

**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**

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

**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**

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

Y10S 91/04 . Magnets

**Guidance heading:** **Expansible chamber devices**

**Y10S 92/00                    Expansible chamber devices**

Y10S 92/01 . Bearing on piston or cylinder

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 substrate
- 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**

<b>Y10S 119/00</b>	<b>Animal husbandry</b>
Y10S 119/01	. Milk digest
Y10S 119/90	. Feed saving device

- Y10S 119/901 . Chain feeder
- Y10S 119/902 . Feed agitator
- Y10S 119/903 . Poultry roost preventing device
- Y10S 119/904 . Stanchion sure stop
- Y10S 119/905 . Breaking or training method
- Y10S 119/906 . Animal counting
- Y10S 119/907 . Harness
- Y10S 119/908 . Electrical animal control or handling

**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-amorphous 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	. I <sup>2</sup> L 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 165/200      ...      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 165/210      ....      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 165/220      ...      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**

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

Y10S 177/09 . Scale bearings

Y10S 177/10 . Telemetric

Y10S 177/11 . Vibrators

**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
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**Guidance heading: Traversing hoists**



**Y10S 212/00**      **Traversing hoists**

Y10S 212/901      .    Dolley-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
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**Guidance heading:** **Railways: surface track**

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

Y10S 238/01	. Track structure assembled by gluing
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**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,  $\ll 1\text{eV}$
- 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
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**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. brouter, bus extender
- Y10S 370/912 . Packet communications
- Y10S 370/913 .. Wireless or radio
- Y10S 370/914 . Rate converter
- Y10S 370/915 . Time division cellular radio systems
- Y10S 370/916 . Multiplexer/demultiplexer

**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 ... Thyatron or ignitron
- Y10S 388/915 .. Sawtooth or ramp waveform generator
- Y10S 388/916 .. Threshold circuit
- Y10S 388/917 .. Thyristor or scr
- Y10S 388/918 ... Trigger by unijunction transistor
- Y10S 388/919 ... Triggered by resistor or capacitor
- Y10S 388/92 ... Chopper
- Y10S 388/921 .. Timer or time delay means
- Y10S 388/922 .. Tuned or resonant circuit
  
- Y10S 388/923 . Specific feedback condition or device
- Y10S 388/924 .. Centrifugal device, e.g. governor
- Y10S 388/925 ... including contacts which open and close motor circuit
- Y10S 388/926 ... Which controls a vacuum tube or solid-state device in motor circuit
- Y10S 388/927 ... Which varies resistance of motor circuit
- Y10S 388/928 ... Which controls position of commutator brushes
- Y10S 388/9281 .. Counter or back emf, CEMF

- Y10S 388/929 . . Fluid/granular material flow rate, pressure, or level
- Y10S 388/93 . . Load or torque
- Y10S 388/931 . . . Electric generator or magnet as auxiliary load
- Y10S 388/932 . . . with reverse torque, e.g. braking
- Y10S 388/933 . . Radiant energy responsive device
- Y10S 388/934 . . Thermal condition
  
- Y10S 388/935 . Specific application:
- Y10S 388/936 . . Food preparation equipment
- Y10S 388/937 . . Hand tool

**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 bolthead or nut
Y10S 411/956	.. Automatic base clutch
Y10S 411/957	... Biting tooth
Y10S 411/958	.... Coiled washer
Y10S 411/959	.... Bolt- or nut-carried
Y10S 411/96	... Friction
Y10S 411/961	... Pawl and ratchet
Y10S 411/962	.... Bolthead or nut-carried pawl
Y10S 411/963	.... Yielding interlocking washer
Y10S 411/964	... Detent
Y10S 411/965	.. with retainer
Y10S 411/966	... Multiple, i.e. gang type
Y10S 411/967	... Deformable bolthead or nut
Y10S 411/968	... Deformable base member
Y10S 411/969	... Deformable retainer
Y10S 411/97	... Resilient retainer
Y10S 411/971	... And side lock
Y10S 411/972	.. Distorted
Y10S 411/973	.. Gravity bolthead, nut or washer
Y10S 411/974	.. Side lock
Y10S 411/975	... Rotatable washer
Y10S 411/976	.... Bent tongue-locked
Y10S 411/977	.... Pawl-locked
Y10S 411/978	... Pawl and ratchet
Y10S 411/979	... Resilient
Y10S 411/98	.... Automatic
Y10S 411/981	..... Coiled washer
Y10S 411/982	..... Spring-tongued washer plate
Y10S 411/983	... Inelastic tongue
Y10S 411/984	... Longitudinal
Y10S 411/985	.... Bolthead- or nut-held
Y10S 411/986	..... Reversed bolthead or nut
Y10S 411/987	.... Side pin
Y10S 411/988	.... Spike-held locking plate
Y10S 411/989	.... Swinging
Y10S 411/99	.... Washer tongue-held
Y10S 411/991	... Transversely sliding
Y10S 411/992	.... Key, plate, or bar
Y10S 411/993	..... Bolthead- or nut-held

