

**CPC****COOPERATIVE PATENT CLASSIFICATION****Y10S****TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS****NOTE**

This subclass has been introduced in July 2012 in view of the CPC to accommodate for technical subjects formerly covered by USPC cross-reference art collections [XRACs] and digests

**Apparel****Y10S 2/00****Apparel**

- Y10S 2/01 . Ventilated garment
- Y10S 2/02 . Reversible garment
- Y10S 2/03 . Inflatable garment
- Y10S 2/04 . Free swing garment
- Y10S 2/05 . Waterproof garment with gutters
- Y10S 2/08 . Rear-view mirror
- Y10S 2/09 . Stocking-girdle relationship
- Y10S 2/10 . Inflatable hat
- Y10S 2/11 . Headband
- Y10S 2/90 . Camouflaged
- Y10S 2/901 . Antibacterial, antitoxin, or clean room
- Y10S 2/902 . Antistatic
- Y10S 2/903 . Fiberglass
- Y10S 2/904 . Polytetrafluoroethylene
- Y10S 2/905 . Electric
- Y10S 2/906 . . Head covering or protector
- Y10S 2/907 . Glove having three, four, or six finger pockets
- Y10S 2/908 . Guard or protector having a hook-loop type fastener
- Y10S 2/909 . . Head protector, e.g. helmet, goggles
- Y10S 2/91 . . Hand or wrist protector
- Y10S 2/911 . . Leg protector
- Y10S 2/912 . Garment having a hook-loop type fastener
- Y10S 2/913 . . Chest encircling, e.g. shirt, vest
- Y10S 2/914 . . . Combined nether, e.g. union suit, bag type, overalls
- Y10S 2/915 . . . having plural body encircling layers, e.g. coat
- Y10S 2/916 . . Neck covering, e.g. necktie
- Y10S 2/917 . . Hand or wrist covering

- Y10S 2/918 . . Head covering
- Y10S 2/919 . . Lower torso and leg encircling, e.g. skirts, trousers
- Y10S 2/92 . Garment supporter or retainer having a hook-loop type fastener

### **Baths, closets, sinks, and spittoons**

#### **Y10S 4/00 Baths, closets, sinks, and spittoons**

- Y10S 4/01 . Plural connected floats
- Y10S 4/02 . Disappearing bowl
- Y10S 4/03 . Electric flushing
- Y10S 4/04 . Garbage grinder
- Y10S 4/05 . Urine guards
- Y10S 4/06 . Heated seats
- Y10S 4/07 . House plumbing fittings
- Y10S 4/08 . Rubber seats
- Y10S 4/09 . Methods
- Y10S 4/10 . Water additive or substitute
- Y10S 4/11 . Oil toilet
- Y10S 4/12 . Aerobic decomposing toilet
- Y10S 4/13 . Toilet having deformable trap
- Y10S 4/14 . Pipe strainers
- Y10S 4/15 . Prison bathrooms
- Y10S 4/16 . Deformable toilet traps
- Y10S 4/17 . Electrolytic toilets
- Y10S 4/18 . Bathroom fixture liners
- Y10S 4/19 . Liquid-solid separators
- Y10S 4/90 . Decontamination shower
- Y10S 4/901 . Bowl skirt or tank cover
- Y10S 4/902 . Toilet training
- Y10S 4/903 . Shower head with material dispensing
- Y10S 4/904 . Swim-in-place pool
- Y10S 4/905 . Squat bowl

### **Beds**

#### **Y10S 5/00 Beds**

- Y10S 5/01 . with means to attach canopy or netting to unmodified bed or bedstead
- Y10S 5/90 . Bathtub or bed
- Y10S 5/901 . Mattress or pad with a convoluted, e.g. egg crate surface
- Y10S 5/902 . Mattress with nonrectangular supporting surface

Y10S 5/904	. with sound emitting means
Y10S 5/905	. with light emitting means
Y10S 5/906	. with magnetic means
Y10S 5/907	. with decorative structure
Y10S 5/908	. . Mirror
Y10S 5/909	. Flowable viscous, e.g. gel material containing
Y10S 5/91	. with suction means
Y10S 5/911	. Bead containing
Y10S 5/913	. . with suction means
Y10S 5/915	. with vibrating means
Y10S 5/922	. with hook and loop type fastener
Y10S 5/923	. . Bedclothing
Y10S 5/924	. Cardboard containing
Y10S 5/925	. Highly frictional material
Y10S 5/926	. Low friction, e.g. slippery material
Y10S 5/927	. Sofa beds with motor means
Y10S 5/928	. with sprinkling or washing means
Y10S 5/929	. Facilitating sexual relations
Y10S 5/93	. for pregnant user
Y10S 5/931	. with safe or hiding place
Y10S 5/932	. Seals and sealing methods, for plastics
Y10S 5/933	. Massaging bed
Y10S 5/934	. . with movable transverse slats
Y10S 5/935	. with adjustable firmness
Y10S 5/936	. with adjustable firmness comprising springs
Y10S 5/937	. Body support with lowerable support portion to provide access to a portion of the supported body
Y10S 5/938	. with reflective material
Y10S 5/939	. with microporous material
Y10S 5/94	. with alarm means
Y10S 5/941	. Blanket with forced air flow
Y10S 5/942	. Longitudinally divided top surface with pivotable section
Y10S 5/943	. with horizontally movable top surface
Y10S 5/944	. with upstanding firm massaging projections
Y10S 5/945	. Inflatable baby support with inflatable peripheral guard
Y10S 5/946	. Crib bumper
Y10S 5/947	. Wall mounted baby changer
Y10S 5/948	. Body support with unique, specific filler material
Y10S 5/949	. . Comprising animal derived product
Y10S 5/95	. . . Comprising feathers or down

- Y10S 5/951 . . . Comprising plant derived material
- Y10S 5/952 . . . Comprising artificial fiber
- Y10S 5/953 . . . Comprising structurally defined foam material or configuration
- Y10S 5/954 . . . Fireproof

### **Compound tools**

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|------------------|------------------------|
| <b>Y10S 7/00</b> | <b>Compound tools</b>  |
| Y10S 7/90        | . . . Resilient pivot  |
| Y10S 7/901       | . . . Magnetic feature |

### **Bleaching and dyeing; fluid treatment and chemical modification of textiles and fibers**

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|------------------|---|
| <b>Y10S 8/00</b> | <b>Bleaching and dyeing; fluid treatment and chemical modification of textiles and fibers</b> |
| Y10S 8/01        | . . . Silicones   |
| Y10S 8/02        | . . . Vinyl sulfones and precursors thereof   |
| Y10S 8/03        | . . . Swelling and stretching   |
| Y10S 8/04        | . . . Polyester fibers  |
| Y10S 8/05        | . . . Organic titanium compounds on textiles  |
| Y10S 8/06        | . . . Resin bleach  |
| Y10S 8/08        | . . . Oxirane   |
| Y10S 8/09        | . . . Polyolefin  |
| Y10S 8/10        | . . . Polyvinyl halide esters or alcohol fiber modification                                   |
| Y10S 8/11        | . . . Isocyanate and carbonate modification of fibers   |
| Y10S 8/12        | . . . Wave energy treatment of textiles   |
| Y10S 8/13        | . . . Cyanoethylation of fibers   |
| Y10S 8/14        | . . . Dry mixtures of textile reagents  |
| Y10S 8/15        | . . . Pressurized gas treatment of textiles   |
| Y10S 8/16        | . . . Pressurized and high temperature liquid treatment of textiles                           |
| Y10S 8/17        | . . . Glyoxal and polyaldehyde treatment of textiles  |
| Y10S 8/18        | . . . Grafting textile fibers   |
| Y10S 8/19        | . . . Molten metal  |
| Y10S 8/20        | . . . -N-Cl compound  |
| Y10S 8/21        | . . . Nylon   |
| Y10S 8/90        | . . . Basic emulsifiers for dyeing  |
| Y10S 8/901       | . . . Quaternary ammonium salts   |
| Y10S 8/902       | . . . Coacervation or two-phase dyeing system   |
| Y10S 8/903       | . . . Triple mixture of anionic, cationic, and nonionic emulsifiers for dyeing                |
| Y10S 8/904       | . . . Mixed anionic and nonionic emulsifiers for dyeing                                       |
| Y10S 8/905       | . . . Mixed anionic and cationic emulsifiers for dyeing                                       |

Y10S 8/906	. Mixed cationic and nonionic emulsifiers for dyeing
Y10S 8/907	. Nonionic emulsifiers for dyeing
Y10S 8/908	. Anionic emulsifiers for dyeing
Y10S 8/909	.. Sulfonated or sulfated aliphatic hydrocarbons
Y10S 8/91	.. Soap
Y10S 8/911	... Sulfonated
Y10S 8/912	.. Arylene sulfonate-formaldehyde condensate or alkyl aryl sulfonate
Y10S 8/913	. Amphoteric emulsifiers for dyeing
Y10S 8/914	.. Amino carboxylic acids
Y10S 8/915	.. Amino sulfonic acids
Y10S 8/916	. Natural fiber dyeing
Y10S 8/917	.. Wool or silk
Y10S 8/918	.. Cellulose textile
Y10S 8/919	.. Paper
Y10S 8/92	. Synthetic fiber dyeing
Y10S 8/921	.. Cellulose ester or ether
Y10S 8/922	.. Polyester fiber
Y10S 8/923	... Halopolyester
Y10S 8/924	.. Polyamide fiber
Y10S 8/925	... Aromatic polyamide
Y10S 8/926	.. Polyurethane fiber
Y10S 8/927	.. Polyacrylonitrile fiber
Y10S 8/928	.. Polyolefin fiber
Y10S 8/929	. Carpet dyeing
Y10S 8/93	. Pretreatment before dyeing
Y10S 8/931	.. Washing or bleaching
Y10S 8/932	. Specific manipulative continuous dyeing
Y10S 8/933	. Thermosol dyeing, thermofixation or dry heat fixation or development
Y10S 8/934	. High temperature and pressure dyeing
Y10S 8/935	. Immunization as a resist in dyeing
Y10S 8/936	. Solubility studies on dyes
Y10S 8/937	. Li ion in dye bath
Y10S 8/938	. Solvent dyes
Y10S 8/939	. Naphtholactam dye

### **Boot and shoe making**

<b>Y10S 12/00</b>	<b>Boot and shoe making</b>
Y10S 12/01	. Lasting machines, fluid-actuated
Y10S 12/02	. Lasting machines, dash pots

Y10S 12/03 . Jigging

### **Brushing, scrubbing, and general cleaning**

#### **Y10S 15/00      Brushing, scrubbing, and general cleaning**

- Y10S 15/01 . Rechargeable batter
- Y10S 15/02 . Car cleaning plants
- Y10S 15/03 . Matrix
- Y10S 15/04 . Ferrules
- Y10S 15/05 . Varied length bristle
- Y10S 15/06 . Varied composition bristle
- Y10S 15/07 . Driers
- Y10S 15/08 . Dust bags and separators
- Y10S 15/09 . Dust mop cleaners
- Y10S 15/10 . Handles, reels and switches
- Y10S 15/11 . Indicators
- Y10S 15/12 . Tape head cleaner
- Y10S 15/13 . Magnetic tape cleaner
- Y10S 15/14 . Phonograph record cleaner
- Y10S 15/15 . Moisture responsive

### **Miscellaneous hardware, e.g. bushing, carpet fastener, caster, door closer, panel hanger, attachable or adjunct handle, hinge, window sash balance**

#### **Y10S 16/00      Miscellaneous hardware, e.g. bushing, carpet fastener, caster, door closer, panel hanger, attachable or adjunct handle, hinge, window sash balance**

- Y10S 16/01 . Overhead door
- Y10S 16/02 . Paint guard, kick guard
- Y10S 16/03 . Holddown
- Y10S 16/04 . Mirror mount
- Y10S 16/05 . Push and pull bar
- Y10S 16/06 . Anti-rattle
- Y10S 16/07 . Door opening apparatus
- Y10S 16/08 . Weights
- Y10S 16/09 . Hydraulic actuated checks, closers
- Y10S 16/10 . Spring actuated checks and closers
- Y10S 16/11 . Fireplace screen
- Y10S 16/12 . Hand grips, preformed and semi-permanent
- Y10S 16/13 . Plastic hinge
- Y10S 16/14 . Magnetic hinge
- Y10S 16/15 . Battery handles

Y10S 16/16	. Window brakes, counterbalances
Y10S 16/17	. Checks and closers, holding means
Y10S 16/18	. Composition handles
Y10S 16/19	. Cast or molded handles
Y10S 16/20	. Door brakes, e.g. track or guideway
Y10S 16/21	. Checks, closers, check valve construction
Y10S 16/22	. Expansion bolt
Y10S 16/23	. Reversible
Y10S 16/24	. Handle fastening means
Y10S 16/25	. Handle fastening means, clamp band
Y10S 16/26	. Headlight hinge
Y10S 16/27	. Bearings
Y10S 16/28	. Mattress handle
Y10S 16/29	. Nesting hinge leaves
Y10S 16/30	. Knob, control lever
Y10S 16/31	. Pulley, e.g. door guides and hangers
Y10S 16/32	. Door latch
Y10S 16/33	. Rubber sleeve bearings and hinges
Y10S 16/34	. Eccentric adjustments
Y10S 16/35	. Skidways
Y10S 16/36	. Spring
Y10S 16/37	. Nut lock
Y10S 16/38	. Lawn mower type tongue and cross arm
Y10S 16/39	. Adjustment means
Y10S 16/40	. Attaching means
Y10S 16/41	. Coupling, e.g. handle, rod, shaft
Y10S 16/42	. Miscellaneous methods
Y10S 16/43	. Hinge mounting bracket
Y10S 16/90	. Handle with angularly adjustable component
Y10S 16/901	. Handle with manipulation thereof by human body part other than the hand
Y10S 16/902	. Unitary handle composed of different cooperating materials
Y10S 16/903	. Handle with diverse art enhancement, e.g. illuminator, heater
Y10S 16/904	. Handle means having sanitary characteristic, e.g. to prevent transmission of germs
Y10S 16/905	. . Toilet seat lifter
Y10S 16/906	. Light handle cover

### **Buckles, buttons, clasps**

<b>Y10S 24/00</b>	<b>Buckles, buttons, clasps</b>
Y10S 24/08	. Paper clips

Y10S 24/09	.. Sheet material
Y10S 24/10	.. Wire
Y10S 24/11	. Adhesive
Y10S 24/13	. Weighted clip or clamp
Y10S 24/16	. Multiflex strap
Y10S 24/17	. Multiflex axial
Y10S 24/22	. Jaw structures, teeth
Y10S 24/26	. Fluid pressure
Y10S 24/28	. Co-planar flat clip
Y10S 24/29	. Laundry device
Y10S 24/30	. Separable-fastener or required component thereof
Y10S 24/31	.. with third, detached member completing interlock
Y10S 24/32	... And linking cavities in adjacent parallel panels
Y10S 24/33	... Third member includes independently engaged hooks for linking spaced cavities
Y10S 24/34	.... And movably connected, noninserted gate for closing access throat of hook
Y10S 24/35	... Third member includes relatively movable, separate components
Y10S 24/36	.... for parachute harness
Y10S 24/37	... Third member consists of unitary elongated element
Y10S 24/38	.. Each mating member having similarly shaped, sized, and operated interlocking face
Y10S 24/39	... including elongated face having identical, parallel cross sections throughout its length
Y10S 24/40	... including elongated face having varying, parallel cross sections throughout its length
Y10S 24/41	... including complementary shaped and alternately useable interlocking faces
Y10S 24/42	... Single piece hook-shaped member, e.g. mating garment hooks
Y10S 24/43	.. including member having distinct formations and mating member selectively interlocking therewith
Y10S 24/44	... Formations positioned along wall forming mating-member-guiding cavity
Y10S 24/45	.... Formations member having movably attached or biased interlocking structure
Y10S 24/46	... Formations member having movably attached or biased interlocking structure
Y10S 24/47	... Selectively interlocking member having movably attached or biased interlocking component
Y10S 24/48	.... And cavity for guiding movement of formations
Y10S 24/49	... having mounting means allowing repositioning of member for facilitating interlock
Y10S 24/50	.. including member having elongated, resilient, interlocking face with identical, parallel cross-sections throughout its length
Y10S 24/51	.. including receiving member having cavity and mating member having insertable projection guided to interlock thereby
Y10S 24/52	... having divergent interlock means distinct from cavity or projection of its member



Y10S 24/53	...	Projection or cavity rotates about axis of cavity access opening to interlock
Y10S 24/54	....	having projection rotatably connected to its member
Y10S 24/55	.....	And operator therefor
Y10S 24/56	.....	And position locking-means therefor
Y10S 24/57	.....	including notch or hump on projection axially biased by spring
Y10S 24/58	.....	including radially biased element engaging against relatively rotating surface at connection
Y10S 24/59	.....	And spring for axially biasing projection
Y10S 24/60	....	Receiving member includes either movable connection between cavity components or variable configuration cavity
Y10S 24/9001	.	Shirt collar holders
Y10S 24/901	.	Penetrating-type paper fastener
Y10S 24/902	.	Tufting button fastener
Y10S 24/903	.	Armpit shield fastener
Y10S 24/904	.	Glove fastener
Y10S 24/905	.	Watch chain fastener, e.g. swivel hook
Y10S 24/906	.	Fastener for attaching band to watch or similar article, e.g. name plate
Y10S 24/907	.	Plastic hook
Y10S 24/908	.	Fishline supported attachment hook
Y10S 24/909	.	Winders for flexible material
Y10S 24/91	.	One-piece

### **Textiles: cloth finishing**

<b>Y10S 26/00</b>	<b>Textiles: cloth finishing</b>
Y10S 26/01	. Edge and/or uncurling; stiffening

### **Undertaking**

<b>Y10S 27/00</b>	<b>Undertaking</b>
Y10S 27/01	. Coffin lid fasteners

### **Metal working**

<b>Y10S 29/00</b>	<b>Metal working</b>
Y10S 29/001	. Method or apparatus involving adhesive
Y10S 29/002	. Method or apparatus using aluminum
Y10S 29/003	. Method or apparatus with bending
Y10S 29/004	. Method or apparatus with brazing
Y10S 29/005	. Method or apparatus with casting
Y10S 29/006	. Method or apparatus with centrifugal casting

Y10S 29/007	. Method or apparatus with cleaning
Y10S 29/008	. Method or apparatus with composite casting
Y10S 29/009	. Method or apparatus with cup formed and bottom removed
Y10S 29/01	. Method or apparatus with die casting
Y10S 29/011	. Method or apparatus with drawing
Y10S 29/012	. Method or apparatus with electroplating
Y10S 29/013	. Method or apparatus with electric heating
Y10S 29/014	. Method or apparatus with enameling
Y10S 29/015	. forming article on end of long stock and then cutting off
Y10S 29/016	. Method or apparatus with etching
Y10S 29/017	. Method or apparatus with making flow lines; crystals
Y10S 29/018	. Method or apparatus with forging
Y10S 29/019	. Method or apparatus with grinding
Y10S 29/02	. Method or apparatus for double blank
Y10S 29/021	. Method or apparatus for heating
Y10S 29/022	. Method or apparatus using indium
Y10S 29/023	. Method or apparatus with knurling
Y10S 29/024	. Method or apparatus with local heating
Y10S 29/025	. Method or apparatus with particular material
Y10S 29/026	. Method or apparatus with machining
Y10S 29/027	. Method or apparatus using magnesium
Y10S 29/028	. Magnetic recording digest
Y10S 29/029	. Molding with other step
Y10S 29/03	. Ornamenting with other step
Y10S 29/031	. Pressing powder with other step
Y10S 29/032	. Rolling with other step
Y10S 29/033	. Scoring with other step
Y10S 29/034	. Scaling with other step
Y10S 29/035	. Shrink fitting with other step
Y10S 29/036	. Shot blasting with other step
Y10S 29/037	. Stamping with other step
Y10S 29/038	. Spot welding with other step
Y10S 29/039	. Spraying with other step
Y10S 29/04	. Strips of repeated articles - cut up later
Y10S 29/041	. Taper tube making
Y10S 29/042	. Tension applied during working
Y10S 29/043	. Upsetting and flanging tube end
Y10S 29/044	. Vacuum
Y10S 29/045	. Titanium
Y10S 29/046	. Vibration

Y10S 29/047	. Extruding with other step
Y10S 29/048	. Welding with other step
Y10S 29/049	. Work hardening with other step
Y10S 29/05	. Cutting fluid application and debris control
Y10S 29/051	. Power stop control for movable element
Y10S 29/052	. Chip breaker
Y10S 29/053	. Workpiece and debris separator
Y10S 29/054	. Fluid control interrelated with machine tool mechanism
Y10S 29/055	. with cutter drive
Y10S 29/056	. with shield or hood movements
Y10S 29/057	. with cutter feed
Y10S 29/059	. Hood actuated by tool or work approach
Y10S 29/06	. Progressive displacement of hood
Y10S 29/061	. Plural-type debris removers
Y10S 29/062	. Rubbing transfer of solid coating to rotating element
Y10S 29/063	. Fluid conveyor or applicator
Y10S 29/064	. Ambulatory cutter with fluent conduit
Y10S 29/065	. Cutter contained supply reservoir
Y10S 29/066	. Fluid flow to channeled cutter
Y10S 29/067	. Rotating cutter
Y10S 29/068	. Hollow spindle contains
Y10S 29/069	. Fluid spreader contacts cutter
Y10S 29/07	. Rotary or oscillating fluid applicator
Y10S 29/071	. Complete immersion of cutter
Y10S 29/072	. Dip or splash supply
Y10S 29/073	. Chain or belt conveyor
Y10S 29/074	. Partial immersion of cutter
Y10S 29/075	. Adjustable liquid level
Y10S 29/076	. Movable liquid-carrying trough
Y10S 29/077	. with separator or filter
Y10S 29/078	. Air blast and/or vacuum conveyor
Y10S 29/079	. Removable debris receptacle
Y10S 29/081	. Gas as a conveyor
Y10S 29/082	. Air current generated by cutter
Y10S 29/083	. Fan coaxial with cutter
Y10S 29/084	. Vacuum exhaust type
Y10S 29/085	. with fluid control valve
Y10S 29/086	. Hood encased cutter
Y10S 29/087	. Multiple fluid paths
Y10S 29/088	. by projecting, squirting or dripping

Y10S 29/089	. Gas entrained liquid supply
Y10S 29/09	. Elevated tank supply
Y10S 29/091	. Plural discharge openings
Y10S 29/092	. Fluid channel in cutter
Y10S 29/093	. Plural discharge loci
Y10S 29/094	. Debris remover, catcher, or deflector
Y10S 29/095	. Magnetic or electrostatic
Y10S 29/096	. Mechanical removal assistant
Y10S 29/097	. Cutter engaging cleaner
Y10S 29/098	. Rotating, reciprocating or oscillating cleaner
Y10S 29/099	. Flexible conveyor
Y10S 29/10	. Screw or cam conveyor
Y10S 29/101	. Pan, bed, or table
Y10S 29/102	. Debris chute
Y10S 29/104	. Tool or work attached
Y10S 29/105	. Assembly, magnetic, or indicia tool
Y10S 29/90	. Methods and apparatus for assembly by electrostatic attraction
Y10S 29/901	. Balancing method
Y10S 29/902	. Filter making
Y10S 29/903	. Firearm bolt making
Y10S 29/904	. Laminated metal article making
Y10S 29/905	. Making coil wound wall screen
Y10S 29/906	. Nuclear device making

### **Cutlery**

<b>Y10S 30/00</b>	<b>Cutlery</b>
Y10S 30/01	. Rechargeable battery operated
Y10S 30/02	. Dry shavers
Y10S 30/03	. Envelope openers
Y10S 30/04	. Explosive
Y10S 30/05	. Lawn edgers
Y10S 30/06	. Resilient means
Y10S 30/07	. Sprinkler and cutter
Y10S 30/08	. Seam rippers

### **Geometrical instruments**

<b>Y10S 33/00</b>	<b>Geometrical instruments</b>
Y10S 33/01	. Magnetic

Y10S 33/02	. Air
Y10S 33/03	. Photoelectric
Y10S 33/04	. Interferometer
Y10S 33/05	. Differential transformer
Y10S 33/06	. Dial indicator shock absorber
Y10S 33/07	. Ribbon and wires
Y10S 33/08	. Eccentrics
Y10S 33/09	. Rectangular proportioner
Y10S 33/10	. Outlet box
Y10S 33/11	. Materials
Y10S 33/12	. Mechanical expedients
Y10S 33/13	. Wire and strain gauges
Y10S 33/14	. Spline and gear
Y10S 33/15	. Piston position indicator
Y10S 33/16	. Clips and rafters
Y10S 33/17	. Piston ring and bearing race gauging
Y10S 33/18	. Flush pin gauges
Y10S 33/19	. Thermal expansive
Y10S 33/20	. Tile
Y10S 33/21	. with laser

#### **Drying and gas or vapor contact with solids**

<b>Y10S 34/00</b>	<b>Drying and gas or vapor contact with solids</b>
Y10S 34/01	. Absorbents and adsorbents

#### **Boots, shoes, and leggings**

<b>Y10S 36/00</b>	<b>Boots, shoes, and leggings</b>
Y10S 36/01	. Cement
Y10S 36/02	. Plastic

#### **Excavating**

<b>Y10S 37/00</b>	<b>Excavating</b>
Y10S 37/901	. Bucket cleaners
Y10S 37/902	. Hydraulic motors
Y10S 37/903	. Scoop or scraper attachments
Y10S 37/904	. Vibration means for excavating tool
Y10S 37/905	. Nondredge excavating by fluid contact or explosion
Y10S 37/906	. Visual aids and indicators for excavating tool

- Y10S 37/907 . Automatic leveling excavators
- Y10S 37/908 . Canal cleaners

### **Textiles: ironing or smoothing**

- Y10S 38/00**                      **Textiles: ironing or smoothing**
- Y10S 38/01 . Paired leg boards
- Y10S 38/02 . Leg structure
- Y10S 38/03 . Leg latch

### **Card, picture, or sign exhibiting**

- Y10S 40/00**                      **Card, picture, or sign exhibiting**
- Y10S 40/90 . Mirror that has changing effect
- Y10S 40/901 . Tv/radio program indicator
- Y10S 40/902 . Circuit control, e.g. flashing light
- Y10S 40/903 . Reflective triangle for highway use
- Y10S 40/904 . Map or chart holder
- Y10S 40/905 . Pen and pencil
- Y10S 40/906 . Sound
- Y10S 40/907 . Out-to-lunch
- Y10S 40/908 . Animal or fur skin identification
- Y10S 40/909 . Storage battery identification
- Y10S 40/91 . Automobile license identification
- Y10S 40/911 . Automobile body identification
- Y10S 40/912 . Automobile motor identification
- Y10S 40/913 . Tool identification
- Y10S 40/914 . Nuclear fuel element identification
- Y10S 40/915 . Golf club identification

### **Firearms**

- Y10S 42/00**                      **Firearms**
- Y10S 42/01 . Release trigger

### **Fishing, trapping, and vermin destroying**

- Y10S 43/00**                      **Fishing, trapping, and vermin destroying**
- Y10S 43/90 . Liquid insecticide sprayer

**Fuel and related compositions****Y10S 44/00****Fuel and related compositions**

- Y10S 44/901 . Fuel combined with material to be heated
- Y10S 44/902 . . Flameless or glowless, e.g. hair curler
- Y10S 44/903 . Method including measuring, testing or automatic control
- Y10S 44/904 . Method involving electric or wave energy
- Y10S 44/905 . Method involving added catalyst

**Plant husbandry****Y10S 47/00****Plant husbandry**

- Y10S 47/01 . Methods of plant-breeding and including chromosome multiplication
- Y10S 47/03 . Propagation of plant by cuttings
- Y10S 47/06 . Plant growth regulation by control of light thereon
- Y10S 47/08 . Treatment of plants and seeds with radioactive energy
- Y10S 47/09 . Physical and chemical treatment of seeds for planting
- Y10S 47/10 . Physical and chemical treatment of agricultural soils
- Y10S 47/11 . The application of protective coatings to plants
- Y10S 47/12 . Sonic or ultrasonic treatment
- Y10S 47/901 . Plant container with flats, filling, planting, or conveying
- Y10S 47/902 . including a recycled component, e.g. tires
- Y10S 47/903 . Operator means for cold frame or window
- Y10S 47/904 . Openwork container for a growing medium, e.g. wire basket
- Y10S 47/905 . To remediate contaminated soil

**Gas: heating and illuminating****Y10S 48/00****Gas: heating and illuminating**

- Y10S 48/01 . Recirculation of gases produced to lower part of fuel bed
- Y10S 48/02 . Slagging producer
- Y10S 48/03 . High pressure
- Y10S 48/04 . Powdered fuel injection
- Y10S 48/05 . Diffusion membrane for gas reaction or separation
- Y10S 48/06 . Underground gasification of coal
- Y10S 48/07 . Slurry
- Y10S 48/08 . Internal combustion engine for gas making
- Y10S 48/09 . Solar gasification
- Y10S 48/10 . Computer resisted control

### Movable or removable closures

## Y10S 49/00

### Movable or removable closures

- Y10S 49/01 . Thermal breaks for frames
- Y10S 49/02 . Plastic frame components

### Static structures, e.g. buildings

**Y10S 52/00**

### Static structures, e.g. buildings

- |            |  |
|------------|--|
| Y10S 52/01 | Hand tools for assembling building components                |
| Y10S 52/02 | Masonry lattice or openwork                                  |
| Y10S 52/03 | Trailer or mobile home skirt                                 |
| Y10S 52/04 | Magnetic connecting means for building components            |
| Y10S 52/05 | Designed for thermal distortion                              |
| Y10S 52/06 | Toothed connecting means                                     |
| Y10S 52/07 | Synthetic building materials, reinforcements and equivalents |
| Y10S 52/08 | Imitation beams  |
| Y10S 52/09 | Structure including reclaimed component, e.g. trash          |
| Y10S 52/10 | Polyhedron   |
| Y10S 52/11 | Mobile-structure stabilizing anchor                          |
| Y10S 52/12 | Temporary protective expedient                               |
| Y10S 52/13 | Hook and loop type fastener                                  |
| Y10S 52/14 | Shelter shaped to article configuration                      |
| Y10S 52/15 | Seal for corrugated sheets                                   |
| Y10S 52/16 | Roofing with pressure sensitive adhesive, e.g. shingle       |
| Y10S 52/17 | with transparent walls or roof, e.g. sunroom                 |
| Y10S 52/90 | Hazardous material permeation prevention, e.g. radon         |

## Package making

**Y10S 53/00**

## Package making

- Y10S 53/01 . Bacon and franks packaging
- Y10S 53/02 . High frequency electric sealing
- Y10S 53/03 . Sealing electron tubes
- Y10S 53/90 . Capsules

## Gas separation

**Y10S 55/00**

## Gas separation

- Y10S 55/01 . Graduated electrostatic field



Y10S 55/02	. Vacuum cleaner bags
Y10S 55/03	. Vacuum cleaner
Y10S 55/05	. Methods of making filter
Y10S 55/06	. Magnetic couplings
Y10S 55/07	. Black liquor treatment
Y10S 55/08	. Built-in vacuum cleaners
Y10S 55/09	. Radioactive filters
Y10S 55/10	. Residue burned
Y10S 55/12	. Pocket type filter
Y10S 55/13	. Polyurethane filters
Y10S 55/14	. Inertia separator
Y10S 55/15	. Cold traps
Y10S 55/17	. Compressed air water removal
Y10S 55/18	. Work bench
Y10S 55/19	. Crankcase ventilation
Y10S 55/20	. Spark arrester
Y10S 55/21	. Silencer cleaner
Y10S 55/23	. Steam separators
Y10S 55/24	. Viscous coated filter
Y10S 55/25	. Agglomerators
Y10S 55/26	. Bag coupling
Y10S 55/27	. Cleaners, liquid
Y10S 55/28	. Carburetor attached
Y10S 55/29	. Air curtains
Y10S 55/30	. Exhaust treatment
Y10S 55/31	. Filter frame
Y10S 55/32	. Gaseous fluid conveying
Y10S 55/33	. Gas mask canister
Y10S 55/34	. Indicator and controllers
Y10S 55/35	. Respirators and register filters
Y10S 55/36	. Kitchen hoods
Y10S 55/37	. Louvers
Y10S 55/38	. Tubular collector electrode
Y10S 55/39	. Electrets separator
Y10S 55/42	. Foam filter materials
Y10S 55/43	. Knitted filter mediums
Y10S 55/44	. Pile and pile-type filter mediums
Y10S 55/45	. Woven filter mediums
Y10S 55/46	. Spray booths

**Harvesters****Y10S 56/00**

Y10S 56/01

Y10S 56/02

Y10S 56/03

Y10S 56/04

Y10S 56/05

Y10S 56/06

Y10S 56/07

Y10S 56/08

Y10S 56/09

Y10S 56/10

Y10S 56/11

Y10S 56/12

Y10S 56/13

Y10S 56/14

Y10S 56/15

Y10S 56/16

Y10S 56/17

Y10S 56/18

Y10S 56/19

Y10S 56/20

Y10S 56/21

Y10S 56/22

Y10S 56/23

Y10S 56/24

**Harvesters**

- . Crusher
- . Methods
- . Ground effect
- . Friction drive
- . with material distribution
- . Clutches and gearing
- . Remote control implement
- . Air gathering
- . Detachable implement
- . Uneven terrain compensation
- . Hydraulic
- . Brush
- . Bermuda grass cutters
- . Hitch
- . Condition responsive
- . Movable cutter without stationary cutter bar
- . Cutter details
- . Handles
- . Beaters and wipers
- . Blades, reels and guards
- . Raking and windrowing
- . Underslung yieldable rotary mower
- . Dehydrating
- . Harvester guards

**Textiles: spinning, twisting, and twining****Y10S 57/00**

Y10S 57/901

Y10S 57/902

Y10S 57/903

Y10S 57/904

Y10S 57/905

Y10S 57/906

Y10S 57/907

Y10S 57/908

**Textiles: spinning, twisting, and twining**

- . Antistatic
- . Reinforcing or tire cords
- . Sewing threads
- . Flame retardant
- . Bicomponent material
- . Line appliances
- . Foamed and/or fibrillated
- . Jet interlaced or intermingled

**Chain, staple, and horseshoe making****Y10S 59/00****Chain, staple, and horseshoe making**

Y10S 59/90

- . Plastic

Y10S 59/901

- . Cross pin

**Power plants****Y10S 60/00****Power plants**

Y10S 60/90

- . Excess air to internal combustion engine to assist exhaust treatment

Y10S 60/901

- . Exhaust treatment special to rotary internal combustion engines

Y10S 60/902

- . Rotary reactor, separator or treater of exhaust of an internal combustion engine

Y10S 60/903

- . Closures operators

Y10S 60/904

- . Propeller or air plane system

Y10S 60/905

- . Winding and reeling

Y10S 60/906

- . Engine speed responsive throttle control system

Y10S 60/907

- . Working member positioned against counterforce by constantly applied motive fluid

Y10S 60/908

- . Washing machine system

Y10S 60/909

- . Reaction motor or component composed of specific material

Y10S 60/91

- . Free piston

Y10S 60/911

- . Fluid motor system incorporating electrical system

Y10S 60/912

- . Cooling means

Y10S 60/913

- . Collection of reggio patents

Y10S 60/914

- . Explosive

Y10S 60/915

- . Collection of goddard patents

Y10S 60/916

- . Unitary construction

Y10S 60/917

- . Solid fuel ramjet using pulverized fuel

**Refrigeration****Y10S 62/00****Refrigeration**

Y10S 62/01

- . Radiant cooling

Y10S 62/02

- . Refrigerant pumps

Y10S 62/05

- . Aircraft cooling

Y10S 62/07

- . Vacuum plates

Y10S 62/10

- . Tool cooling

Y10S 62/11

- . Hydrator receptacles

Y10S 62/13

- . Insulation

Y10S 62/16

- . Roof and ceiling located coolers

Y10S 62/17

- . Condenser pressure control

Y10S 62/19	. Ionic thompson effect
Y10S 62/20	. Materials used to prevent corrosion in refrigeration system
Y10S 62/21	. Evaporators where refrigerant covers heat exchange coil
Y10S 62/22	. Free cooling
Y10S 62/23	. Explosive digest
Y10S 62/90	. Triple column
Y10S 62/901	. Single column
Y10S 62/902	. Apparatus
Y10S 62/903	.. Heat exchange structure
Y10S 62/904	... Coiled heat exchanger
Y10S 62/905	.. Column
Y10S 62/906	... Packing
Y10S 62/907	... Insulation
Y10S 62/908	.. Filter or absorber
Y10S 62/909	.. Regeneration
Y10S 62/91	.. Expander
Y10S 62/911	.. Portable
Y10S 62/912	. External refrigeration system
Y10S 62/913	.. Liquified gas
Y10S 62/914	. Magnetic or electric field
Y10S 62/915	. Combustion
Y10S 62/916	. Explosion reduction
Y10S 62/917	. Mercury
Y10S 62/918	. Halocarbon
Y10S 62/919	. Isotope
Y10S 62/92	. Carbon monoxide
Y10S 62/921	. Chlorine
Y10S 62/922	. Sulfur
Y10S 62/923	. Inert gas
Y10S 62/924	.. Argon
Y10S 62/925	.. Xenon or krypton
Y10S 62/926	. Gasoline
Y10S 62/927	. Natural gas from nitrogen
Y10S 62/928	. Recovery of carbon dioxide
Y10S 62/929	.. From natural gas
Y10S 62/93	.. From nitrogen
Y10S 62/931	. Recovery of hydrogen
Y10S 62/932	.. From natural gas
Y10S 62/933	.. From helium
Y10S 62/934	.. From nitrogen

- Y10S 62/939 . Partial feed stream expansion, air
- Y10S 62/94 . . High pressure column

### **Jewelry**

- |                   |                      |
|-------------------|----------------------|
| <b>Y10S 63/00</b> | <b>Jewelry</b>       |
| Y10S 63/01        | . Adhesive jewelry   |
| Y10S 63/02        | . Perfumed jewelry   |
| Y10S 63/03        | . Plastic jewelry    |
| Y10S 63/90        | . Magnetic connector |

### **Glass manufacturing**

- |                   |  |
|-------------------|--|
| <b>Y10S 65/00</b> | <b>Glass manufacturing</b>   |
| Y10S 65/01        | . Lens envelope  |
| Y10S 65/03        | . Cracked glass  |
| Y10S 65/04        | . Electric heat  |
| Y10S 65/05        | . Foil glass   |
| Y10S 65/06        | . Glass electrode  |
| Y10S 65/08        | . Quartz   |
| Y10S 65/09        | . Tube   |
| Y10S 65/10        | . Stemware   |
| Y10S 65/11        | . Encapsulating  |
| Y10S 65/12        | . Reed switch  |
| Y10S 65/13        | . Computer control   |
| Y10S 65/15        | . Nonoxygen containing chalogenides  |
| Y10S 65/16        | . . Optical filament or fiber treatment with fluorine or incorporating fluorine in final product |
| Y10S 65/90        | . Drying, dehydration, minimizing oh groups  |
| Y10S 65/901       | . Liquid phase reaction process  |

### **Textiles: fluid treating apparatus**

- |                   |   |
|-------------------|---|
| <b>Y10S 68/00</b> | <b>Textiles: fluid treating apparatus</b>                   |
| Y10S 68/90        | . Foam treatment  |
| Y10S 68/901       | . High frequency treatment                                  |
| Y10S 68/902       | . Devices for storage and reuse of soap suds                |
| Y10S 68/903       | . Perforated drum and continuous textile feed and discharge |

**Locks****Y10S 70/00**

Y10S 70/01

Y10S 70/02

Y10S 70/05

Y10S 70/06

Y10S 70/07

Y10S 70/08

Y10S 70/09

Y10S 70/10

Y10S 70/11

Y10S 70/12

Y10S 70/13

Y10S 70/14

Y10S 70/15

Y10S 70/16

Y10S 70/17

Y10S 70/18

Y10S 70/19

Y10S 70/20

Y10S 70/21

Y10S 70/22

Y10S 70/23

Y10S 70/24

Y10S 70/25

Y10S 70/26

Y10S 70/27

Y10S 70/28

Y10S 70/29

Y10S 70/30

Y10S 70/31

Y10S 70/32

Y10S 70/33

Y10S 70/34

Y10S 70/35

Y10S 70/36

Y10S 70/37

Y10S 70/38

**Locks**

- . Tumbler registerable with aperture
- . Tumbler, lateral locking
- . Magazine cylinder and pin tumblers
- . Bolt dogged in retracted position
- . Sleeve with embeddable tooth
- . Closure-operator lock
- . Pawl and ratchet lock
- . Thermally controlled
- . Garage door lock
- . Extension link with detachable link fastener
- . Socket-key lock
- . insertable permanent key
- . Plug with tumbler retainer
- . Jail door lock
- . Check-key lock
- . Revolving door lock
- . Showcase lock
- . Push to project and lock bolt, key-released
- . Permutation, rotatable-segmental tumbler bolts
- . Segmental tumbler
- . Segmental slot in tumbler cooperating with a pin
- . Curved slot in tumbler
- . Peripheral pin on tumbler
- . Locking lug on bolt
- . Manually locked, key-released
- . Fence tumbler
- . Wedge tumbler
- . Switch lock
- . Handle assembly, lock-controlled
- . Positioners
- . Starting point
- . Cover fasteners
- . Double-ended lock cylinder
- . Spring-retained lock cylinder
- . Cylinder lock, multiple tumbler arrangements
- . Cylinder lock, lateral keyhole

Y10S 70/39	. Cylinder and knob connection
Y10S 70/40	. Cylinder lock utilizing sheet metal
Y10S 70/41	. Coin-controlled
Y10S 70/42	. Lost motion devices
Y10S 70/43	. Lock protectors
Y10S 70/44	. Combination changers
Y10S 70/45	. Time lock and auxiliary lock operable on failure of time lock
Y10S 70/46	. Conducting key
Y10S 70/47	. Laterally movable key
Y10S 70/48	. Fluid pressure lock
Y10S 70/49	. with alarm
Y10S 70/50	. Time lock, fluid-controlled
Y10S 70/51	. Light sensitive control means
Y10S 70/52	. Over center spring
Y10S 70/53	. Adjustable spring
Y10S 70/54	. Double-ended spring
Y10S 70/55	. Unitary multiple springs
Y10S 70/56	. Lock protecting cover
Y10S 70/57	. Screw guard
Y10S 70/58	. Handle guard
Y10S 70/59	. Lock with indicator
Y10S 70/60	. Opposed cylinders
Y10S 70/61	. Die cast cylinder
Y10S 70/62	. Cylinder plug stop
Y10S 70/63	. Multiple locks
Y10S 70/64	. Door spanning bolt
Y10S 70/65	. Double door lock
Y10S 70/66	. Double-ended bolt
Y10S 70/67	. Handle-contained latch operator
Y10S 70/68	. Oblique bolt
Y10S 70/69	. Floating bolt
Y10S 70/70	. Geneva stop
Y10S 70/71	. Combined permutation and key lock
Y10S 70/72	. Telephone lock
Y10S 70/73	. Thumb latch operator
Y10S 70/74	. Spring tumbler
Y10S 70/75	. Adjustable tumbler
Y10S 70/76	. Manually operated tumbler
Y10S 70/77	. Jaw tumblers
Y10S 70/78	. Sliding and oscillating bolt

- Y10S 70/79 . Sliding and rotary bolt
- Y10S 70/80 . Sliding bolt with sliding operating means
- Y10S 70/81 . Camouflaging means

### **Chemistry: fertilizers**

- |                   |                               |
|-------------------|-------------------------------|
| <b>Y10S 71/00</b> | <b>Chemistry: fertilizers</b> |
| Y10S 71/02        | . Chelating agent             |
| Y10S 71/03        | . Defluorination              |
| Y10S 71/04        | . Anti-corrosion              |
| Y10S 71/90        | . Foams                       |
| Y10S 71/901       | . Refuse conditioning         |
| Y10S 71/902       | . Nitrification inhibition    |
| Y10S 71/903       | . Soil conditioner            |
| Y10S 71/904       | . Carrier                     |

### **Metal deforming**

- |                   |   |
|-------------------|---|
| <b>Y10S 72/00</b> | <b>Metal deforming</b>  |
| Y10S 72/70        | . Deforming specified alloys or uncommon metal or bimetallic work |
| Y10S 72/701       | . Preventing distortion   |
| Y10S 72/702       | . Overbending to compensate for springback                        |
| Y10S 72/703       | . Knurling  |
| Y10S 72/704       | . Camber-adjusting tool   |
| Y10S 72/705       | . Vehicle body or frame straightener                              |
| Y10S 72/706       | . Explosive   |
| Y10S 72/707       | . Magnetism   |
| Y10S 72/708       | . Reverse drawing   |
| Y10S 72/709       | . Superplastic material   |
| Y10S 72/71        | . Vibrating   |
| Y10S 72/711       | . Hydrostatic extrusion   |
| Y10S 72/712       | . Electrical terminal crimper                                     |
| Y10S 72/713       | . Method of making vehicle power transmitting shaft               |
| Y10S 72/714       | . Method of making universal joint shell                          |
| Y10S 72/715       | . Method of making can bodies                                     |

### **Measuring and testing**

- |                   |                              |
|-------------------|------------------------------|
| <b>Y10S 73/00</b> | <b>Measuring and testing</b> |
| Y10S 73/01        | . Vibration                  |
| Y10S 73/02        | . Magnetostrictive           |



Y10S 73/03	. Hall effect
Y10S 73/04	. Piezoelectric
Y10S 73/05	. Liquid levels with magnetic transmission
Y10S 73/08	. Fluid circuits
Y10S 73/09	. Molten metal samplers
Y10S 73/10	. instrument mechanisms with acceleration compensation
Y10S 73/11	. Photoelectric cell
Y10S 73/90	. Automatic gain control
Y10S 73/901	. Digital readout

### **Machine element or mechanism**

<b>Y10S 74/00</b>	<b>Machine element or mechanism</b>
Y10S 74/01	. Hydraulic control systems automatic automotive controls
Y10S 74/02	. Miscellaneous control systems, e.g. ship propulsion, machine tools
Y10S 74/03	. Movable van or blade torque converters
Y10S 74/04	. Magnetic gearing
Y10S 74/05	. Gas turbine with gearing
Y10S 74/06	. Transistor-electronic gearing controls
Y10S 74/07	. Indicators-sensors and meters
Y10S 74/08	. Marine control-ship transmission control means
Y10S 74/09	. Perpetual motion gimmicks
Y10S 74/10	. Polymer digest - plastic gears
Y10S 74/11	. Creeper speed
Y10S 74/12	. Novikov gears
Y10S 74/90	. Particular shift pattern

