

**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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Compound tools**

**Y10S 7/00 Compound tools**

- Y10S 7/90 . . . . . Resilient pivot
- Y10S 7/901 . . . . . Magnetic feature

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

**Y10S 8/00 Bleaching and dyeing; fluid treatment and chemical modification of textiles and fibers**

- 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

**Guidance heading: Boot and shoe making**

**Y10S 12/00 Boot and shoe making**

- Y10S 12/01 . Lasting machines, fluid-actuated
- Y10S 12/02 . Lasting machines, dash pots
- Y10S 12/03 . Jigging

**Guidance heading: 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

**Guidance heading:** **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

**Guidance heading: Buckles, buttons, clasps**

**Y10S 24/00 Buckles, buttons, clasps**

- 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

**Guidance heading: Textiles: cloth finishing**

**Y10S 26/00 Textiles: cloth finishing**

- Y10S 26/01 . Edge and/or uncurling; stiffening

**Guidance heading: Undertaking**

**Y10S 27/00 Undertaking**

- Y10S 27/01 . Coffin lid fasteners

**Guidance heading: Metal working**

**Y10S 29/00 Metal working**

- 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

**Guidance heading: Cutlery**

**Y10S 30/00 Cutlery**

- 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

**Guidance heading: Geometrical instruments**

**Y10S 33/00 Geometrical instruments**

- 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

**Guidance heading:** Drying and gas or vapor contact with solids

**Y10S 34/00 Drying and gas or vapor contact with solids**

Y10S 34/01 . Absorbents and adsorbents

**Guidance heading:** Boots, shoes, and leggings

**Y10S 36/00 Boots, shoes, and leggings**

Y10S 36/01 . Cement

Y10S 36/02 . Plastic

**Guidance heading:** Excavating

**Y10S 37/00 Excavating**

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

**Guidance heading:** 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

**Guidance heading:** 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

**Guidance heading:** Firearms

**Y10S 42/00** Firearms

Y10S 42/01 . Release trigger

**Guidance heading:** Fishing, trapping, and vermin destroying

**Y10S 43/00 Fishing, trapping, and vermin destroying**

Y10S 43/90 . Liquid insecticide sprayer

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading:    Movable or removable closures****Y10S 49/00                      Movable or removable closures**

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

**Guidance heading:    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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Harvesters**

- Y10S 56/00            Harvesters**
- Y10S 56/01 . Crusher
- Y10S 56/02 . Methods
- Y10S 56/03 . Ground effect
- Y10S 56/04 . Friction drive
- Y10S 56/05 . with material distribution
- Y10S 56/06 . Clutches and gearing
- Y10S 56/07 . Remote control implement
- Y10S 56/08 . Air gathering
- Y10S 56/09 . Detachable implement
- Y10S 56/10 . Uneven terrain compensation
- Y10S 56/11 . Hydraulic
- Y10S 56/12 . Brush
- Y10S 56/13 . Bermuda grass cutters
- Y10S 56/14 . Hitch
- Y10S 56/15 . Condition responsive



- Y10S 56/16 . Movable cutter without stationary cutter bar
- Y10S 56/17 . Cutter details
- Y10S 56/18 . Handles
- Y10S 56/19 . Beaters and wipers
- Y10S 56/20 . Blades, reels and guards
- Y10S 56/21 . Raking and windrowing
- Y10S 56/22 . Underslung yieldable rotary mower
- Y10S 56/23 . Dehydrating
- Y10S 56/24 . Harvester guards

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

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

- Y10S 57/901 . Antistatic
- Y10S 57/902 . Reinforcing or tire cords
- Y10S 57/903 . Sewing threads
- Y10S 57/904 . Flame retardant
- Y10S 57/905 . Bicomponent material
- Y10S 57/906 . Line appliances
- Y10S 57/907 . Foamed and/or fibrillated
- Y10S 57/908 . Jet interlaced or intermingled

**Guidance heading: Chain, staple, and horseshoe making**

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

- Y10S 59/90 . Plastic
- Y10S 59/901 . Cross pin

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Jewelry**

**Y10S 63/00 Jewelry**

- Y10S 63/01 . Adhesive jewelry
- Y10S 63/02 . Perfumed jewelry
- Y10S 63/03 . Plastic jewelry
- Y10S 63/90 . Magnetic connector

**Guidance heading: Glass manufacturing**

**Y10S 65/00 Glass manufacturing**

- 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 chalcogenides
- 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

**Guidance heading: Textiles: fluid treating apparatus**

**Y10S 68/00 Textiles: fluid treating apparatus**

- 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

**Guidance heading: Locks**

**Y10S 70/00 Locks**

- Y10S 70/01 . Tumbler registerable with aperture
- Y10S 70/02 . Tumbler, lateral locking
- Y10S 70/05 . Magazine cylinder and pin tumblers
- Y10S 70/06 . Bolt dogged in retracted position
- Y10S 70/07 . Sleeve with embeddable tooth

