816 . . . Sputtering, including coating, forming, or etching
505/817 . . . forming josephson element
505/818 . . . Coating
505/819 . . . Vapor deposition
505/82 . . . And etching
505/821 . . . Wire
505/822 . . . Shaping
505/823 . . . Powder metallurgy
505/824 . . . Battery, thermo or photo-electric
505/825 . . . Apparatus per se, device per se, or process of making or operating same
505/826 . . . Coating
505/827 . . . Code converter
505/828 . . . Modulator, demodulator, or detector
505/829 . . . Electrical computer or data processing system
505/83 . . . Electrical pulse counter, pulse divider, or shift register
505/831 . . . Static information storage system or device
505/832 . . . Josephson junction type
505/833 . . . Thin film type
505/834 . . . Plural, e.g. memory matrix
505/835 . . . . . . Content addressed, i.e. associative memory type
505/836 . . . . . . Location addressed, i.e. word organized memory type
505/837 . . . . . . Random access, i.e. bit organized memory type
505/838 . . . . . . Plural, e.g. memory matrix
505/839 . . . . . . Content addressed, i.e. associative memory type
505/84 . . . . . . Location addressed, i.e. word organized memory type
505/841 . . . . . . Random access, i.e. bit organized memory type
505/842 . . . . . . Measuring and testing
505/843 . . . . . . Electrical
505/844 . . . . . . Nuclear magnetic resonance, NMR, system or device
505/845 . . . . . . Magnetometer
505/846 . . . . . . using superconductive quantum interference device, i.e. squid
505/847 . . . . . . Thermal
505/848 . . . . . . Radiant energy application
505/849 . . . . . . Infrared responsive electric signaling
505/85 . . . . . . Protective circuit
505/851 . . . . . . Control circuit for electromagnetic device
505/852 . . . . . . Electric motor control
505/853 . . . . . . Oscillator
505/854 . . . . . . with solid-state active element
505/855 . . . . . . Amplifier
505/856 . . . . . . Electrical transmission or interconnection system
505/857 . . . . . . Nonlinear solid-state device system or circuit
505/858 . . . . . . Digital logic
505/859 . . . . . . Function of and, or, nand, nor or not
505/86 . . . . . . Gating, i.e. switching circuit
505/861 . . . . . . with josephson junction
505/862 . . . . . . with thin film device
505/863 . . . . . . Stable state circuit for signal shaping, converting, or generating
505/864 . . . . . . with josephson junction
505/865 . . . . . . with josephson junction
505/866 . . . . . . Wave transmission line, network, waveguide, or microwave storage device
505/867 . . . . . . Electric power conversion system
505/868 . . . . . . Current conversion
505/869 . . . . . . Power supply, regulation, or energy storage system
505/87 . . . . . . including transformer or inductor
505/871 . . . . . . Magnetic lens
505/872 . . . . . . Magnetic field shield
505/873 . . . . . . Active solid-state device
505/874 . . . . . . with josephson junction, e.g. squid
505/875 . . . . . . Combined with housing and cryogenic fluid cooling
505/876 . . . . . . Electrical generator or motor structure
505/877 . . . . . . Rotary dynamoelectric type
505/878 . . . . . . with cooling
505/879 . . . . . . Magnet or electromagnet
505/88 . . . . . . Inductor
505/881 . . . . . . Resistance device responsive to magnetic field
505/882 . . . . . . Circuit maker or breaker
505/883 . . . . . . Housing and mounting assembly with plural diverse electrical components
505/884 . . . . . . Conductor
505/885 . . . . . . Cooling, or feeding, circulating, or distributing fluid; in superconductive apparatus
505/886 . . . . . . Cable
505/887 . . . . . . Conductor structure
505/888 . . . . . . Refrigeration
505/889 . . . . . . Utilizing rare earth material
505/89 . . . . . . Heat pipe device
505/891 . . . . . . Magnetic or electrical effect cooling
505/892 . . . . . . Magnetic device cooling
505/893 . . . . . . Spectrometer
505/894 . . . . . . Cyclic cryogenic system, e.g. sterling, gifford-mcMahon
505/895 . . . . . . with regenerative heat exchanger
505/896 . . . . . . Special refrigerant compound
505/897 . . . . . . Cryogenic media transfer
505/898 . . . . . . Cryogenic envelope
505/899 . . . . . . Method of cooling
505/90 . . . . . . Heat exchange
505/901 . . . . . . Heat pipe
505/902 . . . . . . Railway, e.g. rapid transit
505/903 . . . . . . Suspension, e.g. magnetic, electrodynamic
505/904 . . . . . . Guidance means, i.e. in addition to the track
505/905 . . . . . . Motor structure
Earth boring, well treating, and oil field chemistry

507/00 Earth boring, well treating, and oil field chemistry
507/001 Organically modified inorganic solid
507/002 Controlled release agent
507/003 Crosslinked resin or polymer
507/004 Process of making fluids or additives therefor
507/005 Nontoxic composition
507/006 Solid inorganic additive in defined physical form
507/007 Indicating means, e.g. dye, fluorescing agent
507/01 Earth boring fluid devoid of discrete aqueous phase
507/02 Biocidal
507/021 Specified breaker component for emulsion or gel
507/022 Fracture fluid
507/023 Fracture acidizing
507/024 with specified propping feature
507/025 Completion or workover fluid
507/026 Packer fluid
507/027 Well cleaning fluid
507/028 Spacing slug or preflush fluid
507/029 Cleaning organic contaminant
507/03 Organic contaminant is asphaltic
507/031 Organic contaminant is paraffinic
507/032 Cleaning sulfur deposits
507/033 Acidizing or formation destroying
507/034 with inhibitor
507/035 Enhanced oil recovery

507/936 Flooding the formation
507/937 with emulsion
507/938 with microemulsion
507/939 Corrosion inhibitor
507/94 Freeing stuck object from wellbore

Drug, bio-affecting and body treating compositions

514/00 Drug, bio-affecting and body treating compositions
514/01 Ru 486, i.e. Ru 38486, Ru 486-6, mifepristone, mifeostone, mifegeyne, [11b-[4-[n, n-dimethylamino] phenyl]-17a-[[prop-1-ynyl]-4,9-estradiene-17b-ol-3-one, [11b,17b][[4-[dimethylamino]-phenyl]-17hydroxy-17-[1-propynyl] estra-4,9-dien-3-one]
514/80 LHRH like
514/801 Collagen, gelatin or derivatives thereof
514/802 Fibrinopeptides, blood-coagulation factors or derivatives
514/803 Kinin or derivatives
514/804 Phemycyn series or derivatives
514/805 Adrenocorticotropic hormone or derivatives
514/806 Somatostatin or derivatives
514/807 Oxytoxin, vasopressin or derivatives
514/808 Calcitonin or derivatives
514/809 Enkephalin or endorphin or derivatives
514/81 Addiction
514/811 Alcohol
514/812 Narcotic
514/813 Tobacco
514/814 Anemia
514/815 Sickle cell
514/816 Anesthetic, general
514/817 Anesthetic, topical
514/818 Anesthetic, local
514/819 Antacid, oral
514/82 with antiflatulent
514/821 Antiarrhythmic
514/822 Anticoagulation
514/823 Antidote
514/824 Arteriosclerosis
514/825 Arthritis
514/826 Asthma
514/827 Astringent, nonfacial
514/828 Topical for the skin
514/829 Bite or sting
514/83 insect
514/831 Nonpoisonous animal
514/832 Blood substitute
514/833 Blood plasma extender
514/834 Coagulant
514/835 Caries
514/836 Chelate
514/837 Cholera
514/838 Cirrhosis
514/839 Contact lens treatment
514/84 Chemical sterilizing
514/841 Contraceptive
514/842 Non-mammal
514/843 Female mammal
514/844 Cosmetic, facial
514/845 Liquid make-up
514/846 Cleansing cream or lotion