### **Specialized metallurgical processes, compositions for use therein, consolidated metal powder compositions, and loose metal particulate mixtures**

<b>Y10S 75/00</b>	<b>Specialized metallurgical processes, compositions for use therein, consolidated metal powder compositions, and loose metal particulate mixtures</b>
Y10S 75/95	. Consolidated metal powder compositions of >95% theoretical density, e.g. wrought
Y10S 75/951	. . . Oxide containing, e.g. dispersion strengthened
Y10S 75/952	. Producing fibers, filaments, or whiskers
Y10S 75/953	. Producing spheres
Y10S 75/954	. Producing flakes or crystals
Y10S 75/955	. Producing dental product
Y10S 75/956	. Producing particles containing a dispersed phase
Y10S 75/957	. Continuous refining of molten iron

- Y10S 75/958 . with concurrent production of iron and other desired nonmetallic product, e.g. energy, fertilizer
- Y10S 75/959 . Thermit-type reaction of solid materials only to yield molten metal
- Y10S 75/96 . in zero gravity environment
- Y10S 75/961 . Treating flue dust to obtain metal other than by consolidation
- Y10S 75/962 . Treating or using mill scale

### **Metal tools and implements, making**

- |                   |   |
|-------------------|---|
| <b>Y10S 76/00</b> | <b>Metal tools and implements, making</b> |
| Y10S 76/01        | . Bowling pin                             |
| Y10S 76/02        | . Case hardening                          |
| Y10S 76/03        | . Casting                                 |
| Y10S 76/04        | . Chromium                                |
| Y10S 76/05        | . Electric welding                        |
| Y10S 76/06        | . Laminated                               |
| Y10S 76/07        | . Plastics                                |
| Y10S 76/08        | . Razor blade manufacturing               |
| Y10S 76/09        | . Razor blade sharpeners                  |
| Y10S 76/10        | . Soldering and cooling                   |
| Y10S 76/11        | . Tungsten and tungsten carbide           |
| Y10S 76/12        | . Diamond tools                           |

### **Tools**

- |                   |  |
|-------------------|--|
| <b>Y10S 81/00</b> | <b>Tools</b>   |
| Y10S 81/01        | . Tool-support adjuncts                                    |
| Y10S 81/02        | . Spiral drive for wrenches                                |
| Y10S 81/03        | . Wrenches, thread-adjustment lock                         |
| Y10S 81/04        | . Double adjustments, sliding jaw                          |
| Y10S 81/05        | . Wrench scales and indicia                                |
| Y10S 81/06        | . Spring means biasing wrench jaws                         |
| Y10S 81/07        | . Bicycle spoke or nipple wrench                           |
| Y10S 81/08        | . Crowfoot-type wrenches                                   |
| Y10S 81/09        | . Pivoted jaw latch means                                  |
| Y10S 81/10        | . Iris-type wrench head                                    |
| Y10S 81/11        | . Adapters for different-sized fasteners                   |
| Y10S 81/12        | . Power hammer   |
| Y10S 81/90        | . Wrench or screwdriver constructed from specific material |
| Y10S 81/901       | . Wrench or screwdriver adapted to turn eye screw          |

**Turning****Y10S 82/00**

Y10S 82/90  
Y10S 82/901  
Y10S 82/902  
Y10S 82/903  
Y10S 82/904  
Y10S 82/905

**Turning**

- . Lathe thermal regulation
- . Chip removal
- . Oil grooving device
- . Balancing and centering
- . Vibrating method or tool
- . Transmission accessory or control

**Cutting****Y10S 83/00**

Y10S 83/01  
Y10S 83/02  
Y10S 83/03  
Y10S 83/901  
Y10S 83/902  
Y10S 83/903  
Y10S 83/904  
Y10S 83/905  
Y10S 83/906  
Y10S 83/907  
Y10S 83/908  
Y10S 83/909  
Y10S 83/91  
Y10S 83/911  
Y10S 83/912  
Y10S 83/913  
Y10S 83/914  
Y10S 83/915  
Y10S 83/9153  
Y10S 83/9155  
Y10S 83/916  
Y10S 83/917  
Y10S 83/918  
Y10S 83/919  
Y10S 83/92  
Y10S 83/921

**Cutting**

- . Safety devices
- . I-shaped beam cutter
- . Inflatable tube
- . Apparel collar making
- . Attachments for other types of machine
- . Battery grid trimming
- . Book index cutting
- . Buttonhole making
- . Chip making
- . Coiled wire cutting
- . Comb, rake, or other toothed article making
- . Cutting strand extending from or lying on strand or package support
- . Embroidery trimming or cutting
- . Envelope blank forming
- . Envelope openers
- . Filament to staple fiber cutting
- . Flash trimming
- . Fur cutting
- . Ice cutting machines
- . Microtome
- . Nibbling
- . Notching
- . Pinking
- . Sample taking
- . Shingle making
- . Slide fastener cutting

Y10S 83/922	. Tacky web cutting
Y10S 83/923	. Waste product cutting
Y10S 83/924	. Work wrapped or coated around a core, not part of the machine
Y10S 83/927	. Printer's rule cutting
Y10S 83/928	. Vehicle-mounted tool
Y10S 83/929	. Particular nature of work or product
Y10S 83/9291	.. Printed circuit board
Y10S 83/9292	.. Electrical component lead trimming
Y10S 83/93	.. Radioactive
Y10S 83/931	.. Tobacco
Y10S 83/932	.. Edible
Y10S 83/933	.. Book, being destroyed, e.g. cover being cut away
Y10S 83/934	.. Book, being made, e.g. trimming a signature
Y10S 83/935	.. Endless band
Y10S 83/936	.. Cloth or leather
Y10S 83/937	... From continuous or wound supply
Y10S 83/938	... Moving cloth or leather
Y10S 83/939	... with work support
Y10S 83/94	.... Cutter moves along bar, bar moves perpendicularly
Y10S 83/941	..... Work support comprising penetratable bed
Y10S 83/942	.. Contact pin of electrical component
Y10S 83/943	.. Pallet
Y10S 83/944	.. Syringe needle
Y10S 83/945	.. Separating connected articles
Y10S 83/946	.. Container
Y10S 83/947	.. insulation about wire
Y10S 83/948	.. having "memory", e.g. photographic or magnetic film
Y10S 83/949	.. Continuous or wound supply
Y10S 83/95	... Strandlike
Y10S 83/951	.. Rubber tire
Y10S 83/952	.. Moving work
Y10S 83/953	.. with work support
Y10S 83/954	. Knife changing
Y10S 83/955	. Cutter edge shiftable to present different portion of edge
Y10S 83/956	. Ultrasonic

## **Music**

<b>Y10S 84/00</b>	<b>Music</b>
Y10S 84/01	. Plural speakers

Y10S 84/02	. Preference networks
Y10S 84/03	. Foldable; detachable; collapsible
Y10S 84/04	. Chorus; ensemble; celeste
Y10S 84/05	. Chiff
Y10S 84/06	. Cathode-ray tube
Y10S 84/07	. Electric key switch structure
Y10S 84/08	. Keyed oscillators
Y10S 84/09	. Filtering
Y10S 84/10	. Feedback
Y10S 84/11	. Frequency dividers
Y10S 84/12	. Side; rhythm and percussion devices
Y10S 84/13	. Gas discharge tube
Y10S 84/14	. Harmonicas
Y10S 84/15	. Accordions
Y10S 84/16	. Crescendo
Y10S 84/17	. Cabinets
Y10S 84/18	. Tuning
Y10S 84/19	. Light sensitive resistor
Y10S 84/20	. Monophonic
Y10S 84/21	. Mechanical resonator
Y10S 84/22	. Chord organs
Y10S 84/23	. Electronic gates for tones
Y10S 84/24	. Piezoelectrical transducers
Y10S 84/25	. Pedal clavier
Y10S 84/26	. Reverberation
Y10S 84/27	. Stereo
Y10S 84/28	. Service manuals
Y10S 84/29	. Tape
Y10S 84/30	. Fret control

#### **Motors: expansible chamber type**

<b>Y10S 91/00</b>	<b>Motors: expansible chamber type</b>
Y10S 91/01	. Digital
Y10S 91/02	. Exhaust throttled motor control
Y10S 91/03	. Large area valve
Y10S 91/04	. Magnets

**Expansible chamber devices**

<b>Y10S 92/00</b>	<b>Expansible chamber devices</b>
Y10S 92/01	. Bearing on piston or cylinder
Y10S 92/02	. Fluid bearing
Y10S 92/03	. Flexible drive
Y10S 92/04	. Lost motion

**Gas separation: processes**

<b>Y10S 95/00</b>	<b>Gas separation: processes</b>
Y10S 95/90	. Solid sorbent
Y10S 95/901	.. Activated carbon
Y10S 95/902	.. Molecular sieve
Y10S 95/903	... Carbon

**Foods and beverages: apparatus**

<b>Y10S 99/00</b>	<b>Foods and beverages: apparatus</b>
Y10S 99/10	. Temperature responsive
Y10S 99/11	. Conductivity control
Y10S 99/12	. Supersonic
Y10S 99/13	. Electrical deposition
Y10S 99/14	. Induction heating
Y10S 99/15	. Pie pans

**Presses**

<b>Y10S 100/00</b>	<b>Presses</b>
Y10S 100/901	. Scrap auto body crushers
Y10S 100/902	. Can crushers
Y10S 100/903	. Pelleters
Y10S 100/904	.. Screw
Y10S 100/905	.. inner roll
Y10S 100/906	.. Reciprocating
Y10S 100/907	.. Rotary
Y10S 100/908	.. Series rolls
Y10S 100/909	.. Adjustable die openings
Y10S 100/91	. Meat
Y10S 100/911	. Jet or explosive

- Y10S 100/912 . Binder containers
- Y10S 100/913 . Truss presses
- Y10S 100/914 . Scrap paper
- Y10S 100/915 . Fixed upper ram, lower movable receptacle
- Y10S 100/916 . Coil tightener and binder
- Y10S 100/917 . Magnetic
- Y10S 100/918 . Bolster and die

## **Printing**

### **Y10S 101/00**

### **Printing**

- Y10S 101/29 . Printing involving a color-forming phenomenon
- Y10S 101/30 . Special article printing with article controlled operation
- Y10S 101/31 . Devices for applying metal leaf employing hot dies
- Y10S 101/32 . Means to vary the time of contact of one or more rollers in an ink train
- Y10S 101/33 . Ink transfer employing one or more belts
- Y10S 101/34 . Means to agitate ink in a reservoir
- Y10S 101/35 . Rollers and track therefore in printing presses
- Y10S 101/36 . Means for registering or alignment of print plates on print press structure
- Y10S 101/37 . Printing employing electrostatic force
- Y10S 101/38 . Means for axially reciprocating inking rollers
- Y10S 101/39 . Printing on cylinder of revolution
- Y10S 101/40 . Means to print on golf balls
- Y10S 101/41 . Means for braking press cylinders
- Y10S 101/42 . Means for tensioning webs
- Y10S 101/43 . Machines printing by both intaglio and another type of printing means
- Y10S 101/44 . Coin controlled printing machines
- Y10S 101/45 . Sensor for ink or dampening fluid thickness or density
- Y10S 101/46 . Printing operation controlled by code indicia on printing plate or substate
- Y10S 101/47 . Automatic or remote control of metering blade position
- Y10S 101/48 . Endless printing belt for other than selective or progressive printing
- Y10S 101/49 . Convertible printing press, e.g. lithographic to letter press

## **Ammunition and explosives**

### **Y10S 102/00**

### **Ammunition and explosives**

- Y10S 102/70 . Combustible cartridge
- Y10S 102/701 . Charge wave forming
- Y10S 102/702 . Compression ignition
- Y10S 102/703 . Flechette

- Y10S 102/704 . Coolants
- Y10S 102/705 . Separated explosive constituents

### **Railways**

- Y10S 104/00 Railways**
- Y10S 104/01 . Toy railroad

### **Compositions: coating or plastic**

- Y10S 106/00 Compositions: coating or plastic**
- Y10S 106/01 . Fly ash
- Y10S 106/02 . Perlite
- Y10S 106/03 . Mica
- Y10S 106/04 . Bentonite
- Y10S 106/07 . Asphalt binders in coating compositions
- Y10S 106/90 . Soil stabilization
- Y10S 106/901 . Low molecular weight hydrocarbon polymer-containing mixture

### **Horizontally supported planar surfaces**

- Y10S 108/00 Horizontally supported planar surfaces**
- Y10S 108/901 . Synthetic plastic industrial platform, e.g. pallet
- Y10S 108/902 .. Made with deformable integral fastening elements

### **Planting**

- Y10S 111/00 Planting**
- Y10S 111/90 . Methods of planting seeds and miscellaneous compositions
- Y10S 111/901 . Lawn or turf
- Y10S 111/902 .. Pasture renovation
- Y10S 111/903 . Monitor
- Y10S 111/904 .. Population control function
- Y10S 111/905 . Seed treating seed planter
- Y10S 111/906 . Specialized commodity
- Y10S 111/907 .. Cane
- Y10S 111/908 .. Potato
- Y10S 111/909 .. Bulb
- Y10S 111/91 ... Onion
- Y10S 111/911 .. Rice
- Y10S 111/912 .. Pineapple



Y10S 111/913	. . . Vegetable, i.e. small seed
Y10S 111/914	. . . . . Lettuce
Y10S 111/915	. . Special condition
Y10S 111/916	. . . Seed pellet
Y10S 111/917	. . . Gel
Y10S 111/918	. . . Sprout
Y10S 111/919	. . Special transplant related feature
Y10S 111/92	. . Airplane
Y10S 111/921	. . Unique motor drive
Y10S 111/922	. . Variable drive mechanism
Y10S 111/923	. . Interrow, intercrop planter
Y10S 111/924	. . Minimum and no till planter
Y10S 111/925	. . Tank and hopper trailers
Y10S 111/926	. . Special suspension or gauging feature
Y10S 111/927	. . Parallelogram mounting

### **Sewing**

<b>Y10S 112/00</b>	<b>Sewing</b>
Y10S 112/01	. . Suction thread cutting
Y10S 112/02	. . Air work handling
Y10S 112/03	. . Pneumatic

### **Signals and indicators**

<b>Y10S 116/00</b>	<b>Signals and indicators</b>
Y10S 116/01	. . Combined with diverse elements
Y10S 116/02	. . Corrections by cursor lines
Y10S 116/03	. . Shiftable indicia
Y10S 116/04	. . Variable pulley
Y10S 116/05	. . using light guides
Y10S 116/06	. . Pointer structure
Y10S 116/07	. . Fluid actuated
Y10S 116/08	. . Inflatable indicator
Y10S 116/09	. . Balloons
Y10S 116/10	. . Bimetal detents
Y10S 116/11	. . On ski binders
Y10S 116/12	. . Door knockers
Y10S 116/13	. . Inclinometers for earth working devices
Y10S 116/14	. . Tapes as carriers

Y10S 116/15	. Projection
Y10S 116/16	. Road structure
Y10S 116/17	. Tactile
Y10S 116/18	. Wave generators
Y10S 116/19	. Wave generator with resonating element
Y10S 116/20	. Automobile transmission position
Y10S 116/21	. Shaft position indicators
Y10S 116/22	. Heated air
Y10S 116/23	. Movable index
Y10S 116/24	. with suction cups
Y10S 116/25	. Air filter condition indicator
Y10S 116/26	. Light rod
Y10S 116/27	. Blowout plates
Y10S 116/28	. Push button structure
Y10S 116/29	. TV tuner
Y10S 116/30	. Remote TV tuner
Y10S 116/31	. TV channel selector
Y10S 116/32	. Content indicator by weight
Y10S 116/33	. Indicator for elevated cables
Y10S 116/34	. Tension indicating
Y10S 116/35	. Electroluminescent dials
Y10S 116/36	. Illuminated dial and pointer
Y10S 116/37	. Multiple movable scales
Y10S 116/38	. Hot box alarm
Y10S 116/39	. Dial magnifiers
Y10S 116/40	. Flare devices
Y10S 116/41	. Color comparison
Y10S 116/42	. Oil filter
Y10S 116/43	. Navigation devices
Y10S 116/44	. Portable personal alarms
Y10S 116/45	. Parallax
Y10S 116/46	. Interchangeable scales
Y10S 116/47	. Scale conversion, e.g. english-metric

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

<b>Y10S 117/00</b>	<b>Single-crystal, oriented-crystal, and epitaxy growth processes; non-coating apparatus therefor</b>
Y10S 117/90	. Apparatus characterized by composition or treatment thereof, e.g. surface finish, surface coating
Y10S 117/901	. Levitation, reduced gravity, microgravity, space

Y10S 117/902	. . Specified orientation, shape, crystallography, or size of seed or substrate
Y10S 117/903	. Dendrite or web or cage technique
Y10S 117/904	. . Laser beam
Y10S 117/905	. Electron beam
Y10S 117/906	. Special atmosphere other than vacuum or inert
Y10S 117/907	. . Refluxing atmosphere
Y10S 117/91	. Downward pulling
Y10S 117/911	. Seed or rod holders
Y10S 117/912	. Replenishing liquid precursor, other than a moving zone
Y10S 117/913	. Graphoepitaxy or surface modification to enhance epitaxy
Y10S 117/914	. Crystallization on a continuous moving substrate or cooling surface, e.g. wheel, cylinder, belt
Y10S 117/915	. Separating from substrate
Y10S 117/916	. Oxygen testing
Y10S 117/917	. Magnetic
Y10S 117/918	. Single-crystal waveguide
Y10S 117/919	. . Organic

### **Coating apparatus**

<b>Y10S 118/00</b>	<b>Coating apparatus</b>
Y10S 118/01	. Anti-offset
Y10S 118/02	. Bead coater
Y10S 118/03	. Container-related coater
Y10S 118/04	. Curtain coater
Y10S 118/05	. Fluidized bed
Y10S 118/06	. Fruit coater
Y10S 118/07	. Hoods
Y10S 118/08	. Pan greaser
Y10S 118/09	. Plank and molding coater
Y10S 118/10	. Pipe and tube inside
Y10S 118/11	. Pipe and tube outside
Y10S 118/12	. Pipe and tube immersion
Y10S 118/13	. Pipe and tube miscellaneous
Y10S 118/14	. Roller, conical
Y10S 118/15	. Roller structure
Y10S 118/16	. Slinger type
Y10S 118/17	. Wallpaper coater
Y10S 118/18	. Wire and cord die
Y10S 118/19	. Wire and cord immersion

- Y10S 118/20 . Wire and cord roller
- Y10S 118/21 . Wire and cord striper
- Y10S 118/22 . Wire and cord miscellaneous
- Y10S 118/90 . Semiconductor vapor doping

### **Animal husbandry**

- |                    |   |
|--------------------|---|
| <b>Y10S 119/00</b> | <b>Animal husbandry</b>                 |
| Y10S 119/01        | . Milk digest                           |
| Y10S 119/90        | . Feed saving device                    |
| Y10S 119/901       | . Chain feeder                          |
| Y10S 119/902       | . Feed agitator                         |
| Y10S 119/903       | . Poultry roost preventing device       |
| Y10S 119/904       | . Stanchion sure stop                   |
| Y10S 119/905       | . Breaking or training method           |
| Y10S 119/906       | . Animal counting                       |
| Y10S 119/907       | . Harness                               |
| Y10S 119/908       | . Electrical animal control or handling |

### **Liquid heaters and vaporizers**

- |                    |                                      |
|--------------------|--------------------------------------|
| <b>Y10S 122/00</b> | <b>Liquid heaters and vaporizers</b> |
| Y10S 122/01        | . Air heater                         |
| Y10S 122/02        | . Air heater - indirectly heated     |
| Y10S 122/03        | . Gas flow baffles                   |
| Y10S 122/04        | . Once through boilers               |
| Y10S 122/05        | . Critical pressure                  |
| Y10S 122/06        | . Damper-directed radiation          |
| Y10S 122/07        | . Feeding air                        |
| Y10S 122/10        | . Portable units                     |
| Y10S 122/11        | . Removable steam-heating elements   |
| Y10S 122/13        | . Tubes - composition and protection |
| Y10S 122/14        | . Tube replacement                   |
| Y10S 122/15        | . Valves                             |
| Y10S 122/16        | . Welding                            |

### **Internal-combustion engines**

- |                    |  |
|--------------------|--|
| <b>Y10S 123/00</b> | <b>Internal-combustion engines</b>                           |
| Y10S 123/01        | . Interchangeable  |
| Y10S 123/02        | . Accumulated fuel return to tank or engine-induction system |

- Y10S 123/03 . Model
- Y10S 123/04 . Stratification
- Y10S 123/05 . Crankcase pressure-operated pumps
- Y10S 123/06 . Detachable
- Y10S 123/07 . Convertible
- Y10S 123/08 . Multiple engine units
- Y10S 123/09 . Flame ignition
- Y10S 123/10 . Fluidic amplifier fuel control
- Y10S 123/11 . Antidieseling
- Y10S 123/12 . Hydrogen
- Y10S 123/13 . Gas

### **Mechanical guns and projectors**

- Y10S 124/00**      **Mechanical guns and projectors**
- Y10S 124/90 . Limb tip rotatable element structure

### **Stone working**

- Y10S 125/00**      **Stone working**
- Y10S 125/901 . forming piezoelectric crystals

### **Stoves and furnaces**

- Y10S 126/00**      **Stoves and furnaces**
- Y10S 126/903 . Solar collector cleaning device
- Y10S 126/904 . Arrangements for sealing solar collector
- Y10S 126/905 . Preventing condensing of moisture in solar collector
- Y10S 126/906 . Connecting plural solar collectors as a unit
- Y10S 126/907 . Absorber coating
- Y10S 126/908 . . Particular chemical
- Y10S 126/909 . Linear concentrating lens
- Y10S 126/91 . Heat storage liquid

### **Sugar, starch, and carbohydrates**

- Y10S 127/00**      **Sugar, starch, and carbohydrates**
- Y10S 127/01 . Caramel

**Surgery****Y10S 128/00**

Y10S 128/01

Y10S 128/03

Y10S 128/06

Y10S 128/07

Y10S 128/08

Y10S 128/10

Y10S 128/12

Y10S 128/13

Y10S 128/14

Y10S 128/15

Y10S 128/18

Y10S 128/19

Y10S 128/20

Y10S 128/21

Y10S 128/22

Y10S 128/23

Y10S 128/24

Y10S 128/25

Y10S 128/26

Y10S 128/27

Y10S 128/90

Y10S 128/901

Y10S 128/902

Y10S 128/903

Y10S 128/904

Y10S 128/905

Y10S 128/906

Y10S 128/907

Y10S 128/908

Y10S 128/909

Y10S 128/91

Y10S 128/911

Y10S 128/912

Y10S 128/913

Y10S 128/914

Y10S 128/915

**Surgery**

. Motorized syringe

. Heart-lung

. Intravenous injection support

. Servo-systems

. Collagen

. Fluid amplifiers

. Pressure infusion

. Infusion monitoring

. Polytetrafluoroethylene, i.e. PTFE

. Hook and loop type fastener

. Heat shrinkable film

. Clavicle splint

. Inflatable splint

. Silicone

. Blood coagulation

. Cervical collars

. Medical-surgical bags

. Artificial sphincters and devices for controlling urinary incontinence

. Cannula supporters

. Cryogenic

. Blood pressure recorder

. Suppression of noise in electric signal

. Biological signal amplifier

. Radio telemetry

. Telephone telemetry

. Feedback to patient of biological signal other than brain electric signal

. Multiphasic diagnostic clinic

. Acupuncture

. Patient protection from electric shock

. Breathing apparatus with means for preventing patient cross-contamination

. Anesthesia gas scavenging system

. Unilimb inhalation-exhalation breathing tubes

. Connections and closures for tubes delivering fluids to or from the body

. Breathable liquids

. Rebreathing apparatus for increasing carbon dioxide content in inhaled gas

. Ultrasound mammography

Y10S 128/916	. Ultrasound 3-D imaging
Y10S 128/917	. Body fluid, devices for protection therefrom, e.g. aids, hepatitis
Y10S 128/918	.. Condoms and shields
Y10S 128/919	.. Syringe, means to protect user
Y10S 128/92	. Computer assisted medical diagnostics
Y10S 128/921	.. Diet management
Y10S 128/922	.. including image analysis
Y10S 128/923	.. by comparison of patient data to other data
Y10S 128/924	... using artificial intelligence
Y10S 128/925	.. Neural network

### **Tobacco**

<b>Y10S 131/00</b>	<b>Tobacco</b>
Y10S 131/01	. Pipe literature
Y10S 131/90	. Liquified gas employed in puffing tobacco
Y10S 131/901	. Organic liquid employed in puffing tobacco
Y10S 131/902	. Inorganic chemical agents employed in puffing tobacco
Y10S 131/903	. Fixing the product after puffing
Y10S 131/904	. Pneumatic means for sensing condition or characteristic
Y10S 131/905	. Radiation source for sensing condition or characteristic
Y10S 131/906	. Sensing condition or characteristic of continuous tobacco rod
Y10S 131/907	. Ejection or rejection of finished article due to detected or sensed condition
Y10S 131/908	. Sensing unique characteristic or specific condition of finished product
Y10S 131/909	. Sensing condition in feed hopper for cigar or cigarette making
Y10S 131/91	. Sensing or detecting malfunction in cigar or cigarette maker

### **Toilet**

<b>Y10S 132/00</b>	<b>Toilet</b>
Y10S 132/901	. Comb tooth shape
Y10S 132/902	. Liquid treating forms and mandrels

### **Cleaning and liquid contact with solids**

<b>Y10S 134/00</b>	<b>Cleaning and liquid contact with solids</b>
Y10S 134/90	. Paint roller
Y10S 134/901	. Contact lens
Y10S 134/902	. Semiconductor wafer

**Tent, canopy, umbrella, or cane****Y10S 135/00****Tent, canopy, umbrella, or cane**

- Y10S 135/90 . Worker or spectator shelter
- Y10S 135/901 . Hunting blind or ice-fishing shelter
- Y10S 135/902 . Dressing shelter, e.g. beach or bathing
- Y10S 135/903 . Roller-operated canvas
- Y10S 135/904 . Separate storage means or housing for shelter
- Y10S 135/905 . Method of erecting shelter
- Y10S 135/906 . Arched structure
- Y10S 135/907 . Cover stretcher
- Y10S 135/908 . Super tent or canopy
- Y10S 135/909 . Fitting
- Y10S 135/91 . Illuminated cane or umbrella
- Y10S 135/911 . Cane for the blind
- Y10S 135/912 . Wheeled framework
- Y10S 135/913 . Flaccid cover made of netting

**Batteries: thermoelectric and photoelectric****Y10S 136/00****Batteries: thermoelectric and photoelectric**

- Y10S 136/29 . Testing, calibrating, treating, e.g. aging
- Y10S 136/291 . Applications
- Y10S 136/292 .. Space - satellite
- Y10S 136/293 .. Circuits

**Fluid handling****Y10S 137/00****Fluid handling**

- Y10S 137/90 . Bumpless manual to automatic relays
- Y10S 137/901 . Biased ball valves with operators
- Y10S 137/902 . Slush pump check valves
- Y10S 137/903 . Rubber valve springs
- Y10S 137/904 . Cushion check valves
- Y10S 137/905 . Rotary valves for multiple gas burners
- Y10S 137/906 . Valves biased by fluid "springs"
- Y10S 137/907 . Vacuum-actuated valves
- Y10S 137/908 . Respirator control
- Y10S 137/909 . Magnetic fluid valve
- Y10S 137/91 . Destructible or deformable element constructed of specific material



**Pipes and tubular conduits****Y10S 138/00****Pipes and tubular conduits**

- Y10S 138/01 . Adhesive
- Y10S 138/02 . Glass fiber
- Y10S 138/03 . Polytetrafluoroethylene, i.e. PTFE
- Y10S 138/04 . Air conditioning
- Y10S 138/05 . Pre-stress
- Y10S 138/06 . Corrosion
- Y10S 138/07 . Resins
- Y10S 138/08 . Bent shaped retained
- Y10S 138/09 . Cellular
- Y10S 138/10 . Metal foil
- Y10S 138/11 . Shape

**Textiles: weaving****Y10S 139/00****Textiles: weaving**

- Y10S 139/01 . Bias fabric digest

**Fluent material handling, with receiver or receiver coacting means****Y10S 141/00****Fluent material handling, with receiver or receiver coacting means**

- Y10S 141/01 . Magnetic
- Y10S 141/02 . Fluidic flow control valves

**Metal treatment****Y10S 148/00****Metal treatment**

- Y10S 148/001 . Amorphous semiconductor
- Y10S 148/002 . Amphoteric doping
- Y10S 148/003 . Anneal
- Y10S 148/004 . Annealing, incoherent light
- Y10S 148/005 . Antimonides of gallium or indium
- Y10S 148/006 . Apparatus
- Y10S 148/007 . Autodoping
- Y10S 148/008 . Bi-level fabrication
- Y10S 148/009 . Bi-MOS
- Y10S 148/01 . Bipolar transistors-ion implantation
- Y10S 148/011 . Bipolar transistors

Y10S 148/012	. Bonding e.g. electrostatic for strain gauges
Y10S 148/013	. Breakdown voltage
Y10S 148/014	. Capacitor
Y10S 148/015	. Capping layer
Y10S 148/016	. Catalyst
Y10S 148/017	. Clean surfaces
Y10S 148/018	. Compensation doping
Y10S 148/019	. Contacts of silicides
Y10S 148/02	. Contacts, special
Y10S 148/021	. Continuous process
Y10S 148/022	. Controlled atmosphere
Y10S 148/023	. Deep level dopants
Y10S 148/024	. Defect control-gettering and annealing
Y10S 148/025	. Deposition multi-step
Y10S 148/026	. Deposition thru hole in mask
Y10S 148/027	. Dichlorosilane
Y10S 148/028	. Dicing
Y10S 148/029	. Differential crystal growth rates
Y10S 148/03	. Diffusion
Y10S 148/031	. Diffusion at an edge
Y10S 148/032	. Diffusion length
Y10S 148/033	. Diffusion of aluminum
Y10S 148/034	. Diffusion of boron or silicon
Y10S 148/035	. Diffusion through a layer
Y10S 148/036	. Diffusion, nonselective
Y10S 148/037	. Diffusion-deposition
Y10S 148/038	. Diffusions-staged
Y10S 148/039	. Displace P-N junction
Y10S 148/04	. Dopants, special
Y10S 148/041	. Doping control in crystal growth
Y10S 148/042	. Doping, graded, for tapered etching
Y10S 148/043	. Dual dielectric
Y10S 148/044	. Edge diffusion under mask
Y10S 148/045	. Electric field
Y10S 148/046	. Electron beam treatment of devices
Y10S 148/047	. Emitter dip
Y10S 148/048	. Energy beam assisted EPI growth
Y10S 148/049	. Equivalence and options
Y10S 148/05	. Etch and refill
Y10S 148/051	. Etching

Y10S 148/052	. Face to face deposition
Y10S 148/053	. Field effect transistors fets
Y10S 148/054	. Flat sheets-substrates
Y10S 148/055	. Fuse
Y10S 148/056	. Gallium arsenide
Y10S 148/057	. Gas flow control
Y10S 148/058	. Ge germanium
Y10S 148/059	. Germanium on silicon or Ge-Si on III-V
Y10S 148/06	. Gettering
Y10S 148/061	. Gettering-armorphous layers
Y10S 148/062	. Gold diffusion
Y10S 148/063	. Gp II-IV-VI compounds
Y10S 148/064	. Gp II-VI compounds
Y10S 148/065	. Gp III-V generic compounds-processing
Y10S 148/066	. Gp III-V liquid phase epitaxy
Y10S 148/067	. Graded energy gap
Y10S 148/068	. Graphite masking
Y10S 148/069	. Green sheets
Y10S 148/07	. Guard rings and cmos
Y10S 148/071	. Heating, selective
Y10S 148/072	. Heterojunctions
Y10S 148/073	. Hollow body
Y10S 148/074	. Horizontal melt solidification
Y10S 148/075	. Imide resists
Y10S 148/076	. Implant
Y10S 148/077	. Implantation of silicon on sapphire
Y10S 148/078	. Impurity redistribution by oxidation
Y10S 148/079	. Inert carrier gas
Y10S 148/08	. Infra-red
Y10S 148/081	. Insulators
Y10S 148/082	. Ion implantation FETs/COMs
Y10S 148/083	. Ion implantation, general
Y10S 148/084	. Ion implantation of compound devices
Y10S 148/085	. Isolated-integrated
Y10S 148/086	. Isolated zones
Y10S 148/087	. I2L integrated injection logic
Y10S 148/088	. J-Fet, i.e.junction field effect transistor
Y10S 148/089	. Josephson devices
Y10S 148/09	. Laser anneal
Y10S 148/091	. Laser beam processing of fets

Y10S 148/092	. Laser beam processing-diodes or transistor
Y10S 148/093	. Laser beam treatment in general
Y10S 148/094	. Laser beam treatment of compound devices
Y10S 148/095	. Laser devices
Y10S 148/096	. Lateral transistor
Y10S 148/097	. Lattice strain and defects
Y10S 148/098	. Layer conversion
Y10S 148/099	. LED, multicolor
Y10S 148/10	. Lift-off masking
Y10S 148/101	. Liquid Phase Epitaxy, LPE
Y10S 148/102	. Mask alignment
Y10S 148/103	. Mask, dual function e.g. diffusion and oxidation
Y10S 148/104	. Mask, movable
Y10S 148/105	. Masks, metal
Y10S 148/106	. Masks, special
Y10S 148/107	. Melt
Y10S 148/108	. Melt back
Y10S 148/109	. Memory devices
Y10S 148/11	. Metal-organic CVD, ruehrwein type
Y10S 148/111	. Narrow masking
Y10S 148/112	. Nitridation, direct, of silicon
Y10S 148/113	. Nitrides of boron or aluminum or gallium
Y10S 148/114	. Nitrides of silicon
Y10S 148/115	. Orientation
Y10S 148/116	. Oxidation, differential
Y10S 148/117	. Oxidation, selective
Y10S 148/118	. Oxide films
Y10S 148/119	. Phosphides of gallium or indium
Y10S 148/12	. Photocathodes-Cs coated and solar cell
Y10S 148/121	. Plastic temperature
Y10S 148/122	. Polycrystalline
Y10S 148/123	. Polycrystalline diffuse anneal
Y10S 148/124	. Polycrystalline emitter
Y10S 148/125	. Polycrystalline passivation
Y10S 148/126	. Power FETs
Y10S 148/127	. Process induced defects
Y10S 148/128	. Proton bombardment of silicon
Y10S 148/129	. Pulse doping
Y10S 148/13	. Purification
Y10S 148/131	. Reactive ion etching rie

Y10S 148/132	. Recoil implantation
Y10S 148/133	. Reflow oxides and glasses
Y10S 148/134	. Remelt
Y10S 148/135	. Removal of substrate
Y10S 148/136	. Resistors
Y10S 148/137	. Resists
Y10S 148/138	. Roughened surface
Y10S 148/139	. Schottky barrier
Y10S 148/14	. Schottky barrier contacts
Y10S 148/141	. Self-alignment coat gate
Y10S 148/142	. Semiconductor-metal-semiconductor
Y10S 148/143	. Shadow masking
Y10S 148/144	. Shallow diffusion
Y10S 148/145	. Shaped junctions
Y10S 148/146	. Sheet resistance, dopant parameters
Y10S 148/147	. Silicides
Y10S 148/148	. Silicon carbide
Y10S 148/149	. Silicon on III-V
Y10S 148/15	. Silicon on sapphire SOS
Y10S 148/151	. Simultaneous diffusion
Y10S 148/152	. Single crystal on amorphous substrate
Y10S 148/153	. Solar cells-implantations-laser beam
Y10S 148/154	. Solid phase epitaxy
Y10S 148/155	. Solid solubility
Y10S 148/156	. Sonos
Y10S 148/157	. Special diffusion and profiles
Y10S 148/158	. Sputtering
Y10S 148/159	. Strain gauges
Y10S 148/16	. Superlattice
Y10S 148/161	. Tapered edges
Y10S 148/162	. Testing steps
Y10S 148/163	. Thick-thin oxides
Y10S 148/164	. Three dimensional processing
Y10S 148/165	. Transmutation doping
Y10S 148/166	. Traveling solvent method
Y10S 148/167	. Two diffusions in one hole
Y10S 148/168	. V-Grooves
Y10S 148/169	. Vacuum deposition, e.g. including molecular beam epitaxy
Y10S 148/17	. Vapor-liquid-solid
Y10S 148/171	. Varistor

Y10S 148/172	. Vidicons
Y10S 148/173	. Washed emitter
Y10S 148/174	. Zener diodes
Y10S 148/90	. Ion implanted
Y10S 148/901	. Surface depleted in an alloy component, e.g. decarburized
Y10S 148/902	. having portions of differing metallurgical properties or characteristics
Y10S 148/903	.. Directly treated with high energy electromagnetic waves or particles, e.g. laser, electron beam
Y10S 148/904	.. Crankshaft
Y10S 148/905	.. Cutting tool
Y10S 148/906	.. Roller bearing element
Y10S 148/907	.. Threaded or headed fastener
Y10S 148/908	.. Spring
Y10S 148/909	.. Tube
Y10S 148/91	.. in pattern discontinuous in two dimensions, e.g. checkerboard pattern

#### **Explosive and thermic compositions or charges**

<b>Y10S 149/00</b>	<b>Explosive and thermic compositions or charges</b>
Y10S 149/11	. Particle size of a component
Y10S 149/111	.. Nitrated organic compound
Y10S 149/112	.. Inorganic nitrogen-oxygen salt
Y10S 149/113	.. Inorganic oxygen-halogen salt
Y10S 149/114	.. Inorganic fuel
Y10S 149/115	.. Organic fuel
Y10S 149/116	. Flare contains resin
Y10S 149/117	. Smoke or weather composition contains resin
Y10S 149/118	. Gel contains resin
Y10S 149/119	. Oxidizer compounds
Y10S 149/12	. High energy fuel compounds
Y10S 149/121	.. Containing B, P or S
Y10S 149/122	.. Containing N, without B, P or S
Y10S 149/123	. Tagged compositions for identifying purposes
Y10S 149/124	. Methods for reclaiming or disposing of one or more materials in a composition

#### **Purses, wallets, and protective covers**

<b>Y10S 150/00</b>	<b>Purses, wallets, and protective covers</b>
Y10S 150/90	. Means biasing mouth in open or closed configuration
Y10S 150/901	. insulating flaccid cover

**Resilient tires and wheels****Y10S 152/00****Resilient tires and wheels**

- Y10S 152/01 . Pebble ejectors
- Y10S 152/02 . Static discharge
- Y10S 152/03 . Slits in threads
- Y10S 152/04 . Crack resistant
- Y10S 152/05 . Water filled
- Y10S 152/06 . Peg leg
- Y10S 152/07 . Rubber valves
- Y10S 152/08 . Clamps
- Y10S 152/09 . Bead to rim seal
- Y10S 152/10 . Split rim seal
- Y10S 152/11 . Tubeless valves
- Y10S 152/12 . White sidewalls
- Y10S 152/13 . Valves stem guards
- Y10S 152/14 . Fabrics
- Y10S 152/15 . Overlap
- Y10S 152/16 . Air impermeable liner
- Y10S 152/17 . Grooved rim
- Y10S 152/18 . Hub tires
- Y10S 152/19 . Sandwich breakers
- Y10S 152/20 . Rims for inverted bead tires
- Y10S 152/90 . Tread pattern having no blocks and having circumferential ribs defined by zig-zag circumferential grooves
- Y10S 152/901 . Tread pattern having no blocks and having circumferential ribs defined by linear circumferential grooves having straight edges
- Y10S 152/902 . Non-directional tread pattern having no circumferential rib and having blocks defined by circumferential grooves and transverse grooves
- Y10S 152/903 . Non-directional tread pattern having non-circumferential transverse groove following smooth curved path
- Y10S 152/904 . Specified tread pattern for front tire and rear tire
- Y10S 152/905 . Tread composition

**Adhesive bonding and miscellaneous chemical manufacture****Y10S 156/00****Adhesive bonding and miscellaneous chemical manufacture**

- Y10S 156/906 . Off-drum manufacture of tire fabric or ply
- Y10S 156/907 . . including assembly of bias-cut fabric
- Y10S 156/908 . Laminating sheet to entire edge of block and both adjacent opposite surfaces, e.g. bookbinding

- Y10S 156/909 . Apparatus for applying new tread to used tire casing, e.g. retreading, recapping
- Y10S 156/91 . Bonding tire cord and elastomer: improved adhesive system
- Y10S 156/912 . Differential etching apparatus having a vertical tube reactor
- Y10S 156/913 . Differential etching apparatus having a horizontal tube reactor
- Y10S 156/914 . Differential etching apparatus including particular materials of construction
- Y10S 156/915 . Differential etching apparatus including focus ring surrounding a wafer for plasma apparatus
- Y10S 156/916 . Differential etching apparatus including chamber cleaning means or shield for preventing deposits
- Y10S 156/917 . Differential etching apparatus having a barrel reactor
- Y10S 156/918 . Delaminating processes adapted for specified product, e.g. delaminating medical specimen slide
- Y10S 156/919 . . Delaminating in preparation for post processing recycling step
- Y10S 156/92 . . . Textile delaminating in preparation for recycling, e.g. carpet
- Y10S 156/921 . . . Delaminating container component in preparation for recycling, e.g. glass bottle, plastic bottle
- Y10S 156/922 . . . Specified electronic component delaminating in preparation for recycling
- Y10S 156/923 . . . . Delaminating wire or optical fiber laminate, e.g. coaxial cable, optical cable
- Y10S 156/924 . . . . Delaminating display screen, e.g. cathode-ray, LCD screen
- Y10S 156/925 . . . . . Delaminating display screen using sintering for delamination
- Y10S 156/926 . . . Delaminating recording media, e.g. DVD, CD, HD, flash memory
- Y10S 156/927 . . . Delaminating vehicle component, e.g. brake pad
- Y10S 156/928 . . . . Delaminating tire, e.g. tread from carcass
- Y10S 156/929 . . Delaminating component from building, e.g. wall paper, shingle
- Y10S 156/93 . . Semiconductive product delaminating, e.g. delaminating emiconductive wafer from underlayer
- Y10S 156/931 . . . Peeling away backing
- Y10S 156/932 . . . . with poking during delaminating, e.g. jabbing release sheet backing to remove wafer
- Y10S 156/934 . Apparatus having delaminating means adapted for delaminating a specified article
- Y10S 156/935 . . Delaminating means in preparation for post consumer recycling
- Y10S 156/936 . . . Means for delaminating container component in preparation for recycling, e.g. glass bottle, plastic bottle
- Y10S 156/937 . . . Means for delaminating specified electronic component in preparation for recycling
- Y10S 156/938 . . . . Means for delaminating record media for recycling, e.g. CD, DVD, HD, flash memory
- Y10S 156/939 . . . Means for delaminating vehicle component, e.g. tread from carcass, brake pad
- Y10S 156/94 . . . Means adapted for delaminating component from building, e.g. wall paper, shingle
- Y10S 156/941 . . Means for delaminating semiconductive product
- Y10S 156/942 . . . with reorientation means
- Y10S 156/943 . . . with poking delaminating means, e.g. jabbing means



**Concentrating evaporators****Y10S 159/00****Concentrating evaporators**

- Y10S 159/01 . Electric heat
- Y10S 159/02 . Entrainment
- Y10S 159/03 . Fluidized bed
- Y10S 159/04 . Foam
- Y10S 159/05 . Freezing
- Y10S 159/06 . Infrared
- Y10S 159/07 . Magnetic coupling
- Y10S 159/08 . Multieffect or multistage
- Y10S 159/09 . Two liquids dried simultaneously
- Y10S 159/10 . Organic
- Y10S 159/11 . Biologicals
- Y10S 159/12 . Radioactive
- Y10S 159/13 . Scale
- Y10S 159/14 . Soap
- Y10S 159/15 . Special material
- Y10S 159/16 . Vacuum
- Y10S 159/17 . Two liquids
- Y10S 159/18 . Accumulator
- Y10S 159/19 . Acid
- Y10S 159/20 . Additive
- Y10S 159/21 . Coating
- Y10S 159/22 . Condensate flashing
- Y10S 159/23 . Cooling
- Y10S 159/24 . Critical
- Y10S 159/25 . Decant, press, centrifuge
- Y10S 159/26 . Electric field
- Y10S 159/27 . Micropores
- Y10S 159/28 . Porous member
- Y10S 159/29 . Pebble bed
- Y10S 159/30 . Desuper heating
- Y10S 159/31 . Deaeration
- Y10S 159/32 . Indirect heat exchange
- Y10S 159/33 . Two liquids, one a heat carrier
- Y10S 159/34 . Caustic
- Y10S 159/35 . Viewports, peepsights, and sightglasses
- Y10S 159/36 . Rabbled hearth

Y10S 159/37	. Ported
Y10S 159/38	. Seed
Y10S 159/39	. Power plant
Y10S 159/40	. Pumps
Y10S 159/41	. Removable units
Y10S 159/42	. Seals
Y10S 159/90	. using vibratory force
Y10S 159/901	. Promoting circulation
Y10S 159/902	. using natural heat
Y10S 159/903	.. Solar
Y10S 159/904	... Floating solar still
Y10S 159/905	. Sewage treatment
Y10S 159/906	. Wick

#### **Flexible or portable closure, partition, or panel**

<b>Y10S 160/00</b>	<b>Flexible or portable closure, partition, or panel</b>
Y10S 160/01	. Auto radiator screens
Y10S 160/02	. Auto screens and miscellaneous
Y10S 160/03	. Auto visors and glare shields
Y10S 160/04	. Auto side awnings
Y10S 160/05	. Awning head and front bars
Y10S 160/06	. Bath curtains
Y10S 160/07	. Fabric
Y10S 160/08	. Flexible door
Y10S 160/09	. Fireplace screen
Y10S 160/10	. Roll screen
Y10S 160/11	. Roll screen idler roll
Y10S 160/12	. Overlapping, on windows
Y10S 160/13	. Suction cup
Y10S 160/14	. Step joints
Y10S 160/15	. Web-to-tube fasteners
Y10S 160/16	. Magnetic
Y10S 160/17	. Venetian blinds, motor driven
Y10S 160/18	. Zipper
Y10S 160/19	. Storm sash
Y10S 160/90	. Vertical type venetian blind
Y10S 160/901	. Lazy-tong connected plural strips, slats, or panels
Y10S 160/902	. Venetian blind type bracket means
Y10S 160/903	. Roll type bracket means