Y10S 70/08	. Closure-operator lock
Y10S 70/09	. Pawl and ratchet lock
Y10S 70/10	. Thermally controlled
Y10S 70/11	. Garage door lock
Y10S 70/12	. Extension link with detachable link fastener
Y10S 70/13	. Socket-key lock
Y10S 70/14	. insertable permanent key
Y10S 70/15	. Plug with tumbler retainer
Y10S 70/16	. Jail door lock
Y10S 70/17	. Check-key lock
Y10S 70/18	. Revolving door lock
Y10S 70/19	. Showcase lock
Y10S 70/20	. Push to project and lock bolt, key-released
Y10S 70/21	. Permutation, rotatable-segemental tumbler bolts
Y10S 70/22	. Segmental tumbler
Y10S 70/23	. Segmental slot in tumbler cooperating with a pin
Y10S 70/24	. Curved slot in tumbler
Y10S 70/25	. Peripheral pin on tumbler
Y10S 70/26	. Locking lug on bolt
Y10S 70/27	. Manually locked, key-released
Y10S 70/28	. Fence tumbler
Y10S 70/29	. Wedge tumbler
Y10S 70/30	. Switch lock
Y10S 70/31	. Handle assembly, lock-controlled
Y10S 70/32	. Positioners
Y10S 70/33	. Starting point

Y10S 70/34	. Cover fasteners
Y10S 70/35	. Double-ended lock cylinder
Y10S 70/36	. Spring-returned lock cylinder
Y10S 70/37	. Cylinder lock, multiple tumbler arrangements
Y10S 70/38	. 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

**Guidance heading:** Chemistry: fertilizers

**Y10S 71/00** Chemistry: fertilizers

- 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

**Guidance heading: Metal deforming**

**Y10S 72/00 Metal deforming**

- 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

**Guidance heading: Measuring and testing****Y10S 73/00 Measuring and testing**

- 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

**Guidance heading: Machine element or mechanism****Y10S 74/00 Machine element or mechanism**

- 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

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

**Y10S 75/00** **Specialized metallurgical processes, compositions for use therein, consolidated metal powder compositions, and loose metal particulate mixtures**

- 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

**Guidance heading:** **Metal tools and implements, making**

**Y10S 76/00** **Metal tools and implements, making**

- 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

**Guidance heading: Tools**

**Y10S 81/00 Tools**

- 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

**Guidance heading: Turning**

**Y10S 82/00                      Turning**

- Y10S 82/90                      . Lathe thermal regulation
- Y10S 82/901                   . Chip removal
- Y10S 82/902                   . Oil grooving device
- Y10S 82/903                   . Balancing and centering
- Y10S 82/904                   . Vibrating method or tool
- Y10S 82/905                   . Transmission accessory or control

**Guidance heading: Cutting****Y10S 83/00                      Cutting**

- Y10S 83/01                      . Safety devices
- Y10S 83/02                      . I-shaped beam cutter
- Y10S 83/03                      . Inflatable tube
- Y10S 83/901                   . Apparel collar making
- Y10S 83/902                   . Attachments for other types of machine
- Y10S 83/903                   . Battery grid trimming
- Y10S 83/904                   . Book index cutting
- Y10S 83/905                   . Buttonhole making
- Y10S 83/906                   . Chip making
- Y10S 83/907                   . Coiled wire cutting
- Y10S 83/908                   . Comb, rake, or other toothed article making
- Y10S 83/909                   . Cutting strand extending from or lying on strand or package support
- Y10S 83/91                   . Embroidery trimming or cutting
- Y10S 83/911                   . Envelope blank forming
- Y10S 83/912                   . Envelope openers
- Y10S 83/913                   . Filament to staple fiber cutting

Y10S 83/914	. Flash trimming
Y10S 83/915	. Fur cutting
Y10S 83/9153	. Ice cutting machines
Y10S 83/9155	. Microtome
Y10S 83/916	. Nibbling
Y10S 83/917	. Notching
Y10S 83/918	. Pinking
Y10S 83/919	. Sample taking
Y10S 83/92	. Shingle making
Y10S 83/921	. 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

**Guidance heading: 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

**Guidance heading: Motors: expansible chamber type**

**Y10S 91/00 Motors: expansible chamber type**

Y10S 91/01	. Digital
Y10S 91/02	. Exhaust throttled motor control
Y10S 91/03	. Large area valve
Y10S 91/04	. Magnets

**Guidance heading: Expansible chamber devices**

**Y10S 92/00 Expansible chamber devices**

Y10S 92/01	. Bearing on piston or cylinder
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Y10S 92/02 . Fluid bearing