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Drug, bio-affecting and body treating compositions

- 514/847 . . Facial moisturizer
- 514/848 . . Facial astringent
- 514/849 . Cough and cold preparation
- 514/85 . . Antitussive
- 514/851 . Cystic fibrosis
- 514/852 . . Dandruff
- 514/853 . Decongestant
- 514/854 . . Vasoconstrictor
- 514/855 . . Expectorant
- 514/857 . Dermatitis
- 514/858 . . Athlete's foot
- 514/859 . . Acne
- 514/86 . . Cellulitis
- 514/861 . Eczema
- 514/862 . . Poison ivy, oak or sumac
- 514/863 . . Psoriasis
- 514/864 . . Seborrhea
- 514/865 . . Diaper rash
- 514/866 . . Diabetes
- 514/867 . Diarrhea
- 514/868 . . Distemper
- 514/869 . . Diuretic
- 514/87 . . Edema
- 514/871 . . Topical
- 514/872 . . Emesis, motion sickness-nausea
- 514/873 . Emollient
- 514/874 . . Estrogenic agent, noncontraceptive
- 514/875 . . Flea control
- 514/876 . . Collar type
- 514/877 . Gallstone
- 514/878 . . Geriatrics
- 514/879 . . Senility
- 514/88 . . Hair treatment, application to head or scalp
- 514/881 . . Shampoo
- 514/882 . . Hemorrhoid preparation
- 514/883 . . Hodgkin's disease
- 514/884 . . Hypoglycemia
- 514/885 . . Immune response affecting drug
- 514/886 . . Inflammation, skin
- 514/887 . . Topical treatment
- 514/888 . . Influenza
- 514/889 . . Interferon inducer
- 514/89 . . Irritant, e.g. tear gas
- 514/891 . . Kidney stone
- 514/892 . . Laxative
- 514/893 . . Liver disorder
- 514/894 . . Hepatitis
- 514/895 . Malaria
- 514/896 . Measles
- 514/897 . . Rubella
- 514/898 . . Meningitis
- 514/899 . Menstrual disorder
- 514/8995 . . Mouth treatment
- 514/90 . . Treatment or prevention of periodontis
- 514/901 . . Mouthwash for mouth treatment
- 514/902 . . Treatment or prevention of gingiva
- 514/903 . . Multiple sclerosis
- 514/904 . . Multiple vitamins
- 514/905 . . with mineral
- 514/906 . Muscle relaxant
- 514/907 . Muscular dystrophy
- 514/908 . . Leukemia
- 514/909 . . Obesity
- 514/91 . . Anorectic
- 514/911 . . Bulking agent
- 514/912 . . Ophthalmic
- 514/913 . . Glaucoma
- 514/914 . . Inflammation
- 514/915 . . Wetting agent
- 514/916 . Pyretic
- 514/917 . . Radioactive, anti-
- 514/918 . . Repellent
- 514/919 . . Insect
- 514/92 . . Mammal
- 514/921 . . Shock
- 514/922 . . Side effect reduction by incorporation of a second designated ingredient
- 514/923 . . Sleep aid
- 514/924 . . Tuberculosis
- 514/925 . . Ulcer treatment
- 514/926 . . . Duodenal
- 514/927 . . . Peptic
- 514/928 . . Topical
- 514/929 . Vasoconstrictor, nondecongestant
- 514/93 . . Vasoconstrictor, nondecongestant
- 514/931 . Veneral disease
- 514/932 . . Gonorrhea
- 514/933 . . Syphilis
- 514/934 . . Virus
- 514/935 . . Uterine motility
- 514/936 . Dmso containing
- 514/937 . . . Dispersion or emulsion
- 514/938 . . . Oil-water type
- 514/939 . . . . Mineral oil-water type
- 514/94 . . . Quick break type
- 514/941 . . . . Polyoxyalkylated compound containing
- 514/942 . . . . . Organic sulfonate, sulfate or sulfite containing
- 514/943 . . . . . . Higher fatty acid or derivative containing
- 514/944 . . Gel
- 514/945 . . Foam
- 514/946 . . Penetrant or absorbent, increases or enhances penetration into subject treated
- 514/947 . . . Topical application
- 514/948 . . . Solid candy type
- 514/949 . . . Naturally derived clay, e.g. bentonite
- 514/95 . . . Macromolecular, other than synthetic resins
- 514/951 . . . Powders, granules or particles of specified mesh or particle size
- 514/952 . . . Wettable
- 514/953 . . . . Shaped forms adapted for noningestible use other than suppository type, e.g. films, inserts
- 514/954 . . . . Ocular
- 514/955 . . . . Biodegradable type
- 514/956 . . . . . Aural or otic, i.e. ear
- 514/957 . . . . . Vapor emitting composition
- 514/958 . . . . for smoking or inhaling
- 514/959 . . . . Breathing gases
- 514/96 . . . Significant, tablet formulation, e.g. designated excipient, disintegrant, glydent or lubricant
- 514/961 . . . Binder therefor
- 514/962 . . Capsule, e.g. gelatin
- 514/963 . . . Microcapsule-sustained or differential release
Drug, bio-affecting and body treating compositions

514/964 . Sustained or differential release type
514/965 . Discrete particles in supporting matrix
514/966 . Rectal
514/967 . Vaginal
514/968 . Urethral
514/969 . Ointment or salve base
514/97 . Containing designated ingredient to stabilize an active ingredient
514/971 . Crystallization point depressant or cold stabilizer containing
514/972 . Ultraviolet light stabilizer containing
514/973 . Sulfur compound additive as stabilizer, e.g. sulfites
514/974 . Containing designated ingredient to reduce noxious effects of active ingredient, e.g. taste masking, odor reducing
514/975 . Characterized by the designated surfactant used