Y10S 160/904	. Electric or pneumatic awning operator
Y10S 160/905	. Lazy-tong-link awning operator
Y10S 160/906	. Screw-threaded awning operator
Y10S 160/907	. Spring, other than spring roller, awning operator
Y10S 160/908	. Strand awning operator
Y10S 160/909	.. Endless strand
Y10S 160/91	.. Drum wound strand
Y10S 160/911	. Worm gear awning operator
Y10S 160/912	. Rack-and-pinion awning operator
Y10S 160/913	. Gear awning operator

### **Paper making and fiber liberation**

<b>Y10S 162/00</b>	<b>Paper making and fiber liberation</b>
Y10S 162/02	. Chip soaking
Y10S 162/03	. Wetting agent
Y10S 162/04	. Pitch control
Y10S 162/05	. Alpha cellulose
Y10S 162/06	. Moisture and basic weight
Y10S 162/07	. Water collectors, e.g. save-alls
Y10S 162/08	. Chlorine-containing liquid regeneration
Y10S 162/09	. Uses for paper making sludge
Y10S 162/10	.. Computer control of paper making variables
Y10S 162/11	... Wet end paper making variables
Y10S 162/12	. Seasoning
Y10S 162/90	. Papermaking press felts
Y10S 162/901	. Impermeable belts for extended nip press
Y10S 162/902	. Woven fabric for papermaking drier section
Y10S 162/903	. Paper forming member, e.g. fourdrinier, sheet forming member
Y10S 162/904	. with specified seam structure of papermaking belt

### **Metal founding**

<b>Y10S 164/00</b>	<b>Metal founding</b>
Y10S 164/01	. Battery
Y10S 164/02	. Bearing
Y10S 164/03	. Centrifugal
Y10S 164/04	. Dental
Y10S 164/05	. Electron beam
Y10S 164/06	. Ingot

Y10S 164/07	. Melt
Y10S 164/08	. Piston
Y10S 164/09	. Piston-vacuum
Y10S 164/10	. Rotor
Y10S 164/11	. Slush
Y10S 164/12	. Thermit
Y10S 164/13	. Valve
Y10S 164/14	. Wheel
Y10S 164/15	. Precision casting
Y10S 164/90	. Rheo-casting

### **Heat exchange**

#### **Y10S 165/00**

#### **Heat exchange**

Y10S 165/001	. with alarm, indicator, recorder, test, or inspection means
Y10S 165/002	.. Energy, efficiency, performance or malfunction
Y10S 165/003	.. Remote control inspection means
Y10S 165/004	.. Sight glass
Y10S 165/005	.. Fluid level or amount
Y10S 165/006	.. Temperature
Y10S 165/007	.. Flow or valve position
Y10S 165/008	.. Leakage
Y10S 165/009	. having a solid heat storage mass for absorbing heat from one fluid and releasing it to another, i.e. regenerator
Y10S 165/01	.. Cleaning storage mass
Y10S 165/011	... Reciprocating cleaner device, e.g. scraper, sprayer
Y10S 165/012	... Spray nozzle cleaner
Y10S 165/013	.. Movable heat storage mass with enclosure
Y10S 165/014	... Reciprocated linearly
Y10S 165/015	... with pump
Y10S 165/016	... Rotary storage mass
Y10S 165/017	.... with thermal expansion compensating means
Y10S 165/018	.... having means controlling direction or rate of flow
Y10S 165/019	..... Plate type shutter associated with face of storage mass
Y10S 165/02	.... Seal and seal-engaging surface are relatively movable
Y10S 165/021	..... Seal engaging a face of cylindrical heat storage mass
Y10S 165/022	..... Seal defining sector-shaped flow area
Y10S 165/023	..... Brush-type seal
Y10S 165/024	..... Circumferential seal
Y10S 165/025	..... Heat resistant material seal

Y10S 165/026	....	Seal attached to and rotating with storage mass
Y10S 165/027	....	with particular rotary bearing or drive means
Y10S 165/028	.....	Ring gear surrounding cylindrical storage mass
Y10S 165/029	....	Cylindrical storage mass with axial flow passages
Y10S 165/03	..	Mass formed of modules arranged in three dimensional matrix, i.e. checkerwork
Y10S 165/031	...	Gradated flow area, heat capacity or conductivity
Y10S 165/032	...	having gas supply or exhaust manifold structure
Y10S 165/033	....	with flow control device, i.e. valve
Y10S 165/034	....	with flow distributing baffle
Y10S 165/035	...	in casing
Y10S 165/036	...	Distinct passages formed in individual modules
Y10S 165/037	..	having flow diverting means, e.g. valve to selectively control flow through storage mass
Y10S 165/038	...	Correlated control of plural diverting means
Y10S 165/039	....	Synchronously rotated flow guiding hoods disposed on opposite sides of fixed regenerator
Y10S 165/04	....	Linearly movable diverting means
Y10S 165/041	...	Rotary diverting means
Y10S 165/042	..	Particular structure of heat storage mass
Y10S 165/043	...	Element for constructing regenerator rotor
Y10S 165/044	.	having flexible heat exchange surface conforming to a solid structure, e.g. applicator
Y10S 165/045	..	Conform to head, neck, or face
Y10S 165/046	..	Heat exchange body suit
Y10S 165/047	..	for cooling
Y10S 165/048	...	Electrical component
Y10S 165/049	...	Or for heating
Y10S 165/05	....	including a pump or valve
Y10S 165/051	.	having expansion and contraction relieving or absorbing means
Y10S 165/052	..	for cylindrical heat exchanger
Y10S 165/053	...	Flexible or movable header or header element
Y10S 165/054	....	Movable header, e.g. floating header
Y10S 165/055	.....	including guiding means for movable header
Y10S 165/056	.....	Fluid sealing means between movable header and enclosure
Y10S 165/057	....	Flexing tubesheet
Y10S 165/058	....	Movable tubesheet, e.g. floating tubesheet
Y10S 165/059	.....	Tubesheet connected to enclosure by expansion joint
Y10S 165/06	...	Expandable casing for cylindrical heat exchanger
Y10S 165/061	....	for plural cylindrical heat exchangers
Y10S 165/062	....	having particular external casing support means
Y10S 165/063	...	Cylindrical heat exchanger fixed to fixed end supports

Y10S 165/064	....	including intermediate support
Y10S 165/065	....	Bent cylindrical heat exchanger
Y10S 165/066	.....	Coiled
Y10S 165/067	...	Cylindrical heat exchanger rectilinearly slidable relative to its support
Y10S 165/068	....	including fluid seal
Y10S 165/069	...	Pivotal support for cylindrical heat exchanger
Y10S 165/07	...	Resilient fluid seal
Y10S 165/071	..	Resilient fluid seal for plate-type heat exchanger
Y10S 165/072	.	Agitator or impeller motor operated by first heat exchange fluid
Y10S 165/073	..	To agitate or move second heat exchange fluid
Y10S 165/074	...	Agitator structure confines first heat exchange fluid
Y10S 165/075	...	Agitator structure confines second heat exchange fluid
Y10S 165/076	.	with scraper for removing product from heat transfer surface
Y10S 165/077	..	Screw shaped scraper
Y10S 165/078	..	Linearly operated scraper
Y10S 165/079	...	Reciprocated linearly
Y10S 165/08	..	Plural scrapers for spaced shelves or chambers
Y10S 165/081	..	Rotary heat exchange scraper or scraper for rotary heat exchange surface
Y10S 165/082	...	Grooved drum surface
Y10S 165/083	...	Scraper attached to or formed part of rotary heat exchange fluid surface
Y10S 165/084	...	Scraper within annular space formed by concentric cylinders or concentric conical surfaces
Y10S 165/085	...	Scraper for cleaning inner surface of rotary heat exchange surface
Y10S 165/086	...	Weight operated scraper
Y10S 165/087	...	Spring pressed scraper
Y10S 165/088	...	Adjustable scraper
Y10S 165/089	...	for scraping flat horizontal surface
Y10S 165/09	...	Scraper blade movable relative to scraper blade support, e.g. pivoting blade, rocking blade
Y10S 165/091	...	for scraping wall of cylindrical heat exchanger
Y10S 165/092	.	with valve or movable deflector for heat exchange fluid flow
Y10S 165/093	..	Adjustable radiator face covering means, e.g. adjustable shield for car radiator, heater core
Y10S 165/094	...	Windowshade type, i.e. sheet feeds off roller
Y10S 165/095	...	Rectilinear sliding movement of adjustable cover
Y10S 165/096	...	Pivotal movement of adjustable cover
Y10S 165/097	....	Plural parallel pivotable shutters
Y10S 165/098	.....	One shutter section having different flow area or flow direction with another shutter section
Y10S 165/099	.....	with fan
Y10S 165/10	..	Flow direction reversed through heat exchanger

Y10S 165/101	..	for controlling supply of heat exchange fluid flowing between hydraulically independent heat exchange sections
Y10S 165/102	...	Hydraulically independent single-confined-fluid radiator sections for heating ambient air
Y10S 165/103	....	Valves each controls a radiator section
Y10S 165/104	...	Hydraulically independent heat exchange sections connected in parallel
Y10S 165/105	....	Correlated valves
Y10S 165/106	....	Valves each controls a heat exchange section
Y10S 165/107	.....	Hydraulically independent heat exchange tubes disposed in housing, e.g. tank, casing
Y10S 165/108	.....	Coiled tubes
Y10S 165/109	..	with by-pass of heat exchanger or heat exchanger section
Y10S 165/11	...	Bypass within or surrounds heat exchanger
Y10S 165/111	....	Heat exchanger enclosing a fluid conduit confining second heat exchange fluid
Y10S 165/112	.....	Stove pipe drum having air draft passage for heating ambient air
Y10S 165/113	....	Bypass centrally located in heat exchanger
Y10S 165/114	.....	having perforated wall
Y10S 165/115	.....	Surrounding by a helical flow channel
Y10S 165/116	.....	Plural adjacent flow channel parallel to central bypass
Y10S 165/117	.....	Arranged for series flow therethrough
Y10S 165/118	....	Serpentine heat exchange flow path
Y10S 165/119	....	Bypass controlled by pivotal damper
Y10S 165/12	...	U or serpentine heat exchange flow path
Y10S 165/121	....	Serpentine heat exchange flow path
Y10S 165/122	....	U heat exchange flow path and linear bypass
Y10S 165/123	..	Heat exchange flow path through heat exchanger altered, e.g. crossed
Y10S 165/124	...	Stove pipe drum
Y10S 165/125	....	Valve mounted on fixed deflector
Y10S 165/126	..	Total flow rate through heat exchanger controlled by valve
Y10S 165/127	...	Stove pipe drum
Y10S 165/128	....	including air draft passage for heating ambient air
Y10S 165/129	...	Valve regulates flow through housing enclosing heat exchanger
Y10S 165/13	....	including valve regulating flow through heat exchanger
Y10S 165/131	...	Single-confined-fluid radiator for heating ambient air
Y10S 165/132	.	with adjustor for heat flow
Y10S 165/133	..	Conduction rate
Y10S 165/134	...	by varying thickness of conductive layer, e.g. air gap
Y10S 165/135	.	Movable heat exchanger
Y10S 165/136	..	Movable belt or strip transfers heat to or from objects or material thereon
Y10S 165/137	..	Unconstrained movement, e.g. float

Y10S 165/138	..	Partially rotatable, e.g. rocking, pivoting, oscillation, tilting
Y10S 165/139	..	Fully rotatable
Y10S 165/14	...	Rotating heat exchanger having rotating flow confining structures or chambers for two separate heat exchange fluids
Y10S 165/141	....	Concentric flow confining structures or chambers
Y10S 165/142	.....	Jacketed shell
Y10S 165/143	....	Discrete tubing having length extending along a longitudinal axis of rotating heat exchanger
Y10S 165/144	.....	Helical
Y10S 165/145	...	Radially extending hollow arm on rotating shaft traverses furnace shelf, e.g. rabble arm
Y10S 165/146	....	Angled blade suspended from arm for advancing material
Y10S 165/147	...	Fluid impeller or material advancer
Y10S 165/148	....	Auger
Y10S 165/149	.....	having hollow blade
Y10S 165/15	....	Radial or axial impeller
Y10S 165/151	.....	having hollow blade
Y10S 165/152	...	Rotating agitator
Y10S 165/153	....	Flow space or fluid chamber defined between two relatively movable, closely spaced coextensive surfaces
Y10S 165/154	....	Hollow tubing rotates in vessel to stir contents
Y10S 165/155	.....	Tubing has radially or axially extending sections
Y10S 165/156	...	Hollow cylindrical member, e.g. drum
Y10S 165/157	....	Fluid sprayed onto surface of rotatable cylinder
Y10S 165/158	....	having stationary material removal means
Y10S 165/159	....	with particular flow path or defined fluid chamber, e.g. annulus, spiral
Y10S 165/16	.....	Concentric shells define annular flow space
Y10S 165/161	.....	with means defining particular flow path, e.g. baffle
Y10S 165/162	.	Only direct-contact heat exchange between two separately supplied fluids
Y10S 165/163	.	including a means to form fluid film on heat transfer surface, e.g. trickle
Y10S 165/164	..	Film flow constrained to spiral path
Y10S 165/165	..	Film formed on spirally coiled member
Y10S 165/166	..	Vertically spaced pipe sections contact liquid in underlying troughs
Y10S 165/167	..	Liquid film flows sequentially along upper surfaces of vertically spaced trays, i.e. shelf-to-shelf
Y10S 165/168	..	Film formed on interior surface of container or pipe
Y10S 165/169	...	inside of vertical pipe
Y10S 165/17	....	Distributor "cap" mounted in top end of pipe
Y10S 165/171	..	including means at top end of vertical pipe to distribute liquid film on pipe exterior
Y10S 165/172	..	Film flows along exterior of plural pipe sections
Y10S 165/173	...	Pipe exterior surfaces about to form continuous surface



Y10S 165/174	...	Intervening members extend between spaced pipe sections to form continuous surface
Y10S 165/175	...	Horizontally extending, parallel sections disposed in vertical array, i.e. one pipe directly above another
Y10S 165/176	....	with means suspended beneath pipe surface to guide liquid droplets
Y10S 165/177	..	Film flows along upper surface of tray
Y10S 165/178	...	Parallel corrugated vertical sheets formed fluid passage therebetween
Y10S 165/179	...	Container enclosed by casing
Y10S 165/18	...	Vertically disposable elongated member
Y10S 165/181	...	Horizontally disposable elongated member
Y10S 165/182	.	Indirect-contact cooling tower
Y10S 165/183	.	Indirect-contact evaporator
Y10S 165/184	.	Indirect-contact condenser
Y10S 165/185	..	having stacked plates forming flow channel therebetween
Y10S 165/186	...	Stacked plates surrounded by housing confining another fluid
Y10S 165/187	..	having pump downstream of condenser
Y10S 165/188	...	Pump to remove only uncondensed vapor or air
Y10S 165/189	....	From a first-stage direct-contact condenser
Y10S 165/19	....	including second-stage indirect-contact condenser
Y10S 165/191	....	including second-stage direct-contact condenser
Y10S 165/192	..	including means to heat collected condensate
Y10S 165/193	..	First-stage condenser serially connected to second-stage condenser
Y10S 165/194	...	First stage direct-contact condenser
Y10S 165/195	..	including condensate collecting tray connected to condensate drain conduit to divert condensate around a section of heat transfer surface
Y10S 165/196	..	Baffle defines flow passage within header for condensate to bypass portion of vapor flow path
Y10S 165/197	..	including means for removing condensate from vapor flow path to bypass portion of vapor flow path
Y10S 165/198	..	Condensate guiding means attached to heat transfer surface
Y10S 165/199	...	Heat transfer tube surrounds by jacket condensate guiding means
Y10S 165/20	...	Condensate guiding means forms inside heat transfer tube
Y10S 165/201	...	including fin member associated with condensate guiding means
Y10S 165/202	..	Vapor flow passage between vapor inlet and outlet has decreasing cross-sectional area
Y10S 165/203	...	Coolant tubes arranged in groups to form vapor flow lanes of decreasing cross-sectional area
Y10S 165/204	..	including a direct-contact heat exchange chamber
Y10S 165/205	..	Space for condensable vapor surrounds space for coolant
Y10S 165/206	...	including coiled heat exchange tube
Y10S 165/207	...	Distinct outlets for separated condensate and gas
Y10S 165/208	....	including vapor guide plate extending across vapor inlet

Y10S 165/209	....	including tube banks arranged in undulating pattern, e.g. w shape
Y10S 165/21	....	including perforated baffle completely surrounding a group of coolant tube
Y10S 165/211	....	including concave member adjacent to vapor outlet and partially covering a group of coolant tubes
Y10S 165/212	....	including inclined flat condensate guiding means
Y10S 165/213	....	including baffle partially covering a group of coolant tubes
Y10S 165/214	....	including baffle structure for reversing flow direction of vapor
Y10S 165/215	...	having longitudinal partition extending parallel to longitudinal axis of coolant tube
Y10S 165/216	...	having partition transverse to longitudinal axis of coolant tube
Y10S 165/217	..	Space for coolant surrounds space for vapor
Y10S 165/218	...	Condensor adapted to cover opening at top of vapor generator
Y10S 165/219	....	Radiator cap condenser
Y10S 165/22	...	U-shaped or spur tubes connected to adjacent inlet and outlet headers
Y10S 165/221	...	Vapor is the only confined fluid
Y10S 165/222	....	Plural parallel tubes confining vapor connecting between spaced headers
Y10S 165/223	...	Vapor tube enclosed by coolant confining shell
Y10S 165/224	.	including a means to form a fluid jet
Y10S 165/225	.	with solid conveyor
Y10S 165/226	..	Screw conveyor
Y10S 165/227	..	Belt conveyor
Y10S 165/228	.	with fan or pump
Y10S 165/229	..	Screw conveyor in pipe or tank
Y10S 165/30	..	Injector-type pump
Y10S 165/301	...	having nested nozzles
Y10S 165/302	..	Rotary gas pump
Y10S 165/303	...	Annular heat exchanger
Y10S 165/304	....	Axial impeller
Y10S 165/305	.....	Located at heat-exchange housing inlet
Y10S 165/306	.....	Located at heat-exchange housing outlet
Y10S 165/307	...	including plural impellers
Y10S 165/308	....	Coaxial impellers
Y10S 165/309	.....	Radial impeller
Y10S 165/31	...	Heat exchanger located at housing inlet or outlet
Y10S 165/311	...	including particular flow deflector, e.g. shroud, diffuser
Y10S 165/312	....	Plural parallel deflectors
Y10S 165/313	....	Deflector with curved surface
Y10S 165/314	...	Radial impeller
Y10S 165/315	....	Located at heat-exchange housing inlet
Y10S 165/316	...	Axial impeller located at heat-exchange housing inlet

Y10S 165/317	...	Axial impeller located at heat-exchange housing outlet
Y10S 165/318	.	with driven agitator
Y10S 165/319	..	Linearly moving agitator
Y10S 165/32	..	Fully rotary agitator
Y10S 165/321	...	Generating toroidal flow
Y10S 165/322	...	including heat exchange jacket-walls
Y10S 165/323	....	Heating or cooling coil disposed between jacket-walls
Y10S 165/324	....	Agitator having blade sections mounted along rotating shaft
Y10S 165/325	...	Blade sections mounted along rotating shaft
Y10S 165/326	...	Agitator and heating or cooling coil disposed in same housing
Y10S 165/327	.	Thermosyphonic having vertical air draft passage
Y10S 165/328	..	Air draft passage confined entirely or in part by fin structure
Y10S 165/329	...	Corrugated fin attached to heat transfer surface
Y10S 165/33	...	Air draft passage is parallel to flow direction of heating or cooling means
Y10S 165/331	..	Air draft passage confined entirely by heat transfer surface
Y10S 165/332	...	Coaxial ducts define air draft passage and annular passage for heat exchange fluid
Y10S 165/333	....	including baffle
Y10S 165/334	.....	Baffle located in annular passage
Y10S 165/335	...	Plural air draft passages enclosed by casing
Y10S 165/336	....	Angled air draft passage
Y10S 165/337	..	Heating or cooling means entirely surrounded by air draft passage forming casing
Y10S 165/338	...	Nested or concentric members define annular air draft passage and heating or cooling conduit
Y10S 165/339	....	with baffle
Y10S 165/34	...	including flow baffle in casing
Y10S 165/341	...	Parallel heating or cooling tubes or tubular sections, e.g. coil, serpentine
Y10S 165/342	.	Tank with heat exchanger
Y10S 165/343	..	Heat exchanger forms all or portion of tank
Y10S 165/344	...	Spiral coil forms hemispherical vessel
Y10S 165/345	...	Jacketed vessel
Y10S 165/346	....	Flow baffle or fin in annular flow space
Y10S 165/347	..	Heat exchanger forms cover for tank
Y10S 165/348	..	Heat exchanger within tank
Y10S 165/349	...	Supported by cover for tank
Y10S 165/35	...	Tubing removably coupled to inlet and outlet at tank wall
Y10S 165/351	...	Spaced from tank wall
Y10S 165/352	...	Flow directing baffle associated with heat exchanger tubing
Y10S 165/353	..	Tube coil bonded directly to tank exterior
Y10S 165/354	..	Heat exchanger serially connected to tank

Y10S 165/355	. . .	having separate flow passage for two distinct fluids
Y10S 165/356	. . .	Plural plates forming a stack providing flow passages therein
Y10S 165/357	. . . .	forming annular heat exchanger
Y10S 165/358	. . . . .	Radially arranged plates
Y10S 165/359	. . . . .	including means for modifying thermal stress in heat exchange plate
Y10S 165/36	. . . . .	Stacked plates having plurality of perforations
Y10S 165/361	. . . . .	Circular flow passages between plates
Y10S 165/362	. . . . .	Heat exchange liquids separated by double walls
Y10S 165/363	. . . . .	Slotted plates forming grid
Y10S 165/364	. . . . .	with fluid traversing passages formed through the plate
Y10S 165/365	. . . . .	including peripheral seal element forming flow channel bounded by seal and heat exchange plates
Y10S 165/366	. . . . .	Rigid or semi-rigid peripheral seal frame
Y10S 165/367	. . . . .	Peripheral seal element between corrugated heat exchange plates
Y10S 165/368	. . . . .	including angled corrugations with respect to flow direction
Y10S 165/369	. . . . .	including seal to plate attachment means
Y10S 165/37	. . . . .	Unitary heat exchange plate and projecting edge
Y10S 165/371	. . . . .	including mating flanges around fluid traversing passage
Y10S 165/372	. . . . .	Adjacent heat exchange plates having joined bent edge flanges for forming flow channels therebetween
Y10S 165/373	. . . . .	Adjacent heat exchange plates having joined bent edge flanges for forming flow channels therebetween
Y10S 165/374	. . . . .	Liquid to air heat exchanger having liquid passage formed by joined sheets
Y10S 165/375	. . . . .	Transverse air tubes
Y10S 165/376	. . . . .	Air passages defined by spacing projections of sheets
Y10S 165/377	. . . . .	Spacing projections formed by folded sheet portions
Y10S 165/378	. . . . .	including intermediate sheet supporting opposed spacing projections
Y10S 165/379	. . . . .	including corrugated air fin passages between adjacent liquid passages
Y10S 165/38	. . . . .	Air fin conforms to joined corrugated sheets forming plural liquid chambers
Y10S 165/381	. . . . .	including air fin apertures
Y10S 165/382	. . . . .	Overlapping flanges
Y10S 165/383	. . . . .	Interlocking flanges
Y10S 165/384	. . . . .	Thermally bonded side edges
Y10S 165/385	. . . . .	Bent sheet forming a single tube
Y10S 165/386	. . . . .	To form only air passages
Y10S 165/387	. . . . .	including side-edge seal or edge spacer bar
Y10S 165/388	. . . . .	including spacer bar transverse to plate stack
Y10S 165/389	. . . . .	Flow enhancer integral with side-edge seal or edge spacer bar
Y10S 165/39	. . . . .	Flange element to connect two adjacent heat exchange plates

Y10S 165/391	....	including intermediate corrugated element
Y10S 165/392	....	Unitary heat exchange plate and projecting edge
Y10S 165/393	...	including additional element between heat exchange plates
Y10S 165/394	....	Corrugated heat exchange plate
Y10S 165/395	..	Monolithic core having flow passages for two different fluids, e.g. one- piece ceramic
Y10S 165/396	...	Plurality of stacked monolithic cores
Y10S 165/397	...	including conduits embedded in monolithic block
Y10S 165/398	..	Spirally bent heat exchange plate
Y10S 165/399	..	Corrugated heat exchange plate
Y10S 165/40	..	Shell enclosed conduit assembly
Y10S 165/401	...	including tube support or shell-side flow director
Y10S 165/402	....	Manifold for shell-side fluid
Y10S 165/403	....	Preheater for shell-side fluid for preventing thermal shock to tube sheet
Y10S 165/404	....	Serially connected separate shells
Y10S 165/405	....	Extending in a longitudinal direction
Y10S 165/406	.....	Helically or spirally shaped
Y10S 165/407	.....	internal casing or tube sleeve
Y10S 165/408	.....	Tube sleeve
Y10S 165/409	.....	including transverse element, e.g. fin, baffle
Y10S 165/41	.....	Movable internal casing connecting to transverse element
Y10S 165/411	.....	Connecting to shell by specific structure
Y10S 165/412	.....	including transverse element, e.g. fin, baffle
Y10S 165/413	.....	for directing flow along the length of tube
Y10S 165/414	.....	for supporting coil tubes
Y10S 165/415	.....	including perforations
Y10S 165/416	....	Extending transverse of shell, e.g. fin, baffle
Y10S 165/417	.....	including spacer or support for transverse tube support or shell-side flow director
Y10S 165/418	.....	Tubular spacer sleeve
Y10S 165/419	.....	Spacer or support connected to shell
Y10S 165/42	.....	Segmented plate
Y10S 165/421	.....	Disc and donut plates
Y10S 165/422	.....	Unitary tube support or shell-side flow director carried by single tube
Y10S 165/423	.....	Bar
Y10S 165/424	.....	forming grid structure
Y10S 165/425	.....	having ends connected to ring element
Y10S 165/426	.....	Clamped tube spacer or support
Y10S 165/427	...	Manifold for tube-side fluid, i.e. parallel
Y10S 165/428	....	including flow director in manifold

Y10S 165/429	....	Line-connected conduit assemblies
Y10S 165/43	.....	Manifolds connected in parallel, e.g. multi-stage
Y10S 165/431	.....	Manifolds connected in series
Y10S 165/432	....	including a tube sheet
Y10S 165/433	.....	Tubes-tubesheet connection
Y10S 165/434	.....	Plural strips forming tubesheet
Y10S 165/435	....	Plural bonded conduit end portions, i.e. tubesheet not needed
Y10S 165/436	....	Bent conduit assemblies
Y10S 165/437	.....	Coiled
Y10S 165/438	.....	Helical
Y10S 165/439	...	Serially connected conduit assemblies, i.e. no manifold
Y10S 165/44	...	Coiled conduit assemblies
Y10S 165/441	....	Helical
Y10S 165/442	..	Conduits
Y10S 165/443	...	Adjacent conduits with transverse air passages, e.g. radiator core type
Y10S 165/444	....	including transversely stacked fin sheets
Y10S 165/445	....	including transverse corrugated fin sheets
Y10S 165/446	....	including intermediate sheet between adjacent tubes forming air fin passages
Y10S 165/447	.....	Corrugated sheet
Y10S 165/448	...	Air conduits, e.g. radiator core type
Y10S 165/449	...	Vertically stacked conduits
Y10S 165/45	....	including integral abutting or interlocking elements
Y10S 165/451	...	including bent conduits
Y10S 165/452	...	including fins
Y10S 165/453	..	Plural elements arranged to form a fluid passage
Y10S 165/454	.	having side-by-side conduits structure or conduit section
Y10S 165/455	..	Readily detachable tubes having ends with distinct fluid coupling members engaging corresponding coupling members on manifold
Y10S 165/456	..	Readily and independently detachable sections
Y10S 165/457	...	Individual manifolds for each section
Y10S 165/458	..	Self-contained sections hydraulically connected in series
Y10S 165/459	..	Strips with shaped, interfitted edges form heat exchanger core with plural passages
Y10S 165/46	...	with spacers interposed between adjacent passages
Y10S 165/461	..	Plate fins formed with tubular projections which join with projections of adjacent plates to form parallel conduits
Y10S 165/462	...	Tapering, nested projections
Y10S 165/463	....	Conduits oblong in cross section
Y10S 165/464	..	Conduits formed by joined pairs of matched plates
Y10S 165/465	...	Manifold space formed in end portions of plates
Y10S 165/466	....	Manifold spaces provided at one end only

Y10S 165/467	...	with turbulence enhancing pattern embossed on joined plates
Y10S 165/468	..	Core formed by stack tubular members with abutting edges
Y10S 165/469	..	Reinforcing rod or strip extends across parallel fin edges
Y10S 165/47	..	Tensioning member within manifold
Y10S 165/471	..	Plural parallel conduits joined by manifold
Y10S 165/472	...	U-shaped conduits connected to side-by-side manifolds
Y10S 165/473	...	with clamping member at joint between header plate and header tank
Y10S 165/474	....	with compressible seal at joint
Y10S 165/475	....	Header plate and tank of dissimilar materials
Y10S 165/476	...	Fusion joint, e.g. solder, braze between tube plate and header tank
Y10S 165/477	...	Elastic seal element between conduit ends and receiving holes in header plate
Y10S 165/478	...	Separate means employed for mechanical attachment and hydraulic seal of conduit ends to header plate
Y10S 165/479	...	Tubes joined to tube plate with adhesive, e.g. glue or braze compound
Y10S 165/48	...	Elongated support members extending between spaced manifolds
Y10S 165/481	...	Partitions in manifold define serial flow pattern for conduits/conduit groups
Y10S 165/482	....	Partitions are separate members
Y10S 165/483	...	Flow deflecting/retarding means in header for even distribution of fluid to plural tubes
Y10S 165/484	....	Orifices mounted at conduit ends
Y10S 165/485	...	Unitary, i.e. one-piece header structure
Y10S 165/486	...	Corrugated fins disposed between adjacent conduits
Y10S 165/487	....	Louvered
Y10S 165/488	...	Header is rounded in cross section, e.g. circular, oval
Y10S 165/489	...	Two piece header structure
Y10S 165/49	...	Noncircular tube cross section, e.g. oval, triangular
Y10S 165/491	...	Manifolds formed in core-enclosing frame
Y10S 165/492	..	Plural conduits with ends connected to tube plate
Y10S 165/493	...	Welded or fused joint between conduit end and plate
Y10S 165/494	...	Conduit end deformed, e.g. expanded to affix to plate
Y10S 165/495	..	Single unitary conduit structure bent to form flow path with side-by-side sections
Y10S 165/496	...	Spiral or helical coil
Y10S 165/497	...	Serpentine flow path with straight side-by-side sections
Y10S 165/498	....	Fin assembly extends across side-by-side sections
Y10S 165/499	..	with parallel tubes or tube sections having ends joined to opposed frame members
Y10S 165/50	..	Side-by-side conduits with fins
Y10S 165/501	...	Plate fins penetrated by plural conduits
Y10S 165/502	....	Lanced
Y10S 165/503	.....	Angled louvers
Y10S 165/504	....	Contoured fin surface



Y10S 165/505	...	Corrugated strips disposed between adjacent conduits
Y10S 165/506	..	Side-by-side conduits with means, e.g. support grid holding them in spaced relation
Y10S 165/507	..	Straight side-by-side conduits joined for flow of one fluid
Y10S 165/508	...	Side-by-side conduits penetrate parallel plate-type fins
Y10S 165/509	...	Side-by-side conduits lie in common plane
Y10S 165/51	.	having heat exchange surface treatment, adjunct or enhancement
Y10S 165/511	..	Polished heat transfer surface
Y10S 165/512	..	Coated heat transfer surface
Y10S 165/513	...	Corrosion resistant
Y10S 165/514	...	Hydrophilic/hydrophobic coating
Y10S 165/515	..	Patterned surface, e.g. knurled, grooved
Y10S 165/516	...	Subsurface pockets formed
Y10S 165/517	..	Roughened surface
Y10S 165/518	..	Conduit with discrete fin structure
Y10S 165/519	...	Porous or mesh
Y10S 165/52	...	Internal and external
Y10S 165/521	....	Pin fins penetrating conduit wall
Y10S 165/522	...	Transverse fins spaced along conduit
Y10S 165/523	....	Separated by integral flanges engaging conduit exterior
Y10S 165/524	...	Longitudinally extending
Y10S 165/525	....	Helical
Y10S 165/526	.....	Spine or loop fins
Y10S 165/527	....	Integrally formed
Y10S 165/528	...	Fin and conduit of diverse materials
Y10S 165/529	..	with structure for promoting turbulence and/or breaking up laminar flow adjacent heat transfer surface
Y10S 165/53	...	Conduit insert
Y10S 165/531	..	with wicking structure
Y10S 165/532	.	Heat exchange conduit structure
Y10S 165/533	..	Composite of diverse materials
Y10S 165/534	...	Concentric layers
Y10S 165/535	..	Helically formed
Y10S 165/536	..	Noncircular cross-section
Y10S 165/537	...	Oblong or elliptical
Y10S 165/538	..	with particular flow connecting structure
Y10S 165/539	.	having a heat storage mass
Y10S 165/90	.	Cooling towers
Y10S 165/901	.	Heat savers
Y10S 165/902	.	Heat storage
Y10S 165/903	.	Convection



Y10S 165/904	. Radiation
Y10S 165/905	. Materials of manufacture
Y10S 165/906	. Reinforcement
Y10S 165/907	. Porous
Y10S 165/908	. Fluid jets
Y10S 165/909	. Regeneration
Y10S 165/91	. Tube pattern
Y10S 165/911	. Vaporization
Y10S 165/912	. Combined or convertible heat exchange modes
Y10S 165/913	. Condensation
Y10S 165/914	. Filming
Y10S 165/915	. Foaming
Y10S 165/916	. Oil cooler
Y10S 165/917	. Pressurization and/or degassification
Y10S 165/918	. Heated and cooled food cabinets and/or trays
Y10S 165/919	.. Wheeled
Y10S 165/92	. Particulate heat exchange
Y10S 165/921	. Dew point

### **Wells**

<b>Y10S 166/00</b>	<b>Wells</b>
Y10S 166/901	. Wells in frozen terrain
Y10S 166/902	. for inhibiting corrosion or coating

### **Farriery**

<b>Y10S 168/00</b>	<b>Farriery</b>
Y10S 168/01	. Nonmetallic
Y10S 168/02	. Traction shape

### **Fire extinguishers**

<b>Y10S 169/00</b>	<b>Fire extinguishers</b>
Y10S 169/01	. Floats
Y10S 169/02	. Ablative fluids
Y10S 169/03	. Trip mechanisms

### **Unearthing plants or buried objects**

<b>Y10S 171/00</b>	<b>Unearthing plants or buried objects</b>
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Y10S 171/01 . Peanut digger

### **Earth working**

**Y10S 172/00 Earth working**

Y10S 172/90 . Plant thinners

### **Tool driving or impacting**

**Y10S 173/00 Tool driving or impacting**

Y10S 173/01 . Operable submerged in liquid

Y10S 173/02 . Sound muffling

Y10S 173/03 . Lubrication

Y10S 173/04 . Liquid operated

### **Electricity: conductors and insulators**

**Y10S 174/00 Electricity: conductors and insulators**

Y10S 174/01 . Anti-tracking

Y10S 174/02 . Ballasts

Y10S 174/07 . Sodium conductors, connectors

Y10S 174/08 . Shrinkable tubes

Y10S 174/09 . Pull-out cabinet or drawer with retractable cable

Y10S 174/10 . Bushing with current transformers

Y10S 174/11 . Zipper tubes

Y10S 174/12 . Helical preforms

Y10S 174/13 . High voltage cable, e.g. above 10kv, corona prevention

Y10S 174/14 .. having a particular cable application, e.g. winding

Y10S 174/15 ... in a power generation system, e.g. prime-mover dynamo, generator system

Y10S 174/16 ... in a motive power system, e.g. electric motor control system

Y10S 174/17 ... in an electric power conversion, regulation, or protection system

Y10S 174/18 ... in a power distribution network

Y10S 174/19 ... in a dynamo-electric machine

Y10S 174/20 .... Stator

Y10S 174/21 .... Rotor

Y10S 174/22 .... Winding per se

Y10S 174/23 ... in a circuit breaker, relay, or switch

Y10S 174/24 ... in an inductive device, e.g. reactor, electromagnet

Y10S 174/25 .... Transformer

Y10S 174/26 .. having a plural-layer insulation system

Y10S 174/27 ... including a semiconductive layer

Y10S 174/28	. . . . Plural semiconductive layers
Y10S 174/29	. . having a semiconductive layer
Y10S 174/30	. . having insulation with a particular dimension or geometry
Y10S 174/31	. . having a shield or metallic layer
Y10S 174/32	. . having means for cooling
Y10S 174/33	. . Method of cable manufacture, assembly, repair, or splicing
Y10S 174/34	. PCB in box or housing
Y10S 174/35	. Box or housing mounted on substrate or PCB

### **Weighing scales**

<b>Y10S 177/00</b>	<b>Weighing scales</b>
Y10S 177/02	. Digitizers mechanical
Y10S 177/03	. Digitizers electrical
Y10S 177/04	. Digitizers non-sensing
Y10S 177/05	. Magnets
Y10S 177/06	. Photoelectric
Y10S 177/07	. Pneumatic controls
Y10S 177/08	. RR motion
Y10S 177/09	. Scale bearings
Y10S 177/10	. Telemetric
Y10S 177/11	. Vibrators

### **Motor vehicles**

<b>Y10S 180/00</b>	<b>Motor vehicles</b>
Y10S 180/90	. Argicultural-type tractors
Y10S 180/901	. Devices for traversing vertical surfaces
Y10S 180/902	. Shock or vibration absorbing or transmitting means between wheel suspension and motor
Y10S 180/903	. Airstream reactive vehicle or vehicle structure
Y10S 180/904	. Traction dollies for aircraft
Y10S 180/905	. Axles
Y10S 180/906	. Adjustable axles
Y10S 180/907	. Motorized wheelchairs
Y10S 180/908	. Motor vehicles with short wheelbase

### **Acoustics**

<b>Y10S 181/00</b>	<b>Acoustics</b>
Y10S 181/40	. Wave coupling

- Y10S 181/401 . . Earth
- Y10S 181/402 . . Liquid
- Y10S 181/403 . Refrigerator compresssor muffler
- Y10S 181/404 . Hobby craft engine muffler

#### **Motors: spring, weight, or animal powered**

#### **Y10S 185/00 Motors: spring, weight, or animal powered**

- Y10S 185/01 . Spring powered toys
- Y10S 185/02 . foreign digest

#### **Elevator, industrial lift truck, or stationary lift for vehicle**

#### **Y10S 187/00 Elevator, industrial lift truck, or stationary lift for vehicle**

- Y10S 187/90 . Temporary construction elevator for building
- Y10S 187/901 . Control modified for use by disabled individual
- Y10S 187/902 . Control for double-decker car

#### **Brakes**

#### **Y10S 188/00 Brakes**

- Y10S 188/01 . Panic braking
- Y10S 188/02 . Hill holder
- Y10S 188/03 . Progressive braking

#### **Trunks and hand-carried luggage**

#### **Y10S 190/00 Trunks and hand-carried luggage**

- Y10S 190/90 . Brief case type
- Y10S 190/901 . . Flat opening
- Y10S 190/902 . . with closure flap
- Y10S 190/903 . Zipper

#### **Clutches and power-stop control**

#### **Y10S 192/00 Clutches and power-stop control**

- Y10S 192/01 . Removable members
- Y10S 192/02 . Universal joint

**Conveyors, chutes, skids, guides, and ways****Y10S 193/00      Conveyors, chutes, skids, guides, and ways**

- Y10S 193/01      . Coin chute
- Y10S 193/02      . Indicators, safety devices and signals

**Check-actuated control mechanisms****Y10S 194/00      Check-actuated control mechanisms**

- Y10S 194/90      . Parking meter with barrier
- Y10S 194/901      . Check-operated toll booth
- Y10S 194/902      . Check-operated device for controlling parking lot
- Y10S 194/903      . Check-controlled turnstile
- Y10S 194/904      . Check-operated releaser for automobile service equipment
- Y10S 194/905      . Shopping cart return
- Y10S 194/906      . Video cassette vendor

**Conveyors: power-driven****Y10S 198/00      Conveyors: power-driven**

- Y10S 198/95      . Conveyor transverses wall aperture
- Y10S 198/951      . Turning cigarettes end-for-end
- Y10S 198/952      . Heating or cooling
- Y10S 198/953      . Coil spring untangling apparatus
- Y10S 198/954      . Overflow
- Y10S 198/955      . Air manifold
- Y10S 198/956      . Impact plates
- Y10S 198/957      . Conveyor material
- Y10S 198/958      . Load units counter
- Y10S 198/959      . Weighing

**Electricity: circuit makers and breakers****Y10S 200/00      Electricity: circuit makers and breakers**

- Y10S 200/02      . Body attached switches
- Y10S 200/03      . Coin operated
- Y10S 200/04      . High potential type insulation
- Y10S 200/05      . Fluid pressure: fluid amplifier
- Y10S 200/06      . Tie bar
- Y10S 200/07      . Molded drum

Y10S 200/08	. Disturbance
Y10S 200/09	. Momentum
Y10S 200/10	. Curb, bumper and fender
Y10S 200/11	. Web or thread actuated
Y10S 200/12	. Burglar screens
Y10S 200/13	. Shaft bearing and armature wear indicator switches
Y10S 200/14	. Rail or leak indicator
Y10S 200/15	. Bin alarm
Y10S 200/16	. Gas detector
Y10S 200/17	. Gas engine and motor vehicle
Y10S 200/18	. Gravity
Y10S 200/19	. Gyroscope
Y10S 200/20	. Sound and vibration operated
Y10S 200/21	. Pencil, counter or dispenser operated
Y10S 200/22	. Strain relief, shear pin
Y10S 200/23	. Game
Y10S 200/24	. Plug holder
Y10S 200/26	. Slack cable operated
Y10S 200/27	. Thermal magnetic snap
Y10S 200/28	. Thermal spring snap
Y10S 200/29	. Ball
Y10S 200/30	. Fluid conductor
Y10S 200/31	. Fluid flow
Y10S 200/32	. Speed responsive
Y10S 200/33	. Speed synchronizing switch
Y10S 200/34	. Recording and reproducing
Y10S 200/35	. Weight operated tread/treadless switch
Y10S 200/36	. Light operated switches
Y10S 200/37	. Hose
Y10S 200/38	. Money till drawer operated
Y10S 200/39	. Motor vehicle-steering column
Y10S 200/40	. Moisture
Y10S 200/41	. Liquid contact
Y10S 200/42	. Contact welding considerations
Y10S 200/43	. Fluid-operated matrix switches
Y10S 200/44	. Lubrication-periodic switches
Y10S 200/46	. Separators and/or insulators for stacked leaf spring contacts
Y10S 200/47	. Light guides for switch indicators, e.g. prisms, reflectors or cables

**Distillation: processes, thermolytic****Y10S 201/00****Distillation: processes, thermolytic**

Y10S 201/42

- . Particle size

Y10S 201/43

- . An extraneous, cyclically circulated, inert heating gas

Y10S 201/44

- . Plural distinct temperature stages

Y10S 201/45

- . Distillate treatment or conservation

**Distillation: apparatus****Y10S 202/00****Distillation: apparatus**

Y10S 202/01

- . Scale problems digest

**Distillation: processes, separatory****Y10S 203/00****Distillation: processes, separatory**

Y10S 203/01

- . Solar still

Y10S 203/02

- . Laboratory distillation

Y10S 203/03

- . Acrylonitrile

Y10S 203/04

- . Heat pump

Y10S 203/05

- . Human waste

Y10S 203/06

- . Reactor-distillation

Y10S 203/07

- . Start up or shut down

Y10S 203/08

- . Waste heat

Y10S 203/09

- . Plural feed

Y10S 203/10

- . Vinyl acetate

Y10S 203/11

- . Batch distillation

Y10S 203/13

- . Spirits

Y10S 203/14

- . Ejector-eductor

Y10S 203/16

- . Combination

Y10S 203/17

- . Saline water conversion

Y10S 203/18

- . Control

Y10S 203/19

- . Sidestream

Y10S 203/20

- . Power plant

Y10S 203/21

- . Acrylic acid or ester

Y10S 203/22

- . Accessories

Y10S 203/23

- . Methanol

Y10S 203/24

- . Mobile, marine distiller

Y10S 203/25

- . Non-distilling bottoms treatment

Y10S 203/90

- . Particular type of heating

**Chemistry: electrical and wave energy****Y10S 204/00****Chemistry: electrical and wave energy**

- Y10S 204/03 . Auxiliary internally generated electrical energy
- Y10S 204/04 . Electrolysis cell combined with fuel cell
- Y10S 204/05 . Magnetic plus electrolytic
- Y10S 204/06 . Unusual non-204 uses of electrolysis
- Y10S 204/07 . Current distribution within the bath
- Y10S 204/08 . AC plus DC
- Y10S 204/09 . Wave forms
- Y10S 204/12 . Electrochemical machining
- Y10S 204/13 . Purification and treatment of electroplating baths and plating wastes
- Y10S 204/90 . Effecting a change in isomerization by wave energy
- Y10S 204/901 . Effecting a color change by wave energy
- Y10S 204/902 . Production of desired compound by wave energy in presence of a chemically designated nonreactant chemical treating agent, excluding water, chloroform, carbon tetrachloride, methylene chloride or benzene
  - Y10S 204/903 .. Inorganic chemical treating agent
  - Y10S 204/904 ... Metal treating agent
  - Y10S 204/905 .... Heavy metal agent
  - Y10S 204/907 .. Silicon or boron treating agent
  - Y10S 204/908 .. Phosphorus treating agent
  - Y10S 204/909 .. Heavy metal treating agent
  - Y10S 204/91 .. Sulfur treating agent
  - Y10S 204/911 .. Nitrogen treating agent
  - Y10S 204/912 .. Oxygen treating agent
  - Y10S 204/913 ... Peroxide agent
  - Y10S 204/914 .. Only carbon, hydrogen or halogen atom in treating agent