Y10S 92/03 . Flexible drive

Y10S 92/04 . Lost motion

**Guidance heading: Gas separation: processes**

**Y10S 95/00 Gas separation: processes**

Y10S 95/90 . Solid sorbent

Y10S 95/901 . . Activated carbon

Y10S 95/902 . . Molecular sieve

Y10S 95/903 . . . Carbon

**Guidance heading: Foods and beverages: apparatus**

**Y10S 99/00 Foods and beverages: apparatus**

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

**Guidance heading: Presses**

**Y10S 100/00 Presses**

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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Railways**

**Y10S 104/00 Railways**

- Y10S 104/01 . Toy railroad

**Guidance heading: 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

**Guidance heading:** 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

**Guidance heading:** 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

**Guidance heading: Sewing**

**Y10S 112/00 Sewing**

- Y10S 112/01 . Suction thread cutting
- Y10S 112/02 . Air work handling
- Y10S 112/03 . Pneumatic

**Guidance heading: Signals and indicators**

**Y10S 116/00 Signals and indicators**

- 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

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

**Y10S 117/00** **Single-crystal, oriented-crystal, and epitaxy growth processes; non-coating apparatus therefor**

- 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

**Guidance heading: Coating apparatus**

**Y10S 118/00 Coating apparatus**

- 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

**Guidance heading: Animal husbandry**

**Y10S 119/00 Animal husbandry**

- 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

**Guidance heading: Liquid heaters and vaporizers**

**Y10S 122/00 Liquid heaters and vaporizers**

- 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

**Guidance heading: Internal-combustion engines**

**Y10S 123/00 Internal-combustion engines**

- 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

**Guidance heading: Mechanical guns and projectors**

**Y10S 124/00 Mechanical guns and projectors**

- Y10S 124/90 . Limb tip rotatable element structure

**Guidance heading: Stone working**

**Y10S 125/00**      **Stone working**

Y10S 125/901      .    forming piezoelectric crystals

**Guidance heading:**   **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

**Guidance heading:**   **Sugar, starch, and carbohydrates****Y10S 127/00**      **Sugar, starch, and carbohydrates**

Y10S 127/01      .    Caramel

**Guidance heading:**   **Surgery****Y10S 128/00**      **Surgery**

Y10S 128/01      .    Motorized syringe

Y10S 128/03      .    Heart-lung

Y10S 128/06      .    Intravenous injection support

Y10S 128/07      .    Servo-systems

Y10S 128/08      .    Collagen

Y10S 128/10      .    Fluid amplifiers

Y10S 128/12      .    Pressure infusion

Y10S 128/13	. Infusion monitoring
Y10S 128/14	. Polytetrafluoroethylene, i.e. PTFE
Y10S 128/15	. Hook and loop type fastener
Y10S 128/18	. Heat shrinkable film
Y10S 128/19	. Clavicle splint
Y10S 128/20	. Inflatable splint
Y10S 128/21	. Silicone
Y10S 128/22	. Blood coagulation
Y10S 128/23	. Cervical collars
Y10S 128/24	. Medical-surgical bags
Y10S 128/25	. Artificial sphincters and devices for controlling urinary incontinence
Y10S 128/26	. Cannula supporters
Y10S 128/27	. Cryogenic
Y10S 128/90	. Blood pressure recorder
Y10S 128/901	. Suppression of noise in electric signal
Y10S 128/902	. Biological signal amplifier
Y10S 128/903	. Radio telemetry
Y10S 128/904	. Telephone telemetry
Y10S 128/905	. Feedback to patient of biological signal other than brain electric signal
Y10S 128/906	. Multiphasic diagnostic clinic
Y10S 128/907	. Acupuncture
Y10S 128/908	. Patient protection from electric shock
Y10S 128/909	. Breathing apparatus with means for preventing patient cross-contamination
Y10S 128/91	. Anesthesia gas scavenging system
Y10S 128/911	. Unilimb inhalation-exhalation breathing tubes
Y10S 128/912	. Connections and closures for tubes delivering fluids to or from the body

- Y10S 128/913 . Breathable liquids
- Y10S 128/914 . Rebreathing apparatus for increasing carbon dioxide content in inhaled gas
- Y10S 128/915 . 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

**Guidance heading: Tobacco**

**Y10S 131/00 Tobacco**

- 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

**Guidance heading: Toilet**

**Y10S 132/00 Toilet**

- Y10S 132/901 . Comb tooth shape
- Y10S 132/902 . Liquid treating forms and mandrels

**Guidance heading: Cleaning and liquid contact with solids****Y10S 134/00 Cleaning and liquid contact with solids**

- Y10S 134/90 . Paint roller
- Y10S 134/901 . Contact lens
- Y10S 134/902 . Semiconductor wafer