**Colloid systems and wetting agents; subcombinations thereof; processes of**

516/00 Colloid systems and wetting agents; subcombinations thereof; processes of
516/01 . Wetting, emulsifying, dispersing, or stabilizing agents
516/02 . Organic and inorganic agents containing, except water
516/03 . Organic sulfoxyl compound containing
516/04 . Protein or carboxylic compound containing
516/05 . Organic amine, amide, or n-base containing
516/06 . Protein or carboxylic compound containing
516/07 . Organic amine, amide, or n-base containing
516/09 . Liquid crystal material of, or for, colloid system, e.g. g phase
516/091 . Substantially pure carbon, e.g. graphite, lamp black, carbon black, fullerences
516/092 . Gelled emulsion
516/093 . Two or more gellants
516/094 . Fermentation foam breaking or inhibiting
516/095 . Agent composition per se for colloid system making or stabilizing, e.g. foaming, emulsifying, dispersing, or gelling
516/096 . The agent contains organic compound containing silicon
516/097 . The agent contains organic compound containing phosphorus, e.g. lecithin
516/098 . The compound contains repeating -OCnH2n-, i.e. repeating unsubstituted oxyalkylene
516/099 . The agent contains organic compound containing sulfoxyl
516/91 . The compound contains nitrogen, except if present solely as NH4+
516/911 . The compound contains -S(O)2NH where substitution may be made for the hydrogen
516/912 . The compound contains -C≡O NH where substitution may be made for the hydrogen
516/913 . The compound contains -C≡O OH or salt thereof
516/914 . The agent contains organic compound containing nitrogen, except if present solely as NH4+
516/915 . The compound contains -C≡O NH where substitution may be made for the hydrogen
516/916 . The compound contains repeating -OCnH2n-, i.e. repeating unsubstituted oxyalkylene
516/917 . The agent contains organic compound containing oxygen
516/918 . The compound contains carboxylic acid ester group
516/919 . The compound contains -C≡O OH or salt thereof
516/92 . The compound contains repeating unsubstituted oxyalkylene
516/921 . Colloid systems having specified high purity, e.g. ultra-pure silica
516/922 . Colloid systems having specified particle size, range, or distribution, e.g. bimodal particle distribution
516/923 . Emulsion
516/924 . Significant dispersive or manipulative operation or step in making or stabilizing colloid system
516/925 . Phase inversion
516/926 . Phase change, e.g. melting
516/927 . in situ formation of a colloid system making or stabilizing agent which chemical reaction
516/928 . Mixing combined with non-mixing operation or step, successively or simultaneously, e.g. heating, cooling, pH change, ageing, milling
516/929 . Specified combination of agitation steps, e.g. mixing to make subcombination composition followed by homogenization
516/93 . Low shear followed by high shear
516/931 . High shear followed by low shear

**Synthetic resins or natural rubbers -- part of the class 520 series**

521/00 Synthetic resins or natural rubbers -- part of the class 520 series
521/001 . Cellular polymer containing a carbodiimide structure
521/002 . Cellular polymer containing an isocyanurate structure
521/003 . Cellular polymer having reduced smoke or gas generation
521/004 . Polyurethane cellular product having high resiliency or cold cure property
521/005 . Hydrophilic or hydrophobic cellular product
521/006 . Polyurethane cellular product containing unreacted flame-retardant material
521/007 . Nonurethane flameproofed cellular product
521/008 . Nucleating agent for cellular product
521/009 . Blowing-agent moderator, e.g. kickers
521/1 . Plural blowing agents for producing nonpolyurethane cellular products
521/11 . Sintered product
521/12 . Separated reactive materials utilized in preparing cellular product
521/13 . Cell forming in absence of external heat
521/14 . Polyurethane cellular product formed from a polyol which has been derived from at least two 1,2 epoxides as reactants
521/15 . Utilizing electrical or wave energy during cell forming process
521/16 . Cellular product having enhanced degradability
521/17 . Specialized mixing apparatus utilized in cell forming process
521/18 . Physical aftertreatment of a cellular product
521/19 . Sintered product
Synthetic resins or natural rubbers -- part of the class 520 series

524/00 Synthetic resins or natural rubbers -- part of the class 520 series
524/90 . Antigen-antibody
524/901 . Electrodeposable compositions
524/902 . Electrostatic spray
524/903 . Aerosol compositions
524/904 . Powder coating compositions
524/905 . Etch masking compositions
524/906 . Multipackage compositions
524/907 . Additive of specified shape other than fiber, particle, or powder
524/908 . Composition having specified shape, e.g. rod, stick, or ball, and other than sheet, film, or fiber
524/909 . Reverse osmosis membrane compositions, e.g. desalination
524/91 . Antistatic compositions
524/911 . Composition to apply to a substrate to be destaticized
524/912 . Contains metal, boron, phosphorus, or silicon
524/913 . Contains nitrogen nonreactant material
524/914 . Floor covering compositions
524/915 . Carpet backing adhesives
524/916 . Hydrogel compositions
524/917 . Oil spill recovery compositions
524/918 . Wood patching composition
524/919 . Metal patching composition, e.g. body solder
524/92 . Coilable pipe compositions
524/921 . Elastic memory or heat shrinkable compositions
524/922 . Flocculating, clarifying, or fining compositions
524/923 . Treating or preparing a nonaqueous dispersion or emulsion of a solid polymer or specified intermediate condensation product
524/924 . Treating or preparing a nonaqueous solution of a solid polymer or specified intermediate condensation product
524/925 . Natural rubber compositions having nonreactive materials, i.e. NRM, other than: carbon, silicon dioxide, glass titanium dioxide, water, hydrocarbon or halohydrocarbon
524/926 . with water as NRM, exemplified
524/929 . Natural rubber broadly disclosed, nonclaimed

Synthetic resins or natural rubbers -- part of the class 520 series

525/00 Synthetic resins or natural rubbers -- part of the class 520 series
525/01 . Radial block
525/02 . Core-shell
525/03 . Interpenetrating network
525/04 . Activation of preformed polymer in absence or monomer, for subsequent polymerization thereon, e.g. trapped radicals
525/05 . Polyphenylene oxide
525/06 . Polysulfone
525/07 . Polycarboxamide
525/08 . Polycaprolactam
525/09 . Polymer containing a hydantoin group
525/10 . Polymer having a heterocyclic ring with at least three different elements within the ring
525/11 . Polymer from ethylenic monomers only, having terminal unsaturation
525/12 . Polymer from ethylenic monomers only, having terminal functional group other than unsaturation
525/13 . Polymer from nonethylenic monomers only, having pendant unsaturated group
525/14 . Polymer from monomers only having pendant glycidyl group
525/15 . Polymer from conjugated diene hydrocarbon or halohydrocarbons having more than 50 per cent 1,2-microstructure
525/16 . Polymer from monoethylenic cyclic hydrocarbon
525/17 . Polymer from ethylenic monomers only, having cationic group
525/18 . Polymer from at least one nonethylenic monomer having cationic group
525/19 . Polymer prepared by cationic polymerization
525/20 . Ionomer resins, carboxylate salt-containing copolymers
525/21 . Polyeuthane having terminal ethylenic unsaturation
525/22 . Polyurethane having terminal ethylenic unsaturation other than polyetherurethanes
525/23 . Polyether urethane having been reacted to yield terminal ethylenic unsaturation
525/24 . Phenoplast having terminal ethylenic unsaturation
525/25 . Polymer from at least one nonethylenic monomer having terminal ethylenic unsaturation other than polyurethanes, polysters, polyepoxides, aminoplasts, and phenoplasts
525/26 . Polyamide containing a plurality of oxalkylene groups
525/27 . Polyamide admixed with oxalkylene-containing polymer
525/28 . Polyamide or polyamide-acid formed by condensation of a polyamine with a polycarboxylic acid having at least three carboxyl groups or derivatives thereof
525/29 . Polyimide formed by addition of polyamine to an unsaturated bis-imide
Synthetic resins or natural rubbers -- part of the class 520 series