**Electrolysis: processes, compositions used therein, and methods of preparing the compositions****Y10S 205/00****Electrolysis: processes, compositions used therein, and methods of preparing the compositions**

- Y10S 205/915 . Electrolytic deposition of semiconductor
- Y10S 205/916 . Sequential electrolytic and nonelectrolytic, or nonelectrolytic and electrolytic coating from the same bath
- Y10S 205/917 . Treatment of workpiece between coating steps
- Y10S 205/918 . Use of wave energy or electrical discharge during pretreatment of substrate or post-treatment of coating
- Y10S 205/919 . Waterproofing
- Y10S 205/92 . Electrolytic coating of circuit board or printed circuit, other than selected area coating



Y10S 205/921	. Electrolytic coating of printing member, other than selected area coating
Y10S 205/922	. Electrolytic coating of magnetic storage medium, other than selected area coating
Y10S 205/923	. Solar collector or absorber
Y10S 205/924	. Electrolytic coating substrate predominantly comprised of specified synthetic resin
Y10S 205/925	.. Synthetic resin is electrically conductive
Y10S 205/926	.. Polyamide or polyimide, e.g. nylon
Y10S 205/927	.. Polyolefin, e.g. polyethylene, polypropylene
Y10S 205/928	.. ABS copolymer

### **Special receptacle or package**

<b>Y10S 206/00</b>	<b>Special receptacle or package</b>
Y10S 206/80	. Chewing gum
Y10S 206/802	. Shirred sausage casing
Y10S 206/803	. Emergency, e.g. flare, first aid, survival pack
Y10S 206/804	. with means to lift or draw out content
Y10S 206/805	. Rubber band
Y10S 206/806	. Suspension
Y10S 206/807	. Tamper proof
Y10S 206/809	. X-type
Y10S 206/81	. Zipper, i.e. receptacle securement
Y10S 206/811	. Waterproof
Y10S 206/812	. Packaged towel
Y10S 206/813	. Adhesive
Y10S 206/814	. Space filler
Y10S 206/815	. Finger opening
Y10S 206/816	. Flexible closure, e.g. sliding desktop type
Y10S 206/817	. Follower
Y10S 206/818	. Magnet
Y10S 206/819	. Material
Y10S 206/82	. Separable, striplike plural articles
Y10S 206/821	. Stacking member
Y10S 206/822	. Special shape
Y10S 206/823	. Cosmetic, toilet, powder puff
Y10S 206/824	. Tear apertures for roll, strip, or sheet
Y10S 206/825	. Recoil-type retainer
Y10S 206/828	. Medicinal content
Y10S 206/829	. Vacuum, or suction, cup adjunct
Y10S 206/83	. Biscuit package
Y10S 206/831	. Detachable coupon

- Y10S 206/832 . Semiconductor wafer boat
- Y10S 206/833 . . Apertured side walls

### **Mineral oils: processes and products**

- Y10S 208/00** **Mineral oils: processes and products**
- Y10S 208/01 . Automatic control
- Y10S 208/02 . Molecular sieve
- Y10S 208/95 . Processing of "fischer-tropsch" crude
- Y10S 208/951 . Solid feed treatment with a gas other than air, hydrogen or steam
- Y10S 208/952 . Solid feed treatment under supercritical conditions

### **Classifying, separating, and assorting solids**

- Y10S 209/00** **Classifying, separating, and assorting solids**
- Y10S 209/90 . Sorting flat-type mail
- Y10S 209/901 . Froth flotation; copper
- Y10S 209/902 . Froth flotation; phosphate
- Y10S 209/903 . Feeder conveyor having opposed grippers
- Y10S 209/904 . Feeder conveyor holding item by magnetic attraction
- Y10S 209/905 . Feeder conveyor holding item by suction
- Y10S 209/906 . Pneumatic or liquid stream feeding item
- Y10S 209/907 . Magnetic feeder
- Y10S 209/908 . Item fed by free fall
- Y10S 209/909 . Item holding feed magazine insertable in sorting apparatus
- Y10S 209/91 . Feed hopper
- Y10S 209/911 . Feed means supporting or guiding item moving under influence of gravity
- Y10S 209/912 . Endless feed conveyor with means for holding each item individually
- Y10S 209/913 . Screw feed conveyor
- Y10S 209/914 . Diverse sequential feeding steps
- Y10S 209/915 . Centrifugal feeder
- Y10S 209/916 . Reciprocating pusher feeding item
- Y10S 209/917 . Endless belt pusher feeding item
- Y10S 209/918 . Swinging or rotating pusher feeding item
- Y10S 209/919 . Rotary feed conveyor
- Y10S 209/92 . Vibratory feed conveyor
- Y10S 209/921 . Reciprocating or oscillating feed conveyor
- Y10S 209/922 . Miscellaneous feed conveyors
- Y10S 209/923 . Feed through including at least one endless conveyor
- Y10S 209/924 . Gravity conveyor moving item from separating station

Y10S 209/925	. Driven or fluid conveyor moving item from separating station
Y10S 209/926	. Silverware sorter
Y10S 209/927	. Cop sorter
Y10S 209/928	. Container closure sorter
Y10S 209/929	. Fastener sorter
Y10S 209/93	. Municipal solid waste sorting
Y10S 209/931	. Materials of construction
Y10S 209/932	. Fluid applied to items
Y10S 209/933	. Accumulation receiving separated items
Y10S 209/934	. Moving items to sorting means in spaced relation lengthwise of feed path
Y10S 209/935	. Ambulant
Y10S 209/936	. Plural items tested as group
Y10S 209/937	. Laundry sorting
Y10S 209/938	. Illuminating means facilitating visual inspection
Y10S 209/939	. Video scanning
Y10S 209/94	. Noncondition-responsive sorting by contour
Y10S 209/941	. Item carrying bridge raisable to expose discharge opening
Y10S 209/942	. Operator selects destination of item

### **Liquid purification or separation**

<b>Y10S 210/00</b>	<b>Liquid purification or separation</b>
Y10S 210/03	. Belt alignment
Y10S 210/05	. Coalescer
Y10S 210/06	. Dehydrators
Y10S 210/07	. Drier blocks
Y10S 210/08	. Fat fryer
Y10S 210/09	. Floating cover
Y10S 210/13	. Part flow-full flow
Y10S 210/17	. Twist-on
Y10S 210/90	. Ultra pure water, e.g. conductivity water
Y10S 210/901	. Specified land fill feature, e.g. prevention of ground water fouling
Y10S 210/902	. Materials removed
Y10S 210/903	.. Nitrogenous
Y10S 210/904	... -CN containing
Y10S 210/905	... Protein
Y10S 210/906	.. Phosphorus containing
Y10S 210/907	... Phosphate slimes
Y10S 210/908	.. Organic
Y10S 210/909	... Aromatic compound, e.g. pcb, phenol

Y10S 210/91	... Nonbiodegradable surfacant
Y10S 210/911	.. Cumulative poison
Y10S 210/912	... Heavy metal
Y10S 210/913	.... Chromium
Y10S 210/914	.... Mercury
Y10S 210/915	.. Fluorine containing
Y10S 210/916	.. Odor, e.g. including control or abatement
Y10S 210/917	.. Color
Y10S 210/918	. Miscellaneous specific techniques
Y10S 210/919	.. using combined systems by merging parallel diverse waste systems
Y10S 210/92	.. using combined systems of sequential local and regional or municipal sewage systems
Y10S 210/921	.. Flow equalization or time controlled stages or cycles
Y10S 210/922	.. Oil spill cleanup, e.g. bacterial
Y10S 210/923	... using mechanical means, e.g. skimmers, pump
Y10S 210/924	... using physical agent, e.g. sponge, mop
Y10S 210/925	... using chemical agent
Y10S 210/926	.. using oxidation ditch, e.g. carousel
Y10S 210/928	. Paper mill waste, e.g. white water, black liquor treated
Y10S 210/929	. Hemoultrafiltrate volume measurement or control processes
Y10S 210/93	. Paint detackifying
Y10S 210/931	. Zebra mussel mitigation or treatment

**Supports: racks**

<b>Y10S 211/00</b>	<b>Supports: racks</b>
Y10S 211/01	. Magnetic article holder

**Traversing hoists**

<b>Y10S 212/00</b>	<b>Traversing hoists</b>
Y10S 212/901	. Drolley-type cranes

**Bottles and jars**

<b>Y10S 215/00</b>	<b>Bottles and jars</b>
Y10S 215/01	. Fins
Y10S 215/02	. Coatings and laminations for making of bottle caps
Y10S 215/03	. Medical
Y10S 215/04	. Capping materials
Y10S 215/05	. Spoons

Y10S 215/06	. Resin-coated bottles
Y10S 215/07	. with drinking cup
Y10S 215/08	. Mixing
Y10S 215/90	. Collapsible wall structure
Y10S 215/901	. Tamper-resistant structure
Y10S 215/902	. Vent

### **Receptacles**

<b>Y10S 220/00</b>	<b>Receptacles</b>
Y10S 220/01	. Beer barrels
Y10S 220/02	. Bottle crates
Y10S 220/03	. Breaker strips and sealing strips
Y10S 220/04	. Bushings
Y10S 220/05	. Antidrip
Y10S 220/06	. Drains
Y10S 220/07	. Flexible tubes
Y10S 220/08	. Ice cream cabinets
Y10S 220/09	. insulating materials
Y10S 220/10	. Lunch kits
Y10S 220/11	. Materials
Y10S 220/12	. Molded
Y10S 220/13	. Odd-shaped
Y10S 220/14	. Plastic
Y10S 220/15	. Plastic bottle crates
Y10S 220/16	. Pressure indicators
Y10S 220/17	. Pressure and temperature locks
Y10S 220/18	. Refrigerator linings
Y10S 220/19	. Rubber plugs and caps
Y10S 220/20	. Safety locking devices
Y10S 220/21	. Shields
Y10S 220/22	. Seamless
Y10S 220/23	. Fiberglass
Y10S 220/24	. Tank trucks
Y10S 220/25	. U-shaped sectional
Y10S 220/26	. Vanity
Y10S 220/27	. Vents
Y10S 220/28	. Washtubs
Y10S 220/29	. Welded seam
Y10S 220/30	. Biodegradable

Y10S 220/31	. Sonic seal
Y10S 220/32	. Radiator cap
Y10S 220/33	. Gasoline tank cap
Y10S 220/34	. Anti-tamper pharmaceutical capsules, e.g. tamper indicating or resistant
Y10S 220/90	. Rupture proof
Y10S 220/901	. Liquified gas content, cryogenic
Y10S 220/902	. Foam
Y10S 220/903	. Insulating jacket for beverage container
Y10S 220/904	. Pail or bucket of flexible or flaccid material, e.g. fabric, rubber
Y10S 220/905	. Flexible fuel tank for a vehicle
Y10S 220/906	. Beverage can, i.e. beer, soda
Y10S 220/907	.. Collapsible
Y10S 220/908	. Trash container
Y10S 220/9081	.. with liner
Y10S 220/9082	... including deodorizer, animal repellent, or insecticide
Y10S 220/9083	... including guiding means for directing trash into the container, e.g. funnel
Y10S 220/909	.. Segregated
Y10S 220/91	.. Table-top type
Y10S 220/911	... Can converted to ash container
Y10S 220/912	. Cookware, i.e. pots and pans
Y10S 220/913	. Ventilated container
Y10S 220/914	. Container contoured to fit a body part
Y10S 220/915	. Aerosol valve cap or protector
Y10S 220/9151	. Hand-carried container for transporting a beverage or prepared food, e.g. lunch box, dinner pail, picnic cooler
Y10S 220/9152	.. insulated cooler, e.g. for use on a picnic, at the beach
Y10S 220/916	. Container including axially opposed removable closures
Y10S 220/917	. Corrosion resistant container
Y10S 220/918	. Spacing element for separating the walls of a spaced-wall container
Y10S 220/919	.. Removable or separable spacing element
Y10S 220/92	.. Shock absorbing spacing element, e.g. spring
Y10S 220/921	.. Spacing element of unitary construction with one wall

### **Article dispensing**

<b>Y10S 221/00</b>	<b>Article dispensing</b>
Y10S 221/01	. Storage retrieval

### **Dispensing**

<b>Y10S 222/00</b>	<b>Dispensing</b>
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Y10S 222/01 . Xerography

### **Apparel apparatus**

#### **Y10S 223/00 Apparel apparatus**

Y10S 223/01 . Tie hanger  
 Y10S 223/02 . Holders and clamps  
 Y10S 223/03 . Reversible hanger  
 Y10S 223/04 . Hooks

### **Package and article carriers**

#### **Y10S 224/00 Package and article carriers**

Y10S 224/901 . Carrier component having adherent surface  
 Y10S 224/9012 . . Loop and hook fastener  
 Y10S 224/9014 . . . On strap  
 Y10S 224/9016 . . . Closure fastener  
 Y10S 224/9018 . . . Connection between support and article or receiver  
 Y10S 224/902 . Battery carrier  
 Y10S 224/903 . Holder for timepiece not carried on wrist  
 Y10S 224/904 . Tool holder carried by belt  
 Y10S 224/905 . Attaching means crossing back of pack animal  
 Y10S 224/906 . Container formed of folded paperboard  
 Y10S 224/907 . Rigid shield or pad positioned between article and bearer  
 Y10S 224/908 . Carrier for camera or other photographic equipment  
 Y10S 224/909 . Binocular carrier  
 Y10S 224/91 . Carrier for musical instrument  
 Y10S 224/911 . Handgun holder formed of leather, fabric, or other flexible material  
 Y10S 224/912 . Handgun holder formed of metal or other rigid material  
 Y10S 224/913 . Carrier for rifle or shotgun  
 Y10S 224/914 . Carrier for handcuffs, blackjack, club, or other equipment carried by policeman  
 Y10S 224/915 . Carrier for folded umbrella  
 Y10S 224/916 . Carrier for bow or arrow  
 Y10S 224/917 . Ski carrier  
 Y10S 224/9175 . . Vehicle attached  
 Y10S 224/918 . Carrier for golf tee or marker  
 Y10S 224/919 . Ball carrier  
 Y10S 224/92 . Carrier for fishing bait or lure, or fish carrier other than stringer  
 Y10S 224/921 . Game carrier other than stringer  
 Y10S 224/922 . Fishing rod holder

- Y10S 224/923 . Carrier with sleeping compartment
- Y10S 224/924 . Vehicle attached carrier for bicycle or motorcycle
- Y10S 224/925 . Carrier for grocery bag
- Y10S 224/926 . Vehicle attached carrier for beverage container or bottle
- Y10S 224/927 . Carrier for clothes hanger
- Y10S 224/928 . Trash receptacle
- Y10S 224/929 . Article carrier for electrical device
- Y10S 224/93 . . Attached to animate bearer
- Y10S 224/931 . Carrier for ammunition
- Y10S 224/932 . Carrier for towel or handkerchief
- Y10S 224/933 . Carrier for gloves
- Y10S 224/934 . Underwater carrier
- Y10S 224/935 . Carrier for cycle lock

### **Elongated-member-driving apparatus**

#### **Y10S 227/00      Elongated-member-driving apparatus**

- Y10S 227/901 . Surgical clip applicators
- Y10S 227/902 . Surgical clips or staples

### **Metal fusion bonding**

#### **Y10S 228/00      Metal fusion bonding**

- Y10S 228/901 . Process of bonding batteries
- Y10S 228/902 . using flame
- Y10S 228/903 . Metal to nonmetal
- Y10S 228/904 . Wire bonding

### **Envelopes, wrappers, and paperboard boxes**

#### **Y10S 229/00      Envelopes, wrappers, and paperboard boxes**

- Y10S 229/90 . including means to facilitate handling by a mechanical apparatus during manufacturing or filling
- Y10S 229/901 . Box structure alternatively useable as a container or a lid
- Y10S 229/902 . Box for prepared or processed food
- Y10S 229/903 . . Ovenable, i.e. disclosed to be placed in an oven
- Y10S 229/904 . . Compartmented fast food holder or lap tray
- Y10S 229/9041 . . Candy
- Y10S 229/905 . . Frozen food
- Y10S 229/906 . . Baked goods
- Y10S 229/9061 . Cup lid with means for forming a drinking opening



Y10S 229/907	. Trash box
Y10S 229/908	. Paint tray
Y10S 229/909	. Cigar box
Y10S 229/91	. Bucket or pail type, i.e. liquid proof container with handle
Y10S 229/911	.. with closure
Y10S 229/912	... Separate element
Y10S 229/913	. Drawer-type
Y10S 229/914	. Basket-type with handle
Y10S 229/915	. Stacking feature
Y10S 229/9151	.. Gable-top box
Y10S 229/916	.. Means for ventilating while stacked
Y10S 229/917	.. Stacking of collapsed container or blank
Y10S 229/918	.. Corner construction
Y10S 229/919	.. Reinforced wall
Y10S 229/92	. Stress relief
Y10S 229/921	. with mailing indicia
Y10S 229/922	. with decorative feature
Y10S 229/923	.. Gift wrapped
Y10S 229/924	. Means to facilitate gripping a tear strip
Y10S 229/925	.. Finger opening, e.g. slit, aperture
Y10S 229/926	.. Pull tab located in a seam
Y10S 229/927	. Means for tearing or breaking rigid or semirigid thermoplastic container
Y10S 229/928	. Expandable envelope
Y10S 229/929	. Vented envelope
Y10S 229/93	. Fold detail
Y10S 229/931	.. Fold includes slit or aperture
Y10S 229/932	. Ice cream cone carrier
Y10S 229/933	. Mating container blanks
Y10S 229/934	.. Compartmented bottle carrier
Y10S 229/935	.. No waste, i.e. edge-to-edge blanks
Y10S 229/936	.. Three or more blanks with alternating orientations
Y10S 229/937	.. Plural blanks for making a single container
Y10S 229/938	. Sandwich holder
Y10S 229/939	. Container made of corrugated paper or corrugated paperboard
Y10S 229/94	. Container material with specified grain direction
Y10S 229/941	. Box having joint structure for preventing leakage
Y10S 229/942	. 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**

<b>Y10S 234/00</b>	<b>Selective cutting, e.g. punching</b>
Y10S 234/01	. Fluid and photoelectric control

**Registers**

<b>Y10S 235/00</b>	<b>Registers</b>
Y10S 235/90	. Means to affix bar code, e.g. attaching, etching, coating, printing
Y10S 235/901	. Bar code reader specialized to read code on a highly reflective surface

**Automatic temperature and humidity regulation**

<b>Y10S 236/00</b>	<b>Automatic temperature and humidity regulation</b>
Y10S 236/01	. Adjustable lever
Y10S 236/02	. Fail safe
Y10S 236/03	. Safety electric
Y10S 236/04	. Safety vacuum
Y10S 236/05	. Fusible
Y10S 236/06	. Clamp on
Y10S 236/07	. Coil bulb
Y10S 236/08	. Computer
Y10S 236/09	. Fan control
Y10S 236/10	. Filling
Y10S 236/11	. Expandible fluid
Y10S 236/12	. Heat conductor
Y10S 236/13	. Humidithermostat
Y10S 236/14	. intermittant control
Y10S 236/15	. Photocell
Y10S 236/16	. Relief spring
Y10S 236/17	. Spring rate compensator
Y10S 236/18	. Rubber
Y10S 236/19	. Ventilated thermostat

**Heating systems**

<b>Y10S 237/00</b>	<b>Heating systems</b>
Y10S 237/01	. Inert gas

**Railways: surface track****Y10S 238/00****Railways: surface track**

Y10S 238/01

- . Track structure assembled by gluing

**Fluid sprinkling, spraying, and diffusing****Y10S 239/00****Fluid sprinkling, spraying, and diffusing**

Y10S 239/01

- . Pattern sprinkler

Y10S 239/02

- . Scarfing torches

Y10S 239/03

- . Fluid amplifier

Y10S 239/04

- . O-ring

Y10S 239/05

- . Ball agitators

Y10S 239/06

- . Lawn mower

Y10S 239/07

- . Coanda

Y10S 239/08

- . Cutter sprayer

Y10S 239/09

- . Slide fastener

Y10S 239/10

- . Carbon dioxide bulb

Y10S 239/11

- . Magnets

Y10S 239/12

- . Flexible outlets

Y10S 239/13

- . Soot blowers and tube cleaners

Y10S 239/14

- . Paint sprayers

Y10S 239/15

- . Sprinkler systems with controls

Y10S 239/17

- . Low volume

Y10S 239/19

- . Nozzle materials

Y10S 239/21

- . Air blast

Y10S 239/22

- . Safety air nozzles

Y10S 239/23

- . Screens

Y10S 239/90

- . Electromagnetically actuated fuel injector having ball and seat type valve

**Solid material comminution or disintegration****Y10S 241/00****Solid material comminution or disintegration**

Y10S 241/10

- . Foundry sand treatment

Y10S 241/14

- . Grinding in inert, controlled atmosphere

Y10S 241/17

- . Ice crushers

Y10S 241/27

- . Pill or tablet crushers

Y10S 241/30

- . Rubber elements in mills

Y10S 241/31

- . Rubber preparation

Y10S 241/37

- . Cryogenic cooling

Y10S 241/38	. Solid waste disposal
Y10S 241/60	. Furnace stokers
Y10S 241/601	. Sand mullers
Y10S 241/602	. Soap dispensers
Y10S 241/603	. Animal powered mill
Y10S 241/604	. Plural inlets for diverse solid materials
Y10S 241/605	. Hay unbaler
Y10S 241/606	. Medical/surgical waste comminution

### **Winding, tensioning, or guiding**

<b>Y10S 242/00</b>	<b>Winding, tensioning, or guiding</b>
Y10S 242/01	. Tape program control means
Y10S 242/02	. Narrow fabric winding apparatus
Y10S 242/03	. Coreless coilers
Y10S 242/90	. Particular apparatus material
Y10S 242/901	. Figure eight winding
Y10S 242/902	. Line loader for fishing reel
Y10S 242/903	. Drum for a winch or hoist
Y10S 242/904	. Water ski reel
Y10S 242/905	. Winder with storage chamber, e.g. for deodorant, paper
Y10S 242/906	. Static charger or discharger
Y10S 242/907	. Vibration creation or dampening
Y10S 242/908	. Fluid treatment or handling
Y10S 242/909	. Heating or cooling
Y10S 242/91	. Convolution tightener or loosener
Y10S 242/911	. Cutter
Y10S 242/912	. Indicator or alarm
Y10S 242/913	. Safety device
Y10S 242/914	. Special bearing or lubrication
Y10S 242/915	. Coil gripper
Y10S 242/916	. Hand tool
Y10S 242/917	. Accomodating special material or article, e.g. antenna
Y10S 242/918	.. Web material, e.g. thermal insulation
Y10S 242/919	... Ground cover, e.g. tarp
Y10S 242/92	. Glass strand winding

### **Aeronautics and astronautics**

<b>Y10S 244/00</b>	<b>Aeronautics and astronautics</b>
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- Y10S 244/90 . Lightweight, winged, air vehicle, e.g. ultralight or hang glider
- Y10S 244/901 . . having delta shaped wing
- Y10S 244/902 . . having parachute type wing
- Y10S 244/903 . . Powered
- Y10S 244/904 . . Miscellaneous hardware or control
- Y10S 244/905 . Inflatable evacuation slide

### **Railway switches and signals**

#### **Y10S 246/00 Railway switches and signals**

- Y10S 246/01 . Radiant energy devices
- Y10S 246/02 . Thermal sensing devices

### **Supports**

#### **Y10S 248/00 Supports**

- Y10S 248/90 . Movable or disengageable on impact or overload
- Y10S 248/901 . Support having temperature or pressure responsive feature
- Y10S 248/902 . Eyeglasses holder
- Y10S 248/903 . Support reinforcement
- Y10S 248/904 . Indicator mount
- Y10S 248/905 . Tissue dispenser mount
- Y10S 248/906 . Electrical outlet box support
- Y10S 248/907 . Trash container support
- Y10S 248/908 . Simulation of diverse device
- Y10S 248/909 . Frangible component, e.g. having a score line or groove
- Y10S 248/91 . Weighted base
- Y10S 248/911 . Plural, selectively usable, support engaging means
- Y10S 248/912 . Plural, selectively usable, article engaging means
- Y10S 248/913 . Two axis article engaging means, e.g. x - y device
- Y10S 248/914 . Handbag holder
- Y10S 248/915 . with ornamentation
- Y10S 248/916 . Mechanical expedients, e.g. in supports
- Y10S 248/917 . Video display screen support
- Y10S 248/918 . . Ancillary device support associated with a video display screen
- Y10S 248/919 . . Adjustably orientable video screen support
- Y10S 248/92 . . . Angular and linear video display screen support adjustment
- Y10S 248/921 . . . Plural angular
- Y10S 248/922 . . . Angular
- Y10S 248/923 . . . . Tilting

- Y10S 248/924 . . Adjustable size
- Y10S 248/925 . Mountain climbing aids, e.g. pitons etc.

### **Static molds**

#### **Y10S 249/00**

#### **Static molds**

- Y10S 249/01 . Cake pan
- Y10S 249/02 . Paper core
- Y10S 249/03 . Swimming pool
- Y10S 249/04 . Test mold
- Y10S 249/05 . Hot top

### **Radiant energy**

#### **Y10S 250/00**

#### **Radiant energy**

- Y10S 250/01 . Passive intrusion detectors
- Y10S 250/02 . Radon detection
- Y10S 250/90 . Optical liquid level sensors
- Y10S 250/901 . . with gap between light guide elements, includes open light path preset
- Y10S 250/902 . . . with closed light path preset
- Y10S 250/903 . . . . with prism contacting liquid
- Y10S 250/904 . . with single light guide element to guide light in a continuous path
- Y10S 250/905 . . . with longitudinal irregularity
- Y10S 250/906 . . . . with large scale longitudinal bend
- Y10S 250/907 . . . . with portions of light guide coating or cladding removed
- Y10S 250/908 . . . . with waveguide twisted about its longitudinal axis
- Y10S 250/909 . Methods and apparatus ancillary to stimuable phosphor systems
- Y10S 250/91 . Food sample analysis using invisible radiant energy source

### **Valves and valve actuation**

#### **Y10S 251/00**

#### **Valves and valve actuation**

- Y10S 251/90 . Valves with o-rings
- Y10S 251/901 . Curtain type valves
- Y10S 251/902 . Springs employed as valves
- Y10S 251/903 . Needle valves
- Y10S 251/904 . Snap fit plug valves
- Y10S 251/905 . Movable coil electrical actuator, e.g. voice coil

**Compositions****Y10S 252/00**

Y10S 252/18

Y10S 252/95

Y10S 252/951

Y10S 252/96

Y10S 252/961

Y10S 252/962

Y10S 252/963

Y10S 252/964

Y10S 252/965

**Compositions**

- . Activation-platinum
- . Doping agent source material
- . . . for vapor transport
- . Surface flaw detecting compositions
- . Stress or contact indicators
- . Temperature or thermal history
- . Humidity or moisture indicators
- . Leak detection
- . Retrospective product identification, e.g. tags and tracers

**Implements or apparatus for applying pushing or pulling force****Y10S 254/00**

Y10S 254/01

Y10S 254/02

Y10S 254/03

Y10S 254/04

Y10S 254/05

Y10S 254/06

Y10S 254/07

Y10S 254/08

Y10S 254/09

Y10S 254/10

Y10S 254/11

Y10S 254/12

Y10S 254/13

Y10S 254/14

Y10S 254/15

Y10S 254/16

Y10S 254/90

Y10S 254/901

Y10S 254/902

Y10S 254/903

**Implements or apparatus for applying pushing or pulling force**

- . Jack bases
- . Electric screw jacks
- . Jack handles
- . Object engaging heads for jacks
- . Means for depressing foot brake when adjusting same
- . Flexible rack and pinion
- . Printers form trucks
- . Screw jacks, plural section nut
- . Vehicle-operated lift platform
- . Tire or rim expanding or contracting devices
- . Cable drum feed for presser
- . Pawls
- . Vehicle retarding drums
- . Rope attachment
- . Motor clamps
- . Automobile transmission jack
- . Cable pulling drum having wave motion responsive actuator for operating drive or rotation retarding means
- . Antifriction means for cable pulling drum
- . Either drum, pulley wheel element, or cable constructed from specific material
- . Yieldable, constant engagement, friction coupling, e.g. slip clutch in drive for cable pulling drum

**Fences****Y10S 256/00**

Y10S 256/01

Y10S 256/02

Y10S 256/03

Y10S 256/04

Y10S 256/05

Y10S 256/06

**Fences**

- . Compensator, spring
- . Adjustable or falling fence
- . Wire clamp
- . Board fastener
- . Metal post
- . Building construction guard rail

**Active solid-state devices, e.g. transistors, solid-state diodes****Y10S 257/00**

Y10S 257/90

Y10S 257/901

Y10S 257/902

Y10S 257/903

Y10S 257/904

Y10S 257/905

Y10S 257/906

Y10S 257/907

Y10S 257/908

Y10S 257/909

Y10S 257/91

Y10S 257/911

Y10S 257/912

Y10S 257/913

Y10S 257/914

Y10S 257/915

Y10S 257/916

Y10S 257/917

Y10S 257/918

Y10S 257/919

Y10S 257/92

Y10S 257/921

Y10S 257/922

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

- . MOSFET type gate sidewall insulating spacer
- . MOSFET substrate bias
- . FET with metal source region
- . FET configuration adapted for use as static memory cell
  - . . with passive components,, e.g. polysilicon resistors
- . Plural dram cells share common contact or common trench
- . Dram with capacitor electrodes used for accessing, e.g. bit line is capacitor plate
- . Folded bit line dram configuration
- . Dram configuration with transistors and capacitors of pairs of cells along a straight line between adjacent bit lines
- . Macrocell arrays, e.g. gate arrays with variable size or configuration of cells
- . Diode arrays, e.g. diode read-only memory array
- . Light sensitive array adapted to be scanned by electron beam, e.g. vidicon device
- . Charge transfer device using both electron and hole signal carriers
- . with means to absorb or localize unwanted impurities or defects from semiconductors, e.g. heavy metal gettering
- . Polysilicon containing oxygen, nitrogen, or carbon, e.g. sipos
- . with titanium nitride portion or region
- . Narrow band gap semiconductor material,  $<<1\text{ eV}$
- . Plural dopants of same conductivity type in same region
- . Light emitting regenerative switching device, e.g. light emitting scr arrays, circuitry
- . Elements of similar construction connected in series or parallel to average out manufacturing variations in characteristics
- . Conductor layers on different levels connected in parallel, e.g. to reduce resistance
- . Radiation hardened semiconductor device
- . with means to prevent inspection of or tampering with an integrated circuit, e.g. "smart card", anti-tamper



- Y10S 257/923 . with means to optimize electrical conductor current carrying capacity, e.g. particular conductor aspect ratio
- Y10S 257/924 . with passive device, e.g. capacitor, or battery, as integral part of housing or housing element, e.g. cap
- Y10S 257/925 . Bridge rectifier module
- Y10S 257/926 . Elongated lead extending axially through another elongated lead
- Y10S 257/927 . Different doping levels in different parts of PN junction to produce shaped depletion layer
- Y10S 257/928 . with shorted PN or schottky junction other than emitter junction
- Y10S 257/929 . PN junction isolated integrated circuit with isolation walls having minimum dopant concentration at intermediate depth in epitaxial layer, e.g. diffused from both surfaces of epitaxial layer
- Y10S 257/93 . Thermoelectric, e.g. peltier effect cooling

### **Chemistry of carbon compounds**

#### **Y10S 260/00 Chemistry of carbon compounds**

- Y10S 260/14 . Soil treatment digest, polyelectrolytes
- Y10S 260/15 . Antistatic agents not otherwise provided for
- Y10S 260/16 . . Antistatic agents containing a metal, silicon, boron or phosphorus
- Y10S 260/17 . . High polymeric, resinous, antistatic agents
- Y10S 260/18 . . . High polymeric, resinous, antistatic agents containing pentavalent nitrogen
- Y10S 260/19 . . Non-high polymeric antistatic agents/n
- Y10S 260/20 . . . Antistatic agent contains pentavalent nitrogen
- Y10S 260/21 . Polymer chemically or physically modified to impart antistatic properties and methods of antistatic agent addition
- Y10S 260/22 . Concentration
- Y10S 260/23 . Fiber
- Y10S 260/24 . Flameproof
- Y10S 260/25 . Metal catalyst
- Y10S 260/26 . Multicolor
- Y10S 260/27 . Nomenclature
- Y10S 260/28 . Peroxide
- Y10S 260/30 . Properties
- Y10S 260/31 . Ionic cross-link
- Y10S 260/32 . Incompatible blend
- Y10S 260/33 . Molecular sieve
- Y10S 260/34 . Hydantoin
- Y10S 260/35 . Crystallization
- Y10S 260/37 . Closure
- Y10S 260/38 . Ink
- Y10S 260/41 . Glass flake

Y10S 260/42	. Melts used in preparation of non-cyclic aliphatic chloro-, bromo- and iodo-hydrocarbons
Y10S 260/43	. Promoting degradability of polymers
Y10S 260/44	. Beta branched fatty acid
Y10S 260/45	. Polymer dispersions
Y10S 260/46	. Vibration dampening composition
Y10S 260/47	. Poisons, foods, or pharmaceuticals
Y10S 260/99811	. Dental
Y10S 260/99812	. Ablative
Y10S 260/99813	. Brake, friction or anti-skid
Y10S 260/99814	. Ball, bat, pin or billy
Y10S 260/99815	. Floor covering
Y10S 260/99816	. Sound record
Y10S 260/99817	. Pearlescent
Y10S 260/99818	. Mold or mold coating
Y10S 260/99819	. Road marking or pavement compositions, non-cementitious, non bituminous
Y10S 260/9982	. Dipeptides, e.g. aspartame, anserine or carnosine
Y10S 260/99821	.. Aspartylphenylalanone esters and cyclohexylalanine esters
Y10S 260/99822	.. Arginine containing

### **Gas and liquid contact apparatus**

<b>Y10S 261/00</b>	<b>Gas and liquid contact apparatus</b>
Y10S 261/01	. Auxiliary air inlet carburetors
Y10S 261/02	. Airplane
Y10S 261/03	. Air cooling
Y10S 261/04	. Auto humidifiers
Y10S 261/06	. Backfire
Y10S 261/07	. Carbonators
Y10S 261/08	. Carburetor primers
Y10S 261/09	. Furnace gas scrubbers
Y10S 261/10	. Steam heaters and condensers
Y10S 261/11	. Cooling towers
Y10S 261/12	. Carburetor venturi
Y10S 261/13	. Desuperheaters
Y10S 261/14	. Display stands
Y10S 261/15	. Duct humidifiers
Y10S 261/16	. Cream whipping
Y10S 261/17	. Odorizers
Y10S 261/18	. Dashpots

Y10S 261/19	. Degassers
Y10S 261/20	. Deicers for carburetors
Y10S 261/21	. Drawing excess fuel from carbureting passage
Y10S 261/22	. Faucet aerators
Y10S 261/23	. Fuel feeding valves
Y10S 261/24	. Fuel feeding valve retaining
Y10S 261/25	. Fuel spread out into a film
Y10S 261/26	. Foam
Y10S 261/27	. Gas circulated in circuit
Y10S 261/28	. Blood oxygenators
Y10S 261/29	. Heaters submerged in liquid
Y10S 261/30	. Tray heaters
Y10S 261/31	. Heaters
Y10S 261/32	. Heaters and condensers
Y10S 261/33	. Heaters, spray
Y10S 261/34	. Automatic humidity regulation
Y10S 261/35	. Air line lubricators
Y10S 261/36	. Carburetor manifolds
Y10S 261/37	. Modern pumps diaphragm
Y10S 261/38	. Needle valves
Y10S 261/39	. Liquid feeding nozzles
Y10S 261/40	. Oil filter for fuel entering nozzles or float chamber
Y10S 261/41	. Pad retaining means in humidifiers and air conditioners
Y10S 261/42	. Ozonizers
Y10S 261/43	. Air coolers
Y10S 261/44	. Overflow trough
Y10S 261/45	. Processes carburetors
Y10S 261/46	. Residue prevention in humidifiers and air conditioners
Y10S 261/47	. Swing diffusers
Y10S 261/48	. Sonic vibrators
Y10S 261/49	. Suction operated feed valve
Y10S 261/50	. Surge prevention in carburetors
Y10S 261/51	. Carburetors with supercharging blowers
Y10S 261/52	. Carburetor with valves
Y10S 261/53	. Valve actuation
Y10S 261/54	. Venturi scrubbers
Y10S 261/55	. Reatomizers
Y10S 261/56	. Variable venturi
Y10S 261/57	. Interchangeable chore tube
Y10S 261/58	. Choke tube having plurality of leaves

Y10S 261/59	. Choke tube leaves flexible
Y10S 261/60	. Duplex barrels
Y10S 261/61	. Longitudinally reciprocating choke tube along air passage
Y10S 261/62	. Longitudinally reciprocating choke tube having movable parts
Y10S 261/63	. Longitudinally reciprocating choke tube, throttle-operated
Y10S 261/64	. Longitudinally reciprocating choke tube, suction-operated
Y10S 261/65	. Vaporizers
Y10S 261/66	. Water injection to prevent detonation
Y10S 261/67	. Carburetors with vented bowl
Y10S 261/68	. Diaphragm-controlled inlet valve
Y10S 261/69	. Fluid amplifiers in carburetors
Y10S 261/70	. Sewage aerators; diffusers
Y10S 261/71	. Sewage aerators; rotating
Y10S 261/72	. Packing elements
Y10S 261/73	. Carburetor primers; ticklers
Y10S 261/74	. Valve actuation; electrical
Y10S 261/75	. Flowing liquid aspirates gas
Y10S 261/76	. Steam
Y10S 261/77	. Plume abatement
Y10S 261/78	. Sonic flow
Y10S 261/79	. Cooling ponds
Y10S 261/80	. Electrical treatment
Y10S 261/81	. Percolation control
Y10S 261/82	. Upper end injectors
Y10S 261/83	. Fuel vapor generation
Y10S 261/84	. Tamperproof
Y10S 261/85	. Droplet catchers
Y10S 261/86	. Cooling tower ice prevention
Y10S 261/87	. Cooling tower power generators
Y10S 261/88	. Aroma dispensers
Y10S 261/89	. . . Electrically heated aroma dispensers

#### **Plastic and nonmetallic article shaping or treating: processes**

<b>Y10S 264/00</b>	<b>Plastic and nonmetallic article shaping or treating: processes</b>
Y10S 264/01	. Methods of blow-molding cellular containers
Y10S 264/02	. Molding cellular aldehyde resins
Y10S 264/03	. Molding cellular pvc-isocyanate resins
Y10S 264/04	. Molding and forming bendable and flexible product from rigid preform
Y10S 264/05	. Use of one or more blowing agents together

Y10S 264/06	. Molding microballoons and binder
Y10S 264/07	. Binding and molding cellular particles
Y10S 264/08	. Fibrillating cellular materials
Y10S 264/09	. Pre-expansion of foamed polystyrene
Y10S 264/10	. Foamed polystyrene mold filling
Y10S 264/11	. Molding styropor using steam probes-batch
Y10S 264/12	. Molding styropor using steam probes continuous
Y10S 264/13	. Cell size and distribution control while molding a foam
Y10S 264/14	. forming integral skin on a foamed product
Y10S 264/15	. Aging of foamed resin products
Y10S 264/16	. Molding foamed polypropylen articles
Y10S 264/17	. Molding a foam containing a filler
Y10S 264/18	. Cross-linking a thermoplastic linear foam during molding
Y10S 264/19	. Inorganic fiber
Y10S 264/20	. Tar bonded
Y10S 264/25	. Metallic oxide
Y10S 264/26	. Composite fibers made of two or more materials
Y10S 264/27	. Process of spinning viscose where viscose has high degree of polymerization
Y10S 264/28	. Stretching filaments in gas or steam
Y10S 264/29	. Mixed resin filaments
Y10S 264/30	. Use of anatomy in making a mold or using said mold
Y10S 264/31	. Processes of making tile and tile-like surfaces
Y10S 264/32	. Processes in molding using asbestos or asphalt
Y10S 264/33	. Blow-molding articles of nonuniform thickness
Y10S 264/34	. Processes and molds for making buttons
Y10S 264/35	. Use of CaO with refractories
Y10S 264/36	. Processes of making metal-ceramics
Y10S 264/37	. Processes and molds for making capsules
Y10S 264/38	. Making film or tubes from casein
Y10S 264/39	. Treatment of clay before and after molding
Y10S 264/40	. Processes of coiling plastics
Y10S 264/41	. Processes of molding collapsible tubes
Y10S 264/42	. Processes of molding involving cross linking
Y10S 264/43	. Processes of curing clay and concrete materials
Y10S 264/44	. using destructible molds or cores in molding processes
Y10S 264/45	. Molding using an electrical force
Y10S 264/46	. Molding using an electrical heat
Y10S 264/47	. Processes of splitting film, webs or sheets
Y10S 264/48	. Processes of making filters
Y10S 264/49	. Processes of using fly ash

Y10S 264/50	. Use of fluid pressure in molding
Y10S 264/51	. Use of fluidized bed in molding
Y10S 264/52	. Processes of making corrugated tubes for gas mask
Y10S 264/53	. Processes of using glass filter in molding process
Y10S 264/54	. Processes in making insulators
Y10S 264/55	. Processes for making jewelry
Y10S 264/56	. Processes of molding lactams
Y10S 264/57	. Processes of forming layered products
Y10S 264/58	. Processes of forming magnets
Y10S 264/59	. Processes in which a partial cure is involved
Y10S 264/60	. Processes of molding plastisols
Y10S 264/61	. Processes of molding polyamide
Y10S 264/62	. Processes of molding porous films
Y10S 264/63	. Processes of molding porous blocks
Y10S 264/64	. Processes of using preform in molding
Y10S 264/65	. Processes of preheating prior to molding
Y10S 264/66	. Processes of reshaping and reforming
Y10S 264/67	. forming ring-like structure
Y10S 264/68	. Roll
Y10S 264/70	. Processes for forming screens or perforating articles
Y10S 264/71	. Processes of shaping by shrinking
Y10S 264/72	. Processes of molding by spraying
Y10S 264/73	. Processes of stretching
Y10S 264/74	. Processes of repairing tires
Y10S 264/75	. Processes of uniting two or more fibers
Y10S 264/76	. Processes of uniting two or more parts
Y10S 264/77	. Processes of molding urethanes
Y10S 264/78	. Processes of molding using vacuum
Y10S 264/79	. Processes of molding articles of vinylidene chloride
Y10S 264/80	. Processes of waterproofing
Y10S 264/81	. Plastic net
Y10S 264/82	. Embossing by foaming
Y10S 264/83	. Injection molding of polyolefin-type foam
Y10S 264/84	. Conversion of foamed resinous buns into foamed billets having geometrical crosssections
Y10S 264/90	. 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
Y10S 264/901	. . Heat-setting of stretched or molecularly oriented article formed from planar preform, e.g. sheet, film
Y10S 264/902	. . Production of continuous length

- Y10S 264/903 . . Heat-setting and simultaneous differential heating of stretched or molecularly oriented section of article or preform
- Y10S 264/904 . . Maintaining article in fixed shape during heat-setting
- Y10S 264/905 . . having plural, distinct differential fluid pressure shaping steps
- Y10S 264/906 . . . And heat-shrinking outside of mold including subsequent re-expanding of shrunken article using differential fluid pressure
- Y10S 264/907 . Direct application of fluid pressure differential to shape, reshape, i.e. distort, or sustain an article or preform and crystallizing of nonstretched or molecularly unoriented portion thereof
- Y10S 264/908 . . Crystallizing of neck portion of hollow article or hollow preform
- Y10S 264/909 . Direct application of fluid pressure differential to stretch an article or preform and heat shrinking of stretched article or preform
- Y10S 264/91 . Sintering to produce translucent inorganic article
- Y10S 264/911 . Recycling consumer used articles or products
- Y10S 264/912 . . From toroidal shapes, e.g. resilient tires
- Y10S 264/913 . . From fiber or filament, or fiber or filament containing article or product, e.g. textile, cloth fabric, carpet, fiberboard
- Y10S 264/914 . . . From cellulose containing articles, e.g. paper
- Y10S 264/915 . . From inorganic material containing articles or products, e.g. hydro-set, cement, plaster, wire, cable
- Y10S 264/916 . . From porous material containing articles, e.g. sponge, foam
- Y10S 264/917 . . by blow molding material recycled from consumer used article or product
- Y10S 264/918 . . From hollow- or container-type articles, e.g. tubes, bottles, cups
- Y10S 264/919 . . . From pipe or tube, e.g. hose
- Y10S 264/92 . . by extruding material recycled from consumer used article or product
- Y10S 264/921 . . by injection molding material recycled from consumer used article or product

### **Metallurgical apparatus**

#### **Y10S 266/00**

#### **Metallurgical apparatus**

- Y10S 266/01 . Repair or restoration of apparatus
- Y10S 266/90 . Metal melting furnaces, e.g. cupola type
- Y10S 266/901 . Scrap metal preheating or melting
- Y10S 266/902 . Blowpipes specialized to transversely cut or notch blooms, billets or bars
- Y10S 266/903 . Safety shields
- Y10S 266/904 . Blowpipe cutting heads
- Y10S 266/905 . Refractory metal-extracting means

### **Spring devices**

#### **Y10S 267/00**

#### **Spring devices**

- Y10S 267/01 . Constant height

- Y10S 267/02 . Constant height, self-pumping
- Y10S 267/03 . Spring buckle

### **Work holders**

#### **Y10S 269/00**

#### **Work holders**

- Y10S 269/90 . Supporting structure having work holder receiving apertures or projections
- Y10S 269/901 . Collapsible or foldable work holder supporting structure
- Y10S 269/902 . Work holder member with v-shaped notch or groove
- Y10S 269/903 . Work holder for electrical circuit assemblages or wiring systems
- Y10S 269/904 . Work holder for positioning elements of building in installed location
- Y10S 269/905 . Work holder for doors and door frames
- Y10S 269/906 . Work holder for skis
- Y10S 269/907 . Work holder for fishing flies
- Y10S 269/908 . Work holder for cathode-ray tubes
- Y10S 269/909 . Work holder for specific work
- Y10S 269/91 . Work holder for prefabricated roof truss or wall frame

### **Sheet feeding or delivering**

#### **Y10S 271/00**

#### **Sheet feeding or delivering**

- Y10S 271/90 . Stripper
- Y10S 271/901 . Magnetic operation
- Y10S 271/902 . Reverse direction of sheet movement
- Y10S 271/903 . Traveling wicket for stack on edge