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading:** Textiles: weaving

**Y10S 139/00** Textiles: weaving

- Y10S 139/01 . Bias fabric digest

**Guidance heading:** 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

**Guidance heading:** 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

**Guidance heading: Explosive and thermic compositions or charges**

**Y10S 149/00 Explosive and thermic compositions or charges**

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

**Guidance heading: Purses, wallets, and protective covers**

**Y10S 150/00 Purses, wallets, and protective covers**

- Y10S 150/90 . Means biasing mouth in open or closed configuration
- Y10S 150/901 . insulating flaccid cover

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Concentrating evaporators**

<b>Y10S 159/00</b>	<b>Concentrating evaporators</b>
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

**Guidance heading:** Flexible or portable closure, partition, or panel

**Y10S 160/00** Flexible or portable closure, partition, or panel

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

**Guidance heading: Paper making and fiber liberation**

**Y10S 162/00 Paper making and fiber liberation**

- 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

**Guidance heading: Metal founding**

**Y10S 164/00 Metal founding**

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

**Guidance heading: 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

**Guidance heading: Wells**

**Y10S 166/00 Wells**

- Y10S 166/901 . Wells in frozen terrain
- Y10S 166/902 . for inhibiting corrosion or coating

**Guidance heading: Farriery**

**Y10S 168/00 Farriery**

Y10S 168/01 . Nonmetallic

Y10S 168/02 . Traction shape

**Guidance heading: Fire extinguishers**

**Y10S 169/00 Fire extinguishers**

Y10S 169/01 . Floats

Y10S 169/02 . Ablative fluids

Y10S 169/03 . Trip mechanisms

**Guidance heading: Unearthing plants or buried objects**

**Y10S 171/00 Unearthing plants or buried objects**

Y10S 171/01 . Peanut digger

**Guidance heading: Earth working**

**Y10S 172/00 Earth working**

Y10S 172/90 . Plant thinners

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Weighing scales**

**Y10S 177/00 Weighing scales**

- 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

**Guidance heading: Motor vehicles**

**Y10S 180/00 Motor vehicles**

- 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

**Guidance heading: Acoustics**

**Y10S 181/00 Acoustics**

- 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Brakes**

**Y10S 188/00 Brakes**

Y10S 188/01 . Panic braking

Y10S 188/02 . Hill holder

Y10S 188/03 . Progressive braking

**Guidance heading: 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

**Guidance heading: Clutches and power-stop control**

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



Y10S 192/01 . Removable members

Y10S 192/02 . Universal joint

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading:** 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

**Guidance heading: Distillation: apparatus**

**Y10S 202/00 Distillation: apparatus**

- Y10S 202/01 . Scale problems digest

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading:** **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

**Guidance heading:** **Special receptacle or package**

**Y10S 206/00** **Special receptacle or package**

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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Liquid purification or separation**

**Y10S 210/00 Liquid purification or separation**

- 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

**Guidance heading: Supports: racks**

**Y10S 211/00 Supports: racks**

- Y10S 211/01 . Magnetic article holder

**Guidance heading: Traversing hoists**

**Y10S 212/00 Traversing hoists**

- Y10S 212/901 . Drolley-type cranes

**Guidance heading: Bottles and jars**

**Y10S 215/00 Bottles and jars**

- 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

**Guidance heading: Receptacles**

**Y10S 220/00 Receptacles**

- 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

**Guidance heading: Article dispensing**

**Y10S 221/00 Article dispensing**

- Y10S 221/01 . Storage retrieval

**Guidance heading: Dispensing**

**Y10S 222/00 Dispensing**

- Y10S 222/01 . Xerography

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Elongated-member-driving apparatus**

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

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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Selective cutting, e.g. punching**

**Y10S 234/00 Selective cutting, e.g. punching**

- Y10S 234/01 . Fluid and photoelectric control

**Guidance heading: Registers**

**Y10S 235/00 Registers**

- 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

**Guidance heading: Automatic temperature and humidity regulation**

**Y10S 236/00      Automatic temperature and humidity regulation**

- 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

**Guidance heading:    Heating systems****Y10S 237/00      Heating systems**

- Y10S 237/01      .    Inert gas

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

Y10S 238/01 . Track structure assembled by gluing

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading:    Winding, tensioning, or guiding****Y10S 242/00      Winding, tensioning, or guiding**

- 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

**Guidance heading: Aeronautics and astronautics**

**Y10S 244/00 Aeronautics and astronautics**

- 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

**Guidance heading: Railway switches and signals**

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

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

**Guidance heading: 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.

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Compositions**

**Y10S 252/00 Compositions**

- Y10S 252/18 . Activation-platinum
- Y10S 252/95 . Doping agent source material
- Y10S 252/951 . . for vapor transport
- Y10S 252/96 . Surface flaw detecting compositions
- Y10S 252/961 . Stress or contact indicators
- Y10S 252/962 . Temperature or thermal history
- Y10S 252/963 . Humidity or moisture indicators
- Y10S 252/964 . Leak detection
- Y10S 252/965 . Retrospective product identification, e.g. tags and tracers