526/00 Synthetic resins or natural rubbers -- part of the class 520 series

526/901 Monomer polymerized in vapor state in presence of transition metal containing catalyst
526/902 Monomer polymerized in bulk in presence of transition metal containing catalyst
526/903 Monomer polymerized in presence of transition metal containing catalyst and hydrocarbon additive affecting polymer properties of catalyst activity
526/904 Monomer polymerized in presence of transition metal containing catalyst at least part of which is supported on a polymer, e.g. prepolymerized catalysts
526/905 Polymerization in presence of transition metal containing catalyst in presence of hydrogen
526/906 Commination of transition metal containing catalyst
526/907 Specified means of reacting components of transition metal catalyst
526/908 Containing catalyst of specified particle size
526/909 Polymerization characterized by particle size of product
526/91 Suspending agents
526/911 Emulsifying agents
526/912 Reaction medium purification
526/913 Vapor phase polymerization in absence of transition metal containing catalyst
526/914 Polymer degradation
526/915 Redox catalyst
526/916 Interpolymer from at least three ethylenically unsaturated monoolesfinic hydrocarbon monomers
526/917 Manipulative processes involving a sulfur-containing treating agent
526/918 Polymerization reactors for addition polymer preparation
526/919 Catalyst injection technique in addition polymerization processes
526/92 Apparatus for use in addition polymerization processes
526/921 Time cycle used in addition polymerization process control
526/922 Polymerization process of ethylenic monomers using manipulative technique

526/923 Ethylenic monomers containing at least one salt group
526/92 Water swellable or hydrophilic
526/931 Pressure sensitive adhesive
526/932 Thickener or dispersant for aqueous system
526/933 Detergent property or lubricant additive
526/934 Electrodeposit, e.g. electrophoretic, xerographic
526/935 Hot melt adhesive
526/936 Physiological use, e.g. pharmaceutical, veterinary, dental
526/937 Optical clarity
526/938 Rubbery property
526/939 Moisture proof or hydrophobic
526/94 High softening temperature, e.g. exposure to boiling water, boilable
526/941 having the transition metal bonded directly to carbon
526/942 Polymerization in the presence of a liquid co2 diluent
526/943 Polymerization with metallocene catalysts

Chemistry: natural resins or derivatives; peptides or proteins; lignins or reaction products thereof

530/00 Chemistry: natural resins or derivatives; peptides or proteins; lignins or reaction products thereof

530/80 Antihypertensive peptides
530/801 Peptide sweeteners
530/802 Chromogenic or luminescent peptides
530/806 Antigenic peptides or proteins
530/807 Hapten conjugated with peptide or protein
530/808 Materials and products related to genetic engineering or hybrid or fused cell technology, e.g. hybridoma, monoclonal products
530/809 Fused cells, e.g. hybridoma
Chemistry: natural resins or derivatives; peptides or proteins; lignins or reaction products thereof

Organic compounds -- part of the class 532-570 series

534/00 Organic compounds -- part of the class 532-570 series

534/01 Mixtures of azo compounds
534/02 Azo compounds containing chains of eight or more carbon atoms not provided for elsewhere in this class
534/03 Polymeric azo compounds or azo compounds containing polymeric moieties
534/04 Azo compounds which are lakes
534/05 Azo compounds having utility other than as dyes
534/06 Azo compounds containing -NO-, -N=N-, or -SO2 groups
534/07 Automatic and/or continuous temperature control in the preparation of azo compounds
534/08 Elimination of groups during the preparation of azo compounds
534/09 Azo compounds containing ternary sulfonium groups
534/10 Azo compounds containing formaldehyde reaction product as the coupling component

Chemistry of hydrocarbon compounds

585/00 Chemistry of hydrocarbon compounds

585/8995 Catalyst and recycle considerations
585/90 Rehabilitation of H acceptor
585/901 with recycle, rehabilitation, or preservation of solvent, diluent, or mass action agent
585/902 Recycle of solvent and catalyst
585/903 with hydrocarbon recycle to control synthesis reaction, e.g. by cooling, quenching
585/904 Catalyst rehabilitation by reversion from different compound
585/905 by-product conversion to feed
585/906 Catalyst preservation or manufacture, e.g. activation before use
585/909 Heat considerations
585/91 Exploiting or conserving heat of quenching, reaction, or regeneration
585/911 introducing, maintaining, or removing heat by atypical procedure
585/912 Molen material
585/913 Electric
585/914 Phase change, e.g. evaporation
585/919 Apparatus considerations
585/92 using apparatus of recited composition
585/921 using recited apparatus structure
585/922 Reactor fluid manipulating device
585/923 At reactor inlet
585/924 Reactor shape or disposition
585/925 Dimension or proportion
585/926 Plurality or verticality
585/929 Special chemical considerations
601/19 . . including biological sensor
601/20 . Flexible membrane caused to be moved
601/21 . Kinesitherapy with computer control
601/22 . . Applicator having computer motion control
601/23 . . including biological sensors

Surgery: splint, brace, or bandage

602/00 Surgery: splint, brace, or bandage
602/90 . Method of making bandage structure
602/901 . Tubular bandage applicators
602/902 . Antisnorring or mouth closing devices
602/903 . Surgical tape
602/904 . Film-forming bandage material

Surgery

604/00 Surgery
604/90 . Telltale showing entry of blood into body inserted conduit
604/901 . Injection device with thermometer
604/902 . Suction wands
604/903 . Medical container with material agitation means
604/904 . Tampons
604/905 . Aseptic connectors or couplings, e.g. frangible, piercable
604/906 . Artificial insemination

Surgery

606/00 Surgery
606/90 . Lumbar stabilizer
606/901 . Thoracic stabilizer
606/902 . Cortical plate specifically adapted for a particular bone
606/903 . . Cranial and facial plate
606/904 . . . Jaw plate
606/905 . . Rib or sternum plate
606/906 . . Small bone plate
606/907 . . Composed of particular material or coated
606/908 . . Bioabsorbable material
606/909 . . Bone
606/91 . . Polymer
606/911 . . Memory material
606/912 . . Radiolucent material
606/913 . . Monolithic
606/914 . . Toolkit for installing or removing spinal positioner or stabilizer
606/915 . . Toolkit for installing or removing cortical plate
606/916 . . Tool for installing or removing orthopedic fastener

Surgery: light, thermal, and electrical application

607/00 Surgery: light, thermal, and electrical application
607/90 . Substance abuse therapy
607/901 . Cancer detection
607/902 . Fetal monitoring other than heart rate

Prosthesis, i.e. artificial body members, parts thereof, or aids and accessories therefor

623/00 Prosthesis, i.e. artificial body members, parts thereof, or aids and accessories therefor
623/90 . Stent for heart valve
623/901 . Method of manufacturing prosthetic device
623/00 . Method of implanting
623/01 . Blood vessel
623/02 . Heart
623/03 . Eye
623/04 . Corneal
623/05 . Method of manipulating parts of intraocular lens structure for implantation
623/06 . Bone
623/07 . Method or apparatus for assembling prosthetic
623/08 . Heart
623/09 . Bone
623/10 . Method or apparatus for measuring or testing prosthetic
623/11 . Heart
623/12 . Bone
623/13 . Method or apparatus for preparing biological material
623/15 . Collagen
623/16 . Material characteristic
623/17 . Natural
623/18 . Synthetic

**Data processing: generic control systems or specific applications**

700/00 Data processing: generic control systems or specific applications
700/01 Special robot structural element

**Data processing: financial, business practice, management, or cost/price determination**

705/00 Data processing: financial, business practice, management, or cost/price determination
705/01 Digital rights management
705/02 Licensing digital content
705/03 Adding plural layer of rights or limitations by other than the original producer
705/04 Usage protection of distributed files
705/05 Hardware usage protection
705/06 Requiring a supplemental attachment or input, e.g. Dongle, to open
705/07 Specific computer id, e.g. serial number, configuration
705/08 Software or content usage protection
705/09 Usage charge determination
705/10 Including third party for collecting or distributing payment, e.g. Clearing house
705/11 Copy protection or prevention
705/12 Having origin or program id

