

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

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

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

Y10S 2/01

- . Ventilated garment

Y10S 2/02

- . Reversible garment

Y10S 2/03

- . Inflatable garment

Y10S 2/04

- . Free swing garment

Y10S 2/05

- . Waterproof garment with gutters

Y10S 2/08

- . Rear-view mirror

Y10S 2/09

- . Stocking-girdle relationship

Y10S 2/10

- . Inflatable hat

Y10S 2/11

- . Headband

Y10S 2/90

- . Camouflaged

Y10S 2/901

- . Antibacterial, antitoxin, or clean room

Y10S 2/902

- . Antistatic

Y10S 2/903

- . Fiberglass

Y10S 2/904

- . Polytetrafluoroethylene

Y10S 2/905

- . Electric

Y10S 2/906

- . . Head covering or protector

Y10S 2/907

- . Glove having three, four, or six finger pockets

Y10S 2/908

- . Guard or protector having a hook-loop type fastener

Y10S 2/909

- . . Head protector, e.g. helmet, goggles

Y10S 2/91

- . . Hand or wrist protector

Y10S 2/911

- . . Leg protector

Y10S 2/912

- . Garment having a hook-loop type fastener

Y10S 2/913

- . . Chest encircling, e.g. shirt, vest

Y10S 2/914

- . . . Combined nether, e.g. union suit, bag type, overalls

Y10S 2/915

- . . . having plural body encircling layers, e.g. coat

Y10S 2/916

- . . Neck covering, e.g. necktie

Y10S 2/917

- . . Hand or wrist covering

Y10S 2/918

- . . Head covering

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

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

- |                  |   |
|------------------|---|
| <b>Y10S 4/00</b> | <b>Baths, closets, sinks, and spittoons</b> |
| Y10S 4/01        | . Plural connected floats                   |
| Y10S 4/02        | . Disappearing bowl                         |
| Y10S 4/03        | . Electric flushing                         |
| Y10S 4/04        | . Garbage grinder                           |
| Y10S 4/05        | . Urine guards                              |
| Y10S 4/06        | . Heated seats                              |
| Y10S 4/07        | . House plumbing fittings                   |
| Y10S 4/08        | . Rubber seats                              |
| Y10S 4/09        | . Methods                                   |
| Y10S 4/10        | . Water additive or substitute              |
| Y10S 4/11        | . Oil toilet                                |
| Y10S 4/12        | . Aerobic decomposing toilet                |
| Y10S 4/13        | . Toilet having deformable trap             |
| Y10S 4/14        | . Pipe strainers                            |
| Y10S 4/15        | . Prison bathrooms                          |
| Y10S 4/16        | . Deformable toilet traps                   |
| Y10S 4/17        | . Electrolytic toilets                      |
| Y10S 4/18        | . Bathroom fixture liners                   |
| Y10S 4/19        | . Liquid-solid separators                   |
| Y10S 4/90        | . Decontamination shower                    |
| Y10S 4/901       | . Bowl skirt or tank cover                  |
| Y10S 4/902       | . Toilet training                           |
| Y10S 4/903       | . Shower head with material dispensing      |
| Y10S 4/904       | . Swim-in-place pool                        |
| Y10S 4/905       | . Squat bowl                                |

### **Beds**

- |                  |  |
|------------------|--|
| <b>Y10S 5/00</b> | <b>Beds</b>  |
| Y10S 5/01        | . with means to attach canopy or netting to unmodified bed or bedstead |
| Y10S 5/90        | . Bathtub or bed   |
| Y10S 5/901       | . Mattress or pad with a convoluted, e.g. egg crate surface            |
| Y10S 5/902       | . Mattress with nonrectangular supporting surface                      |
| Y10S 5/904       | . with sound emitting means  |

- Y10S 5/905
  - with light emitting means
- Y10S 5/906
  - with magnetic means
- Y10S 5/907
  - with decorative structure
- Y10S 5/908
  - . Mirror
- Y10S 5/909
  - Flowable viscous, e.g. gel material containing
- Y10S 5/91
  - with suction means
- Y10S 5/911
  - Bead containing
- Y10S 5/913
  - . with suction means
- Y10S 5/915
  - with vibrating means
- Y10S 5/922
  - with hook and loop type fastener
- Y10S 5/923
  - . Bedclothing
- Y10S 5/924
  - Cardboard containing
- Y10S 5/925
  - Highly frictional material
- Y10S 5/926
  - Low friction, e.g. slippery material
- Y10S 5/927
  - Sofa beds with motor means
- Y10S 5/928
  - with sprinkling or washing means
- Y10S 5/929
  - Facilitating sexual relations
- Y10S 5/93
  - for pregnant user
- Y10S 5/931
  - with safe or hiding place
- Y10S 5/932
  - Seals and sealing methods, for plastics
- Y10S 5/933
  - Massaging bed
- Y10S 5/934
  - . with movable transverse slats
- Y10S 5/935
  - with adjustable firmness
- Y10S 5/936
  - with adjustable firmness comprising springs
- Y10S 5/937
  - Body support with lowerable support portion to provide access to a portion of the supported body
- Y10S 5/938
  - with reflective material
- Y10S 5/939
  - with microporous material
- Y10S 5/94
  - with alarm means
- Y10S 5/941
  - Blanket with forced air flow
- Y10S 5/942
  - Longitudinally divided top surface with pivotable section
- Y10S 5/943
  - with horizontally movable top surface
- Y10S 5/944
  - with upstanding firm massaging projections
- Y10S 5/945
  - Inflatable baby support with inflatable peripheral guard
- Y10S 5/946
  - Crib bumper
- Y10S 5/947
  - Wall mounted baby changer
- Y10S 5/948
  - Body support with unique, specific filler material
- Y10S 5/949
  - . Comprising animal derived product
- Y10S 5/95
  - . . Comprising feathers or down
- Y10S 5/951
  - . . Comprising plant derived material

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

### **Compound tools**

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

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

- |                  |   |
|------------------|---|
| <b>Y10S 8/00</b> | <b>Bleaching and dyeing; fluid treatment and chemical modification of textiles and fibers</b> |
| Y10S 8/01        | . Silicones   |
| Y10S 8/02        | . Vinyl sulfones and precursors thereof   |
| Y10S 8/03        | . Swelling and stretching   |
| Y10S 8/04        | . Polyester fibers  |
| Y10S 8/05        | . Organic titanium compounds on textiles  |
| Y10S 8/06        | . Resin bleach  |
| Y10S 8/08        | . Oxirane   |
| Y10S 8/09        | . Polyolefin  |
| Y10S 8/10        | . Polyvinyl halide esters or alcohol fiber modification                                       |
| Y10S 8/11        | . Isocyanate and carbonate modification of fibers   |
| Y10S 8/12        | . Wave energy treatment of textiles   |
| Y10S 8/13        | . Cyanoethylation of fibers   |
| Y10S 8/14        | . Dry mixtures of textile reagents  |
| Y10S 8/15        | . Pressurized gas treatment of textiles   |
| Y10S 8/16        | . Pressurized and high temperature liquid treatment of textiles                               |
| Y10S 8/17        | . Glyoxal and polyaldehyde treatment of textiles  |
| Y10S 8/18        | . Grafting textile fibers   |
| Y10S 8/19        | . Molten metal  |
| Y10S 8/20        | . -N-Cl compound  |
| Y10S 8/21        | . Nylon   |
| Y10S 8/90        | . Basic emulsifiers for dyeing  |
| Y10S 8/901       | . . Quaternary ammonium salts   |
| Y10S 8/902       | . Coacervation or two-phase dyeing system   |
| Y10S 8/903       | . Triple mixture of anionic, cationic, and nonionic emulsifiers for dyeing                    |
| Y10S 8/904       | . Mixed anionic and nonionic emulsifiers for dyeing   |
| Y10S 8/905       | . Mixed anionic and cationic emulsifiers for dyeing   |
| Y10S 8/906       | . Mixed cationic and nonionic emulsifiers for dyeing  |

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

### **Boot and shoe making**

- 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

**Brushing, scrubbing, and general cleaning**

<b>Y10S 15/00</b>	<b>Brushing, scrubbing, and general cleaning</b>
Y10S 15/01	. Rechargeable batter
Y10S 15/02	. Car cleaning plants
Y10S 15/03	. Matrix
Y10S 15/04	. Ferrules
Y10S 15/05	. Varied length bristle
Y10S 15/06	. Varied composition bristle
Y10S 15/07	. Driers
Y10S 15/08	. Dust bags and separators
Y10S 15/09	. Dust mop cleaners
Y10S 15/10	. Handles, reels and switches
Y10S 15/11	. Indicators
Y10S 15/12	. Tape head cleaner
Y10S 15/13	. Magnetic tape cleaner
Y10S 15/14	. Phonograph record cleaner
Y10S 15/15	. Moisture responsive

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

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

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

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

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

- 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

**Textiles: cloth finishing**

- Y10S 26/00 **Textiles: cloth finishing**
- Y10S 26/01 . Edge and/or uncurling; stiffening

**Undertaking**

- Y10S 27/00 **Undertaking**
- Y10S 27/01 . Coffin lid fasteners

**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

**Cutlery**

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

**Geometrical instruments****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

**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

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

- Y10S 36/01 . Cement
- Y10S 36/02 . Plastic

**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

**Textiles: ironing or smoothing**

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

**Card, picture, or sign exhibiting**

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

**Firearms**

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

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

- Y10S 43/90      .    Liquid insecticide sprayer

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

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

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

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

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

- Y10S 48/01      .    Recirculation of gases produced to lower part of fuel bed
- Y10S 48/02      .    Slagging producer
- Y10S 48/03      .    High pressure
- Y10S 48/04      .    Powdered fuel injection
- Y10S 48/05      .    Diffusion membrane for gas reaction or separation
- Y10S 48/06      .    Underground gasification of coal

- Y10S 48/07 . Slurry
- Y10S 48/08 . Internal combustion engine for gas making
- Y10S 48/09 . Solar gasification
- Y10S 48/10 . Computer resisted control

### **Movable or removable closures**

#### **Y10S 49/00                      Movable or removable closures**

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

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

#### **Y10S 52/00                      Static structures, e.g. buildings**

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

### **Package making**

#### **Y10S 53/00                      Package making**

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



**Gas separation****Y10S 55/00**

Y10S 55/01

Y10S 55/02

Y10S 55/03

Y10S 55/05

Y10S 55/06

Y10S 55/07

Y10S 55/08

Y10S 55/09

Y10S 55/10

Y10S 55/12

Y10S 55/13

Y10S 55/14

Y10S 55/15

Y10S 55/17

Y10S 55/18

Y10S 55/19

Y10S 55/20

Y10S 55/21

Y10S 55/23

Y10S 55/24

Y10S 55/25

Y10S 55/26

Y10S 55/27

Y10S 55/28

Y10S 55/29

Y10S 55/30

Y10S 55/31

Y10S 55/32

Y10S 55/33

Y10S 55/34

Y10S 55/35

Y10S 55/36

Y10S 55/37

Y10S 55/38

Y10S 55/39

Y10S 55/42

**Gas separation**

- . Graduated electrostatic field
- . Vacuum cleaner bags
- . Vacuum cleaner
- . Methods of making filter
- . Magnetic couplings
- . Black liquor treatment
- . Built-in vacuum cleaners
- . Radioactive filters
- . Residue burned
- . Pocket type filter
- . Polyurethane filters
- . Inertia separator
- . Cold traps
- . Compressed air water removal
- . Work bench
- . Crankcase ventilation
- . Spark arrester
- . Silencer cleaner
- . Steam separators
- . Viscous coated filter
- . Agglomerators
- . Bag coupling
- . Cleaners, liquid
- . Carburetor attached
- . Air curtains
- . Exhaust treatment
- . Filter frame
- . Gaseous fluid conveying
- . Gas mask canister
- . Indicator and controllers
- . Respirators and register filters
- . Kitchen hoods
- . Louvers
- . Tubular collector electrode
- . Electrets separator
- . Foam filter materials

- Y10S 55/43 . Knitted filter mediums
- Y10S 55/44 . Pile and pile-type filter mediums
- Y10S 55/45 . Woven filter mediums
- Y10S 55/46 . Spray booths

### **Harvesters**

#### **Y10S 56/00**

#### **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

### **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

### **Chain, staple, and horseshoe making**

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

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

### **Power plants**

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

- Y10S 60/90 . Excess air to internal combustion engine to assist exhaust treatment
- Y10S 60/901 . Exhaust treatment special to rotary internal combustion engines
- Y10S 60/902 . Rotary reactor, separator or treater of exhaust of an internal combustion engine
- Y10S 60/903 . Closures operators
- Y10S 60/904 . Propeller or air plane system
- Y10S 60/905 . Winding and reeling
- Y10S 60/906 . Engine speed responsive throttle control system
- Y10S 60/907 . Working member positioned against counterforce by constantly applied motive fluid
- Y10S 60/908 . Washing machine system
- Y10S 60/909 . Reaction motor or component composed of specific material
- Y10S 60/91 . Free piston
- Y10S 60/911 . Fluid motor system incorporating electrical system
- Y10S 60/912 . Cooling means
- Y10S 60/913 . Collection of reggio patents
- Y10S 60/914 . Explosive
- Y10S 60/915 . Collection of goddard patents
- Y10S 60/916 . Unitary construction
- Y10S 60/917 . Solid fuel ramjet using pulverized fuel

### **Refrigeration**

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

- Y10S 62/01 . Radiant cooling
- Y10S 62/02 . Refrigerant pumps
- Y10S 62/05 . Aircraft cooling
- Y10S 62/07 . Vacuum plates

Y10S 62/10	. Tool cooling
Y10S 62/11	. Hydrator receptacles
Y10S 62/13	. Insulation
Y10S 62/16	. Roof and ceiling located coolers
Y10S 62/17	. Condenser pressure control
Y10S 62/19	. Ionic thompson effect
Y10S 62/20	. Materials used to prevent corrosion in refrigeration system
Y10S 62/21	. Evaporators where refrigerant covers heat exchange coil
Y10S 62/22	. Free cooling
Y10S 62/23	. Explosive digest
Y10S 62/90	. Triple column
Y10S 62/901	. Single column
Y10S 62/902	. Apparatus
Y10S 62/903	. . Heat exchange structure
Y10S 62/904	. . . Coiled heat exchanger
Y10S 62/905	. . Column
Y10S 62/906	. . . Packing
Y10S 62/907	. . . Insulation
Y10S 62/908	. . Filter or absorber
Y10S 62/909	. . Regeneration
Y10S 62/91	. . Expander
Y10S 62/911	. . Portable
Y10S 62/912	. External refrigeration system
Y10S 62/913	. . Liquified gas
Y10S 62/914	. Magnetic or electric field
Y10S 62/915	. Combustion
Y10S 62/916	. Explosion reduction
Y10S 62/917	. Mercury
Y10S 62/918	. Halocarbon
Y10S 62/919	. Isotope
Y10S 62/92	. Carbon monoxide
Y10S 62/921	. Chlorine
Y10S 62/922	. Sulfur
Y10S 62/923	. Inert gas
Y10S 62/924	. . Argon
Y10S 62/925	. . Xenon or krypton
Y10S 62/926	. Gasoline
Y10S 62/927	. Natural gas from nitrogen
Y10S 62/928	. Recovery of carbon dioxide
Y10S 62/929	. . From natural gas

- Y10S 62/93
  - . . From nitrogen
- Y10S 62/931
  - . Recovery of hydrogen
- Y10S 62/932
  - . . From natural gas
- Y10S 62/933
  - . . From helium
- Y10S 62/934
  - . . From nitrogen
- Y10S 62/939
  - . Partial feed stream expansion, air
- Y10S 62/94
  - . . High pressure column

### **Jewelry**

- Y10S 63/00**
  - Jewelry**
- Y10S 63/01
  - . Adhesive jewelry
- Y10S 63/02
  - . Perfumed jewelry
- Y10S 63/03
  - . Plastic jewelry
- Y10S 63/90
  - . Magnetic connector

### **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

### **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

## **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-segmental 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

**Chemistry: fertilizers**

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

**Metal deforming**

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

**Measuring and testing**

- |                   |                              |
|-------------------|------------------------------|
| <b>Y10S 73/00</b> | <b>Measuring and testing</b> |
|-------------------|------------------------------|



Y10S 73/01	. Vibration
Y10S 73/02	. Magnetostrictive
Y10S 73/03	. Hall effect
Y10S 73/04	. Piezoelectric
Y10S 73/05	. Liquid levels with magnetic transmission
Y10S 73/08	. Fluid circuits
Y10S 73/09	. Molten metal samplers
Y10S 73/10	. instrument mechanisms with acceleration compensation
Y10S 73/11	. Photoelectric cell
Y10S 73/90	. Automatic gain control
Y10S 73/901	. Digital readout

**Machine element or mechanism**

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

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

<b>Y10S 75/00</b>	<b>Specialized metallurgical processes, compositions for use therein, consolidated metal powder compositions, and loose metal particulate mixtures</b>
Y10S 75/95	. Consolidated metal powder compositions of >95% theoretical density, e.g. wrought
Y10S 75/951	. . Oxide containing, e.g. dispersion strengthened
Y10S 75/952	. Producing fibers, filaments, or whiskers
Y10S 75/953	. Producing spheres
Y10S 75/954	. Producing flakes or crystals