**Guidance heading: Implements or apparatus for applying pushing or pulling force**

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

- Y10S 254/01 . Jack bases
- Y10S 254/02 . Electric screw jacks
- Y10S 254/03 . Jack handles
- Y10S 254/04 . Object engaging heads for jacks
- Y10S 254/05 . Means for depressing foot brake when adjusting same
- Y10S 254/06 . Flexible rack and pinion
- Y10S 254/07 . Printers form trucks

- Y10S 254/08 . Screw jacks, plural section nut
- Y10S 254/09 . Vehicle-operated lift platform
- Y10S 254/10 . Tire or rim expanding or contracting devices
- Y10S 254/11 . Cable drum feed for presser
- Y10S 254/12 . Pawls
- Y10S 254/13 . Vehicle retarding drums
- Y10S 254/14 . Rope attachment
- Y10S 254/15 . Motor clamps
- Y10S 254/16 . Automobile transmission jack
- Y10S 254/90 . Cable pulling drum having wave motion responsive actuator for operating drive or rotation retarding means
- Y10S 254/901 . Antifriction means for cable pulling drum
- Y10S 254/902 . Either drum, pulley wheel element, or cable constructed from specific material
- Y10S 254/903 . Yieldable, constant engagement, friction coupling, e.g. slip clutch in drive for cable pulling drum

**Guidance heading: Fences**

**Y10S 256/00 Fences**

- Y10S 256/01 . Compensator, spring
- Y10S 256/02 . Adjustable or falling fence
- Y10S 256/03 . Wire clamp
- Y10S 256/04 . Board fastener
- Y10S 256/05 . Metal post
- Y10S 256/06 . Building construction guard rail

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

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

- Y10S 257/90 . MOSFET type gate sidewall insulating spacer

- Y10S 257/901 . MOSFET substrate bias
- Y10S 257/902 . FET with metal source region
- Y10S 257/903 . FET configuration adapted for use as static memory cell
- Y10S 257/904 . . with passive components,, e.g. polysilicon resistors
- Y10S 257/905 . Plural dram cells share common contact or common trench
- Y10S 257/906 . Dram with capacitor electrodes used for accessing, e.g. bit line is capacitor plate
- Y10S 257/907 . Folded bit line dram configuration
- Y10S 257/908 . Dram configuration with transistors and capacitors of pairs of cells along a straight line between adjacent bit lines
- Y10S 257/909 . Macrocell arrays, e.g. gate arrays with variable size or configuration of cells
- Y10S 257/91 . Diode arrays, e.g. diode read-only memory array
- Y10S 257/911 . Light sensitive array adapted to be scanned by electron beam, e.g. vidicon device
- Y10S 257/912 . Charge transfer device using both electron and hole signal carriers
- Y10S 257/913 . with means to absorb or localize unwanted impurities or defects from semiconductors, e.g. heavy metal gettering
- Y10S 257/914 . Polysilicon containing oxygen, nitrogen, or carbon, e.g. sipos
- Y10S 257/915 . with titanium nitride portion or region
- Y10S 257/916 . Narrow band gap semiconductor material,  $<<1\text{ev}$
- Y10S 257/917 . Plural dopants of same conductivity type in same region
- Y10S 257/918 . Light emitting regenerative switching device, e.g. light emitting scr arrays, circuitry
- Y10S 257/919 . Elements of similar construction connected in series or parallel to average out manufacturing variations in characteristics
- Y10S 257/92 . Conductor layers on different levels connected in parallel, e.g. to reduce resistance
- Y10S 257/921 . Radiation hardened semiconductor device
- Y10S 257/922 . 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

**Guidance heading: 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

**Guidance heading: Gas and liquid contact apparatus**

**Y10S 261/00 Gas and liquid contact apparatus**

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 choke 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

**Guidance heading: Plastic and nonmetallic article shaping or treating: processes**

**Y10S 264/00 Plastic and nonmetallic article shaping or treating: processes**

- 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

**Guidance heading: 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

**Guidance heading: Spring devices**

**Y10S 267/00 Spring devices**

- Y10S 267/01 . Constant height
- Y10S 267/02 . Constant height, self-pumping
- Y10S 267/03 . Spring buckle

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading:** Seal for a joint or juncture