**Data processing: artificial intelligence**

706/00 Data processing: artificial intelligence
706/01 Fuzzy logic
706/02 Application using ai with detail of the ai system
706/03 Control
706/04 Manufacturing or machine, e.g. agricultural machinery, machine tool
706/05 Vehicle or aerospace
706/06 Process plant
706/07 Power plant
706/08 Electronic or computer, internal or network, circuit
706/09 Communication
706/10 Elevator
706/11 Nonmedical diagnostics
706/12 Manufacturing or machine, e.g. agricultural machinery, machine tool
706/13 Vehicle or aerospace
706/14 Process plant
706/15 Power plant
706/16 Electronic or computer, internal or network, circuit
706/17 Communication
706/18 Elevator
706/19 Designing, planning, programming, CAD, CASE
706/20 Simulation
706/21 Layout, e.g. circuit, construction
706/22 Computer program preparation
706/23 Construction
706/24 Medical
706/25 Business
706/26 Time management
706/27 Education or instruction
706/28 Earth science
706/29 Geological, e.g. seismology
706/30 Environment
706/31 Weather
706/32 Mathematics, science, or engineering
706/33 Law, law enforcement, or government
706/34 Information retrieval or Information management

**Data processing: database and file management or data structures**

707/00 Data processing: database and file management or data structures
707/01 Applications of a database
707/02 Multimedia
707/03 Video
707/04 Image
707/05 Audio
707/06 Text
707/07 Location
707/08 Geographic
707/09 Navigation
707/10 Spatial
707/11 Communications
707/12 Intellectual property
707/13 Patent procedure
707/14 Drafting an application
707/15 Drafting drawing or figures
707/16 Validation
707/17 Electronic submission
707/18 Docketing
707/19 Intellectual property analysis
707/20 Patent comparison
707/21 Infringement detection
Data processing: database and file management or data structures

707/933 . . . Citation analysis
707/934 . . . Analyzing patent activity
707/935 . . . Company or stock valuation
707/936 . . . for use in research and development
707/937 . . . intellectual property searching
707/938 . . . intellectual property markets
707/939 . . . Idea solicitation
707/94 . . . Infrastructure
707/941 . . . Human sciences
707/942 . . . Legal/academic
707/943 . . . News
707/944 . . . Business related
707/945 . . . Contract negotiation
707/946 . . . Real estate
707/947 . . . Human resources
707/948 . . . Product or catalog
707/949 . . . Inventory
707/95 . . . Financial
707/951 . . . Calendar or scheduling
707/952 . . . Malicious software
707/953 . . Organization of data
707/954 . . . Relational
707/955 . . . Object-oriented
707/956 . . . Hierarchical
707/957 . . . Multidimensional
707/958 . . . Data cubes
707/959 . . . Network
707/96 . . . Object-relational
707/961 . . . Associate
707/962 . . . Entity-attribute-value
707/963 . . . Hybrid
707/964 . . . Database arrangement
707/965 . . . Standalone
707/966 . . . Distributed
707/967 . . . Peer-to-peer
707/968 . . . Partitioning
707/969 . . . Horizontal partitioning
707/97 . . . Vertical partitioning
707/971 . . . Federated
707/972 . . . Partitioning
707/973 . . . Horizontal partitioning
707/974 . . . Vertical partitioning
707/975 . . . Portable database architecture
707/99931 . . . Database or file accessing
707/99932 . . . Access augmentation or optimizing
707/99933 . . . Query processing, i.e. searching
707/99934 . . . Query formulation, input preparation, or translation
707/99935 . . . Query augmenting and refining, e.g. inexact access
707/99936 . . . Pattern matching access
707/99937 . . . Sorting
707/99938 . . . Concurrency, e.g. lock management in shared database
707/99939 . . . Privileged access
707/9994 . . . Distributed or remote access
707/99941 . . . Database schema or data structure
707/99942 . . . Manipulating data structure, e.g. compression, compaction, compilation
707/99943 . . . Generating database or data structure, e.g. via user interface
707/99944 . . . Object-oriented database structure
707/99945 . . . Object-oriented database structure processing
707/99946 . . . Object-oriented database structure network
707/99947 . . . Object-oriented database structure reference
707/99948 . . . Application of database or data structure, e.g. distributed, multimedia, or image
707/99951 . . . File or database maintenance
707/99952 . . . Coherency, e.g. same view to multiple users
707/99953 . . . Recoverability
707/99954 . . . Version management
707/99955 . . . Archiving or backup
707/99956 . . . File allocation
707/99957 . . . Garbage collection

Data processing: presentation processing of document, operator interface processing, and screen saver display processing

715/00 . . . Data processing: presentation processing of document, operator interface processing, and screen saver display processing
715/961 . . . Operator interface with visual structure or function dictated by intended use
715/962 . . . Operator interface for marketing or sales
715/963 . . . Calendar or scheduling
715/964 . . . CAD or CAM, e.g. interactive design tools
715/965 . . . for process control and configuration
715/966 . . . Computer process, e.g. operation of computer
715/967 . . . Visual or iconic programming
715/968 . . . Interface for database querying and retrieval
715/969 . . . Network layout and operation interface
715/97 . . . Instrumentation and component modelling, e.g. interactive control panel
715/9701 . . . Amusement or marital aid interface
715/971 . . . Cooperative decision support systems for group of users
715/972 . . . Inserted real-time video in operator interface
715/973 . . . Scroll tool, e.g. window scroll bar
715/974 . . . Slider control as on-screen object in operator interface
715/975 . . . Pop-up dialog box for entry
715/976 . . . 3-D Icon
715/977 . . . Dynamic icon, e.g. animated or live action
715/978 . . . Audio interaction as part of an operator interface

Robots

901/00 . . . Robots
901/01 . . . Mobile robot
901/02 . . . Arm motion controller
901/03 . . . Teaching system
901/04 . . . Manual lead through
901/05 . . . Machine driven lead through
901/06 . . . Communication with another machine
901/07 . . . Conveyor
901/08 . . . Robot
901/09 . . . Closed loop, sensor feedback controls arm movement
901/10 . . . Sensor physically contacts and follows work contour
901/11 . . . Mechanically actuated present limit
901/12 . . . Cam
901/13 . . . Limit switch
901/14 . . . Arm movement, spatial
901/15 . . . Jointed arm
901/16 . . . Cartesian, three degrees of freedom
Robots