- Y10S 75/955 . Producing dental product
- Y10S 75/956 . Producing particles containing a dispersed phase
- Y10S 75/957 . Continuous refining of molten iron
- Y10S 75/958 . with concurrent production of iron and other desired nonmetallic product, e.g.  
energy, fertilizer
- Y10S 75/959 . Thermit-type reaction of solid materials only to yield molten metal
- Y10S 75/96 . in zero gravity environment
- Y10S 75/961 . Treating flue dust to obtain metal other than by consolidation
- Y10S 75/962 . Treating or using mill scale

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

#### **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

### **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

### **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

### **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

**Music****Y10S 84/00**

Y10S 84/01

Y10S 84/02

Y10S 84/03

Y10S 84/04

Y10S 84/05

Y10S 84/06

Y10S 84/07

Y10S 84/08

Y10S 84/09

Y10S 84/10

Y10S 84/11

Y10S 84/12

Y10S 84/13

Y10S 84/14

Y10S 84/15

Y10S 84/16

Y10S 84/17

Y10S 84/18

Y10S 84/19

Y10S 84/20

Y10S 84/21

Y10S 84/22

Y10S 84/23

Y10S 84/24

Y10S 84/25

Y10S 84/26

Y10S 84/27

Y10S 84/28

Y10S 84/29

Y10S 84/30

**Music**

- . Plural speakers
- . Preference networks
- . Foldable; detachable; collapsible
- . Chorus; ensemble; celeste
- . Chiff
- . Cathode-ray tube
- . Electric key switch structure
- . Keyed oscillators
- . Filtering
- . Feedback
- . Frequency dividers
- . Side; rhythm and percussion devices
- . Gas discharge tube
- . Harmonicas
- . Accordions
- . Crescendo
- . Cabinets
- . Tuning
- . Light sensitive resistor
- . Monophonic
- . Mechanical resonator
- . Chord organs
- . Electronic gates for tones
- . Piezoelectrical transducers
- . Pedal clavier
- . Reverberation
- . Stereo
- . Service manuals
- . Tape
- . Fret control

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

Y10S 91/01

Y10S 91/02

**Motors: expansible chamber type**

- . Digital
- . Exhaust throttled motor control

- Y10S 91/03 . Large area valve
- Y10S 91/04 . Magnets

### **Expansible chamber devices**

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

### **Gas separation: processes**

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

### **Foods and beverages: apparatus**

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

### **Presses**

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

- Y10S 100/91 . Meat
- Y10S 100/911 . Jet or explosive
- Y10S 100/912 . Binder containers
- Y10S 100/913 . Truss presses
- Y10S 100/914 . Scrap paper
- Y10S 100/915 . Fixed upper ram, lower movable receptacle
- Y10S 100/916 . Coil tightener and binder
- Y10S 100/917 . Magnetic
- Y10S 100/918 . Bolster and die

### **Printing**

#### **Y10S 101/00**

#### **Printing**

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

### **Ammunition and explosives**

#### **Y10S 102/00**

#### **Ammunition and explosives**

- Y10S 102/70 . Combustible cartridge
- Y10S 102/701 . Charge wave forming

- Y10S 102/702 . Compression ignition
- Y10S 102/703 . Flechette
- Y10S 102/704 . Coolants
- Y10S 102/705 . Separated explosive constituents

### **Railways**

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

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

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

### **Horizontally supported planar surfaces**

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

### **Planting**

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



Y10S 111/911	. . Rice
Y10S 111/912	. . Pineapple
Y10S 111/913	. . Vegetable, i.e. small seed
Y10S 111/914	. . . Lettuce
Y10S 111/915	. Special condition
Y10S 111/916	. . Seed pellet
Y10S 111/917	. . Gel
Y10S 111/918	. . Sprout
Y10S 111/919	. Special transplant related feature
Y10S 111/92	. Airplane
Y10S 111/921	. Unique motor drive
Y10S 111/922	. Variable drive mechanism
Y10S 111/923	. Interrow, intercrop planter
Y10S 111/924	. Minimum and no till planter
Y10S 111/925	. Tank and hopper trailers
Y10S 111/926	. Special suspension or gauging feature
Y10S 111/927	. Parallelogram mounting

### **Sewing**

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

### **Signals and indicators**

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

Y10S 116/13	. Inclinometers for earth working devices
Y10S 116/14	. Tapes as carriers
Y10S 116/15	. Projection
Y10S 116/16	. Road structure
Y10S 116/17	. Tactile
Y10S 116/18	. Wave generators
Y10S 116/19	. Wave generator with resonating element
Y10S 116/20	. Automobile transmission position
Y10S 116/21	. Shaft position indicators
Y10S 116/22	. Heated air
Y10S 116/23	. Movable index
Y10S 116/24	. with suction cups
Y10S 116/25	. Air filter condition indicator
Y10S 116/26	. Light rod
Y10S 116/27	. Blowout plates
Y10S 116/28	. Push button structure
Y10S 116/29	. TV tuner
Y10S 116/30	. Remote TV tuner
Y10S 116/31	. TV channel selector
Y10S 116/32	. Content indicator by weight
Y10S 116/33	. Indicator for elevated cables
Y10S 116/34	. Tension indicating
Y10S 116/35	. Electroluminescent dials
Y10S 116/36	. Illuminated dial and pointer
Y10S 116/37	. Multiple movable scales
Y10S 116/38	. Hot box alarm
Y10S 116/39	. Dial magnifiers
Y10S 116/40	. Flare devices
Y10S 116/41	. Color comparison
Y10S 116/42	. Oil filter
Y10S 116/43	. Navigation devices
Y10S 116/44	. Portable personal alarms
Y10S 116/45	. Parallax
Y10S 116/46	. Interchangeable scales
Y10S 116/47	. Scale conversion, e.g. english-metric

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

**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

#### **Coating apparatus**

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

- Y10S 118/18 . Wire and cord die
- Y10S 118/19 . Wire and cord immersion
- Y10S 118/20 . Wire and cord roller
- Y10S 118/21 . Wire and cord striper
- Y10S 118/22 . Wire and cord miscellaneous
- Y10S 118/90 . Semiconductor vapor doping

### **Animal husbandry**

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

### **Liquid heaters and vaporizers**

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

### **Internal-combustion engines**

- |                    |                                    |
|--------------------|------------------------------------|
| <b>Y10S 123/00</b> | <b>Internal-combustion engines</b> |
|--------------------|------------------------------------|

- Y10S 123/01 . Interchangeable
- Y10S 123/02 . Accumulated fuel return to tank or engine-induction system
- Y10S 123/03 . Model
- Y10S 123/04 . Stratification
- Y10S 123/05 . Crankcase pressure-operated pumps
- Y10S 123/06 . Detachable
- Y10S 123/07 . Convertible
- Y10S 123/08 . Multiple engine units
- Y10S 123/09 . Flame ignition
- Y10S 123/10 . Fluidic amplifier fuel control
- Y10S 123/11 . Antidieseling
- Y10S 123/12 . Hydrogen
- Y10S 123/13 . Gas

### **Mechanical guns and projectors**

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

### **Stone working**

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

### **Stoves and furnaces**

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

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

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

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

Y10S 128/01

Y10S 128/03

Y10S 128/06

Y10S 128/07

Y10S 128/08

Y10S 128/10

Y10S 128/12

Y10S 128/13

Y10S 128/14

Y10S 128/15

Y10S 128/18

Y10S 128/19

Y10S 128/20

Y10S 128/21

Y10S 128/22

Y10S 128/23

Y10S 128/24

Y10S 128/25

Y10S 128/26

Y10S 128/27

Y10S 128/90

Y10S 128/901

Y10S 128/902

Y10S 128/903

Y10S 128/904

Y10S 128/905

Y10S 128/906

Y10S 128/907

Y10S 128/908

Y10S 128/909

Y10S 128/91

Y10S 128/911

Y10S 128/912

Y10S 128/913

Y10S 128/914

Y10S 128/915

**Surgery**

. Motorized syringe

. Heart-lung

. Intravenous injection support

. Servo-systems

. Collagen

. Fluid amplifiers

. Pressure infusion

. Infusion monitoring

. Polytetrafluoroethylene, i.e. PTFE

. Hook and loop type fastener

. Heat shrinkable film

. Clavicle splint

. Inflatable splint

. Silicone

. Blood coagulation

. Cervical collars

. Medical-surgical bags

. Artificial sphincters and devices for controlling urinary incontinence

. Cannula supporters

. Cryogenic

. Blood pressure recorder

. Suppression of noise in electric signal

. Biological signal amplifier

. Radio telemetry

. Telephone telemetry

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

. Multiphasic diagnostic clinic

. Acupuncture

. Patient protection from electric shock

. Breathing apparatus with means for preventing patient cross-contamination

. Anesthesia gas scavenging system

. Unilimb inhalation-exhalation breathing tubes

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

. Breathable liquids

. Rebreathing apparatus for increasing carbon dioxide content in inhaled gas

. Ultrasound mammography

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

### **Tobacco**

#### **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

### **Toilet**

#### **Y10S 132/00**

#### **Toilet**

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

### **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

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

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

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

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

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

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



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

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

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

- Y10S 139/01 . Bias fabric digest

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

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

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

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

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

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

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

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

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

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

- 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

#### **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

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

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

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

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

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



- Y10S 156/942 . . . with reorientation means
- Y10S 156/943 . . . with poking delaminating means, e.g. jabbing means

**Concentrating evaporators**

- | <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

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

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

- Y10S 160/902 . Venetian blind type bracket means
- Y10S 160/903 . Roll type bracket means
- Y10S 160/904 . Electric or pneumatic awning operator
- Y10S 160/905 . Lazy-tong-link awning operator
- Y10S 160/906 . Screw-threaded awning operator
- Y10S 160/907 . Spring, other than spring roller, awning operator
- Y10S 160/908 . Strand awning operator
- Y10S 160/909 . . Endless strand
- Y10S 160/91 . . Drum wound strand
- Y10S 160/911 . Worm gear awning operator
- Y10S 160/912 . Rack-and-pinion awning operator
- Y10S 160/913 . Gear awning operator

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

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

### **Metal founding**

- |                    |                       |
|--------------------|-----------------------|
| <b>Y10S 164/00</b> | <b>Metal founding</b> |
| Y10S 164/01        | . Battery             |
| Y10S 164/02        | . Bearing             |
| Y10S 164/03        | . Centrifugal         |
| Y10S 164/04        | . Dental              |

Y10S 164/05	. Electron beam
Y10S 164/06	. Ingot
Y10S 164/07	. Melt
Y10S 164/08	. Piston
Y10S 164/09	. Piston-vacuum
Y10S 164/10	. Rotor
Y10S 164/11	. Slush
Y10S 164/12	. Thermit
Y10S 164/13	. Valve
Y10S 164/14	. Wheel
Y10S 164/15	. Precision casting
Y10S 164/90	. Rheo-casting

**Heat exchange****Y10S 165/00****Heat exchange**

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

Y10S 165/024	. . . . .	Circumferential seal
Y10S 165/025	. . . . .	Heat resistant material seal
Y10S 165/026	. . . . .	Seal attached to and rotating with storage mass
Y10S 165/027	. . . . .	with particular rotary bearing or drive means
Y10S 165/028	. . . . .	Ring gear surrounding cylindrical storage mass
Y10S 165/029	. . . . .	Cylindrical storage mass with axial flow passages
Y10S 165/03	. . . . .	Mass formed of modules arranged in three dimensional matrix, i.e. checkerwork
Y10S 165/031	. . . . .	Gradated flow area, heat capacity or conductivity
Y10S 165/032	. . . . .	having gas supply or exhaust manifold structure
Y10S 165/033	. . . . .	with flow control device, i.e. valve
Y10S 165/034	. . . . .	with flow distributing baffle
Y10S 165/035	. . . . .	in casing
Y10S 165/036	. . . . .	Distinct passages formed in individual modules
Y10S 165/037	. . . . .	having flow diverting means, e.g. valve to selectively control flow through storage mass
Y10S 165/038	. . . . .	Correlated control of plural diverting means
Y10S 165/039	. . . . .	Synchronously rotated flow guiding hoods disposed on opposite sides of fixed regenerator
Y10S 165/04	. . . . .	Linearly movable diverting means
Y10S 165/041	. . . . .	Rotary diverting means
Y10S 165/042	. . . . .	Particular structure of heat storage mass
Y10S 165/043	. . . . .	Element for constructing regenerator rotor
Y10S 165/044	. . . . .	having flexible heat exchange surface conforming to a solid structure, e.g. applicator
Y10S 165/045	. . . . .	Conform to head, neck, or face
Y10S 165/046	. . . . .	Heat exchange body suit
Y10S 165/047	. . . . .	for cooling
Y10S 165/048	. . . . .	Electrical component
Y10S 165/049	. . . . .	Or for heating
Y10S 165/05	. . . . .	including a pump or valve
Y10S 165/051	. . . . .	having expansion and contraction relieving or absorbing means
Y10S 165/052	. . . . .	for cylindrical heat exchanger
Y10S 165/053	. . . . .	Flexible or movable header or header element
Y10S 165/054	. . . . .	Movable header, e.g. floating header
Y10S 165/055	. . . . .	including guiding means for movable header
Y10S 165/056	. . . . .	Fluid sealing means between movable header and enclosure
Y10S 165/057	. . . . .	Flexing tubesheet
Y10S 165/058	. . . . .	Movable tubesheet, e.g. floating tubesheet
Y10S 165/059	. . . . .	Tubesheet connected to enclosure by expansion joint
Y10S 165/06	. . . . .	Expandable casing for cylindrical heat exchanger

- Y10S 165/061 . . . . for plural cylindrical heat exchangers
- Y10S 165/062 . . . . having particular external casing support means
- Y10S 165/063 . . . Cylindrical heat exchanger fixed to fixed end supports
- Y10S 165/064 . . . . including intermediate support
- Y10S 165/065 . . . . Bent cylindrical heat exchanger
- Y10S 165/066 . . . . . Coiled
- Y10S 165/067 . . . Cylindrical heat exchanger rectilinearly slidable relative to its support
- Y10S 165/068 . . . . including fluid seal
- Y10S 165/069 . . . Pivotal support for cylindrical heat exchanger
- Y10S 165/07 . . . Resilient fluid seal
- Y10S 165/071 . . Resilient fluid seal for plate-type heat exchanger
- Y10S 165/072 . Agitator or impeller motor operated by first heat exchange fluid
- Y10S 165/073 . . To agitate or move second heat exchange fluid
- Y10S 165/074 . . . Agitator structure confines first heat exchange fluid
- Y10S 165/075 . . . Agitator structure confines second heat exchange fluid
- Y10S 165/076 . with scraper for removing product from heat transfer surface
- Y10S 165/077 . . Screw shaped scraper
- Y10S 165/078 . . Linearly operated scraper
- Y10S 165/079 . . . Reciprocated linearly
- Y10S 165/08 . . Plural scrapers for spaced shelves or chambers
- Y10S 165/081 . . Rotary heat exchange scraper or scraper for rotary heat exchange surface
- Y10S 165/082 . . . Grooved drum surface
- Y10S 165/083 . . . Scraper attached to or formed part of rotary heat exchange fluid surface
- Y10S 165/084 . . . Scraper within annular space formed by concentric cylinders or concentric conical surfaces
- Y10S 165/085 . . . Scraper for cleaning inner surface of rotary heat exchange surface
- Y10S 165/086 . . . Weight operated scraper
- Y10S 165/087 . . . Spring pressed scraper
- Y10S 165/088 . . . Adjustable scraper
- Y10S 165/089 . . . for scraping flat horizontal surface
- Y10S 165/09 . . . Scraper blade movable relative to scraper blade support, e.g. pivoting blade, rocking blade
- Y10S 165/091 . . . for scraping wall of cylindrical heat exchanger
- Y10S 165/092 . with valve or movable deflector for heat exchange fluid flow
- Y10S 165/093 . . Adjustable radiator face covering means, e.g. adjustable shield for car radiator, heater core
- Y10S 165/094 . . . Windowshade type, i.e. sheet feeds off roller
- Y10S 165/095 . . . Rectilinear sliding movement of adjustable cover
- Y10S 165/096 . . . Pivotal movement of adjustable cover
- Y10S 165/097 . . . . Plural parallel pivotable shutters