### **Amusement devices: games**

#### **Y10S 273/00**

#### **Amusement devices: games**

- Y10S 273/01 . Carbonate
- Y10S 273/02 . Styrene
- Y10S 273/03 . Epoxy
- Y10S 273/04 . Ethylene
- Y10S 273/05 . Vinyl
- Y10S 273/06 . Nylon
- Y10S 273/07 . Glass fiber
- Y10S 273/08 . Urethane
- Y10S 273/09 . Ester
- Y10S 273/10 . Butadiene
- Y10S 273/11 . Acetal
- Y10S 273/12 . Propylene



Y10S 273/13	. Artificial grass
Y10S 273/14	. Transparent
Y10S 273/15	. Cork
Y10S 273/16	. Acrylic
Y10S 273/17	. Head mounted
Y10S 273/18	. Shoe mounted
Y10S 273/19	. Waist mounted
Y10S 273/20	. Weighted balls
Y10S 273/21	. Reel
Y10S 273/22	. Ionomer
Y10S 273/23	. High modulus filaments
Y10S 273/24	. Luminescent, phosphorescent
Y10S 273/25	. Suction cups involved
Y10S 273/26	. Point counters and score indicators
Y10S 273/27	. Blind and color blind
Y10S 273/29	. Silicone
Y10S 273/30	. Hooked pile fabric fastener
Y10S 273/31	. Undulated surface

#### **Seal for a joint or juncture**

<b>Y10S 277/00</b>	<b>Seal for a joint or juncture</b>
Y10S 277/902	. Seal for sterling engine
Y10S 277/903	. Seal for rotating kiln or drum
Y10S 277/904	. Viscous seal
Y10S 277/905	. T-Shaped or I-shaped ring member including seal on a side
Y10S 277/906	. Seal for article of indefinite length, e.g. strip, sheet
Y10S 277/907	. Passageway in rod or shaft
Y10S 277/908	. Seal for use in rotating and reciprocating arrangement
Y10S 277/909	. Similar sealing structures for mounting on piston and about rod
Y10S 277/91	. O-ring seal
Y10S 277/911	. Seal combined with nominal motion transmitting device
Y10S 277/912	. . Spline connection
Y10S 277/913	. Seal for fluid pressure below atmospheric, e.g. vacuum
Y10S 277/914	. Backup seal for failure of primary seal
Y10S 277/915	. Seal including compression set feature
Y10S 277/916	. Seal including vibration dampening feature
Y10S 277/917	. Seal including frangible feature
Y10S 277/918	. Seal combined with filter or fluid separator
Y10S 277/919	. Seal including electrical feature

Y10S 277/92	. Seal including electromagnetic shielding feature
Y10S 277/921	. Closure or weather strip seal
Y10S 277/922	. Bonding or joining for manufacture of seal
Y10S 277/923	.. Shrink-fitting for the assembly of seal
Y10S 277/924	. Deformation, material removal, or molding for manufacture of seal
Y10S 277/925	. Snap fit feature for mounting or assembly of seal
Y10S 277/926	. Seal including fluid pressure equalizing or balancing feature
Y10S 277/927	. Seal including fluid pressure differential feature
Y10S 277/928	. Seal including pressure relief or vent feature
Y10S 277/929	. Seal feature where change in operation or condition induces additional leakage control
Y10S 277/93	. Seal including heating or cooling feature
Y10S 277/931	. Seal including temperature responsive feature
Y10S 277/932	.. Bi-metallic
Y10S 277/933	.. Chemical reaction or physical change of state
Y10S 277/934	. Seal swells when wet
Y10S 277/935	. Seal made of a particular material
Y10S 277/936	.. Composite
Y10S 277/937	... Glass particles or filament
Y10S 277/938	... Carbon or graphite particle or filament
Y10S 277/939	.. Containing metal
Y10S 277/94	... Alloy
Y10S 277/941	... Aluminum or copper
Y10S 277/942	... Silver or gold
Y10S 277/943	.. Ceramic or glass
Y10S 277/944	.. Elastomer or plastic
Y10S 277/945	... Containing fluorine
Y10S 277/946	.... PTFE

### **Chucks or sockets**

<b>Y10S 279/00</b>	<b>Chucks or sockets</b>
Y10S 279/90	. Adapted for automatic tool changer
Y10S 279/901	. Chuck or chuck jaw changing means
Y10S 279/902	. Keyless type socket
Y10S 279/903	. Needle roller type socket
Y10S 279/904	. Quick change socket
Y10S 279/905	.. with ball detent
Y10S 279/906	. Self grasping socket
Y10S 279/907	. Washer type jaw or actuator

**Land vehicles****Y10S 280/00****Land vehicles**

- Y10S 280/01 . Load responsive, leveling of vehicle
- Y10S 280/02 . Wheel supports for outboard motors
- Y10S 280/03 . Wheeled shopping bag
- Y10S 280/04 . Grocery store cart
- Y10S 280/05 . Motorized golf carts
- Y10S 280/06 . Wheeled golf club carriers
- Y10S 280/07 . Air bag rollers
- Y10S 280/08 . Separable body or container-type semitrailers
- Y10S 280/09 . Occupant-steered trailers
- Y10S 280/10 . Stair climbing chairs
- Y10S 280/11 . Walking attendant steered trailers
- Y10S 280/12 . Clamp-type ski bindings having plural diverse axes or clamps
- Y10S 280/13 . Ski binding controlled by skier position or by remote control
- Y10S 280/14 . Tractor-trailer backing connections
- Y10S 280/90 . Runner vehicle attachments
- Y10S 280/901 . Adaptation of nonspecialized vehicles to semitrailer tractors

**Books, strips, and leaves****Y10S 281/00****Books, strips, and leaves**

- Y10S 281/01 . Magnet

**Printed matter****Y10S 283/00****Printed matter**

- Y10S 283/90 . Medical record
- Y10S 283/901 . Concealed data
- Y10S 283/902 . Anti-photocopy
- Y10S 283/903 . Lottery ticket
- Y10S 283/904 . Credit card

**Pipe joints or couplings****Y10S 285/00****Pipe joints or couplings**

- Y10S 285/90 . Balanced pressure
- Y10S 285/901 . Cap closures
- Y10S 285/902 . Canted ring

Y10S 285/903	. Corrugated
Y10S 285/904	. Cryogenic
Y10S 285/905	. Different coefficients of expansion
Y10S 285/906	. Equivalents
Y10S 285/907	. Electrical fixtures
Y10S 285/908	. Extrusion holes
Y10S 285/909	. Fluorocarbons and memory plastics
Y10S 285/91	. Gaskets
Y10S 285/911	. Glass
Y10S 285/912	. Gear
Y10S 285/913	. Interdigitating
Y10S 285/914	. Irreversible
Y10S 285/915	. Mastic
Y10S 285/916	. Molecular change
Y10S 285/917	. Metallic seals
Y10S 285/918	. O-ring
Y10S 285/919	. Resinous
Y10S 285/92	. Remotely controlled
Y10S 285/921	. Snap-fit
Y10S 285/922	. Safety and quick release for drill pipes
Y10S 285/923	. Specific material
Y10S 285/924	. Vented
Y10S 285/925	. Swells when wet

### **Closure fasteners**

<b>Y10S 292/00</b>	<b>Closure fasteners</b>
Y10S 292/01	. Automobile fender shield fasteners
Y10S 292/02	. Auxiliary knob slip covers, guards
Y10S 292/03	. Automobile multiple door latches
Y10S 292/04	. Automatic release latches
Y10S 292/05	. Automobile top latches
Y10S 292/06	. Automobile window wing fasteners
Y10S 292/07	. Disc cam; also swinging windows, locking and operating means
Y10S 292/08	. Buffer handles
Y10S 292/09	. Hinge plate fasteners secured to upper sash
Y10S 292/10	. Cupped disc fasteners
Y10S 292/11	. Cover fasteners
Y10S 292/12	. Closure operators
Y10S 292/13	. Cow proof latches

Y10S 292/14	. Hood latches
Y10S 292/15	. Door, checks, floor
Y10S 292/16	. Flexible bolts
Y10S 292/17	. Hinge edge latches
Y10S 292/18	. Gang locks
Y10S 292/19	. Combined door holder and buffer
Y10S 292/20	. Window fasteners
Y10S 292/21	. Individually latched double doors
Y10S 292/22	. Inertia operated
Y10S 292/23	. Vehicle door latches
Y10S 292/24	. Dogging mechanism from inside operating means
Y10S 292/25	. Remote control
Y10S 292/26	. Automatic undogging or reconnecting
Y10S 292/27	. Disconnectable handle
Y10S 292/28	. Suction cup fasteners
Y10S 292/29	. End gate fasteners
Y10S 292/30	. Latch and handle
Y10S 292/31	. Lever operator, flush
Y10S 292/32	. Freight car door fasteners
Y10S 292/33	. Metallic casement window fasteners
Y10S 292/34	. Non-refillable container cover fasteners
Y10S 292/35	. Storm sash fasteners
Y10S 292/36	. Overhead door latches
Y10S 292/37	. Push button operators
Y10S 292/38	. Plastic latch parts
Y10S 292/39	. Dovetail door aligner
Y10S 292/40	. Combined dovetail and keeper
Y10S 292/41	. Door latch separation prevention
Y10S 292/42	. Trunk latches
Y10S 292/43	. Rear deck lid latches
Y10S 292/44	. Extensible bolts
Y10S 292/45	. Slot closure
Y10S 292/46	. Sliding door fasteners
Y10S 292/47	. Sash fasteners
Y10S 292/48	. Traveling bag frame and camera cover fasteners
Y10S 292/49	. Toggle catches
Y10S 292/50	. Handbag or purse clasps
Y10S 292/51	. Bolt guides
Y10S 292/52	. Rollbacks
Y10S 292/53	. Mounting and attachment

Y10S 292/54	. Attachments and adjuncts
Y10S 292/55	. Bolt and keeper aligners
Y10S 292/56	. Silencers
Y10S 292/57	. Anti-friction provisions
Y10S 292/58	. Lubrication
Y10S 292/59	. insulation, heat and electrical
Y10S 292/60	. Adjustment provisions
Y10S 292/61	. Spring devices
Y10S 292/62	. Lost motion connections
Y10S 292/63	. Finger or hand grip
Y10S 292/64	. Assembly
Y10S 292/65	. Emergency or safety
Y10S 292/66	. Thermally controlled mechanism
Y10S 292/67	. Vehicle door latches free of sash or pane
Y10S 292/68	. Locker latches
Y10S 292/69	. Washing machine or stove closure latch
Y10S 292/70	. Weather strip and sash fastener combined
Y10S 292/71	. Refrigerator latches
Y10S 292/72	. Starters
Y10S 292/73	. Anti-rattlers

#### **Vehicle fenders**

<b>Y10S 293/00</b>	<b>Vehicle fenders</b>
Y10S 293/01	. Pusher attachment for tractors
Y10S 293/06	. Magnetic fender securing devices

#### **Handling: hand and hoist-line implements**

<b>Y10S 294/00</b>	<b>Handling: hand and hoist-line implements</b>
Y10S 294/901	. Plate lifting clamp
Y10S 294/902	. Gripping element
Y10S 294/903	. Battery carrier
Y10S 294/904	. Vehicle carrier
Y10S 294/905	. Wireless remote control device
Y10S 294/906	. Atomic fuel handler
Y10S 294/907	. Sensor controlled device

#### **Land vehicles: bodies and tops**

<b>Y10S 296/00</b>	<b>Land vehicles: bodies and tops</b>
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- Y10S 296/90 . Material
- Y10S 296/90101 . . Plastic

### **Chairs and seats**

- |                    |   |
|--------------------|---|
| <b>Y10S 297/00</b> | <b>Chairs and seats</b>                                     |
| Y10S 297/01        | . Foam  |
| Y10S 297/02        | . Molded  |
| Y10S 297/03        | . Pneumatic   |
| Y10S 297/04        | . Wheelchair  |
| Y10S 297/05        | . Fireproof   |
| Y10S 297/06        | . Hook and loop type fastener                               |
| Y10S 297/07        | . Rocker/recliner   |
| Y10S 297/08        | . Inflatable bellows  |
| Y10S 297/10        | . Occupant-arising assist                                   |
| Y10S 297/11        | . Baby bouncer  |
| Y10S 297/90        | . Chair for suntanning in the prone, i.e. facedown position |

### **Fluid-pressure and analogous brake systems**

- |                    |   |
|--------------------|---|
| <b>Y10S 303/00</b> | <b>Fluid-pressure and analogous brake systems</b>                         |
| Y10S 303/01        | . Pressure comparison   |
| Y10S 303/02        | . Brake control by pressure comparison                                    |
| Y10S 303/03        | . . Electrical pressure sensor  |
| Y10S 303/04        | . . . Pressure signal used in electrical speed controlled braking circuit |
| Y10S 303/05        | . Acceleration peak detection   |
| Y10S 303/06        | . Axle differential control   |
| Y10S 303/07        | . Small tire digest   |
| Y10S 303/08        | . Antichatter   |
| Y10S 303/09        | . Plural processors   |
| Y10S 303/10        | . Valve block integrating pump, valves, solenoid, accumulator             |
| Y10S 303/11        | . Accumulator   |
| Y10S 303/12        | . Air over hydraulic brake system   |
| Y10S 303/90        | . ABS throttle control  |
| Y10S 303/901       | . ABS check valve detail  |

### **Wheel substitutes for land vehicles**

- |                    |  |
|--------------------|--|
| <b>Y10S 305/00</b> | <b>Wheel substitutes for land vehicles</b> |
| Y10S 305/90        | . Master link                              |

**Electrical transmission or interconnection systems****Y10S 307/00      Electrical transmission or interconnection systems**

- Y10S 307/01      .   Data transmitted over power lines

**Electrical generator or motor structure****Y10S 310/00      Electrical generator or motor structure**

- Y10S 310/02      .   Hysteresis rotors and motors
- Y10S 310/03      .   Hall effect generators and converters
- Y10S 310/06      .   Printed-circuit motors and components
- Y10S 310/80      .   Piezoelectric polymers, e.g. PVDF

**Supports: cabinet structure****Y10S 312/00      Supports: cabinet structure**

- Y10S 312/901      .   Fan-out holders for recording media
- Y10S 312/902      .   Carrying case

**Electric lamp and discharge devices****Y10S 313/00      Electric lamp and discharge devices**

- Y10S 313/07      .   Bombardment induced conductivity

**Electric lamp and discharge devices: systems****Y10S 315/00      Electric lamp and discharge devices: systems**

- Y10S 315/01      .   Fluorescent lamp circuits with more than two principle electrodes
- Y10S 315/02      .   High frequency starting operation for fluorescent lamp
- Y10S 315/03      .   Circuit for ion gauges and pressure gauges
- Y10S 315/04      .   Dimming circuit for fluorescent lamps
- Y10S 315/05      .   Starting and operating circuit for fluorescent lamp
- Y10S 315/07      .   Starting and control circuits for gas discharge lamp using transistors

**Electricity: motive power systems****Y10S 318/00      Electricity: motive power systems**

- Y10S 318/02      .   Windshield wiper controls



**Electricity: battery or capacitor charging or discharging****Y10S 320/00****Electricity: battery or capacitor charging or discharging**

- Y10S 320/10 . Nonbattery load controls charging
- Y10S 320/11 . Prioritized supply of power or power supply compensation
- Y10S 320/12 . Precharging analysis, e.g. determining presence of battery
- Y10S 320/13 . Fault detection
- Y10S 320/14 . Battery acts as buffer
- Y10S 320/15 . Polarity control
- Y10S 320/16 . Removal of memory effect in batteries
- Y10S 320/17 . Sensing of "gassing" voltage
- Y10S 320/18 . Indicator or display
- Y10S 320/19 . . . Charger status, e.g. voltmeter
- Y10S 320/20 . . . Polarity
- Y10S 320/21 . . . State of charge of battery
- Y10S 320/22 . Line impedance, e.g. resistor
- Y10S 320/23 . . . Capacitor
- Y10S 320/24 . . . Inductor
- Y10S 320/25 . Optical coupler
- Y10S 320/26 . Button or hearing aid type
- Y10S 320/27 . Transformerless
- Y10S 320/28 . Regulating transformer, e.g. high leakage, ferro-resonant
- Y10S 320/29 . Transformer having plural secondaries
- Y10S 320/30 . Plural transformers
- Y10S 320/31 . Plural rectifier systems
- Y10S 320/32 . Voltage divider having diverse elements other than merely plural resistors
- Y10S 320/33 . Aircraft or spacecraft application
- Y10S 320/34 . Robot, hybrid, recreational or emergency vehicle
- Y10S 320/35 . Home power station
- Y10S 320/36 . Distribution system, e.g. railroad lighting

**Electricity: single generator systems****Y10S 322/00****Electricity: single generator systems**

- Y10S 322/02 . Generator field current-responsive systems
- Y10S 322/05 . Hall effects elements
- Y10S 322/06 . Ripple sensitive

**Electricity: power supply or regulation systems****Y10S 323/00****Electricity: power supply or regulation systems**

- Y10S 323/901 . Starting circuits
- Y10S 323/902 . Optical coupling to semiconductor
- Y10S 323/903 . Precipitators
- Y10S 323/904 . Touch systems
- Y10S 323/905 . Lamp dimmer structure
- Y10S 323/906 . Solar cell systems
- Y10S 323/907 . Temperature compensation of semiconductor
- Y10S 323/908 . Inrush current limiters
- Y10S 323/909 . Remote sensing
- Y10S 323/91 . Two of three phases regulated
- Y10S 323/911 . Medical electronics

**Electricity: measuring and testing****Y10S 324/00****Electricity: measuring and testing**

- Y10S 324/80 . Divining rods

**Oscillators****Y10S 331/00****Oscillators**

- Y10S 331/02 . Phase locked loop having lock indicating or detecting means
- Y10S 331/03 . Logic gate active element oscillator

**Inductor devices****Y10S 336/00****Inductor devices**

- Y10S 336/01 . Superconductive
- Y10S 336/02 . Separable

**Electrical resistors****Y10S 338/00****Electrical resistors**

- Y10S 338/01 . Worm gear drive

**Communications: radio wave antennas****Y10S 343/00****Communications: radio wave antennas**

- Y10S 343/01 . with vibration damper or wind catcher
- Y10S 343/02 . Satellite-mounted antenna

### **Computer graphics processing and selective visual display systems**

#### **Y10S 345/00**

#### **Computer graphics processing and selective visual display systems**

- Y10S 345/901 . Electronic book with display
- Y10S 345/902 . Menu display
- Y10S 345/903 . Modular display
- Y10S 345/904 . Display with fail/safe testing feature
- Y10S 345/905 . Display device with housing structure
- Y10S 345/947 . Font character edge processing
- Y10S 345/948 . Alteration of stored fonts to maintain feature consistency throughout scaled font
- Y10S 345/949 . Animation processing method
- Y10S 345/95 . . . Sprite processing
- Y10S 345/951 . . . Key frame processing
- Y10S 345/952 . . Simulation
- Y10S 345/953 . . Geometric processing
- Y10S 345/954 . . . Quaternions
- Y10S 345/955 . . Morphing
- Y10S 345/956 . . Language driven animation
- Y10S 345/957 . . . Actor
- Y10S 345/958 . . Collision avoidance
- Y10S 345/959 . . Object path adherence
- Y10S 345/96 . . Iterative display of preconfigured images

### **Incremental printing of symbolic information**

#### **Y10S 347/00**

#### **Incremental printing of symbolic information**

- Y10S 347/90 . Data processing for electrostatic recording

### **Television**

#### **Y10S 348/00**

#### **Television**

- Y10S 348/901 . High speed television system
- Y10S 348/902 . Photochromic
- Y10S 348/903 . including side panel information in single channel
- Y10S 348/904 . Separation or joining of side and center panels
- Y10S 348/905 . Reproduction of a color field or frame
- Y10S 348/908 . Convertible circuits, e.g. y/c separation or noise reduction
- Y10S 348/909 . Noise responsive signal processing

- Y10S 348/91 . Flicker reduction
- Y10S 348/911 . Line doubler adapted for reproducing program originally from film, e.g. 24 frame per second
- Y10S 348/912 . Differential amplitude consideration, e.g. amplitude vs. frequency
- Y10S 348/913 . Letterbox, e.g. display 16:9 aspect ratio image on 4:3 screen
- Y10S 348/914 . Delay for equalization

### **Optics: image projectors**

#### **Y10S 353/00**

#### **Optics: image projectors**

- Y10S 353/01 . Slides stacked with surface to surface contact
- Y10S 353/02 . Film strip
- Y10S 353/03 . Transparent
- Y10S 353/04 . Opaque
- Y10S 353/05 . Transparency holder accessories
- Y10S 353/06 . Head accessories

### **Facsimile and static presentation processing**

#### **Y10S 358/00**

#### **Facsimile and static presentation processing**

- Y10S 358/9011 . Fiber optics
- Y10S 358/906 . Hand-held camera with recorder in a single unit
- Y10S 358/907 . Track skippers, i.e. "groove skippers"
- Y10S 358/908 . Pause control, i.e. "commercial killers"
- Y10S 358/9091 . Electronic still camera or scene reproducer

### **Optical: systems and elements**

#### **Y10S 359/00**

#### **Optical: systems and elements**

- Y10S 359/90 . Methods
- Y10S 359/901 . Acoustic holography
- Y10S 359/902 . Holographic interferometer
- Y10S 359/903 . with magnet
- Y10S 359/904 . Micro mirror

### **Dynamic magnetic information storage or retrieval**

#### **Y10S 360/00**

#### **Dynamic magnetic information storage or retrieval**

- Y10S 360/90 . Disk drive packaging
- Y10S 360/901 . . . Access time
- Y10S 360/902 . . . Storage density, e.g. bpi, tpi

- Y10S 360/903 . . . Physical parameter, e.g. form factor
- Y10S 360/904 . . . . Weight

### **Illumination**

#### **Y10S 362/00**

- Y10S 362/80
- Y10S 362/801
- Y10S 362/802
- Y10S 362/803
- Y10S 362/804
- Y10S 362/805
- Y10S 362/806
- Y10S 362/807
- Y10S 362/808
- Y10S 362/809
- Y10S 362/81
- Y10S 362/811
- Y10S 362/812

#### **Illumination**

- . Light emitting diode
- . Bedroom lighting, e.g. modular combinations
- . Position or condition responsive switch
- . Photo safe lamp
- . Surgical or dental spotlight
- . Horticultural
- . Ornamental or decorative
- . . . Star
- . . . Figure
- . . . . Terrestrial globe
- . . . Imitation candle
- . . . Psychedelic lighting
- . Signs

### **Agitating**

#### **Y10S 366/00**

- Y10S 366/01
- Y10S 366/02
- Y10S 366/03
- Y10S 366/04
- Y10S 366/60
- Y10S 366/601
- Y10S 366/602
- Y10S 366/603
- Y10S 366/604
- Y10S 366/605
- Y10S 366/606
- Y10S 366/607
- Y10S 366/608

#### **Agitating**

- . 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
- . Micromixers: segmented laminar flow with boundary mixing orthogonal to the direction of fluid propagation with or without geometry influences from the pathway
- . Micromixers: variable geometry from the pathway influences mixing/agitation of non-laminar fluid flow
- . Micromixers: with application of energy to influence mixing/agitation, e.g. magnetic, electrical, e-m radiation, particulate radiation, or ultrasound
- . Bodine vibrator
- . Motor control
- . Amalgam mixer, e.g. dental filling
- . Animal food mixer
- . Lather maker
- . Paint mixer
- . Tractor-mounted mortar mixing chamber
- . Chain-type stirrer
- . Stirrer in mixing chamber side wall

**Communications, electrical: acoustic wave systems and devices****Y10S 367/00****Communications, electrical: acoustic wave systems and devices**

- Y10S 367/90 . Sonar time varied gain control systems
- Y10S 367/901 . Noise or unwanted signal reduction in nonseismic receiving system
- Y10S 367/902 . Speed of sound compensation
- Y10S 367/903 . Transmit-receive circuitry
- Y10S 367/904 . Doppler compensation systems
- Y10S 367/905 . Side lobe reduction or shading
- Y10S 367/906 . Airborne shock-wave detection
- Y10S 367/907 . Coordinate determination
- Y10S 367/908 . Material level detection, e.g. liquid level
- Y10S 367/909 . Collision avoidance
- Y10S 367/91 . Portable sonar devices
- Y10S 367/911 . Particular well-logging apparatus
- Y10S 367/912 . . . . Particular transducer

**Multiplex communications****Y10S 370/00****Multiplex communications**

- Y10S 370/901 . Wide area network
- Y10S 370/902 . . . . Packet switching
- Y10S 370/903 . . . . . Osi compliant network
- Y10S 370/904 . . . . . Integrated Services Digital Network, ISDN
- Y10S 370/905 . . . . . Asynchronous transfer mode, ASN
- Y10S 370/906 . . . . . Fiber data distribution interface, FDDI
- Y10S 370/907 . . . . . Synchronous optical network, SONET
- Y10S 370/908 . Local area network
- Y10S 370/909 . . . . Token ring
- Y10S 370/91 . . . . Carrier sense multiple access, e.g. ethernet, 10base-t
- Y10S 370/911 . . . . Bridge, e.g. brouter, bus extender
- Y10S 370/912 . . . . Packet communications
- Y10S 370/913 . . . . Wireless or radio
- Y10S 370/914 . . . . Rate converter
- Y10S 370/915 . . . . Time division cellular radio systems
- Y10S 370/916 . . . . Multiplexer/demultiplexer

**Coherent light generators****Y10S 372/00****Coherent light generators**

- Y10S 372/70 . Optical delay
- Y10S 372/701 . Nozzle
- Y10S 372/702 . Isotope
- Y10S 372/703 . Optical isolater
- Y10S 372/704 . Summary reference
- Y10S 372/705 . Neat thing

### **Induced nuclear reactions: processes, systems, and elements**

#### **Y10S 376/00**

#### **Induced nuclear reactions: processes, systems, and elements**

- Y10S 376/90 . Particular material or material shapes for fission reactors
- Y10S 376/901 . . . Fuel
- Y10S 376/902 . . . with external lubricating or absorbing material
- Y10S 376/903 . . . Shapes
- Y10S 376/904 . . Moderator, reflector, or coolant materials
- Y10S 376/905 . . . Organic
- Y10S 376/906 . . . Metal
- Y10S 376/907 . . . Dissociative coolants
- Y10S 376/908 . Reactor geometry, or part thereof, defined in terms of numerical values
- Y10S 376/909 . Mobile reactors
- Y10S 376/91 . Rotating reactors
- Y10S 376/911 . Plural reactor systems
- Y10S 376/912 . Nuclear reactor systems situated in the ocean
- Y10S 376/913 . Antimatter devices and methods
- Y10S 376/914 . Nuclear explosives
- Y10S 376/915 . Fusion reactor fuels
- Y10S 376/916 . Methods of making fusion fuel targets
- Y10S 376/917 . Utilizing different fuels or fuels in different forms, in different reactor regions in relation to amounts of heat produced in said regions
- Y10S 376/918 . Entire reactor core of single integral structure

### **X-ray or gamma ray systems or devices**

#### **Y10S 378/00**

#### **X-ray or gamma ray systems or devices**

- Y10S 378/901 . Computer tomography program or processor

### **Telephonic communications**

#### **Y10S 379/00**

#### **Telephonic communications**

- Y10S 379/90 . Internet, e.g. Internet phone, webphone, internet-based telephony
- Y10S 379/901 . Virtual networks or virtual private networks

Y10S 379/902	. Auto-switch for an incoming voice data, or fax telephone call, e.g. comp/fax/tel
Y10S 379/903	. Password
Y10S 379/904	. Auto-calling
Y10S 379/905	. Fax mail
Y10S 379/906	. Touchtone message transmission
Y10S 379/907	. Speech recognition via telephone system or component
Y10S 379/908	. Multimedia
Y10S 379/909	. Alternatives
Y10S 379/91	. Bar code or optical character reader with telephone
Y10S 379/911	. Distinctive ringing
Y10S 379/912	. Geographically adaptive
Y10S 379/913	. Person locator or person-specific
Y10S 379/914	. Programmable telephone component
Y10S 379/915	.. Soft key
Y10S 379/916	. Touch screen associated with telephone set
Y10S 379/917	. Voice menus

### **Flexible bags**

<b>Y10S 383/00</b>	<b>Flexible bags</b>
Y10S 383/901	. Hot water or ice bag
Y10S 383/902	. having nonbag use
Y10S 383/903	. Stress relief
Y10S 383/904	. Filling tube
Y10S 383/905	. Dead fold, ductile, closure element
Y10S 383/906	. Dispensing feature
Y10S 383/907	. Peculiar, particular shape
Y10S 383/908	. Material having specified grain direction or molecular orientation

### **Bearings**

<b>Y10S 384/00</b>	<b>Bearings</b>
Y10S 384/90	. Cooling or heating
Y10S 384/901	.. Floating bushing
Y10S 384/902	.. Porous member
Y10S 384/903	.. Retaining ring
Y10S 384/904	.. Propeller shaft outer bearing
Y10S 384/905	.. Temperature compensation
Y10S 384/9051	.. Cup-shaped bearing
Y10S 384/906	.. Antirotation key



Y10S 384/907	..	Bearing material or solid lubricant
Y10S 384/9071	..	Jewel, glass, ceramic or carbon
Y10S 384/908	..	Nylon or polytetrafluorethylene
Y10S 384/909	..	Plastic
Y10S 384/91	..	Powders
Y10S 384/911	..	including fiber
Y10S 384/912	..	Metallic
Y10S 384/913	..	Metallic compounds

### **Optical waveguides**

<b>Y10S 385/00</b>	<b>Optical waveguides</b>
Y10S 385/90	. Solar collector or transmitter
Y10S 385/901	. Illuminating or display apparatus
Y10S 385/902	. Nonbundle fiberscope devices

### **Electricity: motor control systems**

<b>Y10S 388/00</b>	<b>Electricity: motor control systems</b>
Y10S 388/90	. Specific system operational feature
Y10S 388/901	.. Sample and hold
Y10S 388/902	.. Compensation
Y10S 388/903	.. Protective, e.g. voltage or current limit
Y10S 388/904	.. Stored velocity profile
Y10S 388/905	.. Armature and field windings connected in series, i.e. series motor
Y10S 388/906	.. Proportional-integral system
Y10S 388/907	. Specific control circuit element or device
Y10S 388/9072	.. Bridge circuit
Y10S 388/9075	.. Computer or microprocessor
Y10S 388/908	.. Frequency to voltage converter
Y10S 388/909	.. Monitoring means
Y10S 388/91	.. Operational/differential amplifier
Y10S 388/911	.. Phase locked loop
Y10S 388/912	.. Pulse or frequency counter
Y10S 388/913	.. Saturable reactor, space discharge device, or magnetic amplifier
Y10S 388/914	... Thyatron or ignitron
Y10S 388/915	.. Sawtooth or ramp waveform generator
Y10S 388/916	.. Threshold circuit
Y10S 388/917	.. Thyristor or scr
Y10S 388/918	... Trigger by unijunction transistor

Y10S 388/919	... Triggered by resistor or capacitor
Y10S 388/92	... Chopper
Y10S 388/921	.. Timer or time delay means
Y10S 388/922	.. Tuned or resonant circuit
Y10S 388/923	. Specific feedback condition or device
Y10S 388/924	.. Centrifugal device, e.g. governor
Y10S 388/925	... including contacts which open and close motor circuit
Y10S 388/926	... Which controls a vacuum tube or solid-state device in motor circuit
Y10S 388/927	... Which varies resistance of motor circuit
Y10S 388/928	... Which controls position of commutator brushes
Y10S 388/9281	.. Counter or back emf, CEMF
Y10S 388/929	.. Fluid/granular material flow rate, pressure, or level
Y10S 388/93	.. Load or torque
Y10S 388/931	... Electric generator or magnet as auxiliary load
Y10S 388/932	... with reverse torque, e.g. braking
Y10S 388/933	.. Radiant energy responsive device
Y10S 388/934	.. Thermal condition
Y10S 388/935	. Specific application:
Y10S 388/936	.. Food preparation equipment
Y10S 388/937	.. Hand tool

### **Typewriting machines**

<b>Y10S 400/00</b>	<b>Typewriting machines</b>
Y10S 400/90	. Chemical-symbol character
Y10S 400/901	. Continuously rotating type-head
Y10S 400/902	. Stepping-motor drive for web feed
Y10S 400/903	. Stepping-motor drive for carriage feed
Y10S 400/904	. Subscript or superscript character

### **Coating implements with material supply**

<b>Y10S 401/00</b>	<b>Coating implements with material supply</b>
Y10S 401/01	. Readily detachable lipstick cartridges
Y10S 401/02	. Remote recording of writing
Y10S 401/03	. Point shape

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

<b>Y10S 402/00</b>	<b>Binder device releasably engaging aperture or notch of sheet</b>
Y10S 402/50	. Binder with tab or fastener for securing sheet

- Y10S 402/501 . Sheet retainer continuous with periphery of sheet notch
- Y10S 402/502 . Container with sheet retainer
- Y10S 402/503 . Binder device, sheet or depository including magnetic material

### **Joints and connections**

#### **Y10S 403/00**

#### **Joints and connections**

- Y10S 403/01 . Magnetic
- Y10S 403/02 . Metal treatment
- Y10S 403/03 . Load-responsive release
- Y10S 403/04 . Quick release
- Y10S 403/05 . Carbon electrode
- Y10S 403/06 . Reciprocable ball detent
- Y10S 403/07 . Split ring stop or abutment
- Y10S 403/08 . Radially acting cam or eccentric
- Y10S 403/09 . Adjustable clamp
- Y10S 403/10 . Readily disengageable panel joints
- Y10S 403/11 . Furniture type having a snap fit
- Y10S 403/12 . Furniture type having a rotatable fastener or fastening element that tightens connection
- Y10S 403/13 . Furniture type
- Y10S 403/14 . Resilient cinch, locking-catch or retainer type
- Y10S 403/15 . Splice plates for co-linear members

### **Cutting by use of rotating axially moving tool**

#### **Y10S 408/00**

#### **Cutting by use of rotating axially moving tool**

- Y10S 408/01 . Bowling ball drill
- Y10S 408/70 . Cutting by use of ultrasonic energy
- Y10S 408/701 . Cutting by use of radiant energy, e.g. laser, maser
- Y10S 408/702 . Cutting by use of pneumatic drive means
- Y10S 408/703 . Trepanning
- Y10S 408/704 . Drilling small holes
- Y10S 408/705 . Drilling deep holes
- Y10S 408/706 . Drilling brake lining
- Y10S 408/707 . Drilling opening for bearing in connecting rod or piston
- Y10S 408/708 . Drilling opening for bearing in engine block
- Y10S 408/709 . Reboring piston receiving cylinder
- Y10S 408/71 . Safety device
- Y10S 408/711 . Adapter for broken tool
- Y10S 408/712 . Drill press adapted to use portable hand drill

- Y10S 408/713 . Tool having detachable cutting edge
- Y10S 408/714 . Resilient tool or tool-support

### **Gear cutting, milling, or planing**

#### **Y10S 409/00      Gear cutting, milling, or planing**

- Y10S 409/9001 . Machine button or locator
- Y10S 409/9002 . Machine tool carriage clamp
- Y10S 409/901 . Stereotype printing plate
- Y10S 409/902 . Tire mold
- Y10S 409/903 . Work holder
- Y10S 409/904 . with hydrostatic bearing

### **Expanded, threaded, driven, headed, tool-deformed, or locked-threaded fastener**

#### **Y10S 411/00      Expanded, threaded, driven, headed, tool-deformed, or locked-threaded fastener**

- Y10S 411/01 . Thread forming, reforming, or cleaning
- Y10S 411/02 . Temperature modification
- Y10S 411/03 . Utilizing fluid pressure
- Y10S 411/90 . Fastener or fastener element composed of plural different materials
- Y10S 411/901 .. Core and exterior of different materials
- Y10S 411/902 ... Metal core
- Y10S 411/903 .... Resinous exterior
- Y10S 411/904 . Fastener or fastener element composed of nonmetallic material
- Y10S 411/905 .. Paper or wood
- Y10S 411/906 .. Leather or fabric
- Y10S 411/907 .. Elastomeric
- Y10S 411/908 .. Resinous material
- Y10S 411/909 . Fastener or fastener element composed of thermo-responsive memory material
- Y10S 411/91 . Antitamper means
- Y10S 411/911 .. One-way drive
- Y10S 411/912 . Antisplitting fastener
- Y10S 411/913 . Self-expanding anchor
- Y10S 411/914 . Coated bolt
- Y10S 411/915 . Bolt having packing joint
- Y10S 411/916 . Bolt having tension feature
- Y10S 411/917 . Nut having tension feature
- Y10S 411/918 . Threadless nut
- Y10S 411/919 . Screw having driving contacts
- Y10S 411/92 . Staple

Y10S 411/921	. Multiple-pronged nail, spike or tack
Y10S 411/922	. Nail, spike or tack having locking device
Y10S 411/923	. Nail, spike or tack having specific head structure
Y10S 411/924	. Coupled nut and bolt
Y10S 411/9241	.. Deformed
Y10S 411/925	.. Top stop
Y10S 411/926	.. Positive lock
Y10S 411/927	... Side
Y10S 411/928	... Thread gripper
Y10S 411/929	.. Thread lock
Y10S 411/9291	... Coil spring
Y10S 411/9292	... Distorted washer
Y10S 411/93	... Flowing metal or settable material
Y10S 411/931	... Superposed nuts
Y10S 411/932	.... Oppositely threaded
Y10S 411/933	..... Key or pawl locked
Y10S 411/934	..... Side locked
Y10S 411/935	... Cam or cone grip
Y10S 411/9351	.... Cam
Y10S 411/936	... Canted nut
Y10S 411/937	... Distorted nut
Y10S 411/9371	.... Predistorted thread pitch or diameter
Y10S 411/9372	.... Post-distorted thread pitch or diameter
Y10S 411/938	... Distorted thread
Y10S 411/939	... Longitudinal key
Y10S 411/94	... Radial key or gib
Y10S 411/941	... Side clutch
Y10S 411/9411	.... Spring
Y10S 411/9412	.... Roller
Y10S 411/9413	.... Ball
Y10S 411/942	... Tangential key
Y10S 411/943	.. Flexible washer
Y10S 411/944	.. Flexible key
Y10S 411/945	.. Cross key
Y10S 411/946	... Spring-seated
Y10S 411/947	.. Elastic-gripping action
Y10S 411/948	.. Longitudinal key
Y10S 411/949	.. Ratchet and bolt-carried pawl
Y10S 411/95	.. Ratchet and nut-carried pawl
Y10S 411/951	... Flexible

Y10S 411/952	...	Pivoted
Y10S 411/953	..	Washer-carried pawl
Y10S 411/954	..	Wedged slotted bolt
Y10S 411/955	.	Locked bolthead or nut
Y10S 411/956	..	Automatic base clutch
Y10S 411/957	...	Biting tooth
Y10S 411/958	....	Coiled washer
Y10S 411/959	....	Bolt- or nut-carried
Y10S 411/96	...	Friction
Y10S 411/961	...	Pawl and ratchet
Y10S 411/962	....	Bolthead or nut-carried pawl
Y10S 411/963	....	Yielding interlocking washer
Y10S 411/964	...	Detent
Y10S 411/965	..	with retainer
Y10S 411/966	...	Multiple, i.e. gang type
Y10S 411/967	...	Deformable bolthead or nut
Y10S 411/968	...	Deformable base member
Y10S 411/969	...	Deformable retainer
Y10S 411/97	...	Resilient retainer
Y10S 411/971	...	And side lock
Y10S 411/972	..	Distorted
Y10S 411/973	..	Gravity bolthead, nut or washer
Y10S 411/974	..	Side lock
Y10S 411/975	...	Rotatable washer
Y10S 411/976	....	Bent tongue-locked
Y10S 411/977	....	Pawl-locked
Y10S 411/978	...	Pawl and ratchet
Y10S 411/979	...	Resilient
Y10S 411/98	....	Automatic
Y10S 411/981	.....	Coiled washer
Y10S 411/982	.....	Spring-tongued washer plate
Y10S 411/983	...	Inelastic tongue
Y10S 411/984	...	Longitudinal
Y10S 411/985	....	Bolthead- or nut-held
Y10S 411/986	.....	Reversed bolthead or nut
Y10S 411/987	....	Side pin
Y10S 411/988	....	Spike-held locking plate
Y10S 411/989	....	Swinging
Y10S 411/99	....	Washer tongue-held
Y10S 411/991	...	Transversely sliding

Y10S 411/992	....	Key, plate, or bar
Y10S 411/993	.....	Bolthead- or nut-held
Y10S 411/994	.....	Sliding washer
Y10S 411/995	...	Transversely swinging
Y10S 411/996	..	Transverse base-locking key
Y10S 411/997	..	Longitudinal fastener
Y10S 411/998	.	with positive bolt lock
Y10S 411/999	.	with retainer, e.g. tether

### **Bookbinding: process and apparatus**

#### **Y10S 412/00      Bookbinding: process and apparatus**

Y10S 412/90	.	Activating previously applied adhesive
Y10S 412/901	.	Pressure sensitive adhesive
Y10S 412/902	.	Heating and pressing

### **Material or article handling**

#### **Y10S 414/00      Material or article handling**

Y10S 414/10	.	Associated with forming or dispersing groups of intersupporting articles, e.g. stacking patterns
Y10S 414/101	..	with article-supporting fluid cushion
Y10S 414/102	..	including support for group
Y10S 414/103	...	Vertically shiftable
Y10S 414/104	....	Shifted by change in weight thereon
Y10S 414/105	....	Shifted by article responsive means
Y10S 414/106	..	including means for supplying pallet or separator to group
Y10S 414/107	...	Recirculates emptied pallet or separator
Y10S 414/108	..	including means for collecting emptied pallet or separator
Y10S 414/109	..	Manual step utilized
Y10S 414/11	..	Bricks
Y10S 414/111	..	Audio or video cassettes
Y10S 414/112	..	Group formed or dispensed by reversible apparatus
Y10S 414/113	..	Nonconforming article diverted
Y10S 414/114	..	Adjust to handle articles or groups of different sizes
Y10S 414/115	..	including article counter
Y10S 414/116	..	including control for pattern of group
Y10S 414/117	..	with means to apply adhesive to article
Y10S 414/118	..	having geneva drive for apparatus
Y10S 414/119	..	with article flap deflector
Y10S 414/12	..	including means pressing against top or end of group

Y10S 414/121	. Perforated article handling
Y10S 414/122	. Remote control handlers
Y10S 414/123	. Hollow cylinder handlers
Y10S 414/124	. Roll handlers
Y10S 414/125	. Combined or convertible implements
Y10S 414/126	. Handlers with spring devices
Y10S 414/127	. Handling vehicles with overhead guard for operator
Y10S 414/128	. Handler-type toys
Y10S 414/129	. Shaft mucking machines
Y10S 414/13	. Handlers utilizing parallel links
Y10S 414/131	. Transmission-line guide for a shiftable handler
Y10S 414/132	. Vehicle-carried storage member, e.g. portable silo and means for erecting member from attitude during transport to position of intended use
Y10S 414/133	. Handling device on tractor unit
Y10S 414/134	. Handicapped person handling
Y10S 414/135	. Associated with semiconductor wafer handling
Y10S 414/136	.. including wafer orienting means
Y10S 414/137	.. including means for charging or discharging wafer cassette
Y10S 414/138	... Wafers positioned vertically within cassette
Y10S 414/139	.. including wafer charging or discharging means for vacuum chamber
Y10S 414/14	.. Wafer cassette transporting
Y10S 414/141	.. includes means for gripping wafer

### **Rotary kinetic fluid motors or pumps**

<b>Y10S 415/00</b>	<b>Rotary kinetic fluid motors or pumps</b>
Y10S 415/90	. Rotary blood pump
Y10S 415/901	. Drilled well-type pump
Y10S 415/902	. Rotary pump turbine publications
Y10S 415/903	. Well bit drive turbine
Y10S 415/904	. Tool drive turbine, e.g. dental drill
Y10S 415/905	. Natural fluid current motor
Y10S 415/906	.. having specific features for water current
Y10S 415/907	.. Vertical runner axis
Y10S 415/908	.. Axial flow runner
Y10S 415/909	. Air stack or shaft having natural fluid current motor
Y10S 415/91	. Reversible between pump and motor use
Y10S 415/911	. Pump having reversible runner rotation and separate outlets for opposing directions of rotation
Y10S 415/912	. Interchangeable parts to vary pumping capacity or size of pump
Y10S 415/913	. Inlet and outlet with concentric portions



- Y10S 415/914 . Device to control boundary layer
- Y10S 415/915 . Pump or portion thereof by casting or molding
- Y10S 415/916 . Perpetual motion devices

#### **Fluid reaction surfaces, i.e. impellers**

- |                    |  |
|--------------------|--|
| <b>Y10S 416/00</b> | <b>Fluid reaction surfaces, i.e. impellers</b> |
| Y10S 416/01        | . Stalker                                      |
| Y10S 416/02        | . Formulas of curves                           |
| Y10S 416/03        | . Sheet metal                                  |
| Y10S 416/04        | . Fluid current motor and generator            |
| Y10S 416/05        | . Variable camber or chord length              |
| Y10S 416/06        | . Supports for natural fluid current motors    |
| Y10S 416/07        | . Inlet and outlet                             |
| Y10S 416/08        | . Stack or chimney with fluid motor            |
| Y10S 416/09        | . Savonius                                     |
| Y10S 416/50        | . Vibration damping features                   |
| Y10S 416/501       | . Fly brush type impeller                      |

#### **Pumps**

- |                    |  |
|--------------------|--|
| <b>Y10S 417/00</b> | <b>Pumps</b>   |
| Y10S 417/01        | . Materials digest                                     |
| Y10S 417/90        | . Slurry pumps, e.g. concrete                          |
| Y10S 417/901       | . Cryogenic pumps                                      |
| Y10S 417/902       | . Hermetically sealed motor pump unit                  |
| Y10S 417/903       | . Treadle operated                                     |
| Y10S 417/904       | . Well pump driven by fluid motor mounted above ground |

#### **Rotary expansible chamber devices**

- |                    |  |
|--------------------|--|
| <b>Y10S 418/00</b> | <b>Rotary expansible chamber devices</b> |
| Y10S 418/01        | . Non-working fluid separation           |