**Y10S 277/00** Seal for a joint or juncture

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

**Guidance heading: Chucks or sockets**

**Y10S 279/00 Chucks or sockets**

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

**Guidance heading: 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

**Guidance heading: Books, strips, and leaves**

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

- Y10S 281/01 . Magnet

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Closure fasteners**

**Y10S 292/00 Closure fasteners**

- 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

**Guidance heading: Vehicle fenders**

**Y10S 293/00 Vehicle fenders**

Y10S 293/01 . Pusher attachment for tractors

Y10S 293/06 . Magnetic fender securing devices

**Guidance heading: Handling: hand and hoist-line implements**

**Y10S 294/00 Handling: hand and hoist-line implements**

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

**Guidance heading: Land vehicles: bodies and tops**

**Y10S 296/00 Land vehicles: bodies and tops**

Y10S 296/90 . Material

Y10S 296/90101 . . Plastic

**Guidance heading: Chairs and seats**

**Y10S 297/00 Chairs and seats**

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

**Guidance heading: Fluid-pressure and analogous brake systems**

**Y10S 303/00 Fluid-pressure and analogous brake systems**

- 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

**Guidance heading: Wheel substitutes for land vehicles**

**Y10S 305/00 Wheel substitutes for land vehicles**



Y10S 305/90 . Master link

**Guidance heading:** Electrical transmission or interconnection systems

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

Y10S 307/01 . Data transmitted over power lines

**Guidance heading:** 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

**Guidance heading:** Supports: cabinet structure

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

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

Y10S 312/902 . Carrying case

**Guidance heading:** Electric lamp and discharge devices

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

Y10S 313/07 . Bombardment induced conductivity

**Guidance heading:** 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

**Guidance heading:** Electricity: motive power systems

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

- Y10S 318/02 . Windshield wiper controls

**Guidance heading:** 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Electricity: measuring and testing**

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

Y10S 324/80 . Divining rods

**Guidance heading: 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

**Guidance heading: Inductor devices**

**Y10S 336/00 Inductor devices**

Y10S 336/01 . Superconductive

Y10S 336/02 . Separable

**Guidance heading: Electrical resistors**

**Y10S 338/00 Electrical resistors**

Y10S 338/01 . Worm gear drive

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Incremental printing of symbolic information**

**Y10S 347/00 Incremental printing of symbolic information**

- Y10S 347/90 . Data processing for electrostatic recording

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading:** 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

**Guidance heading:** Illumination

**Y10S 362/00            Illumination**

- Y10S 362/80 . Light emitting diode
- Y10S 362/801 . Bedroom lighting, e.g. modular combinations
- Y10S 362/802 . Position or condition responsive switch
- Y10S 362/803 . Photo safe lamp
- Y10S 362/804 . Surgical or dental spotlight
- Y10S 362/805 . Horticultural
- Y10S 362/806 . Ornamental or decorative
- Y10S 362/807 . . Star
- Y10S 362/808 . . Figure
- Y10S 362/809 . . . Terrestrial globe
- Y10S 362/81 . . Imitation candle
- Y10S 362/811 . . Psychedelic lighting
- Y10S 362/812 . Signs

**Guidance heading:** Agitating

**Y10S 366/00****Agitating**

- Y10S 366/01 . Micromixers: continuous laminar flow with laminar boundary mixing in the linear direction parallel to the fluid propagation with or without conduit geometry influences from the pathway
- Y10S 366/02 . Micromixers: segmented laminar flow with boundary mixing orthogonal to the direction of fluid propagation with or without geometry influences from the pathway
- Y10S 366/03 . Micromixers: variable geometry from the pathway influences mixing/agitation of non-laminar fluid flow
- Y10S 366/04 . Micromixers: with application of energy to influence mixing/agitation, e.g. magnetic, electrical, e-m radiation, particulate radiation, or ultrasound
- Y10S 366/60 . Bodine vibrator
- Y10S 366/601 . Motor control
- Y10S 366/602 . Amalgam mixer, e.g. dental filling
- Y10S 366/603 . Animal food mixer
- Y10S 366/604 . Lather maker
- Y10S 366/605 . Paint mixer
- Y10S 366/606 . Tractor-mounted mortar mixing chamber
- Y10S 366/607 . Chain-type stirrer
- Y10S 366/608 . Stirrer in mixing chamber side wall

**Guidance heading:** **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

**Guidance heading: 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. router, 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

**Guidance heading: 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

**Guidance heading:** 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

**Guidance heading:** 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

**Guidance heading: 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

**Guidance heading: Flexible bags****Y10S 383/00 Flexible bags**

- 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

**Guidance heading: Bearings**

**Y10S 384/00 Bearings**

- 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

**Guidance heading: Optical waveguides**

**Y10S 385/00 Optical waveguides**

- Y10S 385/90 . Solar collector or transmitter
- Y10S 385/901 . Illuminating or display apparatus
- Y10S 385/902 . Nonbundle fiberscope devices

**Guidance heading: Electricity: motor control systems**

**Y10S 388/00 Electricity: motor control systems**

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	... Thyratron 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