Y10S 165/098	. . . . . One shutter section having different flow area or flow direction with another shutter section
Y10S 165/099	. . . . . with fan
Y10S 165/10	. . Flow direction reversed through heat exchanger
Y10S 165/101	. . for controlling supply of heat exchange fluid flowing between hydraulically independent heat exchange sections
Y10S 165/102	. . . Hydraulically independent single-confined-fluid radiator sections for heating ambient air
Y10S 165/103	. . . . Valves each controls a radiator section
Y10S 165/104	. . . Hydraulically independent heat exchange sections connected in parallel
Y10S 165/105	. . . . Correlated valves
Y10S 165/106	. . . . Valves each controls a heat exchange section
Y10S 165/107	. . . . . Hydraulically independent heat exchange tubes disposed in housing, e.g. tank, casing
Y10S 165/108	. . . . . Coiled tubes
Y10S 165/109	. . with by-pass of heat exchanger or heat exchanger section
Y10S 165/11	. . . Bypass within or surrounds heat exchanger
Y10S 165/111	. . . . Heat exchanger enclosing a fluid conduit confining second heat exchange fluid
Y10S 165/112	. . . . . Stove pipe drum having air draft passage for heating ambient air
Y10S 165/113	. . . . Bypass centrally located in heat exchanger
Y10S 165/114	. . . . . having perforated wall
Y10S 165/115	. . . . . Surrounding by a helical flow channel
Y10S 165/116	. . . . . Plural adjacent flow channel parallel to central bypass
Y10S 165/117	. . . . . Arranged for series flow therethrough
Y10S 165/118	. . . . Serpentine heat exchange flow path
Y10S 165/119	. . . . Bypass controlled by pivotal damper
Y10S 165/12	. . . U or serpentine heat exchange flow path
Y10S 165/121	. . . . Serpentine heat exchange flow path
Y10S 165/122	. . . . U heat exchange flow path and linear bypass
Y10S 165/123	. . Heat exchange flow path through heat exchanger altered, e.g. crossed
Y10S 165/124	. . . Stove pipe drum
Y10S 165/125	. . . . Valve mounted on fixed deflector
Y10S 165/126	. . Total flow rate through heat exchanger controlled by valve
Y10S 165/127	. . . Stove pipe drum
Y10S 165/128	. . . . including air draft passage for heating ambient air
Y10S 165/129	. . . Valve regulates flow through housing enclosing heat exchanger
Y10S 165/13	. . . . including valve regulating flow through heat exchanger
Y10S 165/131	. . . Single-confined-fluid radiator for heating ambient air
Y10S 165/132	. with adjustor for heat flow
Y10S 165/133	. . Conduction rate

- Y10S 165/134 . . . by varying thickness of conductive layer, e.g. air gap
- Y10S 165/135 . Movable heat exchanger
- Y10S 165/136 . . Movable belt or strip transfers heat to or from objects or material thereon
- Y10S 165/137 . . Unconstrained movement, e.g. float
- Y10S 165/138 . . Partially rotatable, e.g. rocking, pivoting, oscillation, tilting
- Y10S 165/139 . . Fully rotatable
- Y10S 165/14 . . . Rotating heat exchanger having rotating flow confining structures or chambers for two separate heat exchange fluids
- Y10S 165/141 . . . . Concentric flow confining structures or chambers
- Y10S 165/142 . . . . Jacketed shell
- Y10S 165/143 . . . . Discrete tubing having length extending along a longitudinal axis of rotating heat exchanger
- Y10S 165/144 . . . . Helical
- Y10S 165/145 . . . Radially extending hollow arm on rotating shaft traverses furnace shelf, e.g. rabble arm
- Y10S 165/146 . . . . Angled blade suspended from arm for advancing material
- Y10S 165/147 . . . Fluid impeller or material advancer
- Y10S 165/148 . . . . Auger
- Y10S 165/149 . . . . having hollow blade
- Y10S 165/15 . . . . Radial or axial impeller
- Y10S 165/151 . . . . having hollow blade
- Y10S 165/152 . . . Rotating agitator
- Y10S 165/153 . . . . Flow space or fluid chamber defined between two relatively movable, closely spaced coextensive surfaces
- Y10S 165/154 . . . . Hollow tubing rotates in vessel to stir contents
- Y10S 165/155 . . . . Tubing has radially or axially extending sections
- Y10S 165/156 . . . Hollow cylindrical member, e.g. drum
- Y10S 165/157 . . . . Fluid sprayed onto surface of rotatable cylinder
- Y10S 165/158 . . . . having stationary material removal means
- Y10S 165/159 . . . . with particular flow path or defined fluid chamber, e.g. annulus, spiral
- Y10S 165/16 . . . . Concentric shells define annular flow space
- Y10S 165/161 . . . . . with means defining particular flow path, e.g. baffle
- Y10S 165/162 . Only direct-contact heat exchange between two separately supplied fluids
- Y10S 165/163 . including a means to form fluid film on heat transfer surface, e.g. trickle
- Y10S 165/164 . . Film flow constrained to spiral path
- Y10S 165/165 . . Film formed on spirally coiled member
- Y10S 165/166 . . Vertically spaced pipe sections contact liquid in underlying troughs
- Y10S 165/167 . . Liquid film flows sequentially along upper surfaces of vertically spaced trays, i.e. shelf-to-shelf
- Y10S 165/168 . . Film formed on interior surface of container or pipe
- Y10S 165/169 . . . inside of vertical pipe



- Y10S 165/17
  - . . . . Distributor "cap" mounted in top end of pipe
- Y10S 165/171
  - . . including means at top end of vertical pipe to distribute liquid film on pipe exterior
- Y10S 165/172
  - . . Film flows along exterior of plural pipe sections
- Y10S 165/173
  - . . . Pipe exterior surfaces about to form continuous surface
- Y10S 165/174
  - . . . Intervening members extend between spaced pipe sections to form continuous surface
- Y10S 165/175
  - . . . Horizontally extending, parallel sections disposed in vertical array, i.e. one pipe directly above another
- Y10S 165/176
  - . . . . with means suspended beneath pipe surface to guide liquid droplets
- Y10S 165/177
  - . . Film flows along upper surface of tray
- Y10S 165/178
  - . . . Parallel corrugated vertical sheets formed fluid passage therebetween
- Y10S 165/179
  - . . . Container enclosed by casing
- Y10S 165/18
  - . . . Vertically disposable elongated member
- Y10S 165/181
  - . . . Horizontally disposable elongated member
- Y10S 165/182
  - . Indirect-contact cooling tower
- Y10S 165/183
  - . Indirect-contact evaporator
- Y10S 165/184
  - . Indirect-contact condenser
- Y10S 165/185
  - . . having stacked plates forming flow channel therebetween
- Y10S 165/186
  - . . . Stacked plates surrounded by housing confining another fluid
- Y10S 165/187
  - . . having pump downstream of condenser
- Y10S 165/188
  - . . . Pump to remove only uncondensed vapor or air
- Y10S 165/189
  - . . . . From a first-stage direct-contact condenser
- Y10S 165/19
  - . . . . including second-stage indirect-contact condenser
- Y10S 165/191
  - . . . . including second-stage direct-contact condenser
- Y10S 165/192
  - . . including means to heat collected condensate
- Y10S 165/193
  - . . First-stage condenser serially connected to second-stage condenser
- Y10S 165/194
  - . . . First stage direct-contact condenser
- Y10S 165/195
  - . . including condensate collecting tray connected to condensate drain conduit to divert condensate around a section of heat transfer surface
- Y10S 165/196
  - . . Baffle defines flow passage within header for condensate to bypass portion of vapor flow path
- Y10S 165/197
  - . . including means for removing condensate from vapor flow path to bypass portion of vapor flow path
- Y10S 165/198
  - . . Condensate guiding means attached to heat transfer surface
- Y10S 165/199
  - . . . Heat transfer tube surrounds by jacket condensate guiding means
- Y10S 165/20
  - . . . Condensate guiding means forms inside heat transfer tube
- Y10S 165/201
  - . . . including fin member associated with condensate guiding means
- Y10S 165/202
  - . . Vapor flow passage between vapor inlet and outlet has decreasing cross-sectional area
- Y10S 165/203
  - . . . Coolant tubes arranged in groups to form vapor flow lanes of decreasing cross-sectional area

- Y10S 165/204 . . including a direct-contact heat exchange chamber
- Y10S 165/205 . . Space for condensable vapor surrounds space for coolant
- Y10S 165/206 . . . including coiled heat exchange tube
- Y10S 165/207 . . . Distinct outlets for separated condensate and gas
- Y10S 165/208 . . . . including vapor guide plate extending across vapor inlet
- Y10S 165/209 . . . . including tube banks arranged in undulating pattern, e.g. w shape
- Y10S 165/21 . . . . including perforated baffle completely surrounding a group of coolant tube
- Y10S 165/211 . . . . including concave member adjacent to vapor outlet and partially covering a group of coolant tubes
- Y10S 165/212 . . . . including inclined flat condensate guiding means
- Y10S 165/213 . . . . including baffle partially covering a group of coolant tubes
- Y10S 165/214 . . . . including baffle structure for reversing flow direction of vapor
- Y10S 165/215 . . . having longitudinal partition extending parallel to longitudinal axis of coolant tube
- Y10S 165/216 . . . having partition transverse to longitudinal axis of coolant tube
- Y10S 165/217 . . Space for coolant surrounds space for vapor
- Y10S 165/218 . . . Condensor adapted to cover opening at top of vapor generator
- Y10S 165/219 . . . . Radiator cap condenser
- Y10S 165/22 . . . U-shaped or spur tubes connected to adjacent inlet and outlet headers
- Y10S 165/221 . . . Vapor is the only confined fluid
- Y10S 165/222 . . . . Plural parallel tubes confining vapor connecting between spaced headers
- Y10S 165/223 . . . Vapor tube enclosed by coolant confining shell
- Y10S 165/224 . including a means to form a fluid jet
- Y10S 165/225 . with solid conveyor
- Y10S 165/226 . . Screw conveyor
- Y10S 165/227 . . Belt conveyor
- Y10S 165/228 . with fan or pump
- Y10S 165/229 . . Screw conveyor in pipe or tank
- Y10S 165/30 . . Injector-type pump
- Y10S 165/301 . . . having nested nozzles
- Y10S 165/302 . . Rotary gas pump
- Y10S 165/303 . . . Annular heat exchanger
- Y10S 165/304 . . . . Axial impeller
- Y10S 165/305 . . . . . Located at heat-exchange housing inlet
- Y10S 165/306 . . . . . Located at heat-exchange housing outlet
- Y10S 165/307 . . . including plural impellers
- Y10S 165/308 . . . . Coaxial impellers
- Y10S 165/309 . . . . . Radial impeller
- Y10S 165/31 . . . Heat exchanger located at housing inlet or outlet

- Y10S 165/311 . . . including particular flow deflector, e.g. shroud, diffuser
- Y10S 165/312 . . . . Plural parallel deflectors
- Y10S 165/313 . . . . Deflector with curved surface
- Y10S 165/314 . . . Radial impeller
- Y10S 165/315 . . . . Located at heat-exchange housing inlet
- Y10S 165/316 . . . Axial impeller located at heat-exchange housing inlet
- Y10S 165/317 . . . Axial impeller located at heat-exchange housing outlet
- Y10S 165/318 . with driven agitator
- Y10S 165/319 . . Linearly moving agitator
- Y10S 165/32 . . Fully rotary agitator
- Y10S 165/321 . . . Generating toroidal flow
- Y10S 165/322 . . . including heat exchange jacket-walls
- Y10S 165/323 . . . . Heating or cooling coil disposed between jacket-walls
- Y10S 165/324 . . . . Agitator having blade sections mounted along rotating shaft
- Y10S 165/325 . . . Blade sections mounted along rotating shaft
- Y10S 165/326 . . . Agitator and heating or cooling coil disposed in same housing
- Y10S 165/327 . Thermosyphonic having vertical air draft passage
- Y10S 165/328 . . Air draft passage confined entirely or in part by fin structure
- Y10S 165/329 . . . Corrugated fin attached to heat transfer surface
- Y10S 165/33 . . . Air draft passage is parallel to flow direction of heating or cooling means
- Y10S 165/331 . . Air draft passage confined entirely by heat transfer surface
- Y10S 165/332 . . . Coaxial ducts define air draft passage and annular passage for heat exchange fluid
- Y10S 165/333 . . . . including baffle
- Y10S 165/334 . . . . . Baffle located in annular passage
- Y10S 165/335 . . . Plural air draft passages enclosed by casing
- Y10S 165/336 . . . . Angled air draft passage
- Y10S 165/337 . . Heating or cooling means entirely surrounded by air draft passage forming casing
- Y10S 165/338 . . . Nested or concentric members define annular air draft passage and heating or cooling conduit
- Y10S 165/339 . . . . with baffle
- Y10S 165/34 . . . including flow baffle in casing
- Y10S 165/341 . . . Parallel heating or cooling tubes or tubular sections, e.g. coil, serpentine
- Y10S 165/342 . Tank with heat exchanger
- Y10S 165/343 . . Heat exchanger forms all or portion of tank
- Y10S 165/344 . . . Spiral coil forms hemispherical vessel
- Y10S 165/345 . . . Jacketed vessel
- Y10S 165/346 . . . . Flow baffle or fin in annular flow space
- Y10S 165/347 . . Heat exchanger forms cover for tank
- Y10S 165/348 . . Heat exchanger within tank

- Y10S 165/349 . . . Supported by cover for tank
- Y10S 165/35 . . . Tubing removably coupled to inlet and outlet at tank wall
- Y10S 165/351 . . . Spaced from tank wall
- Y10S 165/352 . . . Flow directing baffle associated with heat exchanger tubing
- Y10S 165/353 . . Tube coil bonded directly to tank exterior
- Y10S 165/354 . . Heat exchanger serially connected to tank
- Y10S 165/355 . having separate flow passage for two distinct fluids
- Y10S 165/356 . . Plural plates forming a stack providing flow passages therein
- Y10S 165/357 . . . forming annular heat exchanger
- Y10S 165/358 . . . . Radially arranged plates
- Y10S 165/359 . . . including means for modifying thermal stress in heat exchange plate
- Y10S 165/36 . . . Stacked plates having plurality of perforations
- Y10S 165/361 . . . Circular flow passages between plates
- Y10S 165/362 . . . Heat exchange liquids separated by double walls
- Y10S 165/363 . . . Slotted plates forming grid
- Y10S 165/364 . . . with fluid traversing passages formed through the plate
- Y10S 165/365 . . . . including peripheral seal element forming flow channel bounded by seal and heat exchange plates
- Y10S 165/366 . . . . . Rigid or semi-rigid peripheral seal frame
- Y10S 165/367 . . . . . Peripheral seal element between corrugated heat exchange plates
- Y10S 165/368 . . . . . including angled corrugations with respect to flow direction
- Y10S 165/369 . . . . . including seal to plate attachment means
- Y10S 165/37 . . . . Unitary heat exchange plate and projecting edge
- Y10S 165/371 . . . . including mating flanges around fluid traversing passage
- Y10S 165/372 . . . . Adjacent heat exchange plates having joined bent edge flanges for forming flow channels therebetween
- Y10S 165/373 . . . Adjacent heat exchange plates having joined bent edge flanges for forming flow channels therebetween
- Y10S 165/374 . . . . Liquid to air heat exchanger having liquid passage formed by joined sheets
- Y10S 165/375 . . . . . Transverse air tubes
- Y10S 165/376 . . . . . Air passages defined by spacing projections of sheets
- Y10S 165/377 . . . . . Spacing projections formed by folded sheet portions
- Y10S 165/378 . . . . . including intermediate sheet supporting opposed spacing projections
- Y10S 165/379 . . . . . including corrugated air fin passages between adjacent liquid passages
- Y10S 165/38 . . . . . Air fin conforms to joined corrugated sheets forming plural liquid chambers
- Y10S 165/381 . . . . . including air fin apertures
- Y10S 165/382 . . . . Overlapping flanges
- Y10S 165/383 . . . . Interlocking flanges

Y10S 165/384	. . . . Thermally bonded side edges
Y10S 165/385	. . . Bent sheet forming a single tube
Y10S 165/386	. . . . To form only air passages
Y10S 165/387	. . . including side-edge seal or edge spacer bar
Y10S 165/388	. . . . including spacer bar transverse to plate stack
Y10S 165/389	. . . . Flow enhancer integral with side-edge seal or edge spacer bar
Y10S 165/39	. . . . Flange element to connect two adjacent heat exchange plates
Y10S 165/391	. . . . including intermediate corrugated element
Y10S 165/392	. . . . Unitary heat exchange plate and projecting edge
Y10S 165/393	. . . including additional element between heat exchange plates
Y10S 165/394	. . . . Corrugated heat exchange plate
Y10S 165/395	. . Monolithic core having flow passages for two different fluids, e.g. one- piece ceramic
Y10S 165/396	. . . Plurality of stacked monolithic cores
Y10S 165/397	. . . including conduits embedded in monolithic block
Y10S 165/398	. . Spirally bent heat exchange plate
Y10S 165/399	. . Corrugated heat exchange plate
Y10S 165/40	. . Shell enclosed conduit assembly
Y10S 165/401	. . . including tube support or shell-side flow director
Y10S 165/402	. . . . Manifold for shell-side fluid
Y10S 165/403	. . . . Preheater for shell-side fluid for preventing thermal shock to tube sheet
Y10S 165/404	. . . . Serially connected separate shells
Y10S 165/405	. . . . Extending in a longitudinal direction
Y10S 165/406	. . . . . Helically or spirally shaped
Y10S 165/407	. . . . . internal casing or tube sleeve
Y10S 165/408	. . . . . . Tube sleeve
Y10S 165/409	. . . . . . including transverse element, e.g. fin, baffle
Y10S 165/41	. . . . . . . Movable internal casing connecting to transverse element
Y10S 165/411	. . . . . . Connecting to shell by specific structure
Y10S 165/412	. . . . . . including transverse element, e.g. fin, baffle
Y10S 165/413	. . . . . . for directing flow along the length of tube
Y10S 165/414	. . . . . . for supporting coil tubes
Y10S 165/415	. . . . . . including perforations
Y10S 165/416	. . . . . Extending transverse of shell, e.g. fin, baffle
Y10S 165/417	. . . . . including spacer or support for transverse tube support or shell-side flow director
Y10S 165/418	. . . . . . Tubular spacer sleeve
Y10S 165/419	. . . . . . Spacer or support connected to shell
Y10S 165/42	. . . . . Segmented plate
Y10S 165/421	. . . . . Disc and donut plates