Electronic funds transfer

902/00  Electronic funds transfer
902/01  with electronic means providing security
902/02  Protects transmitted data, e.g. encryption or decryption
902/03  Evaluates biometrics
902/04  Means to read data stored on identifier*
902/05  And to verify identity of user*
902/06  Image processor, e.g. video camera
902/07  Means to identify counterfeit money
902/08  Terminal* with means permitting deposit or withdrawal, e.g. ATM
902/09  with secure receptacle, e.g. safe, depository
902/10  Remote from terminal
902/11  And value discriminator
902/12  Serving as both depository and source for, e.g. note dispensing recycling
902/13  Dispensing, e.g. money cassette
902/14  with cash dispenser
902/15  including currency feeder
902/16  Sensitive to erroneous passage of plural bills
902/17  with particular feeder or counter feature
902/18  with printer
902/19  And page turner
902/20  with specific data input means, e.g. keyboard
902/21  with specific data output means or indicator
902/22  Terminal* registers transaction*, e.g. point of sale terminal*
902/23  for entertainment, amusement, or gambling
902/24  for use with general purpose terminal*, e.g. home banking
902/25  Specific identifier*, e.g. bank card
902/26  including semiconductor chip, e.g. smart card
902/27  Magnetically encoded
902/28  Designed to resist counterfeiting
902/29  Specific process of manufacture
902/30  Support or enclosure, e.g. kiosk
902/31  Selectively prevents access to terminal*
902/32  for plurality of terminals*
902/33  for drive-in installation
902/34  Collapsible
902/35  Accommodates user, i.e. walk-in enclosure
902/36  Paper supply, e.g. receipt
902/37  System*
902/38  Error or fault recovery
902/39  Particular communication feature
902/40  Transaction* processing
902/41  Miscellaneous

Hybrid electric vehicles, HEVS

903/00  Hybrid electric vehicles, HEVS
903/02  Prime movers comprising electrical and internal combustion motors
903/03  having energy storing means, e.g. battery, capacitor
903/04  Component specially adapted for hev
903/05  Combustion engine
903/06  Motor or generator
903/07  Electricity storage, e.g. battery, capacitor
903/08  Fuel cell
903/09  Gearing
903/10  Orbital, e.g. planetary gears
903/11  with two or more gear sets
903/12  Drive line clutch
903/13  One way
903/14  Actuated, e.g. engaged or disengaged by electrical, hydraulic or mechanical means
903/15  Specific drive or transmission adapted for hev
903/16  with plurality of drive axles
903/17  with transmission for changing gear ratio
903/18  Continuously variable
903/19  Stepped shift
903/21  Conjoint control of different elements
903/22  Characterized by control of fuel cell
903/23  Characterized by control of gearing, e.g. control of transmission ratio
903/24  Characterized by control of driveline clutch
903/25  Characterized by control of braking, e.g. blending of regeneration, friction braking
903/26  Assembly or relative location of components
903/27  Housing details
903/28  having chargeable mechanical accumulator

Peptide or protein sequence

930/00  Peptide or protein sequence
Peptide or protein sequence

930/01 . Peptide or protein sequence
930/02 . Containing modified or unusual amino acid
930/021 . Containing D-amino acid
930/022 . Containing radioactive atom
930/023 . Containing halogen
930/024 . Containing sulfur
930/025 . Containing heavy metal or salt thereof
930/03 . Linear peptide or protein containing a nonpeptide or abnormal peptide link
930/031 . Retro-inverted
930/04 . Angiotensin; related peptides
930/05 . Atrial or brain natriuretic peptide; related peptides
930/06 . Calcitonin; related peptides
930/07 . Corticotropin; related peptides
930/08 . Endorphin or enkephalin; related peptides
930/09 . Erythropoietin; related peptides
930/10 . Factor VIII, AWF; related peptides
930/11 . Gonadotropin; related peptides
930/12 . Growth hormone, growth factor other than t-cell or b-cell growth factor, and growth hormone releasing factor; related peptides
930/13 . Luteinizing hormone-releasing hormone; related peptides
930/14 . Lymphokine; related peptides
930/141 . Interleukin
930/142 . Interferon
930/143 . Lymphotixin
930/144 . Tumor necrosis factor
930/145 . Colony stimulating factor
930/15 . Oxytocin or vasopressin; related peptides
930/16 . Somatostatin; related peptides
930/17 . Vasoactive intestinal peptides; related peptides
930/18 . Thymus derived hormone or factor; related peptides
930/19 . Antibiotic
930/20 . Bacterial peptide or bacterial protein
930/21 . Parasitic peptide or parasitic protein
930/22 . Viral peptide or viral protein
930/221 . Retrovirus related, or human immunodeficiency virus related, or simian immunodeficiency virus related
930/222 . Foot and mouth disease related
930/223 . Hepatitis related
930/224 . Herpes related
930/23 . Multicellular plant peptide or multicellular plant protein
930/24 . Enzyme or isoenzyme
930/25 . Enzyme inhibitor
930/26 . Containing cys-cys disulfide bridge between nonadjacent cysteine residues
930/27 . Cyclic peptide or cyclic protein
930/28 . Bound to a nonpeptide drug, nonpeptide label, nonpeptide carrier, or a nonpeptide resin
930/29 . Polyamino acid or polypeptide with an uninterrupted series of peptide repeating units
930/30 . Signal or leader sequence
930/31 . Linker sequence
930/32 . Modification to prevent enzymatic degradation

Nanotechnology

977/00 Nanotechnology
977/01 . Integrated with dissimilar structures on a common substrate
977/02 . Having biological material component
977/03 . Cellular
977/04 . Nucleic acids, e.g. DNA or RNA
977/05 . Protein or peptide
977/06 . Carbohydrate
977/07 . Having different types of nanoscale structures or devices on a common substrate
977/08 . With distinct switching device
977/09 . Including molecular switching device
977/1 . Biological switching
977/11 . Nucleic acid switching
977/12 . Formed from plural layers of nanosized material, e.g. stacked structures
977/13 . Including lipid layer
977/14 . Containing protein
977/15 . On an organic substrate
977/16 . Biological cell surface
977/17 . Lipid substrate
977/18 . Carbohydrate substrate
977/19 . Nucleic acid substrate
977/2 . On an electrically conducting, semi-conducting, or semi-insulating substrate
977/21 . On a silicon substrate
977/22 . On a metal substrate
977/23 . On an electrically insulating substrate
977/24 . Devices having flexible or movable element
977/25 . Nanomotor/nanoactuator
977/26 . Using chemical reaction/biological energy, e.g. ATP
977/27 . Formed from biological material
977/28 . Nucleic acids, e.g. DNA or RNA
977/29 . From protein or unit thereof, e.g. enzyme or carboxyl group
977/3 . For electrical purposes
977/31 . Formed from a single atom, molecule, or cluster
977/32 . Nanocantilever
977/33 . Nanodiaphragm
977/34 . Fullerenes, i.e. graphene-based structures, such as nanohorns, nanococonuts, nanorolls or fullerene-like structures, e.g. WS<sub>2</sub> or MoS<sub>2</sub> chalcogenide nanotubes, planar C<sub>N</sub>N<sub>M</sub><sub>_x</sub>, etc.
977/35 . Carbon buckyball
977/36 . Having atoms interior to the carbon cage
977/37 . Having a modified surface
977/38 . Modified with biological, organic, or hydrocarbon material
977/39 . Modified with an enzyme
977/4 . Modified with atoms or molecules bonded to the surface
977/41 . Modified with dissimilar atom or molecule substituted for carbon atoms of the buckyball, e.g. impurity doping or compositional substitution
977/42 . Carbon nanotubes, CNTs
977/43 . Having specified tube end structure, e.g. close-ended shell or open-ended tube
977/44 . Having atoms interior to the carbon cage
977/45 . Having a modified surface
977/46 . Modified with biological, organic, or hydrocarbon material
Nanochemistry