- Y10S 411/994 . . . . . Sliding washer
- Y10S 411/995 . . . Transversely swinging
- Y10S 411/996 . . Transverse base-locking key
- Y10S 411/997 . . Longitudinal fastener
- Y10S 411/998 . with positive bolt lock
- Y10S 411/999 . with retainer, e.g. tether

**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 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**

<b>Y10S 424/00</b>	<b>Drug, bio-affecting and body treating compositions</b>
Y10S 424/01	. Aerosol hair preparation
Y10S 424/02	. Resin hair settings
Y10S 424/03	. Hair bleach
Y10S 424/04	. Dandruff
Y10S 424/05	. Stick
Y10S 424/06	. Chelate
Y10S 424/07	. Microporous membranes
Y10S 424/08	. Systemic pesticides
Y10S 424/09	. Fish poisons
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	.. Earthenwave type
Y10S 425/203	.. Control for blow molding apparatus
Y10S 425/217	. Spinnerette forming conjugate, composite or hollow filaments
Y10S 425/218	. Pipe machine: socket forming apparatus
Y10S 425/219	. with stick inserting means for edible product
Y10S 425/221	. Injection mold closing and locking clamp, wedge or retention means
Y10S 425/223	. Injection mold closing means utilizing variable closing pressure
Y10S 425/224	. Injection mold nozzle valve

Y10S 425/225	. . Automatic control
Y10S 425/226	. . Actuated by contact with mold
Y10S 425/227	. Injection nozzle; positioned flush with mold or cavity
Y10S 425/228	. Injection plunger or ram: transfer molding type
Y10S 425/229	. Injection mold runner valve
Y10S 425/23	. Hay wafering or pelletizing means
Y10S 425/235	. Calendar
Y10S 425/236	. Attenuating
Y10S 425/237	. Varying density foam
Y10S 425/238	. Boat hull mold
Y10S 425/239	. Modular mold
Y10S 425/24	. Pre-fab mold
Y10S 425/241	. Wall panel mold
Y10S 425/242	. Pipe joint seal mold
Y10S 425/243	. Extrusion or injection molding
Y10S 425/244	. Die and matrix
Y10S 425/245	. Heat
Y10S 425/246	. Mold heating
Y10S 425/247	. Multipart injection molds
Y10S 425/248	. Uniting
Y10S 425/249	. Character
Y10S 425/801	. Button
Y10S 425/802	. Cable tube or rod splicing
Y10S 425/803	. Candle or crayon
Y10S 425/804	. Capsule making
Y10S 425/805	. Comb or brush



- Y10S 425/806 . Flash removal
- Y10S 425/807 . Lace tipping
- Y10S 425/808 . Lens mold
- Y10S 425/809 . Seal, bottle caps only
- Y10S 425/81 . Sound record
- Y10S 425/811 . Stencil
- Y10S 425/812 . Venting
- Y10S 425/813 . Water bottle
- Y10S 425/814 . Zipper
- Y10S 425/815 . Chemically inert or reactive atmosphere
- Y10S 425/816 . Gas mask
- Y10S 425/817 . Means molding pore formable material
- Y10S 425/8175 . . Continuous
- Y10S 425/818 . Belt

**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-amorphous 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 . . Crystallinity
- 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] estro-4,9-dien-3-one]
- Y10S 514/80 . LHRH like
- Y10S 514/801 . Collagen, gelatin or derivatives thereof
- Y10S 514/802 . Fibrinopeptides, blood-coagulation factors or derivatives
- Y10S 514/803 . Kinin or derivatives
- Y10S 514/804 . Phecmycin series or derivatives
- Y10S 514/805 . Adrenocorticotrophic hormone or derivatives
- Y10S 514/806 . Somatostatin or derivatives
- Y10S 514/807 . Oxytocin, 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 megaread 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
- 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 nonliner 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	.... TI-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. IllxVy; 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