#### **Alloys or metallic compositions**

- |                    |  |
|--------------------|--|
| <b>Y10S 420/00</b> | <b>Alloys or metallic compositions</b> |
| Y10S 420/90        | . Hydrogen storage                     |
| Y10S 420/901       | . Superconductive                      |
| Y10S 420/902       | . Superplastic                         |
| Y10S 420/903       | . Semiconductive                       |

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

<b>Y10S 422/00</b>	<b>Chemical apparatus and process disinfecting, deodorizing, preserving, or sterilizing</b>
Y10S 422/90	. Decreasing pollution or environmental impact
Y10S 422/901	. Polymer dissolver
Y10S 422/902	. Sodium chloride and potassium chloride dissolver
Y10S 422/903	. Radioactive material apparatus
Y10S 422/904	. Nitrogen fixation means
Y10S 422/905	. Miscellaneous liquid sterilization means
Y10S 422/906	. Plasma or ion generation means
Y10S 422/907	. Corona or glow discharge means

**Chemistry of inorganic compounds**

<b>Y10S 423/00</b>	<b>Chemistry of inorganic compounds</b>
Y10S 423/01	. Waste acid containing iron
Y10S 423/02	.. Sulfuric acid
Y10S 423/03	. Papermaking liquor
Y10S 423/04	. Manganese marine modules
Y10S 423/05	. Automatic, including computer, control
Y10S 423/06	. Temperature control
Y10S 423/07	. Isotope separation
Y10S 423/08	. Corrosion or deposition inhibiting
Y10S 423/09	. Reaction techniques
Y10S 423/10	.. Plasma energized
Y10S 423/11	.. High pressure
Y10S 423/12	.. Molten media
Y10S 423/13	.. Catalyst contact
Y10S 423/14	.. Ion exchange; chelation or liquid/liquid ion extraction
Y10S 423/15	.. Comminution
Y10S 423/16	.. Fluidization
Y10S 423/17	.. Microbiological reactions
Y10S 423/18	. Treating trash or garbage
Y10S 423/19	. Geothermal steam purification
Y10S 423/21	. Faujasite, e.g. X, Y, CZS-3, ECR-4, Z-14HS, VHP-R
Y10S 423/22	. MFI, e.g. ZSM-5, silicalite, LZ-241
Y10S 423/23	. Ferrierite, e.g. SR-D ZSM-33
Y10S 423/24	. LTA, e.g. A, alpha, ZK-4, ZK-21, ZK-22
Y10S 423/25	. Mordenite, e.g. NA-D, pttiolite, zeolon

Y10S 423/26	. Mazzite, e.g. ZSM-4, omega
Y10S 423/27	. Beta, e.g. NU-2
Y10S 423/28	. LTL, e.g. BA-G, L, AG-1, AG-2, AG-4, BA-6
Y10S 423/29	. MEL, e.g. ZSM-11
Y10S 423/30	. Alpo and sapo
Y10S 423/31	. Rho, e.g. ECR-10, LZ-214
Y10S 423/32	. Sodalite, e.g. HS, ultramarine
Y10S 423/33	. MTW, e.g. ZSM-12, NU-13, CZH-5, TPZ-3
Y10S 423/34	. Pentasils other than MFI and MEL, e.g. AZ-1, TZ-01, TZ-02, TRS, ZBM-10
Y10S 423/35	. TON, e.g. Theta-1, ISI-1, KZ-2, ZSM-22, NU-10
Y10S 423/36	. MTT, e.g. ZSM-23, ISI-1, KZ-1, EU-1, EU-4, EU-13
Y10S 423/37	. LEV, e.g. levynik, ZMT-45, ZK-20, NU-3, LZ-132, LZ-133
Y10S 423/38	. Offretite, e.g. TMA offrete
Y10S 423/39	. Fullerene, e.g. c60, c70 derivative and related process
Y10S 423/40	. Fullerene composition

#### **Drug, bio-affecting and body treating compositions**

<b>Y10S 424/00</b>	<b>Drug, bio-affecting and body treating compositions</b>
Y10S 424/01	. Aerosol hair preparation
Y10S 424/02	. Resin hair settings
Y10S 424/03	. Hair bleach
Y10S 424/04	. Dandruff
Y10S 424/05	. Stick
Y10S 424/06	. Chelate
Y10S 424/07	. Microporous membranes
Y10S 424/08	. Systemic pesticides
Y10S 424/09	. Fish posts
Y10S 424/10	. Insect repellent
Y10S 424/11	. Termite treating
Y10S 424/12	. Fertilization attaching inhibition
Y10S 424/13	. Burn treatment
Y10S 424/14	. Topical contraceptives and spermicides
Y10S 424/15	. Suppositories
Y10S 424/16	. Dendrimers and dendritic polymers
Y10S 424/80	. Antibody or fragment thereof whose amino acid sequence is disclosed in whole or in part
Y10S 424/801	. involving antibody or fragment thereof produced by recombinant dna technology
Y10S 424/802	. Antibody or antigen-binding fragment thereof that binds gram-positive bacteria
Y10S 424/803	. Antibody or antigen-binding fragment thereof that binds gram-negative bacteria

Y10S 424/804	. involving IgG3, IgG4, IgA, or IgY
Y10S 424/805	. involving IgE or IgD
Y10S 424/806	. involving IgM
Y10S 424/807	.. Monoclonal
Y10S 424/808	... Human
Y10S 424/809	. involving immunoglobulin or antibody fragment, e.g. fab`, fv, fc, heavy chain or light chain
Y10S 424/81	. involving autoimmunity, allergy, immediate hypersensitivity, delayed hypersensitivity, immunosuppression, immunotolerance, or anergy
Y10S 424/811	. involving sex selection or contraception
Y10S 424/812	. Liposome comprising an antibody, antibody fragment, antigen, or other specific or nonspecific immunoeffector
Y10S 424/813	. Viral vaccine for bovine species, e.g. cattle
Y10S 424/814	. Viral vaccine for ovine species, e.g. sheep
Y10S 424/815	. Viral vaccine for porcine species, e.g. swine
Y10S 424/816	. Viral vaccine for avian species, e.g. poultry or other birds
Y10S 424/817	. Viral vaccine for fish
Y10S 424/818	. Viral vaccine for canidae or mustelidae, e.g. dogs, foxes, minks
Y10S 424/819	. Viral vaccine for feline species, e.g. cats
Y10S 424/82	. Viral vaccine for equine species, e.g. horses
Y10S 424/821	. involving temperature-sensitive mutant virus
Y10S 424/822	. involving tk- virus
Y10S 424/823	. Bacterial vaccine for bovine species, e.g. cattle
Y10S 424/824	. Bacterial vaccine for ovine species, e.g. sheep
Y10S 424/825	. Bacterial vaccine for porcine species, e.g. swine
Y10S 424/826	. Bacterial vaccine for avian species, e.g. poultry or other birds
Y10S 424/827	. Bacterial vaccine for fish
Y10S 424/828	. Bacterial vaccine for canidae or mustelidae, e.g. dogs, foxes, minks
Y10S 424/829	. Bacterial vaccine for equine species, e.g. horses
Y10S 424/83	. involving temperature-sensitive mutant bacterium
Y10S 424/831	. involving capsular polysaccharide of bacterium, e.g. polyribosyl ribitol phosphate
Y10S 424/832	. involving bacterial toxin that has modified amino acid sequence
Y10S 424/90	. 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**

<b>Y10S 425/00</b>	<b>Plastic article or earthenware shaping or treating: apparatus</b>
Y10S 425/001	. Accumulator
Y10S 425/002	. Air support
Y10S 425/003	. Appendage

Y10S 425/004	. Back pressure
Y10S 425/005	. Cammed
Y10S 425/007	. Coil
Y10S 425/009	. Cooling and color
Y10S 425/01	. Core positioning
Y10S 425/011	. Dental injection
Y10S 425/012	. Destructible mold and core
Y10S 425/013	. Electric heat
Y10S 425/014	. Expansible and collapsible
Y10S 425/015	. Explosive
Y10S 425/016	. Extrude and mold
Y10S 425/017	. Filament stretching apparatus
Y10S 425/019	. Flexible fluid pressure
Y10S 425/02	. Fluidized bed
Y10S 425/021	. Frictional drive
Y10S 425/022	. Friction heat
Y10S 425/023	. Glazing
Y10S 425/024	. Gora
Y10S 425/025	. Gutter
Y10S 425/026	. High pressure
Y10S 425/027	. Hot water bottle
Y10S 425/028	. Impact
Y10S 425/029	. Jigs and dies
Y10S 425/03	. Laminated mold
Y10S 425/032	. Lipstick
Y10S 425/033	. Magnet
Y10S 425/034	. Morin
Y10S 425/035	. Opposed plunger
Y10S 425/036	. Patching
Y10S 425/037	. Perforate
Y10S 425/038	. Pre-form
Y10S 425/039	. Pre-heat
Y10S 425/04	. Pulling wheel
Y10S 425/041	. Reshape
Y10S 425/042	. Ring
Y10S 425/043	. Rocket fuel core
Y10S 425/044	. Rubber mold
Y10S 425/045	. Safety
Y10S 425/046	. Scrap
Y10S 425/047	. Seal ring

Y10S 425/048	. Sheet clamping
Y10S 425/049	. Spinnerette mixer
Y10S 425/05	. Spray
Y10S 425/051	. Sprue removal
Y10S 425/053	. Stretch
Y10S 425/054	. Through travel mold
Y10S 425/055	. Polytetrafluoroethylene, i.e. PTFE
Y10S 425/056	. Telephone
Y10S 425/057	. Toy molding
Y10S 425/058	. Undercut
Y10S 425/059	. United parts
Y10S 425/06	. Vacuum
Y10S 425/061	. Venetian blind
Y10S 425/101	. Aggregate and pellet
Y10S 425/102	. Air ejection
Y10S 425/105	. Brace
Y10S 425/106	. Chamber
Y10S 425/107	. Connection
Y10S 425/108	. Conveyor
Y10S 425/109	. Frangible connections
Y10S 425/11	. Heated mold
Y10S 425/111	. Hollow block
Y10S 425/112	. Inflatable form
Y10S 425/113	. Inner roll
Y10S 425/115	. Lubricator
Y10S 425/116	. Mold cleaning
Y10S 425/117	. Pallet
Y10S 425/118	. Pallet feeder
Y10S 425/119	. Perforated or porous
Y10S 425/12	. Pottery appendage
Y10S 425/121	. Projection
Y10S 425/122	. Reinforcing and aggregate
Y10S 425/123	. Repress
Y10S 425/124	. Rubber matrix
Y10S 425/125	. Sand mold
Y10S 425/126	. Silo mold
Y10S 425/127	. Spring
Y10S 425/128	. Swinging top press
Y10S 425/129	. Wedge
Y10S 425/13	. Wire reinforce

Y10S 425/131	. Yielding plunger
Y10S 425/132	. Portable
Y10S 425/20	. Molding plants
Y10S 425/201	.. Diverse stations
Y10S 425/202	.. Earthenwave type
Y10S 425/203	.. Control for blow molding apparatus
Y10S 425/217	. Spinnerette forming conjugate, composite or hollow filaments
Y10S 425/218	. Pipe machine: socket forming apparatus
Y10S 425/219	. with stick inserting means for edible product
Y10S 425/221	. Injection mold closing and locking clamp, wedge or retention means
Y10S 425/223	. Injection mold closing means utilizing variable closing pressure
Y10S 425/224	. Injection mold nozzle valve
Y10S 425/225	.. Automatic control
Y10S 425/226	.. Actuated by contact with mold
Y10S 425/227	. Injection nozzle; positioned flush with mold or cavity
Y10S 425/228	. Injection plunger or ram: transfer molding type
Y10S 425/229	. Injection mold runner valve
Y10S 425/23	. Hay wafering or pelletizing means
Y10S 425/235	. Calendar
Y10S 425/236	. Attenuating
Y10S 425/237	. Varying density foam
Y10S 425/238	. Boat hull mold
Y10S 425/239	. Modular mold
Y10S 425/24	. Pre-fab mold
Y10S 425/241	. Wall panel mold
Y10S 425/242	. Pipe joint seal mold
Y10S 425/243	. Extrusion or injection molding
Y10S 425/244	. Die and matrix
Y10S 425/245	. Heat
Y10S 425/246	. Mold heating
Y10S 425/247	. Multipart injection molds
Y10S 425/248	. Uniting
Y10S 425/249	. Character
Y10S 425/801	. Button
Y10S 425/802	. Cable tube or rod splicing
Y10S 425/803	. Candle or crayon
Y10S 425/804	. Capsule making
Y10S 425/805	. Comb or brush
Y10S 425/806	. Flash removal
Y10S 425/807	. Lace tipping

Y10S 425/808	. Lens mold
Y10S 425/809	. Seal, bottle caps only
Y10S 425/81	. Sound record
Y10S 425/811	. Stencil
Y10S 425/812	. Venting
Y10S 425/813	. Water bottle
Y10S 425/814	. Zipper
Y10S 425/815	. Chemically inert or reactive atmosphere
Y10S 425/816	. Gas mask
Y10S 425/817	. Means molding pore formable material
Y10S 425/8175	.. Continuous
Y10S 425/818	. Belt

### **Food or edible material: processes, compositions, and products**

<b>Y10S 426/00</b>	<b>Food or edible material: processes, compositions, and products</b>
Y10S 426/80	. Geriatric
Y10S 426/801	. Pediatric
Y10S 426/802	. Simulated animal flesh
Y10S 426/803	. Simulated fruit or vegetable
Y10S 426/804	. Low calorie, low sodium or hypoallergic
Y10S 426/805	. Pet food for dog, cat, bird, or fish
Y10S 426/806	. Salt or mineral substitute
Y10S 426/807	. Poultry or ruminant feed
Y10S 426/808	. Starch base snack product
Y10S 426/809	. including harvesting or planting or other numerous miscellaneous processing steps
Y10S 426/81	. Energy rations, e.g. emergency rations, survival rations
Y10S 426/811	. Utilizing surface parting, antistick or release agent

### **Coating processes**

<b>Y10S 427/00</b>	<b>Coating processes</b>
Y10S 427/10	. Chemical vapor infiltration, i.e. CVI
Y10S 427/101	. Liquid Source Chemical Deposition, i.e. LSCVD or Aerosol Chemical Vapor Deposition, i.e. ACVD
Y10S 427/102	. Fullerene type base or coating
Y10S 427/103	. Diamond-like carbon coating, i.e. DLC
Y10S 427/104	.. Utilizing low energy electromagnetic radiation, e.g. microwave, radio wave, IR, UV, visible, actinic laser
Y10S 427/105	.. Utilizing ion plating or ion implantation
Y10S 427/106	.. Utilizing plasma, e.g. corona, glow discharge, cold plasma



**Stock material or miscellaneous articles****Y10S 428/00****Stock material or miscellaneous articles**

- Y10S 428/90 . Magnetic feature
- Y10S 428/901 . Printed circuit
- Y10S 428/902 . High modulus filament or fiber
- Y10S 428/903 . Microfiber, less than 100 micron diameter
- Y10S 428/9033 . Recycled materials
- Y10S 428/904 . Artificial leather
- Y10S 428/9044 . Wall and shelf covering
- Y10S 428/905 . Odor releasing material
- Y10S 428/906 . Roll or coil
- Y10S 428/9066 . Embroidery
- Y10S 428/907 . Resistant against plant or animal attack
- Y10S 428/9077 . Layer or article rendered light-transmissive by pressure, e.g. blushed
- Y10S 428/908 . Impression retention layer, e.g. print matrix, sound record
- Y10S 428/9088 . Wear-resistant layer
- Y10S 428/909 . Resilient layer, e.g. printer's blanket
- Y10S 428/91 . Product with molecular orientation
- Y10S 428/911 . Penetration resistant layer
- Y10S 428/912 . Puncture healing layer
- Y10S 428/9122 . Mirror
- Y10S 428/913 . Material designed to be responsive to temperature, light, moisture
- Y10S 428/9133 . Decorative article for viewing from one side only, e.g. plaque
- Y10S 428/914 . Transfer or decalcomania
- Y10S 428/915 . . . . . Fraud or tamper detecting
- Y10S 428/916 . Fraud or tamper detecting
- Y10S 428/917 . Electroluminescent
- Y10S 428/918 . Material abnormally transparent
- Y10S 428/919 . Camouflaged article
- Y10S 428/92 . Fire or heat protection feature
- Y10S 428/921 . . . . . Fire or flameproofing
- Y10S 428/922 . Static electricity metal bleed-off metallic stock
- Y10S 428/923 . . . . . Physical dimension
- Y10S 428/924 . . . . . Composite
- Y10S 428/925 . . . . . Relative dimension specified
- Y10S 428/926 . . . . . Thickness of individual layer specified
- Y10S 428/9265 . . . . . Special properties
- Y10S 428/927 . . . . . Decorative informative

Y10S 428/928	...	Magnetic property
Y10S 428/929	...	Electrical contact feature
Y10S 428/93	...	Electric superconducting
Y10S 428/931	...	Components of differing electric conductivity
Y10S 428/932	...	Abrasive or cutting feature
Y10S 428/933	...	Sacrificial component
Y10S 428/9335	..	Product by special process
Y10S 428/934	...	Electrical process
Y10S 428/935	....	Electroplating
Y10S 428/936	...	Chemical deposition, e.g. electroless plating
Y10S 428/937	...	Sprayed metal
Y10S 428/938	...	Vapor deposition or gas diffusion
Y10S 428/939	...	Molten or fused coating
Y10S 428/94	...	Pressure bonding, e.g. explosive
Y10S 428/941	...	Solid state alloying, e.g. diffusion, to disappearance of an original layer

#### **Chemistry: electrical current producing apparatus, product, and process**

<b>Y10S 429/00</b>	<b>Chemistry: electrical current producing apparatus, product, and process</b>
Y10S 429/90	. Fuel cell including means for power conditioning, e.g. Conversion to ac
Y10S 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**

<b>Y10S 430/00</b>	<b>Radiation imagery chemistry: process, composition, or product thereof</b>
Y10S 430/001	. Electric or magnetic imagery, e.g., xerography, electrography, magnetography, etc. Process, composition, or product
Y10S 430/10	.. Donor-acceptor complex photoconductor
Y10S 430/101	.. Photoconductive powder
Y10S 430/102	.. Electrically charging radiation-conductive surface
Y10S 430/103	.. Radiation sensitive composition or product containing specified antioxidant
Y10S 430/104	.. One component toner
Y10S 430/105	.. Polymer in developer
Y10S 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
Y10S 430/1055	.. Radiation sensitive composition or product or process of making
Y10S 430/106	... Binder containing
Y10S 430/107	.... Polyamide or polyurethane
Y10S 430/108	.... Polyolefin or halogen containing

Y10S 430/109	....	Polyester
Y10S 430/11	....	Vinyl alcohol polymer or derivative
Y10S 430/111	....	Polymer of unsaturated acid or ester
Y10S 430/112	....	Cellulosic
Y10S 430/113	....	with plasticizer
Y10S 430/114	...	Initiator containing
Y10S 430/115	....	Cationic or anionic
Y10S 430/116	....	Redox or dye sensitizer
Y10S 430/117	....	Free radical
Y10S 430/118	....	with inhibitor or stabilizer
Y10S 430/119	.....	Hydroxyl or carbonyl group containing as sole functional groups
Y10S 430/12	....	Nitrogen compound containing
Y10S 430/121	.....	Nitrogen in heterocyclic ring
Y10S 430/122	....	Sulfur compound containing
Y10S 430/123	.....	Sulfur in heterocyclic ring
Y10S 430/124	....	Carbonyl compound containing
Y10S 430/125	.....	Carbonyl in heterocyclic compound
Y10S 430/126	....	Halogen compound containing
Y10S 430/127	...	Spectral sensitizer containing
Y10S 430/128	...	Radiation-activated cross-linking agent containing
Y10S 430/129	.	Aerial films or processes specifically adapted for aerial radiation imagery
Y10S 430/13	.	Antibronze agent or process
Y10S 430/131	.	Anticurl layer
Y10S 430/132	.	Anti-ultraviolet fading
Y10S 430/133	.	Binder-free emulsion
Y10S 430/134	.	Brightener containing
Y10S 430/135	.	Cine film
Y10S 430/136	.	Coating process making radiation sensitive element
Y10S 430/137	.	Cobalt complex containing
Y10S 430/138	.	Corona discharge process
Y10S 430/139	.	Defect coating
Y10S 430/14	.	Dimensionally stable material
Y10S 430/141	.	Direct positive material
Y10S 430/142	.	Dye mordant
Y10S 430/143	.	Electron beam
Y10S 430/144	.	Hydrogen peroxide treatment
Y10S 430/145	.	Infrared
Y10S 430/146	.	Laser beam
Y10S 430/147	.	Lenticular
Y10S 430/148	.	Light sensitive titanium compound containing

Y10S 430/149	. Lippmann
Y10S 430/15	. Lithographic emulsion
Y10S 430/151	. Matting or other surface reflectivity altering material
Y10S 430/152	. Making camera copy, e.g. mechanical negative
Y10S 430/153	. Multiple image producing on single receiver
Y10S 430/154	. Neutron beam
Y10S 430/155	. Nonresinous additive to promote interlayer adhesion in element
Y10S 430/156	. Precursor compound
Y10S 430/157	.. interlayer correction coupler, ICC
Y10S 430/158	.. Development inhibitor releaser, DIR
Y10S 430/159	.. Development dye releaser, DDR
Y10S 430/16	.. Blocked developers
Y10S 430/161	.. Blocked restrainers
Y10S 430/162	. Protective or antiabrasion layer
Y10S 430/163	. Radiation-chromic compound
Y10S 430/164	. Rapid access processing
Y10S 430/165	. Thermal imaging composition
Y10S 430/166	. Toner containing
Y10S 430/167	. X-ray
Y10S 430/168	.. X-ray exposure process

### **Heating**

<b>Y10S 432/00</b>	<b>Heating</b>
Y10S 432/50	. Tobacco barns

### **Chemistry: molecular biology and microbiology**

<b>Y10S 435/00</b>	<b>Chemistry: molecular biology and microbiology</b>
Y10S 435/80	. Elimination or reduction of contamination by undesired ferments, e.g. aseptic cultivation
Y10S 435/801	. Anerobic cultivation
Y10S 435/802	. Logarithmic growth phase
Y10S 435/803	. Physical recovery methods, e.g. chromatography, grinding
Y10S 435/804	. Single cell protein
Y10S 435/805	. Test papers
Y10S 435/806	. Fertility tests
Y10S 435/807	. Gas detection apparatus
Y10S 435/808	. Optical sensing apparatus
Y10S 435/809	. Incubators or racks or holders for culture plates or containers
Y10S 435/81	. Packaged device or kit

Y10S 435/811	. Interferon
Y10S 435/812	. Foam control
Y10S 435/813	. Continuous fermentation
Y10S 435/814	. Enzyme separation or purification
Y10S 435/815	.. by sorption
Y10S 435/816	.. by solubility
Y10S 435/817	. Enzyme or microbe electrode
Y10S 435/818	. Aeration or oxygen transfer technique
Y10S 435/819	. Fermentation vessels in series
Y10S 435/82	. Subcellular parts of micro-organisms
Y10S 435/821	. Micro-organisms used in the destruction of hazardous or toxic waste
Y10S 435/8215	. Micro-organisms
Y10S 435/822	.. using bacteria or actinomycetales
Y10S 435/823	... Acetobacter
Y10S 435/824	... Achromobacter
Y10S 435/825	... Actinomadura
Y10S 435/826	... Actinomyces
Y10S 435/827	... Actinoplanes
Y10S 435/828	... Aerobacter
Y10S 435/829	... Alcaligenes
Y10S 435/83	... Arthrobacter
Y10S 435/831	... Azotobacter
Y10S 435/832	... Bacillus
Y10S 435/833	.... Bacillus brevis
Y10S 435/834	.... Bacillus cereus
Y10S 435/835	.... Bacillus circulans
Y10S 435/836	.... Bacillus licheniformis
Y10S 435/837	.... Bacillus megaterium
Y10S 435/838	.... Bacillus polymyxa
Y10S 435/839	.... Bacillus subtilis
Y10S 435/84	... Brevibacterium
Y10S 435/841	... Chainia
Y10S 435/842	... Clostridium
Y10S 435/843	... Corynebacterium
Y10S 435/844	.... Corynebacterium diphtheriae
Y10S 435/845	.... Corynebacterium poinsettiae
Y10S 435/846	.... Corynebacterium pyogenes
Y10S 435/847	... Erwinia
Y10S 435/848	... Escherichia
Y10S 435/849	.... Escherichia coli

Y10S 435/85	...	Flavobacterium
Y10S 435/851	...	Haemophilus
Y10S 435/852	...	Klebsiella
Y10S 435/853	...	Lactobacillus
Y10S 435/854	....	Lactobacillus acidophilus
Y10S 435/855	....	Lactobacillus brevis
Y10S 435/856	....	Lactobacillus casei
Y10S 435/857	....	Lactobacillus plantarum
Y10S 435/858	...	Methylomonas
Y10S 435/859	...	Micrococcus
Y10S 435/86	....	Micrococcus flavus
Y10S 435/861	....	Micrococcus glutamicus
Y10S 435/862	....	Micrococcus lysodeikticus
Y10S 435/863	...	Mycobacterium
Y10S 435/864	....	Mycobacterium avium
Y10S 435/865	....	Mycobacterium fortuitum
Y10S 435/866	....	Mycobacterium smegmatis
Y10S 435/867	...	Micromonospora
Y10S 435/868	....	Micromonospora chalybeata
Y10S 435/869	....	Micromonospora purpurea
Y10S 435/87	...	Mycoplasma
Y10S 435/871	...	Neisseria
Y10S 435/872	...	Nocardia
Y10S 435/873	...	Proteus
Y10S 435/874	...	Pseudomonas
Y10S 435/875	....	Pseudomonas aeruginosa
Y10S 435/876	....	Pseudomonas fluorescens
Y10S 435/877	....	Pseudomonas putida
Y10S 435/878	...	Rhizobium
Y10S 435/879	...	Salmonella
Y10S 435/88	...	Serratia
Y10S 435/881	....	Serratia marcescens
Y10S 435/882	...	Staphylococcus
Y10S 435/883	....	Staphylococcus aureus
Y10S 435/884	....	Staphylococcus epidermidis
Y10S 435/885	...	Streptococcus
Y10S 435/886	...	Streptomyces
Y10S 435/887	....	Streptomyces albus
Y10S 435/888	....	Streptomyces antibioticus
Y10S 435/889	....	Streptomyces aureofaciens

Y10S 435/89	....	<i>Streptomyces aureus</i>
Y10S 435/891	....	<i>Streptomyces bikiniensis</i>
Y10S 435/892	....	<i>Streptomyces candidus</i>
Y10S 435/893	....	<i>Streptomyces chartreusis</i>
Y10S 435/894	....	<i>Streptomyces diastatochromogenes</i>
Y10S 435/895	....	<i>Streptomyces filipinensis</i>
Y10S 435/896	....	<i>Streptomyces fradiae</i>
Y10S 435/897	....	<i>Streptomyces griseus</i>
Y10S 435/898	....	<i>Streptomyces hygroscopicus</i>
Y10S 435/899	....	<i>Streptomyces lavendulae</i>
Y10S 435/90	....	<i>Streptomyces lincolnensis</i>
Y10S 435/901	....	<i>Streptomyces noursei</i>
Y10S 435/902	....	<i>Streptomyces olivaceus</i>
Y10S 435/903	....	<i>Streptomyces platensis</i>
Y10S 435/904	....	<i>Streptomyces rimosus</i>
Y10S 435/905	....	<i>Streptomyces sparogenes</i>
Y10S 435/906	....	<i>Streptomyces venezuelae</i>
Y10S 435/907	...	<i>Streptosporangium</i>
Y10S 435/908	...	<i>Streptovorticillium</i>
Y10S 435/909	...	<i>Vibrio</i>
Y10S 435/91	...	<i>Xanthomonas</i>
Y10S 435/911	..	using fungi
Y10S 435/912	...	<i>Absidia</i>
Y10S 435/913	...	<i>Aspergillus</i>
Y10S 435/914	....	<i>Aspergillus awamori</i>
Y10S 435/915	....	<i>Aspergillus flavus</i>
Y10S 435/916	....	<i>Aspergillus fumigatus</i>
Y10S 435/917	....	<i>Aspergillus niger</i>
Y10S 435/918	....	<i>Aspergillus oryzae</i>
Y10S 435/919	....	<i>Aspergillus ustus</i>
Y10S 435/92	....	<i>Aspergillus wenti</i>
Y10S 435/921	...	<i>Candida</i>
Y10S 435/922	....	<i>Candida albicans</i>
Y10S 435/923	....	<i>Candida lipolytica</i>
Y10S 435/924	....	<i>Candida tropicalis</i>
Y10S 435/925	...	<i>Cephalosporium</i>
Y10S 435/926	....	<i>Cephalosporium acremonium</i>
Y10S 435/927	....	<i>Cephalosporium caerulens</i>
Y10S 435/928	....	<i>Cephalosporium crotocinigenium</i>
Y10S 435/929	...	<i>Fusarium</i>

Y10S 435/93	...	Hansenula
Y10S 435/931	...	Mucor
Y10S 435/932	...	Paecilomyces
Y10S 435/933	...	Penicillium
Y10S 435/934	....	Penicillium brevi
Y10S 435/935	....	Penicillium chrysogenum
Y10S 435/936	....	Penicillium notatum
Y10S 435/937	....	Penicillium patulum
Y10S 435/938	...	Pichia
Y10S 435/939	...	Rhizopus
Y10S 435/94	...	Saccharomyces
Y10S 435/941	....	Saccharomyces carlsbergensis
Y10S 435/942	....	Saccharomyces cerevisiae
Y10S 435/943	....	Saccharomyces lactis
Y10S 435/944	...	Torulopsis
Y10S 435/945	...	Trichoderma
Y10S 435/946	..	using algae
Y10S 435/947	..	using protozoa
Y10S 435/948	..	using viruses or cell lines
Y10S 435/96	.	Immunohistochemical assay
Y10S 435/961	.	including a step of forming, releasing, or exposing the antigen or forming the hapten-immunogenic carrier complex or the antigen per se
Y10S 435/962	.	Prevention or removal of interfering materials or reactants or other treatment to enhance results, e.g. determining or preventing nonspecific binding
Y10S 435/963	.	Methods of stopping an enzyme reaction or stabilizing the test materials
Y10S 435/964	.	including enzyme-ligand conjugate production, e.g. reducing rate of nonproductive linkage
Y10S 435/965	.	involving idiotype or anti-idiotype antibody
Y10S 435/966	.	involving an enzyme system with high turnover rate or complement magnified assay, e.g. multi-enzyme systems
Y10S 435/967	.	Standards, controls, materials, e.g. validation studies, buffer systems
Y10S 435/968	.	High energy substrates, e.g. fluorescent, chemiluminescent, radioactive
Y10S 435/969	.	Multiple layering of reactants
Y10S 435/97	.	Test strip or test slide
Y10S 435/971	.	Capture of complex after antigen-antibody reaction
Y10S 435/972	.	Modified antibody, e.g. hybrid, bifunctional
Y10S 435/973	.	Simultaneous determination of more than one analyte
Y10S 435/974	.	Aids related test
Y10S 435/975	.	Kit



**Chemistry: analytical and immunological testing****Y10S 436/00****Chemistry: analytical and immunological testing**

- Y10S 436/80 . Fluorescent dyes, e.g. rhodamine
- Y10S 436/801 . Electron dense compounds, e.g. ferritin
- Y10S 436/802 . Protein-bacteriophage conjugates
- Y10S 436/803 . Stable free radicals, e.g. spin immunoassay
- Y10S 436/804 . Radioisotope, e.g. radioimmunoassay
- Y10S 436/805 . Optical property
- Y10S 436/806 . Electrical property or magnetic property
- Y10S 436/807 . Apparatus included in process claim, e.g. physical support structures
- Y10S 436/808 . . Automated or kit
- Y10S 436/809 . . Multifield plates or multicontainer arrays
- Y10S 436/81 . . Tube, bottle, or dipstick
- Y10S 436/811 . Test for named disease, body condition or organ function
- Y10S 436/812 . . Infectious mononucleosis
- Y10S 436/813 . . Cancer
- Y10S 436/814 . . Pregnancy
- Y10S 436/815 . Test for named compound or class of compounds
- Y10S 436/816 . . Alkaloids, amphetamines, and barbiturates
- Y10S 436/817 . . Steroids or hormones
- Y10S 436/818 . . . Human chorionic gonadotropin
- Y10S 436/819 . Multifunctional antigen or antibody
- Y10S 436/82 . Hepatitis associated antigens and antibodies
- Y10S 436/821 . involving complement factors or complement systems
- Y10S 436/822 . Identified hapten
- Y10S 436/823 . Immunogenic carrier or carrier per se
- Y10S 436/824 . Immunological separation techniques
- Y10S 436/825 . Pretreatment for removal of interfering factors from sample
- Y10S 436/826 . Additives, e.g. buffers, diluents, preservatives
- Y10S 436/827 . Lectins
- Y10S 436/828 . Protein A
- Y10S 436/829 . Liposomes, e.g. encapsulation
- Y10S 436/90 . Breath testing
- Y10S 436/901 . Drugs of abuse, e.g. narcotics, amphetamine
- Y10S 436/902 . Dosimeter
- Y10S 436/903 . Diazo reactions
- Y10S 436/904 . Oxidation - reduction indicators
- Y10S 436/905 . Photochemical activation of reactions

- Y10S 436/906 . Fertility tests
- Y10S 436/907 . Fetal lung maturity
- Y10S 436/908 . Gravimetric analysis
- Y10S 436/909 . Nephelometry
- Y10S 436/91 . Iron-binding capacity of blood

### **Semiconductor device manufacturing: process**

#### **Y10S 438/00**

#### **Semiconductor device manufacturing: process**

- Y10S 438/90 . Bulk effect device making
- Y10S 438/901 . Capacitive junction
- Y10S 438/902 . Capping layer
- Y10S 438/903 . Catalyst aided deposition
- Y10S 438/904 . Charge carrier lifetime control
- Y10S 438/905 . Cleaning of reaction chamber
- Y10S 438/906 . Cleaning of wafer as interim step
- Y10S 438/907 . Continuous processing
- Y10S 438/908 . . Utilizing cluster apparatus
- Y10S 438/909 . Controlled atmosphere
- Y10S 438/91 . Controlling charging state at semiconductor-insulator interface
- Y10S 438/911 . Differential oxidation and etching
- Y10S 438/912 . Displacing pn junction
- Y10S 438/913 . Diverse treatments performed in unitary chamber
- Y10S 438/914 . Doping
- Y10S 438/915 . . Amphoteric doping
- Y10S 438/916 . . Autodoping control or utilization
- Y10S 438/917 . . Deep level dopants, e.g. gold, chromium, iron or nickel
- Y10S 438/918 . . Special or nonstandard dopant
- Y10S 438/919 . . Compensation doping
- Y10S 438/92 . . Controlling diffusion profile by oxidation
- Y10S 438/921 . . Nonselective diffusion
- Y10S 438/922 . . Diffusion along grain boundaries
- Y10S 438/923 . . Diffusion through a layer
- Y10S 438/924 . . To facilitate selective etching
- Y10S 438/925 . . Fluid growth doping control, e.g. delta doping
- Y10S 438/926 . Dummy metallization
- Y10S 438/927 . Electromigration resistant metallization
- Y10S 438/928 . Front and rear surface processing
- Y10S 438/929 . Eutectic semiconductor

Y10S 438/93	. Ternary or quaternary semiconductor comprised of elements from three different groups, e.g. I-III-V
Y10S 438/931	. Silicon carbide semiconductor
Y10S 438/932	. Boron nitride semiconductor
Y10S 438/933	. Germanium or silicon or Ge-Si on III-V
Y10S 438/934	. Sheet resistance, i.e. dopant parameters
Y10S 438/935	. Gas flow control
Y10S 438/936	. Graded energy gap
Y10S 438/937	. Hillock prevention
Y10S 438/938	. Lattice strain control or utilization
Y10S 438/939	. Langmuir-blodgett film utilization
Y10S 438/94	. Laser ablative material removal
Y10S 438/941	. Loading effect mitigation
Y10S 438/942	. Masking
Y10S 438/943	.. Movable
Y10S 438/944	.. Shadow
Y10S 438/945	.. Special, e.g. metal
Y10S 438/946	.. Step and repeat
Y10S 438/947	.. Subphotolithographic processing
Y10S 438/948	.. Radiation resist
Y10S 438/949	... Energy beam treating radiation resist on semiconductor
Y10S 438/95	... Multilayer mask including nonradiation sensitive layer
Y10S 438/951	... Lift-off
Y10S 438/952	... Utilizing antireflective layer
Y10S 438/953	. Making radiation resistant device
Y10S 438/954	. Making oxide-nitride-oxide device
Y10S 438/955	. Melt-back
Y10S 438/956	. Making multiple wavelength emissive device
Y10S 438/957	. Making metal-insulator-metal device
Y10S 438/958	. Passivation layer
Y10S 438/959	. Mechanical polishing of wafer
Y10S 438/96	. Porous semiconductor
Y10S 438/961	. Ion beam source and generation
Y10S 438/962	. Quantum dots and lines
Y10S 438/963	. Removing process residues from vertical substrate surfaces
Y10S 438/964	. Roughened surface
Y10S 438/965	. Shaped junction formation
Y10S 438/966	. Selective oxidation of ion-amorphousized layer
Y10S 438/967	. Semiconductor on specified insulator
Y10S 438/968	. Semiconductor-metal-semiconductor

- Y10S 438/969 . Simultaneous formation of monocrystalline and polycrystalline regions
- Y10S 438/97 . Specified etch stop material
- Y10S 438/971 . Stoichiometric control of host substrate composition
- Y10S 438/972 . Stored charge erasure
- Y10S 438/973 . Substrate orientation
- Y10S 438/974 . Substrate surface preparation
- Y10S 438/975 . Substrate or mask aligning feature
- Y10S 438/976 . Temporary protective layer
- Y10S 438/977 . Thinning or removal of substrate
- Y10S 438/978 . forming tapered edges on substrate or adjacent layers
- Y10S 438/979 . Tunnel diodes
- Y10S 438/98 . Utilizing process equivalents or options
- Y10S 438/981 . Utilizing varying dielectric thickness
- Y10S 438/982 . Varying orientation of devices in array
- Y10S 438/983 . Zener diodes

### **Electrical connectors**

#### **Y10S 439/00**

#### **Electrical connectors**

- Y10S 439/901 . Connector hood or shell
- Y10S 439/902 . . Angularly disposed contact and conductor
- Y10S 439/903 . . Special latch for insert
- Y10S 439/904 . . Multipart shell
- Y10S 439/905 . . . Axially joined sections
- Y10S 439/906 . . . Longitudinally divided
- Y10S 439/907 . Contact having three contact surfaces, including diverse surface
- Y10S 439/908 . Contact having two contact surfaces for electrical connection on opposite sides of insulative body
- Y10S 439/909 . Medical use or attached to human body
- Y10S 439/91 . Observation aide, e.g. transparent material, window in housing
- Y10S 439/911 . Safety, e.g. electrical disconnection required before opening housing
- Y10S 439/912 . with testing means
- Y10S 439/913 . Condition determining device, e.g. oxygen sensor, accelerometer, ionizer chamber, thermocouple
- Y10S 439/914 . for flashbulb or camera, including flash cube
- Y10S 439/915 . Auxiliary device for existing plug
- Y10S 439/916 . Antenna
- Y10S 439/917 . Alarm circuit, e.g. window affixed foil
- Y10S 439/918 . Multilamp vehicle panel
- Y10S 439/919 . for treatment by electrical current, e.g. magnet or battery charger, heater or welder
- Y10S 439/92 . for interconnecting rigid pipelike bodies, e.g. wave guides

- Y10S 439/921 . Transformer bushing type or high voltage underground connector
- Y10S 439/922 . Telephone switchboard protector
- Y10S 439/923 . Separation or disconnection aid
- Y10S 439/9241 . Contacts arranged for sequential connection
- Y10S 439/9242 . . with contact preventer to require joining in a given sequence
- Y10S 439/925 . Floor mounted, e.g. under carpet
- Y10S 439/926 . within machine casing or motor housing, connector within casing wall
- Y10S 439/927 . Conductive gasket
- Y10S 439/928 . Modular electrically interengaging parts, e.g. stove with replaceable heating elements formed on coupling parts
- Y10S 439/9281 . . Plug-in carrier or adapter for removable component, e.g. "hard drive" for computer
- Y10S 439/929 . Connecting base plate or shelf type holder
- Y10S 439/93 . Coupling part wherein contact is comprised of a wire or brush
- Y10S 439/931 . Conductive coating
- Y10S 439/932 . Heat shrink material
- Y10S 439/933 . Special insulation
- Y10S 439/934 . . High voltage barrier, e.g. surface arcing or corona preventing insulator
- Y10S 439/935 . . Glass or ceramic contact pin holder
- Y10S 439/936 . . Potting material or coating, e.g. grease, insulative coating, sealant or, adhesive
- Y10S 439/937 . . Plural insulators in strip form
- Y10S 439/9381 . Cathodic protection of structure, e.g. ship hull
- Y10S 439/939 . with grounding to metal mounting panel
- Y10S 439/94 . including provision for mechanical lifting or manipulation, e.g. for vacuum lifting
- Y10S 439/941 . Crosstalk suppression
- Y10S 439/942 . Comblike retainer for conductor
- Y10S 439/943 . including provision for pressing contact into pcb hole
- Y10S 439/944 . Coaxial connector having circuit-interrupting provision effected by mating or having "dead" contact activated after mating
- Y10S 439/945 . Adapter for pcb or cartridge
- Y10S 439/946 . Memory card cartridge
- Y10S 439/947 . PCB mounted connector with ground terminal
- Y10S 439/948 . Contact or connector with insertion depth limiter
- Y10S 439/949 . Junction box with busbar for plug-socket type interconnection with receptacle
- Y10S 439/95 . Electrical connector adapted to transmit electricity to mating connector without physical contact, e.g. by induction, magnetism, or electrostatic field
- Y10S 439/951 . PCB having detailed leading edge
- Y10S 439/952 . Jumper for use with specific apparatus
- Y10S 439/953 . with latch rod to be retainingly received by opening of mating connector
- Y10S 439/954 . Special orientation of electrical connector
- Y10S 439/955 . including electronic identifier or coding means
- Y10S 439/956 . with means to allow selection of diverse voltage or polarity

- Y10S 439/957 . Auxiliary contact part for circuit adaptation

### **Amusement devices: toys**

#### **Y10S 446/00 Amusement devices: toys**

- Y10S 446/901 . Detachably adhesive

### **Abrading**

#### **Y10S 451/00 Abrading**

- Y10S 451/90 . Gear abrader
- Y10S 451/901 . Super finish
- Y10S 451/902 . Brake abrading
- Y10S 451/903 . Egg cleaning
- Y10S 451/904 . Flexible abrasive storage reel
- Y10S 451/905 . Metal lap
- Y10S 451/906 . Machine element or unit
- Y10S 451/907 . Strip feeding
- Y10S 451/908 . Electrical abrading
- Y10S 451/909 . Wire polishing
- Y10S 451/91 . Ultrasonic
- Y10S 451/911 . Tool mounting point
- Y10S 451/912 . Shoe abrading
- Y10S 451/913 . Contour abrading
- Y10S 451/914 . Supporting, positioning, or feeding work
- Y10S 451/915 . Abrading wheel speed control
- Y10S 451/916 . Abrading of brush bristle
- Y10S 451/917 . Abrading of scalloped cutting edge, e.g. bread knife sharpening
- Y10S 451/918 . Adjustable work support, e.g. by sine bar
- Y10S 451/919 . Wankel
- Y10S 451/92 . Tire "rounding"
- Y10S 451/921 . Pad for lens shaping tool

### **Ventilation**

#### **Y10S 454/00 Ventilation**

- Y10S 454/90 . Ventilator using solar power
- Y10S 454/901 . Fog dispeller
- Y10S 454/902 . Air raid shelter ventilation
- Y10S 454/903 . Flexible ducts used for carrying air
- Y10S 454/904 . Magnetic means to hold a damper closed

- Y10S 454/905 . Black out means
- Y10S 454/906 . Noise inhibiting means
- Y10S 454/907 . Seat
- Y10S 454/908 . having rotary retarder
- Y10S 454/909 . Radon prevention

### **Crop threshing or separating**

#### **Y10S 460/00 Crop threshing or separating**

- Y10S 460/901 . Material distributor
- Y10S 460/902 . Grain cleaner
- Y10S 460/903 . Grain saver
- Y10S 460/904 . Potato digger
- Y10S 460/905 . Straw or chaff stacker

### **Books, strips, and leaves for manifolding**

#### **Y10S 462/00 Books, strips, and leaves for manifolding**

- Y10S 462/90 . Adhesive
- Y10S 462/901 . . Pressure sensitive
- Y10S 462/902 . Camouflage or nontransfer
- Y10S 462/903 . Security

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

#### **Y10S 464/00 Rotary shafts, gudgeons, housings, and flexible couplings for rotary shafts**

- Y10S 464/90 . Electrically insulative member
- Y10S 464/901 . Rapid attachment or release
- Y10S 464/902 . Particular material
- Y10S 464/903 . . Nonmetal
- Y10S 464/904 . Homokinetic coupling
- Y10S 464/905 . . Torque transmitted via radially extending pin
- Y10S 464/906 . . Torque transmitted via radially spaced balls

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

#### **Y10S 470/00 Threaded, headed fastener, or washer making: process and apparatus**

- Y10S 470/90 . Floating workholder
- Y10S 470/901 . Pipe or rod workholder
- Y10S 470/902 . Workholder index
- Y10S 470/903 . Yieldable spindle

- Y10S 470/904 . Turret
- Y10S 470/905 . Wire coil insert
- Y10S 470/906 . Nylon plug lock
- Y10S 470/907 . Clinch nut feeder

#### **Endless belt power transmission systems or components**

##### **Y10S 474/00      Endless belt power transmission systems or components**

- Y10S 474/90 . Phase variator
- Y10S 474/901 . Pulley or guide roll for track of endless track vehicle
- Y10S 474/902 . Particular connection between rim and hub
- Y10S 474/903 . Particular connection between hub and shaft

#### **Planetary gear transmission systems or components**

##### **Y10S 475/00      Planetary gear transmission systems or components**

- Y10S 475/90 . Brake for input or output shaft
- Y10S 475/901 . Particular material
- Y10S 475/902 . . Nonmetallic
- Y10S 475/903 . Stacked planetary gearing
- Y10S 475/904 . Particular mathematical equation