977/747 . . . . . Modified with an enzyme
977/748 . . . . . Modified with atoms or molecules bonded to the surface
977/749 . . . . . Modified with dissimilar atoms or molecules substituted for carbon atoms of the cnt, e.g. impurity doping or compositional substitution
977/75 . . . . . Single-walled
977/751 . . . . . with specified chirality and/or electrical conductivity
977/752 . . . . . Multi-walled
977/753 . . . . . with polymeric or organic binder
977/754 . . . . . Dendrimer, i.e. serially branching or "tree-like" structure
977/755 . . . . . Nanosheet or quantum barrier/well, i.e. layer structure having one dimension or thickness of 100 nm or less
977/756 . . . . . Lipid layer
977/757 . . . . . . Layer containing protein
977/758 . . . . . Mono-atomic layer on delta-doped sheet
977/759 . . . . . Quantum well dimensioned for intersubband transitions, e.g. for use in unipolar light emitters or quantum well infrared photodetectors
977/76 . . . . . Superlattice with graded effective bandgap, e.g. "chirp-graded" superlattice
977/761 . . . . . Superlattice with well or barrier thickness adapted for increasing the reflection, transmission, or filtering of carriers having energies above the bulk-form conduction or valence band energy level of the well or barrier, i.e. well or barrier with n-integer-carrier-width thickness
977/762 . . . . . Nanowire or quantum wire, i.e. axially elongated structure having two dimensions of 100 nm or less
977/763 . . . . . formed along or from crystallographic terraces or ridges
977/764 . . . . . with specified packing density
977/765 . . . . . with specified cross-sectional profile, e.g. belt-shaped
977/766 . . . . . Bent wire, i.e. having nonlinear longitudinal axis
977/767 . . . . . Mesh structure
977/768 . . . . . Helical wire
977/769 . . . . . . formed with nucleic acid
977/77 . . . . . . . formed with polyamide polymers
977/771 . . . . . Nanoring
977/772 . . . . . . . formed from circular biomolecule, e.g. DNA, heme, chelators
977/773 . . . . . Nanoparticle, i.e. structure having three dimensions of 100 nm or less
977/774 . . . . . Exhibiting three-dimensional carrier confinement, e.g. quantum dots
977/775 . . . . . Nanosized powder or flake, e.g. nanosized catalyst
977/776 . . . . . Ceramic powder or flake
977/777 . . . . . Metallic powder or flake
977/778 . . . . . within specified host or matrix material, e.g. nanocomposite films
977/779 . . . . . Possessing nanosized particles, powders, flakes, or clusters other than simple atomic impurity doping
977/78 . . . . . Possessing fully enclosed nanosized voids or physical holes
977/781 . . . . . Possessing nanosized surface openings that extend partially into or completely through the host material
977/782 . . . . . Possessing nanosized physical convexity, ridge, or protrusion extending upward from the host's surface
977/783 . . . . . Organic host/matrix, e.g. lipid
977/784 . . . . . Electrically conducting, semi-conducting, or semi-insulating host material
977/785 . . . . . Electrically insulating host material
977/786 . . . . . Fluidic host/matrix containing nanomaterials
977/787 . . . . . Viscous fluid host/matrix containing nanomaterials
977/788 . . . . . Of specified organic or carbon-based composition
977/789 . . . . . in array format
977/79 . . . . . with heterogeneous nanostructures
977/791 . . . . . Molecular array
977/792 . . . . . Nucleic acid array, e.g. human genome array
977/793 . . . . . Protein array
977/794 . . . . . Chemical library array
977/795 . . . . . . Composed of biological material
977/796 . . . . . . for electrical or electronic purpose
977/797 . . . . . Lipid particle
977/798 . . . . . having internalized material
977/799 . . . . . Containing biological material
977/80 . . . . . . Nucleic acid, e.g. DNA or RNA
977/801 . . . . . Drug
977/802 . . . . . Virus-based particle
977/803 . . . . . Containing biological material in its interior
977/804 . . . . . Containing nucleic acid
977/805 . . . . . Containing drug
977/806 . . . . . with exterior chemical attachment
977/807 . . . . . Exterior attachment for detection
977/808 . . . . . Exterior attachment for targeting, e.g. drug targeting
977/809 . . . . . Organic film on silicon
977/81 . . . . . Of specified metal or metal alloy composition
977/811 . . . . . Of specified metal oxide composition, e.g. conducting or semiconducting compositions such as ITO, ZnOx
977/812 . . . . . Perovskites and superconducting composition, e.g. BaSr1-xTiO3
977/813 . . . . . Of specified inorganic semiconductor composition, e.g. periodic table group IV-VI compositions
977/814 . . . . . Group IV based elements and compounds, e.g. CxSyZxGy, porous silicon
977/815 . . . . . Group III-V based compounds, e.g. AlGaInNPs, As,
977/816 . . . . . III-N based compounds, e.g. AlGaNInN
977/817 . . . . . High-indium-content InGaN pooling or clusters
977/818 . . . . . III-P based compounds, e.g. AlxGayIn2P
977/819 . . . . . III-As based compounds, e.g. AlxGayInAs
977/82 . . . . . . III-5b based compounds, e.g. AlxGayIn5b
977/821 . . . . . Mixed group V compounds, e.g. III-NxPy
977/822 . . . . . Boron-containing compounds
977/823 . . . . . Ti-containing or Bi-containing compounds
977/824 . . . . . Group II-VI nonoxide compounds, e.g. CdxMnyTe