Y10S 165/422	. . . . .	Unitary tube support or shell-side flow director carried by single tube
Y10S 165/423	. . . . .	Bar
Y10S 165/424	. . . . .	forming grid structure
Y10S 165/425	. . . . .	having ends connected to ring element
Y10S 165/426	. . . . .	Clamped tube spacer or support
Y10S 165/427	. . . . .	Manifold for tube-side fluid, i.e. parallel
Y10S 165/428	. . . . .	including flow director in manifold
Y10S 165/429	. . . . .	Line-connected conduit assemblies
Y10S 165/43	. . . . .	Manifolds connected in parallel, e.g. multi-stage
Y10S 165/431	. . . . .	Manifolds connected in series
Y10S 165/432	. . . . .	including a tube sheet
Y10S 165/433	. . . . .	Tubes-tubesheet connection
Y10S 165/434	. . . . .	Plural strips forming tubesheet
Y10S 165/435	. . . . .	Plural bonded conduit end portions, i.e. tubesheet not needed
Y10S 165/436	. . . . .	Bent conduit assemblies
Y10S 165/437	. . . . .	Coiled
Y10S 165/438	. . . . .	Helical
Y10S 165/439	. . . . .	Serially connected conduit assemblies, i.e. no manifold
Y10S 165/44	. . . . .	Coiled conduit assemblies
Y10S 165/441	. . . . .	Helical
Y10S 165/442	. . . . .	Conduits
Y10S 165/443	. . . . .	Adjacent conduits with transverse air passages, e.g. radiator core type
Y10S 165/444	. . . . .	including transversely stacked fin sheets
Y10S 165/445	. . . . .	including transverse corrugated fin sheets
Y10S 165/446	. . . . .	including intermediate sheet between adjacent tubes forming air fin passages
Y10S 165/447	. . . . .	Corrugated sheet
Y10S 165/448	. . . . .	Air conduits, e.g. radiator core type
Y10S 165/449	. . . . .	Vertically stacked conduits
Y10S 165/45	. . . . .	including integral abutting or interlocking elements
Y10S 165/451	. . . . .	including bent conduits
Y10S 165/452	. . . . .	including fins
Y10S 165/453	. . . . .	Plural elements arranged to form a fluid passage
Y10S 165/454	. . . . .	having side-by-side conduits structure or conduit section
Y10S 165/455	. . . . .	Readily detachable tubes having ends with distinct fluid coupling members engaging corresponding coupling members on manifold
Y10S 165/456	. . . . .	Readily and independently detachable sections
Y10S 165/457	. . . . .	Individual manifolds for each section
Y10S 165/458	. . . . .	Self-contained sections hydraulically connected in series

- Y10S 165/459 . . Strips with shaped, interfitted edges form heat exchanger core with plural passages
- Y10S 165/46 . . . with spacers interposed between adjacent passages
- Y10S 165/461 . . Plate fins formed with tubular projections which join with projections of adjacent plates to form parallel conduits
- Y10S 165/462 . . . Tapering, nested projections
- Y10S 165/463 . . . . Conduits oblong in cross section
- Y10S 165/464 . . Conduits formed by joined pairs of matched plates
- Y10S 165/465 . . . Manifold space formed in end portions of plates
- Y10S 165/466 . . . . Manifold spaces provided at one end only
- Y10S 165/467 . . . with turbulence enhancing pattern embossed on joined plates
- Y10S 165/468 . . Core formed by stack tubular members with abutting edges
- Y10S 165/469 . . Reinforcing rod or strip extends across parallel fin edges
- Y10S 165/47 . . Tensioning member within manifold
- Y10S 165/471 . . Plural parallel conduits joined by manifold
- Y10S 165/472 . . . U-shaped conduits connected to side-by-side manifolds
- Y10S 165/473 . . . with clamping member at joint between header plate and header tank
- Y10S 165/474 . . . . with compressible seal at joint
- Y10S 165/475 . . . . Header plate and tank of dissimilar materials
- Y10S 165/476 . . . Fusion joint, e.g. solder, braze between tube plate and header tank
- Y10S 165/477 . . . Elastic seal element between conduit ends and receiving holes in header plate
- Y10S 165/478 . . . Separate means employed for mechanical attachment and hydraulic seal of conduit ends to header plate
- Y10S 165/479 . . . Tubes joined to tube plate with adhesive, e.g. glue or braze compound
- Y10S 165/48 . . . Elongated support members extending between spaced manifolds
- Y10S 165/481 . . . Partitions in manifold define serial flow pattern for conduits/conduit groups
- Y10S 165/482 . . . . Partitions are separate members
- Y10S 165/483 . . . Flow deflecting/retarding means in header for even distribution of fluid to plural tubes
- Y10S 165/484 . . . . Orifices mounted at conduit ends
- Y10S 165/485 . . . Unitary, i.e. one-piece header structure
- Y10S 165/486 . . . Corrugated fins disposed between adjacent conduits
- Y10S 165/487 . . . . Louvered
- Y10S 165/488 . . . Header is rounded in cross section, e.g. circular, oval
- Y10S 165/489 . . . Two piece header structure
- Y10S 165/49 . . . Noncircular tube cross section, e.g. oval, triangular
- Y10S 165/491 . . . Manifolds formed in core-enclosing frame
- Y10S 165/492 . . Plural conduits with ends connected to tube plate
- Y10S 165/493 . . . Welded or fused joint between conduit end and plate
- Y10S 165/494 . . . Conduit end deformed, e.g. expanded to affix to plate



- Y10S 165/495 . . Single unitary conduit structure bent to form flow path with side-by-side sections
- Y10S 165/496 . . . Spiral or helical coil
- Y10S 165/497 . . . Serpentine flow path with straight side-by-side sections
- Y10S 165/498 . . . . Fin assembly extends across side-by-side sections
- Y10S 165/499 . . with parallel tubes or tube sections having ends joined to opposed frame members
- Y10S 165/50 . . Side-by-side conduits with fins
- Y10S 165/501 . . . Plate fins penetrated by plural conduits
- Y10S 165/502 . . . . Lanced
- Y10S 165/503 . . . . . Angled louvers
- Y10S 165/504 . . . . Contoured fin surface
- Y10S 165/505 . . . Corrugated strips disposed between adjacent conduits
- Y10S 165/506 . . Side-by-side conduits with means, e.g. support grid holding them in spaced relation
- Y10S 165/507 . . Straight side-by-side conduits joined for flow of one fluid
- Y10S 165/508 . . . Side-by-side conduits penetrate parallel plate-type fins
- Y10S 165/509 . . . Side-by-side conduits lie in common plane
- Y10S 165/51 . . having heat exchange surface treatment, adjunct or enhancement
- Y10S 165/511 . . Polished heat transfer surface
- Y10S 165/512 . . Coated heat transfer surface
- Y10S 165/513 . . . Corrosion resistant
- Y10S 165/514 . . . Hydrophilic/hydrophobic coating
- Y10S 165/515 . . Patterned surface, e.g. knurled, grooved
- Y10S 165/516 . . . Subsurface pockets formed
- Y10S 165/517 . . Roughened surface
- Y10S 165/518 . . Conduit with discrete fin structure
- Y10S 165/519 . . . Porous or mesh
- Y10S 165/52 . . . Internal and external
- Y10S 165/521 . . . . Pin fins penetrating conduit wall
- Y10S 165/522 . . . Transverse fins spaced along conduit
- Y10S 165/523 . . . . Separated by integral flanges engaging conduit exterior
- Y10S 165/524 . . . Longitudinally extending
- Y10S 165/525 . . . . Helical
- Y10S 165/526 . . . . . Spine or loop fins
- Y10S 165/527 . . . . Integrally formed
- Y10S 165/528 . . . Fin and conduit of diverse materials
- Y10S 165/529 . . with structure for promoting turbulence and/or breaking up laminar flow adjacent heat transfer surface
- Y10S 165/53 . . . Conduit insert
- Y10S 165/531 . . with wicking structure



- Y10S 165/532 . Heat exchange conduit structure
- Y10S 165/533 . . Composite of diverse materials
- Y10S 165/534 . . . Concentric layers
- Y10S 165/535 . . Helically formed
- Y10S 165/536 . . Noncircular cross-section
- Y10S 165/537 . . . Oblong or elliptical
- Y10S 165/538 . . with particular flow connecting structure
- Y10S 165/539 . having a heat storage mass
- Y10S 165/90 . Cooling towers
- Y10S 165/901 . Heat savers
- Y10S 165/902 . Heat storage
- Y10S 165/903 . Convection
- Y10S 165/904 . Radiation
- Y10S 165/905 . Materials of manufacture
- Y10S 165/906 . Reinforcement
- Y10S 165/907 . Porous
- Y10S 165/908 . Fluid jets
- Y10S 165/909 . Regeneration
- Y10S 165/91 . Tube pattern
- Y10S 165/911 . Vaporization
- Y10S 165/912 . Combined or convertible heat exchange modes
- Y10S 165/913 . Condensation
- Y10S 165/914 . Filming
- Y10S 165/915 . Foaming
- Y10S 165/916 . Oil cooler
- Y10S 165/917 . Pressurization and/or degassification
- Y10S 165/918 . Heated and cooled food cabinets and/or trays
- Y10S 165/919 . . Wheeled
- Y10S 165/92 . Particulate heat exchange
- Y10S 165/921 . Dew point

### **Wells**

- Y10S 166/00** **Wells**
- Y10S 166/901 . Wells in frozen terrain
- Y10S 166/902 . for inhibiting corrosion or coating

### **Farriery**

- Y10S 168/00** **Farriery**

- Y10S 168/01 . Nonmetallic
- Y10S 168/02 . Traction shape

### **Fire extinguishers**

- Y10S 169/00** **Fire extinguishers**
- Y10S 169/01 . Floats
- Y10S 169/02 . Ablative fluids
- Y10S 169/03 . Trip mechanisms

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

- Y10S 171/00** **Unearthing plants or buried objects**
- Y10S 171/01 . Peanut digger

### **Earth working**

- Y10S 172/00** **Earth working**
- Y10S 172/90 . Plant thinners

### **Tool driving or impacting**

- Y10S 173/00** **Tool driving or impacting**
- Y10S 173/01 . Operable submerged in liquid
- Y10S 173/02 . Sound muffling
- Y10S 173/03 . Lubrication
- Y10S 173/04 . Liquid operated

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

- Y10S 174/00** **Electricity: conductors and insulators**
- Y10S 174/01 . Anti-tracking
- Y10S 174/02 . Ballasts
- Y10S 174/07 . Sodium conductors, connectors
- Y10S 174/08 . Shrinkable tubes
- Y10S 174/09 . Pull-out cabinet or drawer with retractable cable
- Y10S 174/10 . Bushing with current transformers
- Y10S 174/11 . Zipper tubes
- Y10S 174/12 . Helical preforms
- Y10S 174/13 . High voltage cable, e.g. above 10kv, corona prevention
- Y10S 174/14 . . having a particular cable application, e.g. winding

Y10S 174/15	. . . in a power generation system, e.g. prime-mover dynamo, generator system
Y10S 174/16	. . . in a motive power system, e.g. electric motor control system
Y10S 174/17	. . . in an electric power conversion, regulation, or protection system
Y10S 174/18	. . . in a power distribution network
Y10S 174/19	. . . in a dynamo-electric machine
Y10S 174/20	. . . . Stator
Y10S 174/21	. . . . Rotor
Y10S 174/22	. . . . Winding per se
Y10S 174/23	. . . in a circuit breaker, relay, or switch
Y10S 174/24	. . . in an inductive device, e.g. reactor, electromagnet
Y10S 174/25	. . . . Transformer
Y10S 174/26	. . having a plural-layer insulation system
Y10S 174/27	. . . including a semiconductive layer
Y10S 174/28	. . . . Plural semiconductive layers
Y10S 174/29	. . having a semiconductive layer
Y10S 174/30	. . having insulation with a particular dimension or geometry
Y10S 174/31	. . having a shield or metallic layer
Y10S 174/32	. . having means for cooling
Y10S 174/33	. . Method of cable manufacture, assembly, repair, or splicing
Y10S 174/34	. PCB in box or housing
Y10S 174/35	. Box or housing mounted on substrate or PCB

### **Weighing scales**

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

### **Motor vehicles**

<b>Y10S 180/00</b>	<b>Motor vehicles</b>
Y10S 180/90	. Agricultural-type tractors

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

### **Acoustics**

- 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

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

- Y10S 185/00      Motors: spring, weight, or animal powered**
- Y10S 185/01 . Spring powered toys
- Y10S 185/02 . foreign digest

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

- Y10S 187/00      Elevator, industrial lift truck, or stationary lift for vehicle**
- Y10S 187/90 . Temporary construction elevator for building
- Y10S 187/901 . Control modified for use by disabled individual
- Y10S 187/902 . Control for double-decker car

### **Brakes**

- Y10S 188/00      Brakes**
- Y10S 188/01 . Panic braking
- Y10S 188/02 . Hill holder
- Y10S 188/03 . Progressive braking

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

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

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

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

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

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

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

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

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

- Y10S 198/95      . Conveyor transverses wall aperture
- Y10S 198/951      . Turning cigarettes end-for-end
- Y10S 198/952      . Heating or cooling
- Y10S 198/953      . Coil spring untangling apparatus
- Y10S 198/954      . Overflow
- Y10S 198/955      . Air manifold

- Y10S 198/956 . Impact plates
- Y10S 198/957 . Conveyor material
- Y10S 198/958 . Load units counter
- Y10S 198/959 . Weighing

### **Electricity: circuit makers and breakers**

- | <b>Y10S 200/00</b> | <b>Electricity: circuit makers and breakers</b>      |
|--------------------|--|
| Y10S 200/02        | . Body attached switches                             |
| Y10S 200/03        | . Coin operated                                      |
| Y10S 200/04        | . High potential type insulation                     |
| Y10S 200/05        | . Fluid pressure: fluid amplifier                    |
| Y10S 200/06        | . Tie bar  |
| Y10S 200/07        | . Molded drum  |
| Y10S 200/08        | . Disturbance  |
| Y10S 200/09        | . Momentum   |
| Y10S 200/10        | . Curb, bumper and fender                            |
| Y10S 200/11        | . Web or thread actuated                             |
| Y10S 200/12        | . Burglar screens                                    |
| Y10S 200/13        | . Shaft bearing and armature wear indicator switches |
| Y10S 200/14        | . Rail or leak indicator                             |
| Y10S 200/15        | . Bin alarm  |
| Y10S 200/16        | . Gas detector                                       |
| Y10S 200/17        | . Gas engine and motor vehicle                       |
| Y10S 200/18        | . Gravity  |
| Y10S 200/19        | . Gyroscope  |
| Y10S 200/20        | . Sound and vibration operated                       |
| Y10S 200/21        | . Pencil, counter or dispenser operated              |
| Y10S 200/22        | . Strain relief, shear pin                           |
| Y10S 200/23        | . Game   |
| Y10S 200/24        | . Plug holder  |
| Y10S 200/26        | . Slack cable operated                               |
| Y10S 200/27        | . Thermal magnetic snap                              |
| Y10S 200/28        | . Thermal spring snap                                |
| Y10S 200/29        | . Ball   |
| Y10S 200/30        | . Fluid conductor                                    |
| Y10S 200/31        | . Fluid flow   |
| Y10S 200/32        | . Speed responsive                                   |
| Y10S 200/33        | . Speed synchronizing switch                         |
| Y10S 200/34        | . Recording and reproducing                          |

- Y10S 200/35 . Weight operated tread/treadless switch
- Y10S 200/36 . Light operated switches
- Y10S 200/37 . Hose
- Y10S 200/38 . Money till drawer operated
- Y10S 200/39 . Motor vehicle-steering column
- Y10S 200/40 . Moisture
- Y10S 200/41 . Liquid contact
- Y10S 200/42 . Contact welding considerations
- Y10S 200/43 . Fluid-operated matrix switches
- Y10S 200/44 . Lubrication-periodic switches
- Y10S 200/46 . Separators and/or insulators for stacked leaf spring contacts
- Y10S 200/47 . Light guides for switch indicators, e.g. prisms, reflectors or cables

**Distillation: processes, thermolytic**

- Y10S 201/00** **Distillation: processes, thermolytic**
- Y10S 201/42 . Particle size
- Y10S 201/43 . An extraneous, cyclically circulated, inert heating gas
- Y10S 201/44 . Plural distinct temperature stages
- Y10S 201/45 . Distillate treatment or conservation

**Distillation: apparatus**

- Y10S 202/00** **Distillation: apparatus**
- Y10S 202/01 . Scale problems digest

**Distillation: processes, separatory**

- Y10S 203/00** **Distillation: processes, separatory**
- Y10S 203/01 . Solar still
- Y10S 203/02 . Laboratory distillation
- Y10S 203/03 . Acrylonitrile
- Y10S 203/04 . Heat pump
- Y10S 203/05 . Human waste
- Y10S 203/06 . Reactor-distillation
- Y10S 203/07 . Start up or shut down
- Y10S 203/08 . Waste heat
- Y10S 203/09 . Plural feed
- Y10S 203/10 . Vinyl acetate
- Y10S 203/11 . Batch distillation
- Y10S 203/13 . Spirits