#### **Friction gear transmission systems or components**

##### **Y10S 476/00      Friction gear transmission systems or components**

- Y10S 476/90 . Overload release

#### **Interrelated power delivery controls, including engine control**

##### **Y10S 477/00      Interrelated power delivery controls, including engine control**

- Y10S 477/90 . Control signal is vehicle weight
- Y10S 477/901 . Control signal is slope
- Y10S 477/902 . Control signal is engine parameter other than manifold pressure or fuel control
- Y10S 477/903 . Control signal is steering
- Y10S 477/904 . Control signal is acceleration
- Y10S 477/905 . . Acceleration of throttle signal
- Y10S 477/906 . Means detecting or ameliorating the effects of malfunction or potential malfunction
- Y10S 477/907 . . Redundant
- Y10S 477/908 . In series transmission



**Exercise devices****Y10S 482/00****Exercise devices**

- Y10S 482/90 . Ergometer with feedback to load or with feedback comparison
- Y10S 482/901 . having computer circuitry
- Y10S 482/902 .. Employing specific graphic or video display
- Y10S 482/903 . Utilizing electromagnetic force resistance
- Y10S 482/904 . Removably attached to wheelchair, home furnishing, or home structure
- Y10S 482/905 . Arm wrestling
- Y10S 482/906 . Utilizing opponent supplied resistance
- Y10S 482/907 . Stretching
- Y10S 482/908 . Adjustable
- Y10S 482/909 . Mechanical indicator
- Y10S 482/91 . Portable exercise device with carrying handle, case, or cabinet

**Tool changing****Y10S 483/00****Tool changing**

- Y10S 483/90 . Gripping portion engages tool simultaneous with tool rotating in spindle
- Y10S 483/901 . Robot end effectors
- Y10S 483/902 . Tool grippers

**Manufacturing container or tube from paper; or other manufacturing from a sheet or web****Y10S 493/00****Manufacturing container or tube from paper; or other manufacturing from a sheet or web**

- Y10S 493/901 . Rigid container
- Y10S 493/902 .. Dished
- Y10S 493/903 .. Insulated thermally
- Y10S 493/904 .. Cushioned
- Y10S 493/905 .. having window
- Y10S 493/906 .. having multilayer wall
- Y10S 493/907 ... Lined
- Y10S 493/908 ... Covered
- Y10S 493/909 .. having handle or suspension means
- Y10S 493/91 .. Cigarette container
- Y10S 493/911 ... Flip-top
- Y10S 493/912 .. having internal partition
- Y10S 493/913 ... Egg container
- Y10S 493/914 .. Eyeglass container

Y10S 493/915	.. Match container
Y10S 493/916	. Pliable container
Y10S 493/917	.. Envelope
Y10S 493/918	... Expandable
Y10S 493/919	... having window
Y10S 493/92	... having plural compartments
Y10S 493/921	... having integrally formed insert
Y10S 493/922	... having liner
Y10S 493/923	... with opening means, e.g. tear strip, valve
Y10S 493/924	.. Requiring external support during filling
Y10S 493/925	.. having mesh or window opening
Y10S 493/926	.. having handle or suspension means
Y10S 493/927	.. Reclosable
Y10S 493/928	... with draw string
Y10S 493/929	... with valve
Y10S 493/93	.. having tear strip
Y10S 493/931	.. having plural compartments
Y10S 493/932	.. having plural openings
Y10S 493/933	.. having multilayer wall
Y10S 493/934	.. Parallelepiped or tetrahedron shape
Y10S 493/935	.. Covering bag, e.g. garment protector
Y10S 493/936	.. Square bottom
Y10S 493/937	. Textile
Y10S 493/938	.. Apparel
Y10S 493/939	. Apparel support
Y10S 493/94	. Bellows
Y10S 493/941	. Filter
Y10S 493/942	. Cleaning implement, e.g. brush, dust mop
Y10S 493/943	. Candy stick
Y10S 493/944	. Aperture card or display device with window
Y10S 493/945	. Coin holder
Y10S 493/946	. Phonograph record jacket
Y10S 493/947	. File folder
Y10S 493/948	. Igniting fuse
Y10S 493/949	. Electrical insulation
Y10S 493/95	. Lamp shade
Y10S 493/951	. Seedling container
Y10S 493/952	. Photo corner mount
Y10S 493/953	. Stencil or outline guide
Y10S 493/954	. Spool

- Y10S 493/955 . Decoration article
- Y10S 493/956 . . having appearance of living plant, e.g. christmas tree
- Y10S 493/957 . . Festoon
- Y10S 493/958 . . Garland
- Y10S 493/959 . Toy or amusement article
- Y10S 493/96 . Toilet article
- Y10S 493/961 . Tag, marker, or label
- Y10S 493/962 . Closure, e.g. tie string, valve
- Y10S 493/963 . Opener, e.g. tear strip
- Y10S 493/964 . Pallet
- Y10S 493/965 . . Flat or "boat", e.g. for candy, crackers
- Y10S 493/966 . Honeycomb structure
- Y10S 493/967 . Dunnage, wadding, stuffing, or filling excelsior
- Y10S 493/968 . Structural shape

#### **Imperforate bowl: centrifugal separators**

- Y10S 494/00 Imperforate bowl: centrifugal separators**
- Y10S 494/90 . involving mixture containing one or more gases
- Y10S 494/901 . involving mixture containing oil
- Y10S 494/902 . involving the use of mercury

#### **Compositions: ceramic**

- Y10S 501/00 Compositions: ceramic**
- Y10S 501/90 . Optical glass, e.g. silent on refractive index and/or ABBE number
- Y10S 501/901 . . having R.I. at least 1.8
- Y10S 501/902 . . having ABBE number at least 70
- Y10S 501/903 . . having refractive index less than 1.8 and ABBE number less than 70
- Y10S 501/904 . . Infrared transmitting or absorbing
- Y10S 501/905 . . Ultraviolet transmitting or absorbing
- Y10S 501/906 . . Thorium oxide containing

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

- Y10S 502/00 Catalyst, solid sorbent, or support therefor: product or process of making**
- Y10S 502/50 . Stabilized
- Y10S 502/501 . . for multi-regenerability
- Y10S 502/502 . . Cystallinity
- Y10S 502/503 . . Crush strength
- Y10S 502/504 . . Abrasion resistance

- Y10S 502/506 . Method of making inorganic composition utilizing organic compound, except formic, acetic, or oxalic acid or salt thereof
- Y10S 502/507 . . Synthetic resin, natural resin, polysaccharide, or polypeptide
- Y10S 502/508 . . Sulfur containing organic compound
- Y10S 502/509 . . Nitrogen containing organic compound
- Y10S 502/51 . . . Also containing hydroxyl bonded to carbon, e.g. carboxylic acid
- Y10S 502/511 . . . Two or more nitrogen atoms bonded to different carbon atoms
- Y10S 502/512 . . Carboxylic acid or salt thereof other than formic, acetic, or oxalic acid
- Y10S 502/513 . . Alcohol, phenol, or ether or metallate thereof
- Y10S 502/514 . Process applicable either to preparing or to regenerating or to rehabilitating catalyst or sorbent
- Y10S 502/515 . Specific contaminant removal
- Y10S 502/516 . . Metal contaminant removal
- Y10S 502/517 . . Sulfur or sulfur compound removal
- Y10S 502/518 . . Carbonaceous contaminant
- Y10S 502/519 . Reagent grade, e.g. ultra pure
- Y10S 502/52 . Suppressed side reactions
- Y10S 502/521 . Metal contaminant passivation
- Y10S 502/522 . Radiant or wave energy activated
- Y10S 502/523 . Miscellaneous specific techniques of general applicability
- Y10S 502/524 . Spinel
- Y10S 502/525 . Perovskite
- Y10S 502/526 . Sorbent for fluid storage, other than an alloy for hydrogen storage
- Y10S 502/52711 . Monolith of peculiar structure or physical form, with specified heat exchange capability
- Y10S 502/52712 . Plural layers on a support, each layer having a distinct function
- Y10S 502/52713 . . More than two overlapping layers
- Y10S 502/52714 . Specified support particles of peculiar structure or physical form, e.g. whiskers, fiber pieces
- Y10S 502/52715 . . Layered deposition on support particle, i.e. on a carrier particle
- Y10S 502/52716 . . Specified shape of support particle, e.g. hollow-carrier particle
- Y10S 502/52717 . . Specified cross-section shape or area of elongated support particles, e.g. tape, with area of cross section stated
- Y10S 502/52718 . Monolith with specified gas flow patterns, e.g. turbulent flow monolith
- Y10S 502/52719 . Monolith with specified shape or dimension of cell opening, e.g. honeycomb, rings
- Y10S 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
- Y10S 502/52721 . . Cell openings are quadrilateral or triangular, e.g. pie shaped
- Y10S 502/52722 . . Cell openings are spiral or corrugated
- Y10S 502/52723 . Specified external or internal shape or configuration of catalyst reactor or of sorbent converter
- Y10S 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****Y10S 505/00****Superconductor technology: apparatus, material, process**

- Y10S 505/70 . High TC, above 30 k, superconducting device, article, or structured stock
- Y10S 505/701 .. Coated or thin film device, i.e. active or passive
- Y10S 505/702 ... Josephson junction present
- Y10S 505/703 ... Microelectronic device with superconducting conduction line
- Y10S 505/704 .. Wire, fiber, or cable
- Y10S 505/705 ... Magnetic coil
- Y10S 505/706 .. Contact pads or leads bonded to superconductor
- Y10S 505/725 . Process of making or treating high tc, above 30 k, superconducting shaped material, article, or device
- Y10S 505/726 .. Measuring or testing of superconducting property
- Y10S 505/727 .. using magnetic field
- Y10S 505/728 .. Etching
- Y10S 505/729 .. Growing single crystal, e.g. epitaxy, bulk
- Y10S 505/73 .. Vacuum treating or coating
- Y10S 505/731 ... Sputter coating
- Y10S 505/732 ... Evaporative coating with superconducting material
- Y10S 505/733 .. Rapid solidification, e.g. quenching, gas-atomizing, melt-spinning, roller-quenching
- Y10S 505/734 .. From organometallic precursors, e.g. acetylacetonates
- Y10S 505/735 ... by sol-gel process
- Y10S 505/736 .. From free metal precursors
- Y10S 505/737 .. From inorganic salt precursors, e.g. nitrates
- Y10S 505/738 ... by precipitating
- Y10S 505/739 .. Molding, coating, shaping, or casting of superconducting material
- Y10S 505/74 ... To form wire or fiber
- Y10S 505/741 ... Coating or casting onto a substrate, e.g. screen printing, tape casting
- Y10S 505/742 .. Annealing
- Y10S 505/775 . High tc, above 30 k, superconducting material
- Y10S 505/776 .. Containing transition metal oxide with rare earth or alkaline earth
- Y10S 505/777 ... Lanthanum, e.g. La<sub>2</sub>CuO<sub>4</sub>
- Y10S 505/778 .... Alkaline earth, i.e. Ca, Sr, Ba, Ra
- Y10S 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
- Y10S 505/78 .... Yttrium and barium-, e.g. YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>
- Y10S 505/781 ..... Noble metal, i.e. Ag, Au, Os, Ir, Pt, Ru, Rh, Pd or chromium, manganese, iron, cobalt or nickel
- Y10S 505/782 ... Bismuth-, e.g. BiCaSrCuO
- Y10S 505/783 ... Thallium-, e.g. Tl<sub>2</sub>CaBaCu<sub>3</sub>O<sub>8</sub>

Y10S 505/784	.. Bismuth-, e.g. BaKBiO
Y10S 505/785	.. Composition containing superconducting material and diverse nonsuperconducting material
Y10S 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
Y10S 505/787	. #####
Y10S 505/80	. Material per se process of making same
Y10S 505/801	.. Composition
Y10S 505/802	... Organic
Y10S 505/803	... Magnetic
Y10S 505/804	... Amorphous alloy
Y10S 505/805	... Alloy or metallic
Y10S 505/806	.... Niobium base, Nb
Y10S 505/807	... Powder
Y10S 505/808	... Liquid crystal
Y10S 505/809	... Ceramic
Y10S 505/81	.. Compound
Y10S 505/811	... Organic
Y10S 505/812	.. Stock
Y10S 505/813	... Wire, tape, or film
Y10S 505/814	... Treated metal
Y10S 505/815	.. Process of making per se
Y10S 505/816	... Sputtering, including coating, forming, or etching
Y10S 505/817	.... forming josephson element
Y10S 505/818	... Coating
Y10S 505/819	.... Vapor deposition
Y10S 505/82	.... And etching
Y10S 505/821	.... Wire
Y10S 505/822	... Shaping
Y10S 505/823	... Powder metallurgy
Y10S 505/824	... Battery, thermo or photo-electric
Y10S 505/825	. Apparatus per se, device per se, or process of making or operating same
Y10S 505/826	.. Coating
Y10S 505/827	.. Code converter
Y10S 505/828	.. Modulator, demodulator, or detector
Y10S 505/829	.. Electrical computer or data processing system
Y10S 505/83	.. Electrical pulse counter, pulse divider, or shift register
Y10S 505/831	.. Static information storage system or device
Y10S 505/832	... Josephson junction type
Y10S 505/833	... Thin film type

Y10S 505/834	....	Plural, e.g. memory matrix
Y10S 505/835	.....	Content addressed, i.e. associative memory type
Y10S 505/836	.....	Location addressed, i.e. word organized memory type
Y10S 505/837	.....	Random access, i.e. bit organized memory type
Y10S 505/838	...	Plural, e.g. memory matrix
Y10S 505/839	....	Content addressed, i.e. associative memory type
Y10S 505/84	....	Location addressed, i.e. word organized memory type
Y10S 505/841	....	Random access, i.e. bit organized memory type
Y10S 505/842	..	Measuring and testing
Y10S 505/843	...	Electrical
Y10S 505/844	....	Nuclear magnetic resonance, NMR, system or device
Y10S 505/845	....	Magnetometer
Y10S 505/846	.....	using superconductive quantum interference device, i.e. squid
Y10S 505/847	...	Thermal
Y10S 505/848	..	Radiant energy application
Y10S 505/849	...	Infrared responsive electric signaling
Y10S 505/85	..	Protective circuit
Y10S 505/851	..	Control circuit for electromagnetic device
Y10S 505/852	..	Electric motor control
Y10S 505/853	..	Oscillator
Y10S 505/854	...	with solid-state active element
Y10S 505/855	..	Amplifier
Y10S 505/856	..	Electrical transmission or interconnection system
Y10S 505/857	...	Nonlinear solid-state device system or circuit
Y10S 505/858	....	Digital logic
Y10S 505/859	.....	Function of and, or, nand, nor or not
Y10S 505/86	....	Gating, i.e. switching circuit
Y10S 505/861	.....	with josephson junction
Y10S 505/862	.....	with thin film device
Y10S 505/863	....	Stable state circuit for signal shaping, converting, or generating
Y10S 505/864	.....	with josephson junction
Y10S 505/865	....	with josephson junction
Y10S 505/866	..	Wave transmission line, network, waveguide, or microwave storage device
Y10S 505/867	..	Electric power conversion system
Y10S 505/868	...	Current conversion
Y10S 505/869	..	Power supply, regulation, or energy storage system
Y10S 505/87	...	including transformer or inductor
Y10S 505/871	..	Magnetic lens
Y10S 505/872	..	Magnetic field shield
Y10S 505/873	..	Active solid-state device

Y10S 505/874	...	with josephson junction, e.g. squid
Y10S 505/875	...	Combined with housing and cryogenic fluid cooling
Y10S 505/876	..	Electrical generator or motor structure
Y10S 505/877	...	Rotary dynamoelectric type
Y10S 505/878	....	with cooling
Y10S 505/879	..	Magnet or electromagnet
Y10S 505/88	..	Inductor
Y10S 505/881	..	Resistance device responsive to magnetic field
Y10S 505/882	..	Circuit maker or breaker
Y10S 505/883	..	Housing and mounting assembly with plural diverse electrical components
Y10S 505/884	..	Conductor
Y10S 505/885	...	Cooling, or feeding, circulating, or distributing fluid; in superconductive apparatus
Y10S 505/886	....	Cable
Y10S 505/887	...	Conductor structure
Y10S 505/888	..	Refrigeration
Y10S 505/889	...	Utilizing rare earth material
Y10S 505/89	...	Heat pipe device
Y10S 505/891	...	Magnetic or electrical effect cooling
Y10S 505/892	...	Magnetic device cooling
Y10S 505/893	....	Spectrometer
Y10S 505/894	...	Cyclic cryogenic system, e.g. sterling, gifford-mcmahon
Y10S 505/895	....	with regenerative heat exchanger
Y10S 505/896	...	Special refrigerant compound
Y10S 505/897	...	Cryogenic media transfer
Y10S 505/898	...	Cryogenic envelope
Y10S 505/899	...	Method of cooling
Y10S 505/90	..	Heat exchange
Y10S 505/901	...	Heat pipe
Y10S 505/902	..	Railway, e.g. rapid transit
Y10S 505/903	...	Suspension, e.g. magnetic, electrodynamic
Y10S 505/904	....	Guidance means, i.e. in addition to the track
Y10S 505/905	....	Motor structure
Y10S 505/906	....	Switching device, i.e. electrical not railway stock diverting
Y10S 505/907	....	Support structure
Y10S 505/908	....	Method of operation
Y10S 505/909	..	Power plant
Y10S 505/91	..	Pump
Y10S 505/911	..	Fluid reaction surface, i.e. impeller
Y10S 505/912	..	Metal founding



Y10S 505/913	...	Casting process
Y10S 505/914	....	using magnetic or electric field
Y10S 505/915	....	Making composite product
Y10S 505/916	....	Continuous casting
Y10S 505/917	..	Mechanically manufacturing superconductor
Y10S 505/918	...	with metallurgical heat treating
Y10S 505/919	....	Reactive formation of superconducting intermetallic compound
Y10S 505/92	.....	Utilizing diffusion barrier
Y10S 505/921	.....	Metal working prior to treating
Y10S 505/922	...	Making josephson junction device
Y10S 505/923	...	Making device having semiconductive component, e.g. integrated circuit
Y10S 505/924	...	Making superconductive magnet or coil
Y10S 505/925	...	Making superconductive joint
Y10S 505/926	...	Mechanically joining superconductive members
Y10S 505/927	...	Metallurgically bonding superconductive members
Y10S 505/928	...	Metal deforming
Y10S 505/929	....	by extruding
Y10S 505/93	....	by drawing
Y10S 505/931	..	Classifying, separating, and assorting solids using magnetism
Y10S 505/932	...	Separating diverse particulates
Y10S 505/933	....	in liquid slurry

#### **Earth boring, well treating, and oil field chemistry**

<b>Y10S 507/00</b>	<b>Earth boring, well treating, and oil field chemistry</b>
Y10S 507/901	. Organically modified inorganic solid
Y10S 507/902	. Controlled release agent
Y10S 507/903	. Crosslinked resin or polymer
Y10S 507/904	. Process of making fluids or additives therefor
Y10S 507/905	. Nontoxic composition
Y10S 507/906	. Solid inorganic additive in defined physical form
Y10S 507/907	. Indicating means, e.g. dye, fluorescing agent
Y10S 507/91	. Earth boring fluid devoid of discrete aqueous phase
Y10S 507/92	. Biocidal
Y10S 507/921	. Specified breaker component for emulsion or gel
Y10S 507/922	. Fracture fluid
Y10S 507/923	.. Fracture acidizing
Y10S 507/924	.. with specified propping feature
Y10S 507/925	. Completion or workover fluid
Y10S 507/926	. Packer fluid

- Y10S 507/927 . Well cleaning fluid
- Y10S 507/928 . . Spacing slug or preflush fluid
- Y10S 507/929 . . Cleaning organic contaminant
- Y10S 507/93 . . . Organic contaminant is asphaltic
- Y10S 507/931 . . . Organic contaminant is paraffinic
- Y10S 507/932 . . Cleaning sulfur deposits
- Y10S 507/933 . Acidizing or formation destroying
- Y10S 507/934 . . with inhibitor
- Y10S 507/935 . Enhanced oil recovery
- Y10S 507/936 . . Flooding the formation
- Y10S 507/937 . . . with emulsion
- Y10S 507/938 . . . . with microemulsion
- Y10S 507/939 . Corrosion inhibitor
- Y10S 507/94 . Freeing stuck object from wellbore

#### **Drug, bio-affecting and body treating compositions**

- | <b>Y10S 514/00</b> | <b>Drug, bio-affecting and body treating compositions</b>  |
|--------------------|--|
| Y10S 514/01        | . Ru 486, i.e. Ru 38486, Ru 486-6, mifepristone, mifestone, mifegyne, [11b-[4-[n, n-dimethylamino] phenyl]-17a-[prop-1-ynyl]- 4,9-estradiene-17b-ol-3-one, [11b,17b]11-[4-[dimethylamino]-phenyl]-17-hydroxy-17-[1-propynyl] estro-4,9-dien-3-one] |
| Y10S 514/80        | . LHRH like  |
| Y10S 514/801       | . Collagen, gelatin or derivatives thereof   |
| Y10S 514/802       | . Fibrinopeptides, blood-coagulation factors or derivatives  |
| Y10S 514/803       | . Kinin or derivatives   |
| Y10S 514/804       | . Phecmycin series or derivatives  |
| Y10S 514/805       | . Adrenocorticotrophic hormone or derivatives  |
| Y10S 514/806       | . Somatostatin or derivatives  |
| Y10S 514/807       | . Oxytoxin, vasopressin or derivatives   |
| Y10S 514/808       | . Calcitonin or derivatives  |
| Y10S 514/809       | . Enkephalin or endorphin or derivatives   |
| Y10S 514/81        | . Addiction  |
| Y10S 514/811       | . . Alcohol  |
| Y10S 514/812       | . . Narcotic   |
| Y10S 514/813       | . . Tobacco  |
| Y10S 514/814       | . Anemia   |
| Y10S 514/815       | . . Sickle cell  |
| Y10S 514/816       | . Anesthetic, general  |
| Y10S 514/817       | . Anesthetic, topical  |
| Y10S 514/818       | . Anesthetic, local  |
| Y10S 514/819       | . Antacid, oral  |

Y10S 514/82	.. with antifatulent
Y10S 514/821	. Antiarrhythmic
Y10S 514/822	. Anticoagulation
Y10S 514/823	. Antidote
Y10S 514/824	. Arteriosclerosis
Y10S 514/825	. Arthritis
Y10S 514/826	. Asthma
Y10S 514/827	. Astringent, nonfacial
Y10S 514/828	.. Topical for the skin
Y10S 514/829	. Bite or sting
Y10S 514/83	.. insect
Y10S 514/831	.. Nonpoisonous animal
Y10S 514/832	. Blood substitute
Y10S 514/833	. Blood plasma extender
Y10S 514/834	. Coagulant
Y10S 514/835	. Caries
Y10S 514/836	. Chelate
Y10S 514/837	. Cholera
Y10S 514/838	. Cirrhosis
Y10S 514/839	. Contact lens treatment
Y10S 514/84	.. Chemical sterilizing
Y10S 514/841	. Contraceptive
Y10S 514/842	.. Non-mammal
Y10S 514/843	.. Female mammal
Y10S 514/844	. Cosmetic, facial
Y10S 514/845	.. Liquid make-up
Y10S 514/846	.. Cleansing cream or lotion
Y10S 514/847	.. Facial moisturizer
Y10S 514/848	.. Facial astringent
Y10S 514/849	. Cough and cold preparation
Y10S 514/85	.. Antitussive
Y10S 514/851	. Cystic fibrosis
Y10S 514/852	. Dandruff
Y10S 514/853	. Decongestant
Y10S 514/854	.. Vasoconstrictor
Y10S 514/855	.. Expectorant
Y10S 514/857	. Dermatitis
Y10S 514/858	.. Athlete's foot
Y10S 514/859	.. Acne
Y10S 514/86	.. Cellulitis

Y10S 514/861	.. Eczema
Y10S 514/862	.. Poison ivy, oak or sumac
Y10S 514/863	.. Psoriasis
Y10S 514/864	.. Seborrhea
Y10S 514/865	.. Diaper rash
Y10S 514/866	. Diabetes
Y10S 514/867	. Diarrhea
Y10S 514/868	. Distemper
Y10S 514/869	. Diuretic
Y10S 514/87	. Edema
Y10S 514/871	.. Topical
Y10S 514/872	. Emesis, motion sickness-nausea
Y10S 514/873	. Emollient
Y10S 514/874	. Estrogenic agent, noncontraceptive
Y10S 514/875	. Flea control
Y10S 514/876	.. Collar type
Y10S 514/877	. Gallstone
Y10S 514/878	. Geriatrics
Y10S 514/879	.. Senility
Y10S 514/88	. Hair treatment, application to head or scalp
Y10S 514/881	.. Shampoo
Y10S 514/882	. Hemorrhoid preparation
Y10S 514/883	. Hodgkin's disease
Y10S 514/884	. Hypoglycemia
Y10S 514/885	. Immune response affecting drug
Y10S 514/886	. Inflammation, skin
Y10S 514/887	.. Topical treatment
Y10S 514/888	. Influenza
Y10S 514/889	. Interferon inducer
Y10S 514/89	. Irritant, e.g. tear gas
Y10S 514/891	. Kidney stone
Y10S 514/892	. Laxative
Y10S 514/893	. Liver disorder
Y10S 514/894	.. Hepatitis
Y10S 514/895	. Malaria
Y10S 514/896	. Measles
Y10S 514/897	.. Rubella
Y10S 514/898	. Meningitis
Y10S 514/899	. Menstrual disorder
Y10S 514/8995	. Mouth treatment

Y10S 514/90	.. Treatment or prevention of periodontitis
Y10S 514/901	.. Mouthwash for mouth treatment
Y10S 514/902	.. Treatment or prevention of gingiva
Y10S 514/903	. Multiple sclerosis
Y10S 514/904	. Multiple vitamins
Y10S 514/905	.. with mineral
Y10S 514/906	. Muscle relaxant
Y10S 514/907	. Muscular dystrophy
Y10S 514/908	. Leukemia
Y10S 514/909	. Obesity
Y10S 514/91	.. Anorectic
Y10S 514/911	.. Bulking agent
Y10S 514/912	. Ophthalmic
Y10S 514/913	.. Glaucoma
Y10S 514/914	.. Inflammation
Y10S 514/915	.. Wetting agent
Y10S 514/916	. Pyretic
Y10S 514/917	. Radioactive, anti-
Y10S 514/918	. Repellent
Y10S 514/919	.. Insect
Y10S 514/92	.. Mammal
Y10S 514/921	. Shock
Y10S 514/922	. Side effect reduction by incorporation of a second designated ingredient
Y10S 514/923	. Sleep aid
Y10S 514/924	. Tuberculosis
Y10S 514/925	. Ulcer treatment
Y10S 514/926	.. Duodenal
Y10S 514/927	.. Peptic
Y10S 514/928	.. Topical
Y10S 514/929	. Vasodilator
Y10S 514/93	. Vasoconstrictor, nondecongestant
Y10S 514/931	. Venereal disease
Y10S 514/932	.. Gonorrhea
Y10S 514/933	.. Syphilis
Y10S 514/934	.. Virus
Y10S 514/935	. Uterine motility
Y10S 514/936	. Dms0 containing
Y10S 514/937	. Dispersion or emulsion
Y10S 514/938	.. Oil-water type
Y10S 514/939	... Mineral oil-water type

Y10S 514/94	....	Quick break type
Y10S 514/941	....	Polyoxyalkylated compound containing
Y10S 514/942	....	Organic sulfonate, sulfate or sulfite containing
Y10S 514/943	....	Higher fatty acid or derivative containing
Y10S 514/944	.	Gel
Y10S 514/945	.	Foam
Y10S 514/946	.	Penetrant or absorbent, increases or enhances penetration into subject treated
Y10S 514/947	..	Topical application
Y10S 514/948	.	Solid candy type
Y10S 514/949	.	Naturally derived clay, e.g. bentonite
Y10S 514/95	.	Macromolecular, other than synthetic resins
Y10S 514/951	.	Powders, granules or particles of specified mesh or particle size
Y10S 514/952	..	Wettable
Y10S 514/953	.	Shaped forms adapted for noningestible use other than suppository type, e.g. films, inserts
Y10S 514/954	..	Ocular
Y10S 514/955	...	Biodegradable type
Y10S 514/956	..	Aural or otic, i.e. ear
Y10S 514/957	.	Vapor emitting composition
Y10S 514/958	.	for smoking or inhaling
Y10S 514/959	.	Breathing gases
Y10S 514/96	.	Significant, tablet formulation, e.g. designated excipient, disintegrant, glydent or lubricant
Y10S 514/961	..	Binder therefor
Y10S 514/962	.	Capsule, e.g. gelatin
Y10S 514/963	..	Microcapsule-sustained or differential release
Y10S 514/964	.	Sustained or differential release type
Y10S 514/965	..	Discrete particles in supporting matrix
Y10S 514/966	.	Rectal
Y10S 514/967	.	Vaginal
Y10S 514/968	.	Urethral
Y10S 514/969	.	Ointment or salve base
Y10S 514/97	.	Containing designated ingredient to stabilize an active ingredient
Y10S 514/971	..	Crystallization point depressant or cold stabilizer containing
Y10S 514/972	..	Ultraviolet light stabilizer containing
Y10S 514/973	..	Sulfur compound additive as stabilizer, e.g. sulfites
Y10S 514/974	.	Containing designated ingredient to reduce noxious effects of active ingredient, e.g. taste masking, odor reducing
Y10S 514/975	.	Characterized by the designated surfactant used

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

<b>Y10S 516/00</b>	<b>Colloid systems and wetting agents; subcombinations thereof; processes of</b>
Y10S 516/01	. Wetting, emulsifying, dispersing, or stabilizing agents
Y10S 516/02	.. Organic and inorganic agents containing, except water
Y10S 516/03	.. Organic sulfoxy compound containing
Y10S 516/04	... Protein or carboxylic compound containing
Y10S 516/05	... Organic amine, amide, or n-base containing
Y10S 516/06	.. Protein or carboxylic compound containing
Y10S 516/07	.. Organic amine, amide, or n-base containing
Y10S 516/90	. Liquid crystal material of, or for, colloid system, e.g. g phase
Y10S 516/901	. Substantially pure carbon, e.g. graphite, lamp black, carbon black, fullerenes
Y10S 516/902	. Gelled emulsion
Y10S 516/903	. Two or more gellants
Y10S 516/904	. Fermentation foam breaking or inhibiting
Y10S 516/905	. Agent composition per se for colloid system making or stabilizing, e.g. foaming, emulsifying, dispersing, or gelling
Y10S 516/906	.. The agent contains organic compound containing silicon
Y10S 516/907	.. The agent contains organic compound containing phosphorus, e.g. lecithin
Y10S 516/908	... The compound contains repeating -OCnH2n-, i.e. repeating unsubstituted oxyalkylene
Y10S 516/909	.. The agent contains organic compound containing sulfoxy*
Y10S 516/91	... The compound contains nitrogen, except if present solely as NH4+
Y10S 516/911	.... The compound contains -S[O2]NHH where substitution may be made for the hydrogen
Y10S 516/912	.... The compound contains -C[=O]NHH where substitution may be made for the hydrogen
Y10S 516/913	... The compound contains -C[=O]OH or salt thereof
Y10S 516/914	.. The agent contains organic compound containing nitrogen, except if present solely as NH4+
Y10S 516/915	... The compound contains -C[=O]NHH where substitution may be made for the hydrogen
Y10S 516/916	... The compound contains repeating -OCnH2n-, i.e. repeating unsubstituted oxyalkylene
Y10S 516/917	.. The agent contains organic compound containing oxygen
Y10S 516/918	... The compound contains carboxylic acid ester group
Y10S 516/919	... The compound contains -C[=O]OH or salt thereof
Y10S 516/92	... The compound contains repeating unsubstituted oxyalkylene
Y10S 516/921	. Colloid systems having specified high purity, e.g. ultra-pure silica
Y10S 516/922	. Colloid systems having specified particle size, range, or distribution, e.g. bimodal particle distribution

Y10S 516/923	.. Emulsion
Y10S 516/924	. Significant dispersive or manipulative operation or step in making or stabilizing colloid system
Y10S 516/925	.. Phase inversion
Y10S 516/926	.. Phase change, e.g. melting
Y10S 516/927	.. in situ formation of a colloid system making or stabilizing agent which chemical reaction
Y10S 516/928	.. Mixing combined with non-mixing operation or step, successively or simultaneously, e.g. heating, cooling, ph change, ageing, milling
Y10S 516/929	.. Specified combination of agitation steps, e.g. mixing to make subcombination composition followed by homogenization
Y10S 516/93	... Low shear followed by high shear
Y10S 516/931	... High shear followed by low shear

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

<b>Y10S 521/00</b>	<b>Synthetic resins or natural rubbers -- part of the class 520 series</b>
Y10S 521/901	. Cellular polymer containing a carbodiimide structure
Y10S 521/902	. Cellular polymer containing an isocyanurate structure
Y10S 521/903	. Cellular polymer having reduced smoke or gas generation
Y10S 521/904	. Polyurethane cellular product having high resiliency or cold cure property
Y10S 521/905	. Hydrophilic or hydrophobic cellular product
Y10S 521/906	. Polyurethane cellular product containing unreacted flame-retardant material
Y10S 521/907	. Nonurethane flameproofed cellular product
Y10S 521/908	. Nucleating agent for cellular product
Y10S 521/909	. Blowing-agent moderator, e.g. kickers
Y10S 521/91	. Plural blowing agents for producing nonpolyurethane cellular products
Y10S 521/911	. Surfactant for other than polyurethane cellular product
Y10S 521/912	. Separated reactive materials utilized in preparing cellular product
Y10S 521/913	. Cell forming in absence of external heat
Y10S 521/914	. Polyurethane cellular product formed from a polyol which has been derived from at least two 1,2 epoxides as reactants
Y10S 521/915	. Utilizing electrical or wave energy during cell forming process
Y10S 521/916	. Cellular product having enhanced degradability
Y10S 521/917	. Specialized mixing apparatus utilized in cell forming process
Y10S 521/918	. Physical aftertreatment of a cellular product
Y10S 521/919	. Sintered product
Y10S 521/92	. Cellular product containing a dye or pigment
Y10S 521/921	. Preparing a nonpolyurethane cellular particle from a nonparticulate material



**Synthetic resins or natural rubbers -- part of the class 520 series****Y10S 522/00****Synthetic resins or natural rubbers -- part of the class 520 series**

- Y10S 522/901 . Dark storage stabilizer
- Y10S 522/902 . Air inhibition
- Y10S 522/903 . Removal of residual monomer
- Y10S 522/904 . Monomer or polymer contains initiating group
- Y10S 522/905 . . Benzophenone group
- Y10S 522/906 . Preparing shrinkable material
- Y10S 522/907 . involving precursor of an ultraviolet absorber, e.g. monobenzoate
- Y10S 522/908 . Dental utility
- Y10S 522/909 . Solventless ink
- Y10S 522/91 . Treatment through an external filter or mask, nonphotographic process
- Y10S 522/911 . Specified treatment involving megarad or less
- Y10S 522/912 . . Polymer derived from ethylenic monomers only
- Y10S 522/913 . Numerically specified distinct wavelength
- Y10S 522/914 . . Wavelength of 200 nanometers or less
- Y10S 522/915 . involving inert gas, steam, nitrogen gas, or carbon dioxide

**Synthetic resins or natural rubbers -- part of the class 520 series****Y10S 524/00****Synthetic resins or natural rubbers -- part of the class 520 series**

- Y10S 524/90 . Antigen-antibody
- Y10S 524/901 . Electrodepositable compositions
- Y10S 524/902 . . Electrostatic spray
- Y10S 524/903 . Aerosol compositions
- Y10S 524/904 . Powder coating compositions
- Y10S 524/905 . Etch masking compositions
- Y10S 524/906 . Multipackage compositions
- Y10S 524/907 . Additive of specified shape other than fiber, particle, or powder
- Y10S 524/908 . Composition having specified shape, e.g. rod, stick, or ball, and other than sheet, film, or fiber
- Y10S 524/909 . Reverse osmosis membrane compositions, e.g. desalinization
- Y10S 524/91 . Antistatic compositions
- Y10S 524/911 . . Composition to apply to a substrate to be destaticized
- Y10S 524/912 . . Contains metal, boron, phosphorus, or silicon
- Y10S 524/913 . . Contains nitrogen nonreactant material
- Y10S 524/914 . Floor covering compositions
- Y10S 524/915 . Carpet backing adhesives
- Y10S 524/916 . Hydrogel compositions

Y10S 524/917	. Oil spill recovery compositions
Y10S 524/918	. Wood patching composition
Y10S 524/919	. Metal patching composition, e.g. body solder
Y10S 524/92	. Coilable pipe compositions
Y10S 524/921	. Elastic memory or heat shrinkable compositions
Y10S 524/922	. Flocculating, clarifying, or fining compositions
Y10S 524/923	. Treating or preparing a nonaqueous dispersion or emulsion of a solid polymer or specified intermediate condensation product
Y10S 524/924	. Treating or preparing a nonaqueous solution of a solid polymer or specified intermediate condensation product
Y10S 524/925	. Natural rubber compositions having nonreactive materials, i.e. NRM, other than: carbon, silicon dioxide, glass titanium dioxide, water, hydrocarbon or halohydrocarbon
Y10S 524/926	.. with water as NRM, exemplified
Y10S 524/929	.. Natural rubber broadly disclosed, nonclaimed

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

<b>Y10S 525/00</b>	<b>Synthetic resins or natural rubbers -- part of the class 520 series</b>
Y10S 525/901	. Radial block
Y10S 525/902	. Core-shell
Y10S 525/903	. Interpenetrating network
Y10S 525/904	. Activation of preformed polymer in absence or monomer, for subsequent polymerization thereon, e.g. trapped radicals
Y10S 525/905	. Polyphenylene oxide
Y10S 525/906	. Polysulfone
Y10S 525/907	. Polycarbodiimide
Y10S 525/908	. Polymer containing a hydantoin group
Y10S 525/909	. Polymer having a heterocyclic ring with at least three different elements within the ring
Y10S 525/91	. Polymer from ethylenic monomers only, having terminal unsaturation
Y10S 525/911	. Polymer from ethylenic monomers only, having terminal functional group other than unsaturation
Y10S 525/912	. Polymer from nonethylenic monomers only, having pendant unsaturated group
Y10S 525/913	. Polymer from monomers only having pendant glycidyl group
Y10S 525/914	. Polymer from conjugated diene hydrocarbon or halohydrocarbons having more than 50 per cent 1,2-microstructure
Y10S 525/915	. Polymer from monoethylenic cyclic hydrocarbon
Y10S 525/916	. Polymer from ethylenic monomers only, having cationic group
Y10S 525/917	. Polymer from at least one nonethylenic monomer having cationic group
Y10S 525/918	. Polymer prepared by cationic polymerization
Y10S 525/919	. Ionomer resins, carboxylate salt-containing copolymers
Y10S 525/92	. Polyurethane having terminal ethylenic unsaturation
Y10S 525/921	. Polyester having terminal ethylenic unsaturation other than polyesterurethanes

- Y10S 525/922 . Polyepoxide polymer having been reacted to yield terminal ethylenic unsaturation
- Y10S 525/923 . Aminoplast having terminal ethylenic unsaturation
- Y10S 525/924 . Phenoplast having terminal ethylenic unsaturation
- Y10S 525/925 . Polymer from at least one nonethylenic monomer having terminal ethylenic unsaturation other than polyurethanes, polyesters, polyepoxides, aminoplasts, and phenoplasts
- Y10S 525/926 . Polyamide containing a plurality of oxyalkylene groups
- Y10S 525/927 . Polyamide admixed with oxyalkylene-containing polymer
- Y10S 525/928 . Polyimide or polyamide-acid formed by condensation of a polyamine with a polycarboxylic acid having at least three carboxyl groups or derivatives thereof
- Y10S 525/929 . Polyimide formed by addition of polyamine to an unsaturated bis-imide
- Y10S 525/93 . Reaction product of a polyhydric phenol and epichlorohydrin or diepoxide, having a molecular weight of over 5,000, e.g. phenoxy resins
- Y10S 525/931 . Blend of stated incompatibility
- Y10S 525/932 . Blend of matched optical properties
- Y10S 525/933 . Blend of limited gas permeability
- Y10S 525/934 . Powdered coating composition
- Y10S 525/935 . Matrix admixed with synthetic fiber
- Y10S 525/936 . Encapsulated chemical agent
- Y10S 525/937 . Utility as body contact e.g. implant, contact lens or I.U.D.
- Y10S 525/938 . Polymer degradation
- Y10S 525/939 . Multipackage system
- Y10S 525/94 . Hydrogenation of a polymer
- Y10S 525/941 . Polymer mixture containing block copolymer is mixed or reacted with chemical treating agent
- Y10S 525/942 . Polymer derived from nitrile, conjugated diene and aromatic co-monomers

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

- |                    |   |
|--------------------|---|
| <b>Y10S 526/00</b> | <b>Synthetic resins or natural rubbers -- part of the class 520 series</b>  |
| Y10S 526/901       | . Monomer polymerized in vapor state in presence of transition metal containing catalyst  |
| Y10S 526/902       | . Monomer polymerized in bulk in presence of transition metal containing catalyst   |
| Y10S 526/903       | . Monomer polymerized in presence of transition metal containing catalyst and hydrocarbon additive affecting polymer properties of catalyst activity      |
| Y10S 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 |
| Y10S 526/905       | . Polymerization in presence of transition metal containing catalyst in presence of hydrogen  |
| Y10S 526/906       | . Comminution of transition metal containing catalyst   |
| Y10S 526/907       | . Specified means of reacting components of transition metal catalyst   |
| Y10S 526/908       | . Containing catalyst of specified particle size  |
| Y10S 526/909       | . Polymerization characterized by particle size of product  |

Y10S 526/91	. Suspending agents
Y10S 526/911	. Emulsifying agents
Y10S 526/912	. Reaction medium purification
Y10S 526/913	. Vapor phase polymerization in absence of transition metal containing catalyst
Y10S 526/914	. Polymer degradation
Y10S 526/915	. Redox catalyst
Y10S 526/916	. Interpolymer from at least three ethylenically unsaturated monoolefinic hydrocarbon monomers
Y10S 526/917	. Manipulative processes involving a sulfur-containing treating agent
Y10S 526/918	. Polymerization reactors for addition polymer preparation
Y10S 526/919	. Catalyst injection technique in addition polymerization processes
Y10S 526/92	. Apparatus for use in addition polymerization processes
Y10S 526/921	. Time cycle used in addition polymerization process control
Y10S 526/922	. Polymerization process of ethylenic monomers using manipulative technique
Y10S 526/923	. Ethylenic monomers containing at least one salt group
Y10S 526/93	. Water swellable or hydrophilic
Y10S 526/931	. Pressure sensitive adhesive
Y10S 526/932	. Thickener or dispersant for aqueous system
Y10S 526/933	. Detergent property or lubricant additive
Y10S 526/934	. Electrodeposit, e.g. electrophoretic, xerographic
Y10S 526/935	. Hot melt adhesive
Y10S 526/936	. Physiological use, e.g. pharmaceutical, veterinary, dental
Y10S 526/937	. Optical clarity
Y10S 526/938	. Rubbery property
Y10S 526/939	. Moisture proof or hydrophobic
Y10S 526/94	. High softening temperature, e.g. exposure to boiling water, boilable
Y10S 526/941	. having the transition metal bonded directly to carbon
Y10S 526/942	. Polymerization in the presence of a liquid CO <sub>2</sub> diluent
Y10S 526/943	. Polymerization with metallocene catalysts

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

<b>Y10S 528/00</b>	<b>Synthetic resins or natural rubbers -- part of the class 520 series</b>
Y10S 528/901	. Room temperature curable silicon-containing polymer
Y10S 528/902	. Particulate material prepared from an isocyanate
Y10S 528/903	. Polymerizing or processing an isocyanate under substantially anhydrous conditions
Y10S 528/904	. Isocyanate polymer having stated hydrophilic or hydrophobic property
Y10S 528/905	. Polymer prepared from isocyanate reactant has adhesive property
Y10S 528/906	. Fiber or elastomer prepared from an isocyanate reactant
Y10S 528/92	. Polymers useful for replacing hard animal tissues, e.g. dentures, bones

- Y10S 528/93 . Guayule rubber
- Y10S 528/931 . Physical treatment of natural rubber or natural rubber containing material or chemical treatment of non-rubber portion thereof, e.g. extraction of rubber from milk weed
- Y10S 528/932 .. Protein removal or conversion
- Y10S 528/933 .. Resin removal or conversion
- Y10S 528/934 .. Latex
- Y10S 528/935 ... Preserving or stabilizing
- Y10S 528/936 ... Coagulating
- Y10S 528/937 ... Concentrating, e.g. creaming

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

- Y10S 530/00 Chemistry: natural resins or derivatives; peptides or proteins; lignins or reaction products thereof**
- Y10S 530/80 . Antihypertensive peptides
  - Y10S 530/801 . Peptide sweeteners
  - Y10S 530/802 . Chromogenic or luminescent peptides
  - Y10S 530/806 . Antigenic peptides or proteins
  - Y10S 530/807 . Hapten conjugated with peptide or protein
  - Y10S 530/808 . Materials and products related to genetic engineering or hybrid or fused cell technology, e.g. hybridoma, monoclonal products
  - Y10S 530/809 .. Fused cells, e.g. hybridoma
  - Y10S 530/81 . Carrier - bound or immobilized peptides or proteins and the preparation thereof, e.g. biological cell or cell fragment as carrier
  - Y10S 530/811 .. Peptides or proteins is immobilized on, or in, an inorganic carrier
  - Y10S 530/812 .. Peptides or proteins is immobilized on, or in, an organic carrier
  - Y10S 530/813 ... Carrier is a saccharide
  - Y10S 530/814 .... Cellulose or derivatives thereof
  - Y10S 530/815 ... Carrier is a synthetic polymer
  - Y10S 530/816 .... Attached to the carrier via a bridging agent
  - Y10S 530/817 .... Entrapped within the carrier, e.g. gel, hollow fibre
  - Y10S 530/82 . Proteins from micro-organisms
  - Y10S 530/821 .. Separation of nucleic acid
  - Y10S 530/822 .. Protozoa
  - Y10S 530/823 .. Lower fungi, e.g. mold
  - Y10S 530/824 ... Yeasts
  - Y10S 530/825 .. Bacteria
  - Y10S 530/826 .. Viruses
  - Y10S 530/827 . Proteins from mammals or birds
  - Y10S 530/828 .. Cancer
  - Y10S 530/829 .. Blood