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977/825 . . . Heterojunction formed between semiconductor materials that differ in that they belong to different periodic table groups
977/826 . . . Nonstoichiometric semiconductor compounds, e.g. IIIxV; x does not equal y
977/827 . . . formed from hybrid organic/inorganic semiconductor compositions
977/828 . . . Biological composition interconnected with inorganic material
977/829 . . . Organic or biological core coated with inorganic shell
977/83 . . . Inorganic core or cluster coated with organic or biological shell
977/831 . . . Of specified ceramic or electrically insulating compositions
977/832 . . . having specified property, e.g. lattice-constant, thermal expansion coefficient
977/833 . . . Thermal property of nanomaterial, e.g. thermally conducting/insulating or exhibiting peltier or seebeck effect
977/834 . . . Optical properties of nanomaterial, e.g. specified transparency, opacity, or index of refraction
977/835 . . . Chemical or nuclear reactivity/stability of composition or compound forming nanomaterial
977/836 . . . having biological reactive capability
977/837 . . . Piezoelectric property of nanomaterial
977/838 . . . Magnetic property of nanomaterial
977/839 . . . Mathematical algorithms, e.g. computer software, specifically adapted for modeling configurations or properties of nanostructure
977/84 . . . Manufacture, treatment, or detection of nanostructure
977/841 . . . Environmental containment or disposal of nanostructure material
977/842 . . . for carbon nanotubes or fullerenes
977/843 . . . Gas phase catalytic growth, i.e. chemical vapor deposition
977/844 . . . Growth by vaporization or dissociation of carbon source using a high-energy heat source, e.g. electric arc, laser, plasma, e-beam
977/845 . . . Purification or separation of fullerenes or nanotubes
977/846 . . . internal modifications, e.g. filling, endohedral modifications
977/847 . . . Surface modifications, e.g. functionalization, coating
977/848 . . . Tube end modifications, e.g. capping, joining, splicing
977/849 . . . with scanning probe
977/85 . . . Scanning probe control process
977/851 . . . Particular movement or positioning of scanning tip
977/852 . . . for detection of specific nanostructure sample or nanostructure-related property
977/853 . . . Biological sample
977/854 . . . Semiconductor sample
977/855 . . . for manufacture of nanostructure
977/856 . . . including etching/cutting
977/857 . . . including coating
977/858 . . . including positioning/mounting nanostructure
977/859 . . . including substrate treatment
977/86 . . . Scanning probe structure
977/861 . . . Scanning tunneling probe
977/862 . . . Near-field probe
977/863 . . . Atomic force probe
977/864 . . . Electrostatic force probe
977/865 . . . Magnetic force probe
977/866 . . . Scanning capacitance probe
977/867 . . . Scanning thermal probe
977/868 . . . with optical means
977/869 . . . Optical microscope
977/87 . . . Optical lever arm for reflecting light
977/871 . . . with environmental regulation means
977/872 . . . Positioner
977/873 . . . Tip holder
977/874 . . . Probe tip array
977/875 . . . with tip detail
977/876 . . . Nanotube tip
977/877 . . . Chemically functionalized
977/878 . . . Shape/taper
977/879 . . . Material
977/88 . . . with arrangement, process, or apparatus for testing
977/881 . . . Microscopy or spectroscopy, e.g. sem, tem
977/882 . . . Assembling of separate components, e.g. by attaching
977/883 . . . Fluidic self-assembly, FSA
977/884 . . . Assembled via biorecognition entity
977/885 . . . Via nucleic acid hybridization
977/886 . . . Via protein recognition
977/887 . . . Nanoimprint lithography, i.e. nanostamp
977/888 . . . Shaping or removal of materials, e.g. etching
977/889 . . . by laser ablation
977/89 . . . Deposition of materials, e.g. coating, cvd, or ald
977/891 . . . Vapor phase deposition
977/892 . . . Liquid phase deposition
977/893 . . . Deposition in pores, molding, with subsequent removal of mold
977/894 . . . having step or means utilizing biological growth
977/895 . . . having step or means utilizing chemical property
977/896 . . . Chemical synthesis, e.g. chemical bonding or breaking
977/897 . . . Polymerization
977/898 . . . Enzymatic
977/899 . . . Electrolytic
977/90 . . . having step or means utilizing mechanical or thermal property, e.g. pressure, heat
977/901 . . . having step or means utilizing electromagnetic property, e.g. optical, x-ray, electron beam
977/902 . . . Specified use of nanostructure
977/903 . . . for conversion, containment, or destruction of hazardous material
977/904 . . . for medical, immunological, body treatment, or diagnosis
977/905 . . . Specially adapted for travel through blood circulatory system
977/906 . . . Drug delivery
977/907 . . . Liposome
977/908 . . . Mechanical repair performed/surgical
977/909 . . . Obstruction removal
977/91 . . . Strengthening cell or tissue
977/911 . . . Cancer cell destruction
977/912 . . . Cancer cell repair
<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>977/913</td>
<td>Stem cell therapy implantation</td>
</tr>
<tr>
<td>977/914</td>
<td>Protein engineering</td>
</tr>
<tr>
<td>977/915</td>
<td>Therapeutic or pharmaceutical composition</td>
</tr>
<tr>
<td>977/916</td>
<td>Gene therapy</td>
</tr>
<tr>
<td>977/917</td>
<td>Vaccine</td>
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<tr>
<td>977/918</td>
<td>Immunological</td>
</tr>
<tr>
<td>977/919</td>
<td>Dental</td>
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<tr>
<td>977/92</td>
<td>Detection of biochemical</td>
</tr>
<tr>
<td>977/921</td>
<td>Of toxic chemical</td>
</tr>
<tr>
<td>977/922</td>
<td>Of explosive material</td>
</tr>
<tr>
<td>977/923</td>
<td>Cell culture</td>
</tr>
<tr>
<td>977/924</td>
<td>using nanostructure as support of dna analysis</td>
</tr>
<tr>
<td>977/925</td>
<td>Bioelectrical</td>
</tr>
<tr>
<td>977/926</td>
<td>Topical chemical, e.g. cosmetic or sunscreen</td>
</tr>
<tr>
<td>977/927</td>
<td>Diagnostic contrast agent</td>
</tr>
<tr>
<td>977/928</td>
<td>X-ray agent</td>
</tr>
<tr>
<td>977/929</td>
<td>Ultrasound contrast agent</td>
</tr>
<tr>
<td>977/93</td>
<td>MRI contrast agent</td>
</tr>
<tr>
<td>977/931</td>
<td>Medical device coating</td>
</tr>
<tr>
<td>977/932</td>
<td>for electronic or optoelectronic application</td>
</tr>
<tr>
<td>977/933</td>
<td>Spintronics or quantum computing</td>
</tr>
<tr>
<td>977/934</td>
<td>Giant magnetoresistance, GMR</td>
</tr>
<tr>
<td>977/935</td>
<td>Spin dependent tunnel, SDT, junction, e.g. tunneling magnetoresistance, TMR</td>
</tr>
<tr>
<td>977/936</td>
<td>in a transistor or 3-terminal device</td>
</tr>
<tr>
<td>977/937</td>
<td>Single electron transistor</td>
</tr>
<tr>
<td>977/938</td>
<td>Field effect transistors, FETS, with nanowire- or nanotube-channel region</td>
</tr>
<tr>
<td>977/939</td>
<td>Electron emitter, e.g. spindt emitter tip coated with nanoparticles</td>
</tr>
<tr>
<td>977/94</td>
<td>in a logic circuit</td>
</tr>
<tr>
<td>977/941</td>
<td>including dna logic element</td>
</tr>
<tr>
<td>977/942</td>
<td>including protein logic element</td>
</tr>
<tr>
<td>977/943</td>
<td>Information storage or retrieval using nanostructure</td>
</tr>
<tr>
<td>977/944</td>
<td>Biochemical memory</td>
</tr>
<tr>
<td>977/945</td>
<td>Protein memory</td>
</tr>
<tr>
<td>977/946</td>
<td>Nucleic acid memory</td>
</tr>
<tr>
<td>977/947</td>
<td>with scanning probe instrument</td>
</tr>
<tr>
<td>977/948</td>
<td>Energy storage/generating using nanostructure, e.g. fuel cell, battery</td>
</tr>
<tr>
<td>977/949</td>
<td>Radiation emitter using nanostructure</td>
</tr>
<tr>
<td>977/95</td>
<td>Electromagnetic energy</td>
</tr>
<tr>
<td>977/951</td>
<td>Laser</td>
</tr>
<tr>
<td>977/952</td>
<td>Display</td>
</tr>
<tr>
<td>977/953</td>
<td>Detector using nanostructure</td>
</tr>
<tr>
<td>977/954</td>
<td>Of radiant energy</td>
</tr>
<tr>
<td>977/955</td>
<td>Of thermal property</td>
</tr>
<tr>
<td>977/956</td>
<td>Of mechanical property</td>
</tr>
<tr>
<td>977/957</td>
<td>Of chemical property or presence</td>
</tr>
<tr>
<td>977/958</td>
<td>Of biomolecule property</td>
</tr>
<tr>
<td>977/959</td>
<td>Of disease state</td>
</tr>
<tr>
<td>977/96</td>
<td>Of magnetic property</td>
</tr>
<tr>
<td>977/961</td>
<td>for textile or fabric treatment</td>
</tr>
<tr>
<td>977/962</td>
<td>for carrying or transporting</td>
</tr>
<tr>
<td>977/963</td>
<td>Miscellaneous</td>
</tr>
</tbody>
</table>