- Y10S 203/14 . Ejector-eductor
- Y10S 203/16 . Combination
- Y10S 203/17 . Saline water conversion
- Y10S 203/18 . Control
- Y10S 203/19 . Sidestream
- Y10S 203/20 . Power plant
- Y10S 203/21 . Acrylic acid or ester
- Y10S 203/22 . Accessories
- Y10S 203/23 . Methanol
- Y10S 203/24 . Mobile, marine distiller
- Y10S 203/25 . Non-distilling bottoms treatment
- Y10S 203/90 . Particular type of heating

### **Chemistry: electrical and wave energy**

- |                    |  |
|--------------------|--|
| <b>Y10S 204/00</b> | <b>Chemistry: electrical and wave energy</b>   |
| Y10S 204/03        | . Auxiliary internally generated electrical energy   |
| Y10S 204/04        | . Electrolysis cell combined with fuel cell  |
| Y10S 204/05        | . Magnetic plus electrolytic   |
| Y10S 204/06        | . Unusual non-204 uses of electrolysis   |
| Y10S 204/07        | . Current distribution within the bath   |
| Y10S 204/08        | . AC plus DC   |
| Y10S 204/09        | . Wave forms   |
| Y10S 204/12        | . Electrochemical machining  |
| Y10S 204/13        | . Purification and treatment of electroplating baths and plating wastes  |
| Y10S 204/90        | . Effecting a change in isomerization by wave energy   |
| Y10S 204/901       | . Effecting a color change by wave energy  |
| Y10S 204/902       | . Production of desired compound by wave energy in presence of a chemically designated nonreactant chemical treating agent, excluding water, chloroform, carbon tetrachloride, methylene chloride or benzene |
| Y10S 204/903       | . . Inorganic chemical treating agent  |
| Y10S 204/904       | . . . Metal treating agent   |
| Y10S 204/905       | . . . . Heavy metal agent  |
| Y10S 204/907       | . . Silicon or boron treating agent  |
| Y10S 204/908       | . . Phosphorus treating agent  |
| Y10S 204/909       | . . Heavy metal treating agent   |
| Y10S 204/91        | . . Sulfur treating agent  |
| Y10S 204/911       | . . Nitrogen treating agent  |
| Y10S 204/912       | . . Oxygen treating agent  |
| Y10S 204/913       | . . . Peroxide agent   |
| Y10S 204/914       | . . Only carbon, hydrogen or halogen atom in treating agent  |



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

- Y10S 205/915 . Electrolytic deposition of semiconductor
- Y10S 205/916 . Sequential electrolytic and nonelectrolytic, or nonelectrolytic and electrolytic coating from the same bath
- Y10S 205/917 . Treatment of workpiece between coating steps
- Y10S 205/918 . Use of wave energy or electrical discharge during pretreatment of substrate or post-treatment of coating
- Y10S 205/919 . Waterproofing
- Y10S 205/92 . Electrolytic coating of circuit board or printed circuit, other than selected area coating
- Y10S 205/921 . Electrolytic coating of printing member, other than selected area coating
- Y10S 205/922 . Electrolytic coating of magnetic storage medium, other than selected area coating
- Y10S 205/923 . Solar collector or absorber
- Y10S 205/924 . Electrolytic coating substrate predominantly comprised of specified synthetic resin
- Y10S 205/925 . . Synthetic resin is electrically conductive
- Y10S 205/926 . . Polyamide or polyimide, e.g. nylon
- Y10S 205/927 . . Polyolefin, e.g. polyethylene, polypropylene
- Y10S 205/928 . . ABS copolymer

**Special receptacle or package****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

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

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

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

- |                    |  |
|--------------------|--|
| <b>Y10S 209/00</b> | <b>Classifying, separating, and assorting solids</b>         |
| Y10S 209/90        | . Sorting flat-type mail                                     |
| Y10S 209/901       | . Froth flotation; copper                                    |
| Y10S 209/902       | . Froth flotation; phosphate                                 |
| Y10S 209/903       | . Feeder conveyor having opposed grippers                    |
| Y10S 209/904       | . Feeder conveyor holding item by magnetic attraction        |
| Y10S 209/905       | . Feeder conveyor holding item by suction                    |
| Y10S 209/906       | . Pneumatic or liquid stream feeding item                    |
| Y10S 209/907       | . Magnetic feeder  |
| Y10S 209/908       | . Item fed by free fall                                      |
| Y10S 209/909       | . Item holding feed magazine insertable in sorting apparatus |
| Y10S 209/91        | . Feed hopper  |

- Y10S 209/911 . Feed means supporting or guiding item moving under influence of gravity
- Y10S 209/912 . Endless feed conveyor with means for holding each item individually
- Y10S 209/913 . Screw feed conveyor
- Y10S 209/914 . Diverse sequential feeding steps
- Y10S 209/915 . Centrifugal feeder
- Y10S 209/916 . Reciprocating pusher feeding item
- Y10S 209/917 . Endless belt pusher feeding item
- Y10S 209/918 . Swinging or rotating pusher feeding item
- Y10S 209/919 . Rotary feed conveyor
- Y10S 209/92 . Vibratory feed conveyor
- Y10S 209/921 . Reciprocating or oscillating feed conveyor
- Y10S 209/922 . Miscellaneous feed conveyors
- Y10S 209/923 . Feed through including at least one endless conveyor
- Y10S 209/924 . Gravity conveyor moving item from separating station
- Y10S 209/925 . Driven or fluid conveyor moving item from separating station
- Y10S 209/926 . Silverware sorter
- Y10S 209/927 . Cop sorter
- Y10S 209/928 . Container closure sorter
- Y10S 209/929 . Fastener sorter
- Y10S 209/93 . Municipal solid waste sorting
- Y10S 209/931 . Materials of construction
- Y10S 209/932 . Fluid applied to items
- Y10S 209/933 . Accumulation receiving separated items
- Y10S 209/934 . Moving items to sorting means in spaced relation lengthwise of feed path
- Y10S 209/935 . Ambulant
- Y10S 209/936 . Plural items tested as group
- Y10S 209/937 . Laundry sorting
- Y10S 209/938 . Illuminating means facilitating visual inspection
- Y10S 209/939 . Video scanning
- Y10S 209/94 . Noncondition-responsive sorting by contour
- Y10S 209/941 . Item carrying bridge raisable to expose discharge opening
- Y10S 209/942 . Operator selects destination of item

**Liquid purification or separation**

- |                    |  |
|--------------------|--|
| <b>Y10S 210/00</b> | <b>Liquid purification or separation</b> |
| Y10S 210/03        | . Belt alignment                         |
| Y10S 210/05        | . Coalescer                              |
| Y10S 210/06        | . Dehydrators                            |
| Y10S 210/07        | . Drier blocks                           |

Y10S 210/08	. Fat fryer
Y10S 210/09	. Floating cover
Y10S 210/13	. Part flow-full flow
Y10S 210/17	. Twist-on
Y10S 210/90	. Ultra pure water, e.g. conductivity water
Y10S 210/901	. Specified land fill feature, e.g. prevention of ground water fouling
Y10S 210/902	. Materials removed
Y10S 210/903	. . Nitrogenous
Y10S 210/904	. . . -CN containing
Y10S 210/905	. . . Protein
Y10S 210/906	. . Phosphorus containing
Y10S 210/907	. . . Phosphate slimes
Y10S 210/908	. . Organic
Y10S 210/909	. . . Aromatic compound, e.g. pcb, phenol
Y10S 210/91	. . . Nonbiodegradable surfacant
Y10S 210/911	. . Cumulative poison
Y10S 210/912	. . . Heavy metal
Y10S 210/913	. . . . Chromium
Y10S 210/914	. . . . Mercury
Y10S 210/915	. . Fluorine containing
Y10S 210/916	. . Odor, e.g. including control or abatement
Y10S 210/917	. . Color
Y10S 210/918	. Miscellaneous specific techniques
Y10S 210/919	. . using combined systems by merging parallel diverse waste systems
Y10S 210/92	. . using combined systems of sequential local and regional or municipal sewage systems
Y10S 210/921	. . Flow equalization or time controlled stages or cycles
Y10S 210/922	. . Oil spill cleanup, e.g. bacterial
Y10S 210/923	. . . using mechanical means, e.g. skimmers, pump
Y10S 210/924	. . . using physical agent, e.g. sponge, mop
Y10S 210/925	. . . using chemical agent
Y10S 210/926	. . using oxidation ditch, e.g. carousel
Y10S 210/928	. Paper mill waste, e.g. white water, black liquor treated
Y10S 210/929	. Hemoultrafiltrate volume measurement or control processes
Y10S 210/93	. Paint detackifying
Y10S 210/931	. Zebra mussel mitigation or treatment

**Supports: racks**

**Y10S 211/00**      **Supports: racks**

- Y10S 211/01 . Magnetic article holder

### **Traversing hoists**

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

- Y10S 212/901 . Dolly-type cranes

### **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

### **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

### **Article dispensing**

- Y10S 221/00** **Article dispensing**
- Y10S 221/01 . Storage retrieval

### **Dispensing**

- Y10S 222/00** **Dispensing**
- Y10S 222/01 . Xerography

### **Apparel apparatus**

- Y10S 223/00** **Apparel apparatus**
- Y10S 223/01 . Tie hanger
- Y10S 223/02 . Holders and clamps
- Y10S 223/03 . Reversible hanger
- Y10S 223/04 . Hooks

### **Package and article carriers**

- Y10S 224/00** **Package and article carriers**
- Y10S 224/901 . Carrier component having adherent surface
- Y10S 224/9012 . . Loop and hook fastener
- Y10S 224/9014 . . . On strap
- Y10S 224/9016 . . . Closure fastener
- Y10S 224/9018 . . . Connection between support and article or receiver
- Y10S 224/902 . Battery carrier
- Y10S 224/903 . Holder for timepiece not carried on wrist
- Y10S 224/904 . Tool holder carried by belt
- Y10S 224/905 . Attaching means crossing back of pack animal
- Y10S 224/906 . Container formed of folded paperboard
- Y10S 224/907 . Rigid shield or pad positioned between article and bearer
- Y10S 224/908 . Carrier for camera or other photographic equipment
- Y10S 224/909 . Binocular carrier

- Y10S 224/91
  - . Carrier for musical instrument
- Y10S 224/911
  - . Handgun holder formed of leather, fabric, or other flexible material
- Y10S 224/912
  - . Handgun holder formed of metal or other rigid material
- Y10S 224/913
  - . Carrier for rifle or shotgun
- Y10S 224/914
  - . Carrier for handcuffs, blackjack, club, or other equipment carried by policeman
- Y10S 224/915
  - . Carrier for folded umbrella
- Y10S 224/916
  - . Carrier for bow or arrow
- Y10S 224/917
  - . Ski carrier
- Y10S 224/9175
  - . . Vehicle attached
- Y10S 224/918
  - . Carrier for golf tee or marker
- Y10S 224/919
  - . Ball carrier
- Y10S 224/92
  - . Carrier for fishing bait or lure, or fish carrier other than stringer
- Y10S 224/921
  - . Game carrier other than stringer
- Y10S 224/922
  - . Fishing rod holder
- Y10S 224/923
  - . Carrier with sleeping compartment
- Y10S 224/924
  - . Vehicle attached carrier for bicycle or motorcycle
- Y10S 224/925
  - . Carrier for grocery bag
- Y10S 224/926
  - . Vehicle attached carrier for beverage container or bottle
- Y10S 224/927
  - . Carrier for clothes hanger
- Y10S 224/928
  - . Trash receptacle
- Y10S 224/929
  - . Article carrier for electrical device
- Y10S 224/93
  - . . Attached to animate bearer
- Y10S 224/931
  - . Carrier for ammunition
- Y10S 224/932
  - . Carrier for towel or handkerchief
- Y10S 224/933
  - . Carrier for gloves
- Y10S 224/934
  - . Underwater carrier
- Y10S 224/935
  - . Carrier for cycle lock

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

- Y10S 227/00** **Elongated-member-driving apparatus**
- Y10S 227/901
  - . Surgical clip appliers
- Y10S 227/902
  - . Surgical clips or staples

### **Metal fusion bonding**

- Y10S 228/00** **Metal fusion bonding**
- Y10S 228/901
  - . Process of bonding batteries
- Y10S 228/902
  - . using flame
- Y10S 228/903
  - . Metal to nonmetal



Y10S 228/904 . Wire bonding

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

#### **Y10S 229/00**

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

- Y10S 229/90 . including means to facilitate handling by a mechanical apparatus during manufacturing or filling
- Y10S 229/901 . Box structure alternatively useable as a container or a lid
- Y10S 229/902 . Box for prepared or processed food
- Y10S 229/903 . . Ovenable, i.e. disclosed to be placed in an oven
- Y10S 229/904 . . Compartmented fast food holder or lap tray
- Y10S 229/9041 . . Candy
- Y10S 229/905 . . Frozen food
- Y10S 229/906 . . Baked goods
- Y10S 229/9061 . Cup lid with means for forming a drinking opening
- Y10S 229/907 . Trash box
- Y10S 229/908 . Paint tray
- Y10S 229/909 . Cigar box
- Y10S 229/91 . Bucket or pail type, i.e. liquid proof container with handle
- Y10S 229/911 . . with closure
- Y10S 229/912 . . . Separate element
- Y10S 229/913 . Drawer-type
- Y10S 229/914 . Basket-type with handle
- Y10S 229/915 . Stacking feature
- Y10S 229/9151 . . Gable-top box
- Y10S 229/916 . . Means for ventilating while stacked
- Y10S 229/917 . . Stacking of collapsed container or blank
- Y10S 229/918 . . Corner construction
- Y10S 229/919 . . Reinforced wall
- Y10S 229/92 . Stress relief
- Y10S 229/921 . with mailing indicia
- Y10S 229/922 . with decorative feature
- Y10S 229/923 . . Gift wrapped
- Y10S 229/924 . Means to facilitate gripping a tear strip
- Y10S 229/925 . . Finger opening, e.g. slit, aperture
- Y10S 229/926 . . Pull tab located in a seam
- Y10S 229/927 . Means for tearing or breaking rigid or semirigid thermoplastic container
- Y10S 229/928 . Expandable envelope
- Y10S 229/929 . Vented envelope
- Y10S 229/93 . Fold detail

- Y10S 229/931 . . Fold includes slit or aperture
- Y10S 229/932 . Ice cream cone carrier
- Y10S 229/933 . Mating container blanks
- Y10S 229/934 . . Compartmented bottle carrier
- Y10S 229/935 . . No waste, i.e. edge-to-edge blanks
- Y10S 229/936 . . Three or more blanks with alternating orientations
- Y10S 229/937 . . Plural blanks for making a single container
- Y10S 229/938 . Sandwich holder
- Y10S 229/939 . Container made of corrugated paper or corrugated paperboard
- Y10S 229/94 . Container material with specified grain direction
- Y10S 229/941 . Box having joint structure for preventing leakage
- Y10S 229/942 . Nonreusable box having means to facilitate collapsing or disassembling for disposal or for recycling of the box material, e.g. "knockdown" type

### **Selective cutting, e.g. punching**

- Y10S 234/00**      **Selective cutting, e.g. punching**
- Y10S 234/01 . Fluid and photoelectric control

### **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

### **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

### **Heating systems**

#### **Y10S 237/00 Heating systems**

- Y10S 237/01 . Inert gas

### **Railways: surface track**

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

- Y10S 238/01 . Track structure assembled by gluing

### **Fluid sprinkling, spraying, and diffusing**

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

- Y10S 239/01 . Pattern sprinkler
- Y10S 239/02 . Scarfing torches
- Y10S 239/03 . Fluid amplifier
- Y10S 239/04 . O-ring
- Y10S 239/05 . Ball agitators
- Y10S 239/06 . Lawn mower
- Y10S 239/07 . Coanda
- Y10S 239/08 . Cutter sprayer
- Y10S 239/09 . Slide fastener
- Y10S 239/10 . Carbon dioxide bulb
- Y10S 239/11 . Magnets
- Y10S 239/12 . Flexible outlets
- Y10S 239/13 . Soot blowers and tube cleaners
- Y10S 239/14 . Paint sprayers
- Y10S 239/15 . Sprinkler systems with controls
- Y10S 239/17 . Low volume
- Y10S 239/19 . Nozzle materials
- Y10S 239/21 . Air blast
- Y10S 239/22 . Safety air nozzles
- Y10S 239/23 . Screens
- Y10S 239/90 . Electromagnetically actuated fuel injector having ball and seat type valve

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

- Y10S 241/10 . Foundry sand treatment
- Y10S 241/14 . Grinding in inert, controlled atmosphere
- Y10S 241/17 . Ice crushers
- Y10S 241/27 . Pill or tablet crushers
- Y10S 241/30 . Rubber elements in mills
- Y10S 241/31 . Rubber preparation
- Y10S 241/37 . Cryogenic cooling
- Y10S 241/38 . Solid waste disposal
- Y10S 241/60 . Furnace stokers
- Y10S 241/601 . Sand mullers
- Y10S 241/602 . Soap dispensers
- Y10S 241/603 . Animal powered mill
- Y10S 241/604 . Plural inlets for diverse solid materials
- Y10S 241/605 . Hay unbaler
- Y10S 241/606 . Medical/surgical waste comminution

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

### **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

### **Railway switches and signals**

#### **Y10S 246/00**

#### **Railway switches and signals**

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

### **Supports**

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

#### **Supports**

- Y10S 248/90 . Movable or disengageable on impact or overload
- Y10S 248/901 . Support having temperature or pressure responsive feature
- Y10S 248/902 . Eyeglasses holder
- Y10S 248/903 . Support reinforcement
- Y10S 248/904 . Indicator mount
- Y10S 248/905 . Tissue dispenser mount
- Y10S 248/906 . Electrical outlet box support
- Y10S 248/907 . Trash container support
- Y10S 248/908 . Simulation of diverse device
- Y10S 248/909 . Frangible component, e.g. having a score line or groove
- Y10S 248/91 . Weighted base
- Y10S 248/911 . Plural, selectively usable, support engaging means
- Y10S 248/912 . Plural, selectively usable, article engaging means
- Y10S 248/913 . Two axis article engaging means, e.g. x - y device

- Y10S 248/914 . Handbag holder
- Y10S 248/915 . with ornamentation
- Y10S 248/916 . Mechanical expedients, e.g. in supports
- Y10S 248/917 . Video display screen support
- Y10S 248/918 . . Ancillary device support associated with a video display screen
- Y10S 248/919 . . Adjustably orientable video screen support
- Y10S 248/92 . . . Angular and linear video display screen support adjustment
- Y10S 248/921 . . . Plural angular
- Y10S 248/922 . . . Angular
- Y10S 248/923 . . . . Tilting
- Y10S 248/924 . . Adjustable size
- Y10S 248/925 . Mountain climbing aids, e.g. pitons etc.