Y10S 530/83	...	Plasma; serum
Y10S 530/831	....	Cohn fractions
Y10S 530/832	..	Milk; colostrum
Y10S 530/833	..	Whey; cheese
Y10S 530/834	..	Urine; urinary system
Y10S 530/835	...	Kidney
Y10S 530/836	..	Mucus; mucous glands; bursa; arthral fluid; spinal fluid
Y10S 530/837	..	Lymph; lymph-glands; thymus
Y10S 530/838	..	Marrow; spleen
Y10S 530/839	..	Nerves; brain
Y10S 530/84	..	Bones; tendons; teeth; cartilage
Y10S 530/841	..	Muscles; heart
Y10S 530/842	..	Skin; hair; nails; sebaceous glands; cerumen
Y10S 530/843	..	Digestive system
Y10S 530/844	...	Stomach; intestine
Y10S 530/845	...	Pancreas
Y10S 530/846	...	Liver
Y10S 530/847	...	Bile
Y10S 530/848	..	Lungs
Y10S 530/849	..	Eyes; vessels; umbilical cord
Y10S 530/85	..	Reproductive organs or embryos
Y10S 530/851	...	Placenta; amniotic fluid
Y10S 530/852	...	Sperm
Y10S 530/853	....	Ovary; eggs; embryos
Y10S 530/854	..	Glands
Y10S 530/855	.	Proteins from animals other than mammals or birds
Y10S 530/856	..	Snakes; venom
Y10S 530/857	..	Fish; fish eggs; shell fish; crustacea
Y10S 530/858	..	insects; venom
Y10S 530/859	.	Waste, waste material, refuse or sludge, e.g. effluents, fecal matter
Y10S 530/86	.	Renin inhibitors
Y10S 530/861	.	involving IgG3, IgG4, IgA, or IgY
Y10S 530/862	.	involving IgE or IgD
Y10S 530/863	.	involving IgM
Y10S 530/864	..	Monoclonal
Y10S 530/865	...	Human
Y10S 530/866	.	involving immunoglobulin or antibody fragment, e.g. fab', fab, fv, fc, heavy chain or light chain
Y10S 530/867	.	involving immunoglobulin or antibody produced via recombinant dna technology

- Y10S 530/868 . involving autoimmunity, allergy, immediate hypersensitivity, delayed hypersensitivity, immunosuppression, or immunotolerance

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

#### **Y10S 534/00      Organic compounds -- part of the class 532-570 series**

- Y10S 534/01 . Mixtures of azo compounds
- Y10S 534/02 . Azo compounds containing chains of eight or more carbon atoms not provided for elsewhere in this class
- Y10S 534/03 . Polymeric azo compounds or azo compounds containing polymeric moieties
- Y10S 534/04 . Azo compounds which are lakes
- Y10S 534/05 . Azo compounds having utility other than as dyes
- Y10S 534/06 . Azo compounds containing -N[O]-N=, -N=S, or -SO<sub>2</sub>N<sub>3</sub> groups
- Y10S 534/07 . Automatic and/or continuous temperature control in the preparation of azo compounds
- Y10S 534/08 . Elimination of groups during the preparation of azo compounds
- Y10S 534/09 . Azo compounds containing ternary sulfonium groups
- Y10S 534/10 . Azo compounds containing formaldehyde reaction product as the coupling component

### **Chemistry of hydrocarbon compounds**

#### **Y10S 585/00      Chemistry of hydrocarbon compounds**

- Y10S 585/8995 . Catalyst and recycle considerations
- Y10S 585/90 . . . Rehabilitation of H acceptor
- Y10S 585/901 . . . with recycle, rehabilitation, or preservation of solvent, diluent, or mass action agent
- Y10S 585/902 . . . . . Recycle of solvent and catalyst
- Y10S 585/903 . . . with hydrocarbon recycle to control synthesis reaction, e.g. by cooling, quenching
- Y10S 585/904 . . . Catalyst rehabilitation by reversion from different compound
- Y10S 585/905 . . . by-product conversion to feed
- Y10S 585/906 . . . Catalyst preservation or manufacture, e.g. activation before use
- Y10S 585/909 . Heat considerations
- Y10S 585/91 . . . Exploiting or conserving heat of quenching, reaction, or regeneration
- Y10S 585/911 . . . introducing, maintaining, or removing heat by atypical procedure
- Y10S 585/912 . . . . . Molten material
- Y10S 585/913 . . . . . Electric
- Y10S 585/914 . . . . . Phase change, e.g. evaporation
- Y10S 585/919 . Apparatus considerations
- Y10S 585/92 . . . using apparatus of recited composition
- Y10S 585/921 . . . using recited apparatus structure
- Y10S 585/922 . . . . . Reactor fluid manipulating device
- Y10S 585/923 . . . . . . . . . . At reactor inlet
- Y10S 585/924 . . . . . Reactor shape or disposition

Y10S 585/925	....	Dimension or proportion
Y10S 585/926	....	Plurality or verticality
Y10S 585/929	.	Special chemical considerations
Y10S 585/93	..	Process including synthesis of nonhydrocarbon intermediate
Y10S 585/931	...	Metal-, Si-, B-, or P-containing, e.g. Grignard
Y10S 585/932	...	Carboxyl-containing, e.g. acid
Y10S 585/933	...	N-containing
Y10S 585/934	...	Chalcogen-containing
Y10S 585/935	...	Halogen-containing
Y10S 585/94	..	Opening of hydrocarbon ring
Y10S 585/941	..	Isotope exchange process
Y10S 585/942	..	Production of carbonium ion or hydrocarbon free-radical
Y10S 585/943	..	Synthesis from methane or inorganic carbon source, e.g. coal
Y10S 585/944	..	Radiation-resistant composition
Y10S 585/945	..	Product is drying oil
Y10S 585/946	..	Product is waxy polymer
Y10S 585/947	..	Terpene manufacture or recovery
Y10S 585/949	.	Miscellaneous considerations
Y10S 585/95	..	Prevention or removal of corrosion or solid deposits
Y10S 585/951	..	Reaction start-up procedure
Y10S 585/952	..	Reaction stopping or retarding
Y10S 585/953	..	Pulsed, sonic, or plasma process
Y10S 585/954	..	Exploiting mass-action phenomenon
Y10S 585/955	..	Specified mixing procedure
Y10S 585/956	..	Condition-responsive control and related procedures in alicyclic synthesis and purification

### **Hazardous or toxic waste destruction or containment**

<b>Y10S 588/00</b>	<b>Hazardous or toxic waste destruction or containment</b>
Y10S 588/90	. Apparatus
Y10S 588/901	. Compositions

### **Surgery**

<b>Y10S 600/00</b>	<b>Surgery</b>
Y10S 600/92	. Method of making endoscopes
Y10S 600/921	. Manipulating image characteristics



**Surgery: kinesitherapy****Y10S 601/00****Surgery: kinesitherapy**

- Y10S 601/01 . with thermal application
- Y10S 601/02 . . with fluid supply
- Y10S 601/03 . with electrical application
- Y10S 601/04 . with magnetic application
- Y10S 601/05 . with light application
- Y10S 601/06 . Artificial respiration conforming to shape of torso
- Y10S 601/07 . . Inflatable
- Y10S 601/08 . Artificial respiration with computer control
- Y10S 601/09 . . including biological sensors
- Y10S 601/10 . Artificial respiration combined with non-artificial respiration therapy
- Y10S 601/11 . Artificial respiration using vibration frequency
- Y10S 601/12 . Vibrator with computer control
- Y10S 601/13 . . including biological sensor
- Y10S 601/14 . Vibrator applied to specific external body area
- Y10S 601/15 . . Head, face, neck, scalp
- Y10S 601/16 . . Genital area
- Y10S 601/17 . . Foot
- Y10S 601/18 . Device with applicator having specific movement controlled by computer
- Y10S 601/19 . . including biological sensor
- Y10S 601/20 . Flexible membrane caused to be moved
- Y10S 601/21 . Kinesitherapy with computer control
- Y10S 601/22 . . Applicator having computer motion control
- Y10S 601/23 . . including biological sensors

**Surgery: splint, brace, or bandage****Y10S 602/00****Surgery: splint, brace, or bandage**

- Y10S 602/90 . Method of making bandage structure
- Y10S 602/901 . Tubular bandage applicators
- Y10S 602/902 . Antisnoring or mouth closing devices
- Y10S 602/903 . Surgical tape
- Y10S 602/904 . Film-forming bandage material

**Surgery****Y10S 604/00****Surgery**

- Y10S 604/90 . Telltale showing entry of blood into body inserted conduit

- Y10S 604/901 . Injection device with thermometer
- Y10S 604/902 . Suction wands
- Y10S 604/903 . Medical container with material agitation means
- Y10S 604/904 . Tampons
- Y10S 604/905 . Aseptic connectors or couplings, e.g. frangible, piercable
- Y10S 604/906 . Artificial insemination

### **Surgery**

#### **Y10S 606/00**

#### **Surgery**

- Y10S 606/90 . Lumbar stabilizer
- Y10S 606/901 . Thoracic stabilizer
- Y10S 606/902 . Cortical plate specifically adapted for a particular bone
  - .. Cranial and facial plate
  - ... Jaw plate
- Y10S 606/904 . Rib or sternum plate
- Y10S 606/905 . Small bone plate
- Y10S 606/906 . Composed of particular material or coated
  - .. Bioabsorbable material
  - .. Bone
  - .. Polymer
  - .. Memory material
  - .. Radiolucent material
  - .. Monolithic
- Y10S 606/907 . Toolkit for installing or removing spinal positioner or stabilizer
- Y10S 606/908 . Toolkit for installing or removing cortical plate
- Y10S 606/909 . Tool for installing or removing orthopedic fastener
- Y10S 606/91 . Toolkit for installing or removing spinal positioner or stabilizer
- Y10S 606/911 . Toolkit for installing or removing cortical plate
- Y10S 606/912 . Tool for installing or removing orthopedic fastener
- Y10S 606/913 . Toolkit for installing or removing spinal positioner or stabilizer
- Y10S 606/914 . Toolkit for installing or removing cortical plate
- Y10S 606/915 . Tool for installing or removing orthopedic fastener
- Y10S 606/916 . Toolkit for installing or removing spinal positioner or stabilizer

### **Surgery: light, thermal, and electrical application**

#### **Y10S 607/00**

#### **Surgery: light, thermal, and electrical application**

- Y10S 607/90 . Substance abuse therapy
- Y10S 607/901 . Cancer detection
- Y10S 607/902 . Fetal monitoring other than heart rate

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

#### **Y10S 623/00**

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

- Y10S 623/90 . Stent for heart valve
- Y10S 623/901 . Method of manufacturing prosthetic device

Y10S 623/902	. Method of implanting
Y10S 623/903	.. Blood vessel
Y10S 623/904	.. Heart
Y10S 623/905	.. Eye
Y10S 623/906	... Corneal
Y10S 623/907	... Method of manipulating parts of intraocular lens structure for implantation
Y10S 623/908	.. Bone
Y10S 623/909	. Method or apparatus for assembling prosthetic
Y10S 623/91	.. Heart
Y10S 623/911	.. Bone
Y10S 623/912	. Method or apparatus for measuring or testing prosthetic
Y10S 623/913	.. Heart
Y10S 623/914	.. Bone
Y10S 623/915	. Method or apparatus for preparing biological material
Y10S 623/916	.. Blood vessel
Y10S 623/917	... Collagen
Y10S 623/918	.. Heart
Y10S 623/919	.. Bone
Y10S 623/92	. Method or apparatus for preparing or treating prosthetic
Y10S 623/921	.. Blood vessel
Y10S 623/922	.. Heart
Y10S 623/923	.. Bone
Y10S 623/924	. Material characteristic
Y10S 623/925	.. Natural
Y10S 623/926	.. Synthetic

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

<b>Y10S 700/00</b>	<b>Data processing: generic control systems or specific applications</b>
Y10S 700/90	. Special robot structural element

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

<b>Y10S 705/00</b>	<b>Data processing: financial, business practice, management, or cost/price determination</b>
Y10S 705/901	. Digital rights management
Y10S 705/902	.. Licensing digital content
Y10S 705/903	... Adding plural layer of rights or limitations by other than the original producer
Y10S 705/904	.. Usage protection of distributed files
Y10S 705/905	... Hardware usage protection
Y10S 705/906	... Requiring a supplemental attachment or input, e.g. Dongle, to open

Y10S 705/907	....	Specific computer id, e.g. serial number, configuration
Y10S 705/908	...	Software or content usage protection
Y10S 705/909	...	Usage charge determination
Y10S 705/91	....	including third party for collecting or distributing payment, e.g. Clearing house
Y10S 705/911	..	Copy protection or prevention
Y10S 705/912	...	having origin or program id

### **Data processing: artificial intelligence**

<b>Y10S 706/00</b>	<b>Data processing: artificial intelligence</b>	
Y10S 706/90	.	Fuzzy logic
Y10S 706/902	.	Application using ai with detail of the ai system
Y10S 706/903	..	Control
Y10S 706/904	...	Manufacturing or machine, e.g. agricultural machinery, machine tool
Y10S 706/905	...	Vehicle or aerospace
Y10S 706/906	...	Process plant
Y10S 706/907	....	Power plant
Y10S 706/908	...	Electronic or computer, internal or network, circuit
Y10S 706/909	...	Communication
Y10S 706/91	...	Elevator
Y10S 706/911	..	Nonmedical diagnostics
Y10S 706/912	...	Manufacturing or machine, e.g. agricultural machinery, machine tool
Y10S 706/913	...	Vehicle or aerospace
Y10S 706/914	...	Process plant
Y10S 706/915	....	Power plant
Y10S 706/916	...	Electronic or computer, internal or network, circuit
Y10S 706/917	...	Communication
Y10S 706/918	...	Elevator
Y10S 706/919	..	Designing, planning, programming, CAD, CASE
Y10S 706/92	...	Simulation
Y10S 706/921	...	Layout, e.g. circuit, construction
Y10S 706/922	...	Computer program preparation
Y10S 706/923	...	Construction
Y10S 706/924	..	Medical
Y10S 706/925	..	Business
Y10S 706/926	...	Time management
Y10S 706/927	..	Education or instruction
Y10S 706/928	..	Earth science
Y10S 706/929	...	Geological, e.g. seismology

Y10S 706/93	...	Environment
Y10S 706/931	....	Weather
Y10S 706/932	..	Mathematics, science, or engineering
Y10S 706/933	..	Law, law enforcement, or government
Y10S 706/934	..	Information retrieval or Information management

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

#### **Y10S 707/00      Data processing: database and file management or data structures**

Y10S 707/912	.	Applications of a database
Y10S 707/913	..	Multimedia
Y10S 707/914	...	Video
Y10S 707/915	...	Image
Y10S 707/916	...	Audio
Y10S 707/917	..	Text
Y10S 707/918	..	Location
Y10S 707/919	...	Geographic
Y10S 707/92	....	Navigation
Y10S 707/921	...	Spatial
Y10S 707/922	..	Communications
Y10S 707/923	..	Intellectual property
Y10S 707/924	...	Patent procedure
Y10S 707/925	....	Drafting an application
Y10S 707/926	....	Drafting drawing or figures
Y10S 707/927	....	Validation
Y10S 707/928	....	Electronic submission
Y10S 707/929	....	Docketing
Y10S 707/93	...	intellectual property analysis
Y10S 707/931	....	Patent comparison
Y10S 707/932	.....	Infringement detection
Y10S 707/933	....	Citation analysis
Y10S 707/934	....	Analyzing patent activity
Y10S 707/935	.....	Company or stock valuation
Y10S 707/936	...	for use in research and development
Y10S 707/937	...	intellectual property searching
Y10S 707/938	...	intellectual property markets
Y10S 707/939	...	Idea solicitation
Y10S 707/94	..	Infrastructure
Y10S 707/941	..	Human sciences
Y10S 707/942	..	Legal/academic

Y10S 707/943	..	News
Y10S 707/944	..	Business related
Y10S 707/945	...	Contract negotiation
Y10S 707/946	...	Real estate
Y10S 707/947	...	Human resources
Y10S 707/948	...	Product or catalog
Y10S 707/949	...	Inventory
Y10S 707/95	..	Financial
Y10S 707/951	..	Calendar or scheduling
Y10S 707/952	..	Malicious software
Y10S 707/953	.	Organization of data
Y10S 707/954	..	Relational
Y10S 707/955	..	Object-oriented
Y10S 707/956	..	Hierarchical
Y10S 707/957	..	Multidimensional
Y10S 707/958	..	Data cubes
Y10S 707/959	..	Network
Y10S 707/96	..	Object-relational
Y10S 707/961	..	Associative
Y10S 707/962	..	Entity-attribute-value
Y10S 707/963	..	Hybrid
Y10S 707/964	.	Database arrangement
Y10S 707/965	..	Standalone
Y10S 707/966	..	Distributed
Y10S 707/967	...	Peer-to-peer
Y10S 707/968	....	Partitioning
Y10S 707/969	.....	Horizontal partitioning
Y10S 707/97	.....	Vertical partitioning
Y10S 707/971	...	Federated
Y10S 707/972	....	Partitioning
Y10S 707/973	.....	Horizontal partitioning
Y10S 707/974	.....	Vertical partitioning
Y10S 707/975	..	Portable database architecture
Y10S 707/99931	.	Database or file accessing
Y10S 707/99932	..	Access augmentation or optimizing
Y10S 707/99933	..	Query processing, i.e. searching
Y10S 707/99934	...	Query formulation, input preparation, or translation
Y10S 707/99935	...	Query augmenting and refining, e.g. inexact access
Y10S 707/99936	...	Pattern matching access
Y10S 707/99937	..	Sorting

Y10S 707/99938	..	Concurrency, e.g. lock management in shared database
Y10S 707/99939	..	Privileged access
Y10S 707/9994	..	Distributed or remote access
Y10S 707/99941	.	Database schema or data structure
Y10S 707/99942	..	Manipulating data structure, e.g. compression, compaction, compilation
Y10S 707/99943	..	Generating database or data structure, e.g. via user interface
Y10S 707/99944	..	Object-oriented database structure
Y10S 707/99945	...	Object-oriented database structure processing
Y10S 707/99946	...	Object-oriented database structure network
Y10S 707/99947	...	Object-oriented database structure reference
Y10S 707/99948	..	Application of database or data structure, e.g. distributed, multimedia, or image
Y10S 707/99951	.	File or database maintenance
Y10S 707/99952	..	Coherency, e.g. same view to multiple users
Y10S 707/99953	...	Recoverability
Y10S 707/99954	...	Version management
Y10S 707/99955	...	Archiving or backup
Y10S 707/99956	..	File allocation
Y10S 707/99957	...	Garbage collection

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

<b>Y10S 715/00</b>	<b>Data processing: presentation processing of document, operator interface processing, and screen saver display processing</b>	
Y10S 715/961	.	Operator interface with visual structure or function dictated by intended use
Y10S 715/962	..	Operator interface for marketing or sales
Y10S 715/963	..	Calendar or scheduling
Y10S 715/964	..	CAD or CAM, e.g. interactive design tools
Y10S 715/965	..	for process control and configuration
Y10S 715/966	...	Computer process, e.g. operation of computer
Y10S 715/967	....	Visual or iconic programming
Y10S 715/968	....	interface for database querying and retrieval
Y10S 715/969	...	Network layout and operation interface
Y10S 715/97	...	Instrumentation and component modelling, e.g. interactive control panel
Y10S 715/9701	..	Amusement or marital aid interface
Y10S 715/971	.	Cooperative decision support systems for group of users
Y10S 715/972	.	Inserted real-time video in operator interface
Y10S 715/973	.	Scroll tool, e.g. window scroll bar
Y10S 715/974	.	Slider control as on-screen object in operator interface
Y10S 715/975	.	Pop-up dialog box for entry
Y10S 715/976	.	3-D Icon

- Y10S 715/977 . Dynamic icon, e.g. animated or live action
- Y10S 715/978 . Audio interaction as part of an operator interface

## **Robots**

### **Y10S 901/00**

- Y10S 901/01 . Mobile robot
- Y10S 901/02 . Arm motion controller
- Y10S 901/03 .. Teaching system
- Y10S 901/04 ... Manual lead through
- Y10S 901/05 ... Machine driven lead through
- Y10S 901/06 .. Communication with another machine
- Y10S 901/07 ... Conveyor
- Y10S 901/08 ... Robot
- Y10S 901/09 .. Closed loop, sensor feedback controls arm movement
- Y10S 901/10 ... Sensor physically contacts and follows work contour
- Y10S 901/11 .. Mechanically actuated present limit
- Y10S 901/12 ... Cam
- Y10S 901/13 ... Limit switch
- Y10S 901/14 . Arm movement, spatial
- Y10S 901/15 .. Jointed arm
- Y10S 901/16 .. Cartesian, three degrees of freedom
- Y10S 901/17 .. Cylindrical
- Y10S 901/18 .. Spherical
- Y10S 901/19 . Drive system for arm
- Y10S 901/20 .. with provision for altering speed of driven element
- Y10S 901/21 .. Flaccid drive element
- Y10S 901/22 .. Fluid motor
- Y10S 901/23 .. Electric motor
- Y10S 901/24 ... Stepper motor
- Y10S 901/25 .. Gearing
- Y10S 901/26 ... including bevel gear
- Y10S 901/27 . Arm part
- Y10S 901/28 .. Joint
- Y10S 901/29 ... Wrist
- Y10S 901/30 . End effector
- Y10S 901/31 .. Gripping jaw
- Y10S 901/32 ... Servo-actuated
- Y10S 901/33 .... Tactile sensor
- Y10S 901/34 .... force feedback



Y10S 901/35	....	Proximity
Y10S 901/36	...	Actuating means
Y10S 901/37	....	Fluid motor
Y10S 901/38	....	Electric motor
Y10S 901/39	...	Jaw structure
Y10S 901/40	..	Vacuum or mangetic
Y10S 901/41	..	Tool
Y10S 901/42	...	Welding
Y10S 901/43	...	Spray painting or coating
Y10S 901/44	..	inspection
Y10S 901/45	..	Compliance
Y10S 901/46	.	Sensing device
Y10S 901/47	..	Optical
Y10S 901/48	.	Counterbalance
Y10S 901/49	.	Protective device
Y10S 901/50	.	Miscellaneous

### **Electronic funds transfer**

<b>Y10S 902/00</b>	<b>Electronic funds transfer</b>
Y10S 902/01	. with electronic means providing security
Y10S 902/02	.. Protects transmitted data, e.g. encryption or decryption
Y10S 902/03	.. Evaluates biometrics
Y10S 902/04	.. Means to read data stored on identifier*
Y10S 902/05	... And to verify identity of user*
Y10S 902/06	.. Image processor, e.g. video camera
Y10S 902/07	.. Means to identify counterfeit money
Y10S 902/08	. Terminal* with means permitting deposit or withdrawal, e.g. ATM
Y10S 902/09	.. with secure receptacle, e.g. safe, depository
Y10S 902/10	... Remote from terminal
Y10S 902/11	... And value discriminator
Y10S 902/12	... Serving as both depository and source for, e.g. note dispensing recycling
Y10S 902/13	... Dispensing, e.g. money cassette
Y10S 902/14	.. with cash dispenser
Y10S 902/15	... including currency feeder
Y10S 902/16	.... Sensitive to erroneous passage of plural bills
Y10S 902/17	.. with particular feeder or counter feature
Y10S 902/18	.. with printer
Y10S 902/19	... And page turner
Y10S 902/20	.. with specific data input means, e.g. keyboard

Y10S 902/21	.. with specific data output means or indicator
Y10S 902/22	. Terminal* registers transaction*, e.g. point of sale terminal*
Y10S 902/23	. for entertainment, amusement, or gambling
Y10S 902/24	. for use with general purpose terminal*, e.g. home banking
Y10S 902/25	. Specific identifier*, e.g. bank card
Y10S 902/26	.. including semiconductor chip, e.g. smart card
Y10S 902/27	.. Magnetically encoded
Y10S 902/28	... Designed to resist counterfeiting
Y10S 902/29	.. Specific process of manufacture
Y10S 902/30	. Support or enclosure, e.g. kiosk
Y10S 902/31	.. Selectively prevents access to terminal*
Y10S 902/32	.. for plurality of terminals*
Y10S 902/33	.. for drive-in installation
Y10S 902/34	.. Collapsible
Y10S 902/35	.. Accommodates user, i.e. walk-in enclosure
Y10S 902/36	. Paper supply, e.g. receipt
Y10S 902/37	. System*
Y10S 902/38	.. Error or fault recovery
Y10S 902/39	.. Particular communication feature
Y10S 902/40	.. Transaction* processing
Y10S 902/41	. Miscellaneous

### **Hybrid electric vehicles, HEVS**

<b>Y10S 903/00</b>	<b>Hybrid electric vehicles, HEVS</b>
Y10S 903/902	. Prime movers comprising electrical and internal combustion motors
Y10S 903/903	.. having energy storing means, e.g. battery, capacitor
Y10S 903/904	... Component specially adapted for hev
Y10S 903/905	.... Combustion engine
Y10S 903/906	.... Motor or generator
Y10S 903/907	.... Electricity storage, e.g. battery, capacitor
Y10S 903/908	.... Fuel cell
Y10S 903/909	.... Gearing
Y10S 903/91	..... Orbital, e.g. planetary gears
Y10S 903/911	..... with two or more gear sets
Y10S 903/912	.... Drive line clutch
Y10S 903/913	..... One way
Y10S 903/914	..... Actuated, e.g. engaged or disengaged by electrical, hydraulic or mechanical means
Y10S 903/915	.... Specific drive or transmission adapted for hev

Y10S 903/916	.....	with plurality of drive axles
Y10S 903/917	.....	with transmission for changing gear ratio
Y10S 903/918	.....	Continuously variable
Y10S 903/919	.....	Stepped shift
Y10S 903/93	...	Conjoint control of different elements
Y10S 903/944	...	Characterized by control of fuel cell
Y10S 903/945	...	Characterized by control of gearing, e.g. control of transmission ratio
Y10S 903/946	...	Characterized by control of driveline clutch
Y10S 903/947	...	Characterized by control of braking, e.g. blending of regeneration, friction braking
Y10S 903/951	...	Assembly or relative location of components
Y10S 903/952	...	Housing details
Y10S 903/96	...	having chargeable mechanical accumulator

### **Peptide or protein sequence**

<b>Y10S 930/00</b>	<b>Peptide or protein sequence</b>
Y10S 930/01	. Peptide or protein sequence
Y10S 930/02	.. Containing modified or unusual amino acid
Y10S 930/021	... Containing D-amino acid
Y10S 930/022	... Containing radioactive atom
Y10S 930/023	... Containing halogen
Y10S 930/024	... Containing sulfur
Y10S 930/025	... Containing heavy metal or salt thereof
Y10S 930/03	.. Linear peptide or protein containing a nonpeptide or abnormal peptide link
Y10S 930/031	... Retro-inverted
Y10S 930/04	.. Angiotensin; related peptides
Y10S 930/05	.. Atrial or brain natriuretic peptide; related peptides
Y10S 930/06	.. Calcitonin; related peptides
Y10S 930/07	.. Corticotropin; related peptides
Y10S 930/08	.. Endorphin or enkephalin; related peptides
Y10S 930/09	.. Erythropoietin; related peptides
Y10S 930/10	.. Factor VIII, AHF; related peptides
Y10S 930/11	.. Gonadotropin; related peptides
Y10S 930/12	.. Growth hormone, growth factor other than t-cell or b-cell growth factor, and growth hormone releasing factor; related peptides
Y10S 930/13	.. Luteinizing hormone-releasing hormone; related peptides
Y10S 930/14	.. Lymphokine; related peptides
Y10S 930/141	... Interleukin
Y10S 930/142	... Interferon
Y10S 930/143	... Lymphotoxin

Y10S 930/144	...	Tumor necrosis factor
Y10S 930/145	...	Colony stimulating factor
Y10S 930/15	..	Oxytocin or vasopressin; related peptides
Y10S 930/16	..	Somatostatin; related peptides
Y10S 930/17	..	Vasoactive intestinal peptides; related peptides
Y10S 930/18	..	Thymus derived hormone or factor; related peptides
Y10S 930/19	..	Antibiotic
Y10S 930/20	..	Bacterial peptide or bacterial protein
Y10S 930/21	..	Parasitic peptide or parasitic protein
Y10S 930/22	..	Viral peptide or viral protein
Y10S 930/221	...	Retrovirus related, or human immunodeficiency virus related, or simian immunodeficiency virus related
Y10S 930/222	...	Foot and mouth disease related
Y10S 930/223	...	Hepatitis related
Y10S 930/224	...	Herpes related
Y10S 930/23	..	Multicellular plant peptide or multicellular plant protein
Y10S 930/24	..	Enzyme or isoenzyme
Y10S 930/25	..	Enzyme inhibitor
Y10S 930/26	..	Containing cys-cys disulfide bridge between nonadjacent cysteine residues
Y10S 930/27	..	Cyclic peptide or cyclic protein
Y10S 930/28	..	Bound to a nonpeptide drug, nonpeptide label, nonpeptide carrier, or a nonpeptide resin
Y10S 930/29	..	Polyamino acid or polypeptide with an uninterrupted series of peptide repeating units
Y10S 930/30	..	Signal or leader sequence
Y10S 930/31	..	Linker sequence
Y10S 930/32	..	Modification to prevent enzymatic degradation

## **Nanotechnology**

<b>Y10S 977/00</b>	<b>Nanotechnology</b>
Y10S 977/70	. Nanostructure
Y10S 977/701	.. Integrated with dissimilar structures on a common substrate
Y10S 977/702	... having biological material component
Y10S 977/703	.... Cellular
Y10S 977/704	.... Nucleic acids, e.g. DNA or RNA
Y10S 977/705	.... Protein or peptide
Y10S 977/706	.... Carbohydrate
Y10S 977/707	... having different types of nanoscale structures or devices on a common substrate
Y10S 977/708	... with distinct switching device

Y10S 977/709	....	including molecular switching device
Y10S 977/71	.....	Biological switching
Y10S 977/711	.....	Nucleic acid switching
Y10S 977/712	...	formed from plural layers of nanosized material, e.g. stacked structures
Y10S 977/713	....	including lipid layer
Y10S 977/714	....	Containing protein
Y10S 977/715	...	On an organic substrate
Y10S 977/716	....	Biological cell surface
Y10S 977/717	....	Lipid substrate
Y10S 977/718	....	Carbohydrate substrate
Y10S 977/719	....	Nucleic acid substrate
Y10S 977/72	...	On an electrically conducting, semi-conducting, or semi-insulating substrate
Y10S 977/721	....	On a silicon substrate
Y10S 977/722	....	On a metal substrate
Y10S 977/723	...	On an electrically insulating substrate
Y10S 977/724	..	Devices having flexible or movable element
Y10S 977/725	...	Nanomotor/nanoactuator
Y10S 977/726	....	using chemical reaction/biological energy, e.g. ATP
Y10S 977/727	...	formed from biological material
Y10S 977/728	....	Nucleic acids, e.g. DNA or RNA
Y10S 977/729	....	From protein or unit thereof, e.g. enzyme or carboxyl group
Y10S 977/73	....	for electrical purposes
Y10S 977/731	...	formed from a single atom, molecule, or cluster
Y10S 977/732	...	Nanocantilever
Y10S 977/733	...	Nanodiaphragm
Y10S 977/734	..	Fullerenes, i.e. graphene-based structures, such as nanohorns, nanococoons, nanoscrolls or fullerene-like structures, e.g. WS <sub>2</sub> or MoS <sub>2</sub> chalcogenide nanotubes, planar C <sub>3</sub> N <sub>4</sub> , etc.
Y10S 977/735	...	Carbon buckyball
Y10S 977/736	....	having atoms interior to the carbon cage
Y10S 977/737	....	having a modified surface
Y10S 977/738	.....	Modified with biological, organic, or hydrocarbon material
Y10S 977/739	.....	Modified with an enzyme
Y10S 977/74	.....	Modified with atoms or molecules bonded to the surface
Y10S 977/741	.....	Modified with dissimilar atom or molecule substituted for carbon atoms of the buckyball, e.g. impurity doping or compositional substitution
Y10S 977/742	...	Carbon nanotubes, CNTs
Y10S 977/743	....	having specified tube end structure, e.g. close-ended shell or open-ended tube
Y10S 977/744	....	having atoms interior to the carbon cage
Y10S 977/745	....	having a modified surface

Y10S 977/746	.....	Modified with biological, organic, or hydrocarbon material
Y10S 977/747	.....	Modified with an enzyme
Y10S 977/748	.....	Modified with atoms or molecules bonded to the surface
Y10S 977/749	.....	Modified with dissimilar atoms or molecules substituted for carbon atoms of the cnt, e.g. impurity doping or compositional substitution
Y10S 977/75	....	Single-walled
Y10S 977/751	.....	with specified chirality and/or electrical conductivity
Y10S 977/752	....	Multi-walled
Y10S 977/753	...	with polymeric or organic binder
Y10S 977/754	..	Dendrimer, i.e. serially branching or "tree-like" structure
Y10S 977/755	..	Nanosheet or quantum barrier/well, i.e. layer structure having one dimension or thickness of 100 nm or less
Y10S 977/756	...	Lipid layer
Y10S 977/757	....	Layer containing protein
Y10S 977/758	...	Mono-atomic layer on delta-doped sheet
Y10S 977/759	...	Quantum well dimensioned for intersubband transitions, e.g. for use in unipolar light emitters or quantum well infrared photodetectors
Y10S 977/76	...	Superlattice with graded effective bandgap, e.g. "chirp-graded" superlattice
Y10S 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-/4 thickness
Y10S 977/762	..	Nanowire or quantum wire, i.e. axially elongated structure having two dimensions of 100 nm or less
Y10S 977/763	...	formed along or from crystallographic terraces or ridges
Y10S 977/764	...	with specified packing density
Y10S 977/765	...	with specified cross-sectional profile, e.g. belt-shaped
Y10S 977/766	...	Bent wire, i.e. having nonlinear longitudinal axis
Y10S 977/767	....	Mesh structure
Y10S 977/768	....	Helical wire
Y10S 977/769	.....	formed with nucleic acid
Y10S 977/77	.....	formed with polyamide polymers
Y10S 977/771	....	Nanoring
Y10S 977/772	.....	formed from circular biomolecule, e.g. DNA, heme, chelators
Y10S 977/773	..	Nanoparticle i.e. structure having three dimensions of 100 nm or less
Y10S 977/774	...	Exhibiting three-dimensional carrier confinement, e.g. quantum dots
Y10S 977/775	...	Nanosized powder or flake, e.g. nanosized catalyst
Y10S 977/776	....	Ceramic powder or flake
Y10S 977/777	....	Metallic powder or flake
Y10S 977/778	..	within specified host or matrix material, e.g. nanocomposite films
Y10S 977/779	...	Possessing nanosized particles, powders, flakes, or clusters other than simple atomic impurity doping

Y10S 977/78	...	Possessing fully enclosed nanosized voids or physical holes
Y10S 977/781	...	Possessing nonosized surface openings that extend partially into or completely through the host material
Y10S 977/782	...	Possessing nanosized physical convexity, ridge, or protrusion extending upward from the host's surface
Y10S 977/783	...	Organic host/matrix, e.g. lipid
Y10S 977/784	...	Electrically conducting, semi-conducting, or semi-insulating host material
Y10S 977/785	...	Electrically insulating host material
Y10S 977/786	...	Fluidic host/matrix containing nanomaterials
Y10S 977/787	....	Viscous fluid host/matrix containing nanomaterials
Y10S 977/788	..	Of specified organic or carbon-based composition
Y10S 977/789	...	in array format
Y10S 977/79	....	with heterogeneous nanostructures
Y10S 977/791	.....	Molecular array
Y10S 977/792	.....	Nucleic acid array, e.g. human genome array
Y10S 977/793	.....	Protein array
Y10S 977/794	.....	Chemical library array
Y10S 977/795	...	Composed of biological material
Y10S 977/796	....	for electrical or electronic purpose
Y10S 977/797	...	Lipid particle
Y10S 977/798	....	having internalized material
Y10S 977/799	.....	Containing biological material
Y10S 977/80	.....	Nucleic acid, e.g. DNA or RNA
Y10S 977/801	.....	Drug
Y10S 977/802	...	Virus-based particle
Y10S 977/803	....	Containing biological material in its interior
Y10S 977/804	.....	Containing nucleic acid
Y10S 977/805	.....	Containing drug
Y10S 977/806	....	with exterior chemical attachment
Y10S 977/807	.....	Exterior attachment for detection
Y10S 977/808	.....	Exterior attachment for targeting, e.g. drug targeting
Y10S 977/809	...	Organic film on silicon
Y10S 977/81	..	Of specified metal or metal alloy composition
Y10S 977/811	..	Of specified metal oxide composition, e.g. conducting or semiconducting compositions such as ITO, ZnOx
Y10S 977/812	...	Perovskites and superconducting composition, e.g. BaxSr1-xTiO3
Y10S 977/813	..	Of specified inorganic semiconductor composition, e.g. periodic table group IV-VI compositions
Y10S 977/814	...	Group IV based elements and compounds, e.g. CxSiyGez, porous silicon
Y10S 977/815	...	Group III-V based compounds, e.g. AlaGablncNxPyAsz
Y10S 977/816	....	III-N based compounds, e.g. AlxGayInzN

Y10S 977/817	.....	High-indium-content InGaN pooling or clusters
Y10S 977/818	....	III-P based compounds, e.g. Al <sub>x</sub> Ga <sub>1-x</sub> In <sub>2</sub> P
Y10S 977/819	....	III-As based compounds, e.g. Al <sub>x</sub> Ga <sub>1-x</sub> In <sub>2</sub> As
Y10S 977/82	....	III-Sb based compounds, e.g. Al <sub>x</sub> Ga <sub>1-x</sub> In <sub>2</sub> Sb
Y10S 977/821	....	Mixed group V compounds, e.g. III-N <sub>x</sub> Py
Y10S 977/822	....	Boron-containing compounds
Y10S 977/823	....	Tl-containing or Bi-containing compounds
Y10S 977/824	...	Group II-VI nonoxide compounds, e.g. Cd <sub>x</sub> Mn <sub>1-x</sub> Te
Y10S 977/825	...	Heterojunction formed between semiconductor materials that differ in that they belong to different periodic table groups
Y10S 977/826	...	Nonstoichiometric semiconductor compounds, e.g. III <sub>x</sub> V <sub>y</sub> ; x does not equal y
Y10S 977/827	..	formed from hybrid organic/inorganic semiconductor compositions
Y10S 977/828	...	Biological composition interconnected with inorganic material
Y10S 977/829	...	Organic or biological core coated with inorganic shell
Y10S 977/83	...	Inorganic core or cluster coated with organic or biological shell
Y10S 977/831	..	Of specified ceramic or electrically insulating compositions
Y10S 977/832	..	having specified property, e.g. lattice-constant, thermal expansion coefficient
Y10S 977/833	...	Thermal property of nanomaterial, e.g. thermally conducting/insulating or exhibiting peltier or seebeck effect
Y10S 977/834	...	Optical properties of nanomaterial, e.g. specified transparency, opacity, or index of refraction
Y10S 977/835	...	Chemical or nuclear reactivity/stability of composition or compound forming nanomaterial
Y10S 977/836	....	having biological reactive capability
Y10S 977/837	...	Piezoelectric property of nanomaterial
Y10S 977/838	...	Magnetic property of nanomaterial
Y10S 977/839	.	Mathematical algorithms, e.g. computer software, specifically adapted for modeling configurations or properties of nanostructure
Y10S 977/84	.	Manufacture, treatment, or detection of nanostructure
Y10S 977/841	..	Environmental containment or disposal of nanostructure material
Y10S 977/842	..	for carbon nanotubes or fullerenes
Y10S 977/843	...	Gas phase catalytic growth, i.e. chemical vapor deposition
Y10S 977/844	...	Growth by vaporization or dissociation of carbon source using a high-energy heat source, e.g. electric arc, laser, plasma, e-beam
Y10S 977/845	...	Purification or separation of fullerenes or nanotubes
Y10S 977/846	...	internal modifications, e.g. filling, endohedral modifications
Y10S 977/847	...	Surface modifications, e.g. functionalization, coating
Y10S 977/848	...	Tube end modifications, e.g. capping, joining, splicing
Y10S 977/849	..	with scanning probe
Y10S 977/85	...	Scanning probe control process
Y10S 977/851	....	Particular movement or positioning of scanning tip
Y10S 977/852	...	for detection of specific nanostructure sample or nanostructure-related property



Y10S 977/853	....	Biological sample
Y10S 977/854	....	Semiconductor sample
Y10S 977/855	...	for manufacture of nanostructure
Y10S 977/856	....	including etching/cutting
Y10S 977/857	....	including coating
Y10S 977/858	....	including positioning/mounting nanostructure
Y10S 977/859	....	including substrate treatment
Y10S 977/86	...	Scanning probe structure
Y10S 977/861	....	Scanning tunneling probe
Y10S 977/862	....	Near-field probe
Y10S 977/863	....	Atomic force probe
Y10S 977/864	....	Electrostatic force probe
Y10S 977/865	....	Magnetic force probe
Y10S 977/866	....	Scanning capacitance probe
Y10S 977/867	....	Scanning thermal probe
Y10S 977/868	....	with optical means
Y10S 977/869	.....	Optical microscope
Y10S 977/87	.....	Optical lever arm for reflecting light
Y10S 977/871	....	with environmental regulation means
Y10S 977/872	....	Positioner
Y10S 977/873	....	Tip holder
Y10S 977/874	....	Probe tip array
Y10S 977/875	....	with tip detail
Y10S 977/876	.....	Nanotube tip
Y10S 977/877	.....	Chemically functionalized
Y10S 977/878	.....	Shape/taper
Y10S 977/879	.....	Material
Y10S 977/88	..	with arrangement, process, or apparatus for testing
Y10S 977/881	...	Microscopy or spectroscopy, e.g. sem, tem
Y10S 977/882	..	Assembling of separate components, e.g. by attaching
Y10S 977/883	...	Fluidic self-assembly, FSA
Y10S 977/884	...	Assembled via biorecognition entity
Y10S 977/885	....	Via nucleic acid hybridization
Y10S 977/886	....	Via protein recognition
Y10S 977/887	..	Nanoimprint lithography, i.e. nanostamp
Y10S 977/888	..	Shaping or removal of materials, e.g. etching
Y10S 977/889	...	by laser ablation
Y10S 977/89	..	Deposition of materials, e.g. coating, cvd, or ald
Y10S 977/891	...	Vapor phase deposition
Y10S 977/892	...	Liquid phase deposition

Y10S 977/893	...	Deposition in pores, molding, with subsequent removal of mold
Y10S 977/894	..	having step or means utilizing biological growth
Y10S 977/895	..	having step or means utilizing chemical property
Y10S 977/896	...	Chemical synthesis, e.g. chemical bonding or breaking
Y10S 977/897	....	Polymerization
Y10S 977/898	....	Enzymatic
Y10S 977/899	....	Electrolytic
Y10S 977/90	..	having step or means utilizing mechanical or thermal property, e.g. pressure, heat
Y10S 977/901	..	having step or means utilizing electromagnetic property, e.g. optical, x-ray, electron beam
Y10S 977/902	.	Specified use of nanostructure
Y10S 977/903	..	for conversion, containment, or destruction of hazardous material
Y10S 977/904	..	for medical, immunological, body treatment, or diagnosis
Y10S 977/905	...	Specially adapted for travel through blood circulatory system
Y10S 977/906	...	Drug delivery
Y10S 977/907	....	Liposome
Y10S 977/908	...	Mechanical repair performed/surgical
Y10S 977/909	....	Obstruction removal
Y10S 977/91	....	Strengthening cell or tissue
Y10S 977/911	....	Cancer cell destruction
Y10S 977/912	....	Cancer cell repair
Y10S 977/913	....	Stem cell therapy implantation
Y10S 977/914	...	Protein engineering
Y10S 977/915	...	Therapeutic or pharmaceutical composition
Y10S 977/916	....	Gene therapy
Y10S 977/917	....	Vaccine
Y10S 977/918	...	Immunological
Y10S 977/919	...	Dental
Y10S 977/92	...	Detection of biochemical
Y10S 977/921	....	Of toxic chemical
Y10S 977/922	....	Of explosive material
Y10S 977/923	...	Cell culture
Y10S 977/924	...	using nanostructure as support of dna analysis
Y10S 977/925	...	Bioelectrical
Y10S 977/926	...	Topical chemical, e.g. cosmetic or sunscreen
Y10S 977/927	...	Diagnostic contrast agent
Y10S 977/928	....	X-ray agent
Y10S 977/929	....	Ultrasound contrast agent
Y10S 977/93	....	MRI contrast agent
Y10S 977/931	...	Medical device coating

Y10S 977/932	..	for electronic or optoelectronic application
Y10S 977/933	...	Spintronics or quantum computing
Y10S 977/934	....	Giant magnetoresistance, GMR
Y10S 977/935	....	Spin dependent tunnel, SDT, junction, e.g. tunneling magnetoresistance, TMR
Y10S 977/936	...	in a transistor or 3-terminal device
Y10S 977/937	....	Single electron transistor
Y10S 977/938	....	Field effect transistors, FETS, with nanowire- or nanotube-channel region
Y10S 977/939	...	Electron emitter, e.g. spindt emitter tip coated with nanoparticles
Y10S 977/94	...	in a logic circuit
Y10S 977/941	....	including dna logic element
Y10S 977/942	....	including protein logic element
Y10S 977/943	...	Information storage or retrieval using nanostructure
Y10S 977/944	....	Biochemical memory
Y10S 977/945	.....	Protein memory
Y10S 977/946	.....	Nucleic acid memory
Y10S 977/947	....	with scanning probe instrument
Y10S 977/948	...	Energy storage/generating using nanostructure, e.g. fuel cell, battery
Y10S 977/949	...	Radiation emitter using nanostructure
Y10S 977/95	....	Electromagnetic energy
Y10S 977/951	.....	Laser
Y10S 977/952	...	Display
Y10S 977/953	...	Detector using nanostructure
Y10S 977/954	....	Of radiant energy
Y10S 977/955	....	Of thermal property
Y10S 977/956	....	Of mechanical property
Y10S 977/957	....	Of chemical property or presence
Y10S 977/958	.....	Of biomolecule property
Y10S 977/959	.....	Of disease state
Y10S 977/96	....	Of magnetic property
Y10S 977/961	..	for textile or fabric treatment
Y10S 977/962	..	for carrying or transporting
Y10S 977/963	.	Miscellaneous