**Guidance heading: Typewriting machines**

**Y10S 400/00 Typewriting machines**

- 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

**Guidance heading: Coating implements with material supply**

**Y10S 401/00 Coating implements with material supply**

- Y10S 401/01 . Readily detachable lipstick cartridges
- Y10S 401/02 . Remote recording of writing
- Y10S 401/03 . Point shape

**Guidance heading: Binder device releasably engaging aperture or notch of sheet**

**Y10S 402/00 Binder device releasably engaging aperture or notch of sheet**

- 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

**Guidance heading: 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

**Guidance heading: 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 penumatic 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

**Guidance heading: 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

**Guidance heading: 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	..	Wedge slotted bolt
Y10S 411/955	.	Locked bolt head 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	....	Bolt head 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 bolt head 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 bolt head, 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

**Guidance heading: 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

**Guidance heading: 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
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	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

**Guidance heading: Rotary kinetic fluid motors or pumps**

**Y10S 415/00 Rotary kinetic fluid motors or pumps**

- 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

**Guidance heading: Fluid reaction surfaces, i.e. impellers****Y10S 416/00 Fluid reaction surfaces, i.e. impellers**

- 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

**Guidance heading: Pumps****Y10S 417/00 Pumps**

- 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

**Guidance heading: Rotary expansible chamber devices****Y10S 418/00 Rotary expansible chamber devices**

- Y10S 418/01 . Non-working fluid separation

**Guidance heading: Alloys or metallic compositions****Y10S 420/00 Alloys or metallic compositions**

- Y10S 420/90 . Hydrogen storage
- Y10S 420/901 . Superconductive
- Y10S 420/902 . Superplastic
- Y10S 420/903 . Semiconductive

**Guidance heading: Chemical apparatus and process disinfecting, deodorizing, preserving, or sterilizing****Y10S 422/00 Chemical apparatus and process disinfecting, deodorizing, preserving, or sterilizing**

- 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

**Guidance heading: Chemistry of inorganic compounds****Y10S 423/00 Chemistry of inorganic compounds**

- 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

**Guidance heading: Drug, bio-affecting and body treating compositions**

**Y10S 424/00 Drug, bio-affecting and body treating compositions**

- 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

**Guidance heading: Plastic article or earthenware shaping or treating: apparatus**

**Y10S 425/00 Plastic article or earthenware shaping or treating: apparatus**

- 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	.. Earthenware 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

**Guidance heading: Food or edible material: processes, compositions, and products**

**Y10S 426/00 Food or edible material: processes, compositions, and products**

- 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



**Guidance heading: Coating processes****Y10S 427/00 Coating processes**

- 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

**Guidance heading: 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

**Guidance heading: Chemistry: electrical current producing apparatus, product, and process**

**Y10S 429/00 Chemistry: electrical current producing apparatus, product, and process**

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

**Guidance heading: Radiation imagery chemistry: process, composition, or product thereof**

**Y10S 430/00 Radiation imagery chemistry: process, composition, or product thereof**

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

**Guidance heading: Heating**

**Y10S 432/00 Heating**

- Y10S 432/50 . Tobacco barns

**Guidance heading: Chemistry: molecular biology and microbiology**

**Y10S 435/00 Chemistry: molecular biology and microbiology**

- 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	....	Streptomyces aureus
Y10S 435/891	....	Streptomyces bikiniensis
Y10S 435/892	....	Streptomyces candidus
Y10S 435/893	....	Streptomyces chartreusis
Y10S 435/894	....	Streptomyces diastatochromogenes
Y10S 435/895	....	Streptomyces filipinensis
Y10S 435/896	....	Streptomyces fradiae
Y10S 435/897	....	Streptomyces griseus
Y10S 435/898	....	Streptomyces hygroscopicus
Y10S 435/899	....	Streptomyces lavendulae
Y10S 435/90	....	Streptomyces lincolnensis
Y10S 435/901	....	Streptomyces noursei
Y10S 435/902	....	Streptomyces olivaceus
Y10S 435/903	....	Streptomyces platensis
Y10S 435/904	....	Streptomyces rimosus
Y10S 435/905	....	Streptomyces sparogenes
Y10S 435/906	....	Streptomyces venezuelae
Y10S 435/907	...	Streptosporangium
Y10S 435/908	...	Streptovorticillium
Y10S 435/909	...	Vibrio
Y10S 435/91	...	Xanthomonas
Y10S 435/911	..	using fungi
Y10S 435/912	...	Absidia
Y10S 435/913	...	Aspergillus
Y10S 435/914	....	Aspergillus awamori