### **Static molds**

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

#### **Static molds**

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

### **Radiant energy**

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

#### **Radiant energy**

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

**Valves and valve actuation****Y10S 251/00****Valves and valve actuation**

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

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

**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

## **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

## **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

### **Chemistry of carbon compounds**

- |                    |  |
|--------------------|--|
| <b>Y10S 260/00</b> | <b>Chemistry of carbon compounds</b>   |
| Y10S 260/14        | . Soil treatment digest, polyelectrolytes  |
| Y10S 260/15        | . Antistatic agents not otherwise provided for   |
| Y10S 260/16        | . . Antistatic agents containing a metal, silicon, boron or phosphorus   |
| Y10S 260/17        | . . High polymeric, resinous, antistatic agents  |
| Y10S 260/18        | . . . High polymeric, resinous, antistatic agents containing pentavalent nitrogen                                    |
| Y10S 260/19        | . . Non-high polymeric antistatic agents/n   |
| Y10S 260/20        | . . . Antistatic agent contains pentavalent nitrogen   |
| Y10S 260/21        | . Polymer chemically or physically modified to impart antistatic properties and methods of antistatic agent addition |
| Y10S 260/22        | . Concentration  |
| Y10S 260/23        | . Fiber  |
| Y10S 260/24        | . Flameproof   |
| Y10S 260/25        | . Metal catalyst   |
| Y10S 260/26        | . Multicolor   |

Y10S 260/27	. Nomenclature
Y10S 260/28	. Peroxide
Y10S 260/30	. Properties
Y10S 260/31	. Ionic cross-link
Y10S 260/32	. Incompatible blend
Y10S 260/33	. Molecular sieve
Y10S 260/34	. Hydantoin
Y10S 260/35	. Crystallization
Y10S 260/37	. Closure
Y10S 260/38	. Ink
Y10S 260/41	. Glass flake
Y10S 260/42	. Melts used in preparation of non-cyclic aliphatic chloro-, bromo- and iodo-hydrocarbons
Y10S 260/43	. Promoting degradability of polymers
Y10S 260/44	. Beta branched fatty acid
Y10S 260/45	. Polymer dispersions
Y10S 260/46	. Vibration dampening composition
Y10S 260/47	. Poisons, foods, or pharmaceuticals
Y10S 260/99811	. Dental
Y10S 260/99812	. Ablative
Y10S 260/99813	. Brake, friction or anti-skid
Y10S 260/99814	. Ball, bat, pin or billy
Y10S 260/99815	. Floor covering
Y10S 260/99816	. Sound record
Y10S 260/99817	. Pearlescent
Y10S 260/99818	. Mold or mold coating
Y10S 260/99819	. Road marking or pavement compositions, non-cementitious, non bituminous
Y10S 260/9982	. Dipeptides, e.g. aspartame, anserine or carnosine
Y10S 260/99821	. . Aspartylphenylalanone esters and cyclohexylalanine esters
Y10S 260/99822	. . Arginine containing

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

<b>Y10S 261/00</b>	<b>Gas and liquid contact apparatus</b>
Y10S 261/01	. Auxiliary air inlet carburetors
Y10S 261/02	. Airplane
Y10S 261/03	. Air cooling
Y10S 261/04	. Auto humidifiers
Y10S 261/06	. Backfire
Y10S 261/07	. Carbonators

Y10S 261/08	. Carburetor primers
Y10S 261/09	. Furnace gas scrubbers
Y10S 261/10	. Steam heaters and condensers
Y10S 261/11	. Cooling towers
Y10S 261/12	. Carburetor venturi
Y10S 261/13	. Desuperheaters
Y10S 261/14	. Display stands
Y10S 261/15	. Duct humidifiers
Y10S 261/16	. Cream whipping
Y10S 261/17	. Odorizers
Y10S 261/18	. Dashpots
Y10S 261/19	. Degassers
Y10S 261/20	. Deicers for carburetors
Y10S 261/21	. Drawing excess fuel from carbureting passage
Y10S 261/22	. Faucet aerators
Y10S 261/23	. Fuel feeding valves
Y10S 261/24	. Fuel feeding valve retaining
Y10S 261/25	. Fuel spread out into a film
Y10S 261/26	. Foam
Y10S 261/27	. Gas circulated in circuit
Y10S 261/28	. Blood oxygenators
Y10S 261/29	. Heaters submerged in liquid
Y10S 261/30	. Tray heaters
Y10S 261/31	. Heaters
Y10S 261/32	. Heaters and condensers
Y10S 261/33	. Heaters, spray
Y10S 261/34	. Automatic humidity regulation
Y10S 261/35	. Air line lubricators
Y10S 261/36	. Carburetor manifolds
Y10S 261/37	. Modern pumps diaphragm
Y10S 261/38	. Needle valves
Y10S 261/39	. Liquid feeding nozzles
Y10S 261/40	. Oil filter for fuel entering nozzles or float chamber
Y10S 261/41	. Pad retaining means in humidifiers and air conditioners
Y10S 261/42	. Ozonizers
Y10S 261/43	. Air coolers
Y10S 261/44	. Overflow trough
Y10S 261/45	. Processes carburetors
Y10S 261/46	. Residue prevention in humidifiers and air conditioners
Y10S 261/47	. Swing diffusers

- Y10S 261/48 . Sonic vibrators
- Y10S 261/49 . Suction operated feed valve
- Y10S 261/50 . Surge prevention in carburetors
- Y10S 261/51 . Carburetors with supercharging blowers
- Y10S 261/52 . Carburetor with valves
- Y10S 261/53 . Valve actuation
- Y10S 261/54 . Venturi scrubbers
- Y10S 261/55 . Reatomizers
- Y10S 261/56 . Variable venturi
- Y10S 261/57 . Interchangeable 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

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

- | <b>Y10S 264/00</b> | <b>Plastic and nonmetallic article shaping or treating: processes</b>         |
|--------------------|---|
| Y10S 264/01        | . Methods of blow-molding cellular containers                                 |
| Y10S 264/02        | . Molding cellular aldehyde resins  |
| Y10S 264/03        | . Molding cellular pvc-isocyanate resins                                      |
| Y10S 264/04        | . Molding and forming bendable and flexible product from rigid preform        |
| Y10S 264/05        | . Use of one or more blowing agents together                                  |
| Y10S 264/06        | . Molding microballoons and binder  |
| Y10S 264/07        | . Binding and molding cellular particles                                      |
| Y10S 264/08        | . Fibrillating cellular materials   |
| Y10S 264/09        | . Pre-expansion of foamed polystyrene   |
| Y10S 264/10        | . Foamed polystyrene mold filling   |
| Y10S 264/11        | . Molding styropor using steam probes-batch                                   |
| Y10S 264/12        | . Molding styropor using steam probes continuous                              |
| Y10S 264/13        | . Cell size and distribution control while molding a foam                     |
| Y10S 264/14        | . forming integral skin on a foamed product                                   |
| Y10S 264/15        | . Aging of foamed resin products  |
| Y10S 264/16        | . Molding foamed polypropylen articles  |
| Y10S 264/17        | . Molding a foam containing a filler  |
| Y10S 264/18        | . Cross-linking a thermoplastic linear foam during molding                    |
| Y10S 264/19        | . Inorganic fiber   |
| Y10S 264/20        | . Tar bonded  |
| Y10S 264/25        | . Metallic oxide  |
| Y10S 264/26        | . Composite fibers made of two or more materials                              |
| Y10S 264/27        | . Process of spinning viscose where viscose has high degree of polymerization |
| Y10S 264/28        | . Stretching filaments in gas or steam  |
| Y10S 264/29        | . Mixed resin filaments   |
| Y10S 264/30        | . Use of anatomy in making a mold or using said mold                          |
| Y10S 264/31        | . Processes of making tile and tile-like surfaces                             |
| Y10S 264/32        | . Processes in molding using asbestos or asphalt                              |
| Y10S 264/33        | . Blow-molding articles of nonuniform thickness                               |
| Y10S 264/34        | . Processes and molds for making buttons                                      |
| Y10S 264/35        | . Use of CaO with refractories  |
| Y10S 264/36        | . Processes of making metal-ceramics  |
| Y10S 264/37        | . Processes and molds for making capsules                                     |
| Y10S 264/38        | . Making film or tubes from casein  |

- Y10S 264/39 . Treatment of clay before and after molding
- Y10S 264/40 . Processes of coiling plastics
- Y10S 264/41 . Processes of molding collapsible tubes
- Y10S 264/42 . Processes of molding involving cross linking
- Y10S 264/43 . Processes of curing clay and concrete materials
- Y10S 264/44 . using destructible molds or cores in molding processes
- Y10S 264/45 . Molding using an electrical force
- Y10S 264/46 . Molding using an electrical heat
- Y10S 264/47 . Processes of splitting film, webs or sheets
- Y10S 264/48 . Processes of making filters
- Y10S 264/49 . Processes of using fly ash
- Y10S 264/50 . Use of fluid pressure in molding
- Y10S 264/51 . Use of fluidized bed in molding
- Y10S 264/52 . Processes of making corrugated tubes for gas mask
- Y10S 264/53 . Processes of using glass filter in molding process
- Y10S 264/54 . Processes in making insulators
- Y10S 264/55 . Processes for making jewelry
- Y10S 264/56 . Processes of molding lactams
- Y10S 264/57 . Processes of forming layered products
- Y10S 264/58 . Processes of forming magnets
- Y10S 264/59 . Processes in which a partial cure is involved
- Y10S 264/60 . Processes of molding plastisols
- Y10S 264/61 . Processes of molding polyamide
- Y10S 264/62 . Processes of molding porous films
- Y10S 264/63 . Processes of molding porous blocks
- Y10S 264/64 . Processes of using preform in molding
- Y10S 264/65 . Processes of preheating prior to molding
- Y10S 264/66 . Processes of reshaping and reforming
- Y10S 264/67 . forming ring-like structure
- Y10S 264/68 . Roll
- Y10S 264/70 . Processes for forming screens or perforating articles
- Y10S 264/71 . Processes of shaping by shrinking
- Y10S 264/72 . Processes of molding by spraying
- Y10S 264/73 . Processes of stretching
- Y10S 264/74 . Processes of repairing tires
- Y10S 264/75 . Processes of uniting two or more fibers
- Y10S 264/76 . Processes of uniting two or more parts
- Y10S 264/77 . Processes of molding urethanes
- Y10S 264/78 . Processes of molding using vacuum
- Y10S 264/79 . Processes of molding articles of vinylidene chloride

- Y10S 264/80 . Processes of waterproofing
- Y10S 264/81 . Plastic net
- Y10S 264/82 . Embossing by foaming
- Y10S 264/83 . Injection molding of polyolefin-type foam
- Y10S 264/84 . Conversion of foamed resinous buns into foamed billets having geometrical crosssections
- Y10S 264/90 . Direct application of fluid pressure differential to shape, reshape, i.e. distort, or sustain an article or preform and heat-setting, i.e. crystallizing of stretched or molecularly oriented portion thereof
- Y10S 264/901 . . Heat-setting of stretched or molecularly oriented article formed from planar preform, e.g. sheet, film
- Y10S 264/902 . . Production of continuous length
- Y10S 264/903 . . Heat-setting and simultaneous differential heating of stretched or molecularly oriented section of article or preform
- Y10S 264/904 . . Maintaining article in fixed shape during heat-setting
- Y10S 264/905 . . having plural, distinct differential fluid pressure shaping steps
- Y10S 264/906 . . . And heat-shrinking outside of mold including subsequent re-expanding of shrunken article using differential fluid pressure
- Y10S 264/907 . Direct application of fluid pressure differential to shape, reshape, i.e. distort, or sustain an article or preform and crystallizing of nonstretched or molecularly unoriented portion thereof
- Y10S 264/908 . . Crystallizing of neck portion of hollow article or hollow preform
- Y10S 264/909 . Direct application of fluid pressure differential to stretch an article or preform and heat shrinking of stretched article or preform
- Y10S 264/91 . Sintering to produce translucent inorganic article
- Y10S 264/911 . Recycling consumer used articles or products
- Y10S 264/912 . . From toroidal shapes, e.g. resilient tires
- Y10S 264/913 . . From fiber or filament, or fiber or filament containing article or product, e.g. textile, cloth fabric, carpet, fiberboard
- Y10S 264/914 . . . From cellulose containing articles, e.g. paper
- Y10S 264/915 . . From inorganic material containing articles or products, e.g. hydro-set, cement, plaster, wire, cable
- Y10S 264/916 . . From porous material containing articles, e.g. sponge, foam
- Y10S 264/917 . . by blow molding material recycled from consumer used article or product
- Y10S 264/918 . . From hollow- or container-type articles, e.g. tubes, bottles, cups
- Y10S 264/919 . . . From pipe or tube, e.g. hose
- Y10S 264/92 . . by extruding material recycled from consumer used article or product
- Y10S 264/921 . . by injection molding material recycled from consumer used article or product

### **Metallurgical apparatus**

- Y10S 266/00 **Metallurgical apparatus**
- Y10S 266/01 . Repair or restoration of apparatus

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

**Spring devices**

- Y10S 267/00** **Spring devices**
- Y10S 267/01 . Constant height
- Y10S 267/02 . Constant height, self-pumping
- Y10S 267/03 . Spring buckle

**Work holders**

- Y10S 269/00** **Work holders**
- Y10S 269/90 . Supporting structure having work holder receiving apertures or projections
- Y10S 269/901 . Collapsible or foldable work holder supporting structure
- Y10S 269/902 . Work holder member with v-shaped notch or groove
- Y10S 269/903 . Work holder for electrical circuit assemblages or wiring systems
- Y10S 269/904 . Work holder for positioning elements of building in installed location
- Y10S 269/905 . Work holder for doors and door frames
- Y10S 269/906 . Work holder for skis
- Y10S 269/907 . Work holder for fishing flies
- Y10S 269/908 . Work holder for cathode-ray tubes
- Y10S 269/909 . Work holder for specific work
- Y10S 269/91 . Work holder for prefabricated roof truss or wall frame

**Sheet feeding or delivering**

- Y10S 271/00** **Sheet feeding or delivering**
- Y10S 271/90 . Stripper
- Y10S 271/901 . Magnetic operation
- Y10S 271/902 . Reverse direction of sheet movement
- Y10S 271/903 . Traveling wicket for stack on edge

**Amusement devices: games**

- Y10S 273/00** **Amusement devices: games**
- Y10S 273/01 . Carbonate



Y10S 273/02	. Styrene
Y10S 273/03	. Epoxy
Y10S 273/04	. Ethylene
Y10S 273/05	. Vinyl
Y10S 273/06	. Nylon
Y10S 273/07	. Glass fiber
Y10S 273/08	. Urethane
Y10S 273/09	. Ester
Y10S 273/10	. Butadiene
Y10S 273/11	. Acetal
Y10S 273/12	. Propylene
Y10S 273/13	. Artificial grass
Y10S 273/14	. Transparent
Y10S 273/15	. Cork
Y10S 273/16	. Acrylic
Y10S 273/17	. Head mounted
Y10S 273/18	. Shoe mounted
Y10S 273/19	. Waist mounted
Y10S 273/20	. Weighted balls
Y10S 273/21	. Reel
Y10S 273/22	. Ionomer
Y10S 273/23	. High modulus filaments
Y10S 273/24	. Luminescent, phosphorescent
Y10S 273/25	. Suction cups involved
Y10S 273/26	. Point counters and score indicators
Y10S 273/27	. Blind and color blind
Y10S 273/29	. Silicone
Y10S 273/30	. Hooked pile fabric fastener
Y10S 273/31	. Undulated surface

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

<b>Y10S 277/00</b>	<b>Seal for a joint or juncture</b>
Y10S 277/902	. Seal for sterling engine
Y10S 277/903	. Seal for rotating kiln or drum
Y10S 277/904	. Viscous seal
Y10S 277/905	. T-Shaped or I-shaped ring member including seal on a side
Y10S 277/906	. Seal for article of indefinite length, e.g. strip, sheet
Y10S 277/907	. Passageway in rod or shaft
Y10S 277/908	. Seal for use in rotating and reciprocating arrangement

- Y10S 277/909 . Similar sealing structures for mounting on piston and about rod
- Y10S 277/91 . O-ring seal
- Y10S 277/911 . Seal combined with nominal motion transmitting device
- Y10S 277/912 . . Spline connection
- Y10S 277/913 . Seal for fluid pressure below atmospheric, e.g. vacuum
- Y10S 277/914 . Backup seal for failure of primary seal
- Y10S 277/915 . Seal including compression set feature
- Y10S 277/916 . Seal including vibration dampening feature
- Y10S 277/917 . Seal including frangible feature
- Y10S 277/918 . Seal combined with filter or fluid separator
- Y10S 277/919 . Seal including electrical feature
- Y10S 277/92 . Seal including electromagnetic shielding feature
- Y10S 277/921 . Closure or weather strip seal
- Y10S 277/922 . Bonding or joining for manufacture of seal
- Y10S 277/923 . . Shrink-fitting for the assembly of seal
- Y10S 277/924 . Deformation, material removal, or molding for manufacture of seal
- Y10S 277/925 . Snap fit feature for mounting or assembly of seal
- Y10S 277/926 . Seal including fluid pressure equalizing or balancing feature
- Y10S 277/927 . Seal including fluid pressure differential feature
- Y10S 277/928 . Seal including pressure relief or vent feature
- Y10S 277/929 . Seal feature where change in operation or condition induces additional leakage control
- Y10S 277/93 . Seal including heating or cooling feature
- Y10S 277/931 . Seal including temperature responsive feature
- Y10S 277/932 . . Bi-metallic
- Y10S 277/933 . . Chemical reaction or physical change of state
- Y10S 277/934 . Seal swells when wet
- Y10S 277/935 . Seal made of a particular material
- Y10S 277/936 . . Composite
- Y10S 277/937 . . . Glass particles or filament
- Y10S 277/938 . . . Carbon or graphite particle or filament
- Y10S 277/939 . . Containing metal
- Y10S 277/94 . . . Alloy
- Y10S 277/941 . . . Aluminum or copper
- Y10S 277/942 . . . Silver or gold
- Y10S 277/943 . . Ceramic or glass
- Y10S 277/944 . . Elastomer or plastic
- Y10S 277/945 . . . Containing fluorine
- Y10S 277/946 . . . . PTFE

**Chucks or sockets****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

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

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

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

- Y10S 281/01 . Magnet

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

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

### **Pipe joints or couplings**

#### **Y10S 285/00**

#### **Pipe joints or couplings**

- Y10S 285/90 . Balanced pressure
- Y10S 285/901 . Cap closures
- Y10S 285/902 . Canted ring
- Y10S 285/903 . Corrugated
- Y10S 285/904 . Cryogenic
- Y10S 285/905 . Different coefficients of expansion
- Y10S 285/906 . Equivalents
- Y10S 285/907 . Electrical fixtures
- Y10S 285/908 . Extrusion holes
- Y10S 285/909 . Fluorocarbons and memory plastics
- Y10S 285/91 . Gaskets
- Y10S 285/911 . Glass
- Y10S 285/912 . Gear
- Y10S 285/913 . Interdigitating
- Y10S 285/914 . Irreversible
- Y10S 285/915 . Mastic
- Y10S 285/916 . Molecular change
- Y10S 285/917 . Metallic seals
- Y10S 285/918 . O-ring
- Y10S 285/919 . Resinous
- Y10S 285/92 . Remotely controlled
- Y10S 285/921 . Snap-fit
- Y10S 285/922 . Safety and quick release for drill pipes
- Y10S 285/923 . Specific material
- Y10S 285/924 . Vented
- Y10S 285/925 . Swells when wet

### **Closure fasteners**

#### **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

**Vehicle fenders**

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

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

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

- Y10S 296/90 . Material
- Y10S 296/90101 . . Plastic

**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

**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

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

- Y10S 305/00**      **Wheel substitutes for land vehicles**
- Y10S 305/90 . Master link

#### **Electrical transmission or interconnection systems**

- Y10S 307/00**      **Electrical transmission or interconnection systems**
- Y10S 307/01 . Data transmitted over power lines

#### **Electrical generator or motor structure**

- Y10S 310/00**      **Electrical generator or motor structure**
- Y10S 310/02 . Hysteresis rotors and motors
- Y10S 310/03 . Hall effect generators and converters
- Y10S 310/06 . Printed-circuit motors and components
- Y10S 310/80 . Piezoelectric polymers, e.g. PVDF

#### **Supports: cabinet structure**

- Y10S 312/00**      **Supports: cabinet structure**
- Y10S 312/901 . Fan-out holders for recording media
- Y10S 312/902 . Carrying case

#### **Electric lamp and discharge devices**

- Y10S 313/00**      **Electric lamp and discharge devices**
- Y10S 313/07 . Bombardment induced conductivity



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

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

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

- Y10S 318/02 . Windshield wiper controls

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

- Y10S 320/10 . Nonbattery load controls charging
- Y10S 320/11 . Prioritized supply of power or power supply compensation
- Y10S 320/12 . Precharging analysis, e.g. determining presence of battery
- Y10S 320/13 . Fault detection
- Y10S 320/14 . Battery acts as buffer
- Y10S 320/15 . Polarity control
- Y10S 320/16 . Removal of memory effect in batteries
- Y10S 320/17 . Sensing of "gassing" voltage
- Y10S 320/18 . Indicator or display
- Y10S 320/19 . . Charger status, e.g. voltmeter
- Y10S 320/20 . . Polarity
- Y10S 320/21 . . State of charge of battery
- Y10S 320/22 . Line impedance, e.g. resistor
- Y10S 320/23 . . Capacitor
- Y10S 320/24 . . Inductor
- Y10S 320/25 . Optical coupler
- Y10S 320/26 . Button or hearing aid type
- Y10S 320/27 . Transformerless
- Y10S 320/28 . Regulating transformer, e.g. high leakage, ferro-resonant
- Y10S 320/29 . Transformer having plural secondaries
- Y10S 320/30 . Plural transformers
- Y10S 320/31 . Plural rectifier systems

- Y10S 320/32 . Voltage divider having diverse elements other than merely plural resistors
- Y10S 320/33 . Aircraft or spacecraft application
- Y10S 320/34 . Robot, hybrid, recreational or emergency vehicle
- Y10S 320/35 . Home power station
- Y10S 320/36 . Distribution system, e.g. railroad lighting

#### **Electricity: single generator systems**

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

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

#### **Electricity: power supply or regulation systems**

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

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

#### **Electricity: measuring and testing**

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

- Y10S 324/80 . Divining rods

#### **Oscillators**

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

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

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

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

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

- Y10S 338/01 . Worm gear drive

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

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

**Computer graphics processing and selective visual display systems****Y10S 345/00****Computer graphics processing and selective visual display systems**

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

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

Y10S 347/90

- Data processing for electrostatic recording

**Television****Y10S 348/00****Television**

Y10S 348/901

- High speed television system

Y10S 348/902

- Photochromic

Y10S 348/903

- including side panel information in single channel

Y10S 348/904

- Separation or joining of side and center panels

Y10S 348/905

- Reproduction of a color field or frame

Y10S 348/908

- Convertible circuits, e.g. y/c separation or noise reduction

Y10S 348/909

- Noise responsive signal processing

Y10S 348/91

- Flicker reduction

Y10S 348/911

- Line doubler adapted for reproducing program originally from film, e.g. 24 frame per second

Y10S 348/912

- Differential amplitude consideration, e.g. amplitude vs. frequency

Y10S 348/913

- Letterbox, e.g. display 16:9 aspect ratio image on 4:3 screen

Y10S 348/914

- Delay for equalization

**Optics: image projectors****Y10S 353/00****Optics: image projectors**

Y10S 353/01

- Slides stacked with surface to surface contact

Y10S 353/02

- Film strip

Y10S 353/03

- Transparent

Y10S 353/04

- Opaque

Y10S 353/05

- Transparency holder accessories

Y10S 353/06

- Head accessories

**Facsimile and static presentation processing****Y10S 358/00****Facsimile and static presentation processing**

Y10S 358/9011

- Fiber optics

Y10S 358/906

- Hand-held camera with recorder in a single unit

Y10S 358/907

- Track skippers, i.e. "groove skippers"

Y10S 358/908

- Pause control, i.e. "commercial killers"

Y10S 358/9091

- Electronic still camera or scene reproducer

**Optical: systems and elements**

<b>Y10S 359/00</b>	<b>Optical: systems and elements</b>
Y10S 359/90	. Methods
Y10S 359/901	. Acoustic holography
Y10S 359/902	. Holographic interferometer
Y10S 359/903	. with magnet
Y10S 359/904	. Micro mirror

**Dynamic magnetic information storage or retrieval**

<b>Y10S 360/00</b>	<b>Dynamic magnetic information storage or retrieval</b>
Y10S 360/90	. Disk drive packaging
Y10S 360/901	. . Access time
Y10S 360/902	. . Storage density, e.g. bpi, tpi
Y10S 360/903	. . Physical parameter, e.g. form factor
Y10S 360/904	. . . Weight

**Illumination**

<b>Y10S 362/00</b>	<b>Illumination</b>
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

**Agitating**

<b>Y10S 366/00</b>	<b>Agitating</b>
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- 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

### **Communications, electrical: acoustic wave systems and devices**

- Y10S 367/00      Communications, electrical: acoustic wave systems and devices**
- Y10S 367/90 . Sonar time varied gain control systems
- Y10S 367/901 . Noise or unwanted signal reduction in nonseismic receiving system
- Y10S 367/902 . Speed of sound compensation
- Y10S 367/903 . Transmit-receive circuitry
- Y10S 367/904 . Doppler compensation systems
- Y10S 367/905 . Side lobe reduction or shading
- Y10S 367/906 . Airborne shock-wave detection
- Y10S 367/907 . Coordinate determination
- Y10S 367/908 . Material level detection, e.g. liquid level
- Y10S 367/909 . Collision avoidance
- Y10S 367/91 . Portable sonar devices
- Y10S 367/911 . Particular well-logging apparatus
- Y10S 367/912 . . Particular transducer

### **Multiplex communications**

- Y10S 370/00      Multiplex communications**
- Y10S 370/901 . Wide area network
- Y10S 370/902 . . Packet switching

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

### **Coherent light generators**

<b>Y10S 372/00</b>	<b>Coherent light generators</b>
Y10S 372/70	. Optical delay
Y10S 372/701	. Nozzle
Y10S 372/702	. Isotope
Y10S 372/703	. Optical isolater
Y10S 372/704	. Summary reference
Y10S 372/705	. Neat thing

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

<b>Y10S 376/00</b>	<b>Induced nuclear reactions: processes, systems, and elements</b>
Y10S 376/90	. Particular material or material shapes for fission reactors
Y10S 376/901	. . Fuel
Y10S 376/902	. . . with external lubricating or absorbing material
Y10S 376/903	. . . Shapes
Y10S 376/904	. . Moderator, reflector, or coolant materials
Y10S 376/905	. . . Organic
Y10S 376/906	. . . Metal
Y10S 376/907	. . . Dissociative coolants
Y10S 376/908	. Reactor geometry, or part thereof, defined in terms of numerical values
Y10S 376/909	. Mobile reactors
Y10S 376/91	. Rotating reactors
Y10S 376/911	. Plural reactor systems

- Y10S 376/912 . Nuclear reactor systems situated in the ocean
- Y10S 376/913 . Antimatter devices and methods
- Y10S 376/914 . Nuclear explosives
- Y10S 376/915 . Fusion reactor fuels
- Y10S 376/916 . Methods of making fusion fuel targets
- Y10S 376/917 . Utilizing different fuels or fuels in different forms, in different reactor regions in relation to amounts of heat produced in said regions
- Y10S 376/918 . Entire reactor core of single integral structure

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

##### **Y10S 378/00 X-ray or gamma ray systems or devices**

- Y10S 378/901 . Computer tomography program or processor

#### **Telephonic communications**

##### **Y10S 379/00 Telephonic communications**

- Y10S 379/90 . Internet, e.g. Internet phone, webphone, internet-based telephony
- Y10S 379/901 . Virtual networks or virtual private networks
- Y10S 379/902 . Auto-switch for an incoming voice data, or fax telephone call, e.g. comp/fax/tel
- Y10S 379/903 . Password
- Y10S 379/904 . Auto-calling
- Y10S 379/905 . Fax mail
- Y10S 379/906 . Touchtone message transmission
- Y10S 379/907 . Speech recognition via telephone system or component
- Y10S 379/908 . Multimedia
- Y10S 379/909 . Alternatives
- Y10S 379/91 . Bar code or optical character reader with telephone
- Y10S 379/911 . Distinctive ringing
- Y10S 379/912 . Geographically adaptive
- Y10S 379/913 . Person locator or person-specific
- Y10S 379/914 . Programmable telephone component
- Y10S 379/915 . . Soft key
- Y10S 379/916 . Touch screen associated with telephone set
- Y10S 379/917 . Voice menus

#### **Flexible bags**

##### **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

### **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

### **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

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

#### **Y10S 388/00**

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

- Y10S 388/90 . Specific system operational feature
- Y10S 388/901 . . Sample and hold
- Y10S 388/902 . . Compensation
- Y10S 388/903 . . Protective, e.g. voltage or current limit

Y10S 388/904	. . . Stored velocity profile
Y10S 388/905	. . . Armature and field windings connected in series, i.e. series motor
Y10S 388/906	. . . Proportional-integral system
Y10S 388/907	. Specific control circuit element or device
Y10S 388/9072	. . . Bridge circuit
Y10S 388/9075	. . . Computer or microprocessor
Y10S 388/908	. . . Frequency to voltage converter
Y10S 388/909	. . . Monitoring means
Y10S 388/91	. . . Operational/differential amplifier
Y10S 388/911	. . . Phase locked loop
Y10S 388/912	. . . Pulse or frequency counter
Y10S 388/913	. . . Saturable reactor, space discharge device, or magnetic amplifier
Y10S 388/914	. . . . Thyratron or ignitron
Y10S 388/915	. . . Sawtooth or ramp waveform generator
Y10S 388/916	. . . Threshold circuit
Y10S 388/917	. . . Thyristor or scr
Y10S 388/918	. . . . Trigger by unijunction transistor
Y10S 388/919	. . . . Triggered by resistor or capacitor
Y10S 388/92	. . . . Chopper
Y10S 388/921	. . . Timer or time delay means
Y10S 388/922	. . . Tuned or resonant circuit
Y10S 388/923	. Specific feedback condition or device
Y10S 388/924	. . . Centrifugal device, e.g. governor
Y10S 388/925	. . . . including contacts which open and close motor circuit
Y10S 388/926	. . . . Which controls a vacuum tube or solid-state device in motor circuit
Y10S 388/927	. . . . Which varies resistance of motor circuit
Y10S 388/928	. . . . Which controls position of commutator brushes
Y10S 388/9281	. . . Counter or back emf, CEMF
Y10S 388/929	. . . Fluid/granular material flow rate, pressure, or level
Y10S 388/93	. . . Load or torque
Y10S 388/931	. . . . Electric generator or magnet as auxiliary load
Y10S 388/932	. . . . with reverse torque, e.g. braking
Y10S 388/933	. . . Radiant energy responsive device
Y10S 388/934	. . . Thermal condition
Y10S 388/935	. Specific application:
Y10S 388/936	. . . Food preparation equipment
Y10S 388/937	. . . Hand tool

**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

**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

**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

**Joints and connections****Y10S 403/00****Joints and connections**

- Y10S 403/01 . Magnetic
- Y10S 403/02 . Metal treatment
- Y10S 403/03 . Load-responsive release
- Y10S 403/04 . Quick release
- Y10S 403/05 . Carbon electrode
- Y10S 403/06 . Reciprocable ball detent
- Y10S 403/07 . Split ring stop or abutment
- Y10S 403/08 . Radially acting cam or eccentric
- Y10S 403/09 . Adjustable clamp
- Y10S 403/10 . Readily disengageable panel joints
- Y10S 403/11 . Furniture type having a snap fit
- Y10S 403/12 . Furniture type having a rotatable fastener or fastening element that tightens connection

- Y10S 403/13 . Furniture type
- Y10S 403/14 . Resilient cinch, locking-catch or retainer type
- Y10S 403/15 . Splice plates for co-linear members

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

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

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

- Y10S 408/01 . Bowling ball drill
- Y10S 408/70 . Cutting by use of ultrasonic energy
- Y10S 408/701 . Cutting by use of radiant energy, e.g. laser, maser
- Y10S 408/702 . Cutting by use of pneumatic drive means
- Y10S 408/703 . Trepanning
- Y10S 408/704 . Drilling small holes
- Y10S 408/705 . Drilling deep holes
- Y10S 408/706 . Drilling brake lining
- Y10S 408/707 . Drilling opening for bearing in connecting rod or piston
- Y10S 408/708 . Drilling opening for bearing in engine block
- Y10S 408/709 . Reboring piston receiving cylinder
- Y10S 408/71 . Safety device
- Y10S 408/711 . Adapter for broken tool
- Y10S 408/712 . Drill press adapted to use portable hand drill
- Y10S 408/713 . Tool having detachable cutting edge
- Y10S 408/714 . Resilient tool or tool-support