Y10S 435/915	....	Aspergillus flavus
Y10S 435/916	....	Aspergillus fumigatus
Y10S 435/917	....	Aspergillus niger
Y10S 435/918	....	Aspergillus oryzae
Y10S 435/919	....	Aspergillus ustus
Y10S 435/92	....	Aspergillus wenti
Y10S 435/921	...	Candida
Y10S 435/922	....	Candida albicans
Y10S 435/923	....	Candida lipolytica
Y10S 435/924	....	Candida tropicalis
Y10S 435/925	...	Cephalosporium
Y10S 435/926	....	Cephalosporium acremonium
Y10S 435/927	....	Cephalosporium caerulens
Y10S 435/928	....	Cephalosporium crotocinigenium
Y10S 435/929	...	Fusarium
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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Amusement devices: toys**

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

- Y10S 446/901 . Detachably adhesive

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Friction gear transmission systems or components**

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

Y10S 476/90 . Overload release

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading:** 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Earth boring, well treating, and oil field chemistry**

**Y10S 507/00 Earth boring, well treating, and oil field chemistry**

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

**Guidance heading: Drug, bio-affecting and body treating compositions**

**Y10S 514/00 Drug, bio-affecting and body treating compositions**

- 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] estra-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	. Dmsso 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

**Guidance heading:** Colloid systems and wetting agents; subcombinations thereof; processes of

**Y10S 516/00** Colloid systems and wetting agents; subcombinations thereof; processes of

- 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

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

**Y10S 521/00 Synthetic resins or natural rubbers -- part of the class 520 series**

- 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

**Guidance heading: 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

**Guidance heading: 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

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

**Y10S 525/00 Synthetic resins or natural rubbers -- part of the class 520 series**

- 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

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

**Y10S 526/00 Synthetic resins or natural rubbers -- part of the class 520 series**

- 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

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

**Y10S 528/00 Synthetic resins or natural rubbers -- part of the class 520 series**

- 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

**Guidance heading:** 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: Hazardous or toxic waste destruction or containment**

**Y10S 588/00 Hazardous or toxic waste destruction or containment**

Y10S 588/90	.	Apparatus
Y10S 588/901	.	Compositions

**Guidance heading: Surgery**

**Y10S 600/00 Surgery**

Y10S 600/92	.	Method of making endoscopes
Y10S 600/921	.	Manipulating image characteristics

**Guidance heading: Surgery: kinesitherapy**

**Y10S 601/00 Surgery: kinesitherapy**

Y10S 601/01	.	with thermal application
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- 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

**Guidance heading: 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

**Guidance heading: 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

**Guidance heading: 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
  - Y10S 606/903 . . Cranial and facial plate
  - Y10S 606/904 . . . Jaw plate
  - Y10S 606/905 . . Rib or sternum plate
  - Y10S 606/906 . . Small bone plate
- Y10S 606/907 . Composed of particular material or coated
  - Y10S 606/908 . . Bioabsorbable material
  - Y10S 606/909 . . Bone
  - Y10S 606/91 . . Polymer
  - Y10S 606/911 . . Memory material
  - Y10S 606/912 . . Radiolucent material
  - Y10S 606/913 . . Monolithic
- Y10S 606/914 . Toolkit for installing or removing spinal positioner or stabilizer
- Y10S 606/915 . Toolkit for installing or removing cortical plate
- Y10S 606/916 . Tool for installing or removing orthopedic fastener

**Guidance heading: 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

**Guidance heading: 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

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

**Y10S 700/00** Data processing: generic control systems or specific applications

Y10S 700/90 . Special robot structural element

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

**Y10S 705/00** Data processing: financial, business practice, management, or cost/price determination

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

**Guidance heading:** Data processing: artificial intelligence

**Y10S 706/00** Data processing: artificial intelligence

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

**Guidance heading:** 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

**Guidance heading:** Data processing: presentation processing of document, operator interface



**processing, and screen saver display processing****Y10S 715/00****Data processing: presentation processing of document, operator interface processing, and screen saver display processing**

- 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

**Guidance heading: Robots****Y10S 901/00****Robots**

- 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 magnetic
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

**Guidance heading: Electronic funds transfer**

**Y10S 902/00 Electronic funds transfer**

- 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

**Guidance heading: Hybrid electric vehicles, HEVS**

**Y10S 903/00 Hybrid electric vehicles, HEVS**

- 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

**Guidance heading: Peptide or protein sequence**

**Y10S 930/00 Peptide or protein sequence**

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

**Guidance heading: Nanotechnology**

**Y10S 977/00 Nanotechnology**

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 nanosized 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. AlxGayIn2P
Y10S 977/819	....	III-As based compounds, e.g. AlxGayInzAs
Y10S 977/82	....	III-Sb based compounds, e.g. AlxGayInzSb
Y10S 977/821	....	Mixed group V compounds, e.g. III-NxPy
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. CdxMnyTe
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. IllxV <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