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

##### **Y10S 409/00**

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

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

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

##### **Y10S 411/00**

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

- Y10S 411/01 . Thread forming, reforming, or cleaning
- Y10S 411/02 . Temperature modification
- Y10S 411/03 . Utilizing fluid pressure

Y10S 411/90	. Fastener or fastener element composed of plural different materials
Y10S 411/901	. . Core and exterior of different materials
Y10S 411/902	. . . Metal core
Y10S 411/903	. . . . Resinous exterior
Y10S 411/904	. Fastener or fastener element composed of nonmetallic material
Y10S 411/905	. . Paper or wood
Y10S 411/906	. . Leather or fabric
Y10S 411/907	. . Elastomeric
Y10S 411/908	. . Resinous material
Y10S 411/909	. Fastener or fastener element composed of thermo-responsive memory material
Y10S 411/91	. Antitamper means
Y10S 411/911	. . One-way drive
Y10S 411/912	. Antisplitting fastener
Y10S 411/913	. Self-expanding anchor
Y10S 411/914	. Coated bolt
Y10S 411/915	. Bolt having packing joint
Y10S 411/916	. Bolt having tension feature
Y10S 411/917	. Nut having tension feature
Y10S 411/918	. Threadless nut
Y10S 411/919	. Screw having driving contacts
Y10S 411/92	. Staple
Y10S 411/921	. Multiple-pronged nail, spike or tack
Y10S 411/922	. Nail, spike or tack having locking device
Y10S 411/923	. Nail, spike or tack having specific head structure
Y10S 411/924	. Coupled nut and bolt
Y10S 411/9241	. . Deformed
Y10S 411/925	. . Top stop
Y10S 411/926	. . Positive lock
Y10S 411/927	. . . Side
Y10S 411/928	. . . Thread gripper
Y10S 411/929	. . Thread lock
Y10S 411/9291	. . . Coil spring
Y10S 411/9292	. . . Distorted washer
Y10S 411/93	. . . Flowing metal or settable material
Y10S 411/931	. . . Superposed nuts
Y10S 411/932	. . . . Oppositely threaded
Y10S 411/933	. . . . . Key or pawl locked
Y10S 411/934	. . . . . Side locked
Y10S 411/935	. . . Cam or cone grip
Y10S 411/9351	. . . . Cam

Y10S 411/936	. . .	Canted nut
Y10S 411/937	. . .	Distorted nut
Y10S 411/9371	. . . .	Predistorted thread pitch or diameter
Y10S 411/9372	. . . .	Post-distorted thread pitch or diameter
Y10S 411/938	. . .	Distorted thread
Y10S 411/939	. . .	Longitudinal key
Y10S 411/94	. . .	Radial key or gib
Y10S 411/941	. . .	Side clutch
Y10S 411/9411	. . . .	Spring
Y10S 411/9412	. . . .	Roller
Y10S 411/9413	. . . .	Ball
Y10S 411/942	. . .	Tangential key
Y10S 411/943	. .	Flexible washer
Y10S 411/944	. .	Flexible key
Y10S 411/945	. .	Cross key
Y10S 411/946	. . .	Spring-seated
Y10S 411/947	. .	Elastic-gripping action
Y10S 411/948	. .	Longitudinal key
Y10S 411/949	. .	Ratchet and bolt-carried pawl
Y10S 411/95	. .	Ratchet and nut-carried pawl
Y10S 411/951	. . .	Flexible
Y10S 411/952	. . .	Pivoted
Y10S 411/953	. .	Washer-carried pawl
Y10S 411/954	. .	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

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

<b>Y10S 412/00</b>	<b>Bookbinding: process and apparatus</b>
Y10S 412/90	. Activating previously applied adhesive
Y10S 412/901	. Pressure sensitive adhesive
Y10S 412/902	. Heating and pressing

#### **Material or article handling**

<b>Y10S 414/00</b>	<b>Material or article handling</b>
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- Y10S 414/10
  - . Associated with forming or dispersing groups of intersupporting articles, e.g. stacking patterns
- Y10S 414/101
  - . . with article-supporting fluid cushion
- Y10S 414/102
  - . . including support for group
- Y10S 414/103
  - . . . Vertically shiftable
- Y10S 414/104
  - . . . . Shifted by change in weight thereon
- Y10S 414/105
  - . . . . Shifted by article responsive means
- Y10S 414/106
  - . . including means for supplying pallet or separator to group
- Y10S 414/107
  - . . . Recirculates emptied pallet or separator
- Y10S 414/108
  - . . including means for collecting emptied pallet or separator
- Y10S 414/109
  - . . Manual step utilized
- Y10S 414/11
  - . . Bricks
- Y10S 414/111
  - . . Audio or video cassettes
- Y10S 414/112
  - . . Group formed or dispensed by reversible apparatus
- Y10S 414/113
  - . . Nonconforming article diverted
- Y10S 414/114
  - . . Adjust to handle articles or groups of different sizes
- Y10S 414/115
  - . . including article counter
- Y10S 414/116
  - . . including control for pattern of group
- Y10S 414/117
  - . . with means to apply adhesive to article
- Y10S 414/118
  - . . having geneva drive for apparatus
- Y10S 414/119
  - . . with article flap deflector
- Y10S 414/12
  - . . including means pressing against top or end of group
- Y10S 414/121
  - . Perforated article handling
- Y10S 414/122
  - . Remote control handlers
- Y10S 414/123
  - . Hollow cylinder handlers
- Y10S 414/124
  - . Roll handlers
- Y10S 414/125
  - . Combined or convertible implements
- Y10S 414/126
  - . Handlers with spring devices
- Y10S 414/127
  - . Handling vehicles with overhead guard for operator
- Y10S 414/128
  - . Handler-type toys
- Y10S 414/129
  - . Shaft mucking machines
- Y10S 414/13
  - . Handlers utilizing parallel links
- Y10S 414/131
  - . Transmission-line guide for a shiftable handler
- Y10S 414/132
  - . Vehicle-carried storage member, e.g. portable silo and means for erecting member from attitude during transport to position of intended use
- Y10S 414/133
  - . Handling device on tractor unit
- Y10S 414/134
  - . Handicapped person handling
- Y10S 414/135
  - . Associated with semiconductor wafer handling
- Y10S 414/136
  - . . including wafer orienting means
- Y10S 414/137
  - . . including means for charging or discharging wafer cassette



- Y10S 414/138 . . . Wafers positioned vertically within cassette
- Y10S 414/139 . . including wafer charging or discharging means for vacuum chamber
- Y10S 414/14 . . Wafer cassette transporting
- Y10S 414/141 . . includes means for gripping wafer

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

- |                    |   |
|--------------------|---|
| <b>Y10S 415/00</b> | <b>Rotary kinetic fluid motors or pumps</b>   |
| Y10S 415/90        | . Rotary blood pump   |
| Y10S 415/901       | . Drilled well-type pump  |
| Y10S 415/902       | . Rotary pump turbine publications  |
| Y10S 415/903       | . Well bit drive turbine  |
| Y10S 415/904       | . Tool drive turbine, e.g. dental drill   |
| Y10S 415/905       | . Natural fluid current motor   |
| Y10S 415/906       | . . having specific features for water current  |
| Y10S 415/907       | . . Vertical runner axis  |
| Y10S 415/908       | . . Axial flow runner   |
| Y10S 415/909       | . Air stack or shaft having natural fluid current motor   |
| Y10S 415/91        | . Reversible between pump and motor use   |
| Y10S 415/911       | . Pump having reversible runner rotation and separate outlets for opposing directions of rotation |
| Y10S 415/912       | . Interchangeable parts to vary pumping capacity or size of pump                                  |
| Y10S 415/913       | . Inlet and outlet with concentric portions   |
| Y10S 415/914       | . Device to control boundary layer  |
| Y10S 415/915       | . Pump or portion thereof by casting or molding   |
| Y10S 415/916       | . Perpetual motion devices  |

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

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

**Pumps****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

**Rotary expansible chamber devices****Y10S 418/00****Rotary expansible chamber devices**

- Y10S 418/01 . Non-working fluid separation

**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

**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

**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

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

- Y10S 424/01 . Aerosol hair preparation
- Y10S 424/02 . Resin hair settings
- Y10S 424/03 . Hair bleach
- Y10S 424/04 . Dandruff
- Y10S 424/05 . Stick
- Y10S 424/06 . Chelate
- Y10S 424/07 . Microporous membranes
- Y10S 424/08 . Systemic pesticides
- Y10S 424/09 . Fish posts
- Y10S 424/10 . Insect repellent
- Y10S 424/11 . Termite treating
- Y10S 424/12 . Fertilization attaching inhibition
- Y10S 424/13 . Burn treatment
- Y10S 424/14 . Topical contraceptives and spermicides
- Y10S 424/15 . Suppositories
- Y10S 424/16 . Dendrimers and dendritic polymers
- Y10S 424/80 . Antibody or fragment thereof whose amino acid sequence is disclosed in whole or in part
- Y10S 424/801 . involving antibody or fragment thereof produced by recombinant dna technology
- Y10S 424/802 . Antibody or antigen-binding fragment thereof that binds gram-positive bacteria
- Y10S 424/803 . Antibody or antigen-binding fragment thereof that binds gram-negative bacteria
- Y10S 424/804 . involving IgG3, IgG4, IgA, or IgY
- Y10S 424/805 . involving IgE or IgD
- Y10S 424/806 . involving IgM
- Y10S 424/807 . . Monoclonal
- Y10S 424/808 . . . Human
- Y10S 424/809 . involving immunoglobulin or antibody fragment, e.g. fab', fv, fc, heavy chain or light chain
- Y10S 424/81 . involving autoimmunity, allergy, immediate hypersensitivity, delayed hypersensitivity, immunosuppression, immunotolerance, or anergy
- Y10S 424/811 . involving sex selection or contraception
- Y10S 424/812 . Liposome comprising an antibody, antibody fragment, antigen, or other specific or nonspecific immunoeffector
- Y10S 424/813 . Viral vaccine for bovine species, e.g. cattle
- Y10S 424/814 . Viral vaccine for ovine species, e.g. sheep
- Y10S 424/815 . Viral vaccine for porcine species, e.g. swine
- Y10S 424/816 . Viral vaccine for avian species, e.g. poultry or other birds

- Y10S 424/817 . Viral vaccine for fish
- Y10S 424/818 . Viral vaccine for canidae or mustelidae, e.g. dogs, foxes, minks
- Y10S 424/819 . Viral vaccine for feline species, e.g. cats
- Y10S 424/82 . Viral vaccine for equine species, e.g. horses
- Y10S 424/821 . involving temperature-sensitive mutant virus
- Y10S 424/822 . involving tk- virus
- Y10S 424/823 . Bacterial vaccine for bovine species, e.g. cattle
- Y10S 424/824 . Bacterial vaccine for ovine species, e.g. sheep
- Y10S 424/825 . Bacterial vaccine for porcine species, e.g. swine
- Y10S 424/826 . Bacterial vaccine for avian species, e.g. poultry or other birds
- Y10S 424/827 . Bacterial vaccine for fish
- Y10S 424/828 . Bacterial vaccine for canidae or mustelidae, e.g. dogs, foxes, minks
- Y10S 424/829 . Bacterial vaccine for equine species, e.g. horses
- Y10S 424/83 . involving temperature-sensitive mutant bacterium
- Y10S 424/831 . involving capsular polysaccharide of bacterium, e.g. polyribosyl ribitol phosphate
- Y10S 424/832 . involving bacterial toxin that has modified amino acid sequence
- Y10S 424/90 . In vivo diagnostic or in vivo test agent which contains an additional ingredient to reduce the toxicity or side effects of the active ingredient

#### **Plastic article or earthenware shaping or treating: apparatus**

- | <b>Y10S 425/00</b> | <b>Plastic article or earthenware shaping or treating: apparatus</b> |
|--------------------|--|
| Y10S 425/001       | . Accumulator  |
| Y10S 425/002       | . Air support  |
| Y10S 425/003       | . Appendage  |
| Y10S 425/004       | . Back pressure  |
| Y10S 425/005       | . Cammed   |
| Y10S 425/007       | . Coil   |
| Y10S 425/009       | . Cooling and color  |
| Y10S 425/01        | . Core positioning   |
| Y10S 425/011       | . Dental injection   |
| Y10S 425/012       | . Destructible mold and core   |
| Y10S 425/013       | . Electric heat  |
| Y10S 425/014       | . Expansible and collapsible   |
| Y10S 425/015       | . Explosive  |
| Y10S 425/016       | . Extrude and mold   |
| Y10S 425/017       | . Filament stretching apparatus                                      |
| Y10S 425/019       | . Flexible fluid pressure  |
| Y10S 425/02        | . Fluidized bed  |
| Y10S 425/021       | . Frictional drive   |

Y10S 425/022	. Friction heat
Y10S 425/023	. Glazing
Y10S 425/024	. Gora
Y10S 425/025	. Gutter
Y10S 425/026	. High pressure
Y10S 425/027	. Hot water bottle
Y10S 425/028	. Impact
Y10S 425/029	. Jigs and dies
Y10S 425/03	. Laminated mold
Y10S 425/032	. Lipstick
Y10S 425/033	. Magnet
Y10S 425/034	. Morin
Y10S 425/035	. Opposed plunger
Y10S 425/036	. Patching
Y10S 425/037	. Perforate
Y10S 425/038	. Pre-form
Y10S 425/039	. Pre-heat
Y10S 425/04	. Pulling wheel
Y10S 425/041	. Reshape
Y10S 425/042	. Ring
Y10S 425/043	. Rocket fuel core
Y10S 425/044	. Rubber mold
Y10S 425/045	. Safety
Y10S 425/046	. Scrap
Y10S 425/047	. Seal ring
Y10S 425/048	. Sheet clamping
Y10S 425/049	. Spinnerette mixer
Y10S 425/05	. Spray
Y10S 425/051	. Sprue removal
Y10S 425/053	. Stretch
Y10S 425/054	. Through travel mold
Y10S 425/055	. Polytetrafluoroethylene, i.e. PTFE
Y10S 425/056	. Telephone
Y10S 425/057	. Toy molding
Y10S 425/058	. Undercut
Y10S 425/059	. United parts
Y10S 425/06	. Vacuum
Y10S 425/061	. Venetian blind
Y10S 425/101	. Aggregate and pellet
Y10S 425/102	. Air ejection

Y10S 425/105	. Brace
Y10S 425/106	. Chamber
Y10S 425/107	. Connection
Y10S 425/108	. Conveyor
Y10S 425/109	. Frangible connections
Y10S 425/11	. Heated mold
Y10S 425/111	. Hollow block
Y10S 425/112	. Inflatable form
Y10S 425/113	. Inner roll
Y10S 425/115	. Lubricator
Y10S 425/116	. Mold cleaning
Y10S 425/117	. Pallet
Y10S 425/118	. Pallet feeder
Y10S 425/119	. Perforated or porous
Y10S 425/12	. Pottery appendage
Y10S 425/121	. Projection
Y10S 425/122	. Reinforcing and aggregate
Y10S 425/123	. Repress
Y10S 425/124	. Rubber matrix
Y10S 425/125	. Sand mold
Y10S 425/126	. Silo mold
Y10S 425/127	. Spring
Y10S 425/128	. Swinging top press
Y10S 425/129	. Wedge
Y10S 425/13	. Wire reinforce
Y10S 425/131	. Yielding plunger
Y10S 425/132	. Portable
Y10S 425/20	. Molding plants
Y10S 425/201	. . Diverse stations
Y10S 425/202	. . Earthenware type
Y10S 425/203	. . Control for blow molding apparatus
Y10S 425/217	. Spinnerette forming conjugate, composite or hollow filaments
Y10S 425/218	. Pipe machine: socket forming apparatus
Y10S 425/219	. with stick inserting means for edible product
Y10S 425/221	. Injection mold closing and locking clamp, wedge or retention means
Y10S 425/223	. Injection mold closing means utilizing variable closing pressure
Y10S 425/224	. Injection mold nozzle valve
Y10S 425/225	. . Automatic control
Y10S 425/226	. . Actuated by contact with mold
Y10S 425/227	. Injection nozzle; positioned flush with mold or cavity

Y10S 425/228	. Injection plunger or ram: transfer molding type
Y10S 425/229	. Injection mold runner valve
Y10S 425/23	. Hay wafering or pelletizing means
Y10S 425/235	. Calendar
Y10S 425/236	. Attenuating
Y10S 425/237	. Varying density foam
Y10S 425/238	. Boat hull mold
Y10S 425/239	. Modular mold
Y10S 425/24	. Pre-fab mold
Y10S 425/241	. Wall panel mold
Y10S 425/242	. Pipe joint seal mold
Y10S 425/243	. Extrusion or injection molding
Y10S 425/244	. Die and matrix
Y10S 425/245	. Heat
Y10S 425/246	. Mold heating
Y10S 425/247	. Multipart injection molds
Y10S 425/248	. Uniting
Y10S 425/249	. Character
Y10S 425/801	. Button
Y10S 425/802	. Cable tube or rod splicing
Y10S 425/803	. Candle or crayon
Y10S 425/804	. Capsule making
Y10S 425/805	. Comb or brush
Y10S 425/806	. Flash removal
Y10S 425/807	. Lace tipping
Y10S 425/808	. Lens mold
Y10S 425/809	. Seal, bottle caps only
Y10S 425/81	. Sound record
Y10S 425/811	. Stencil
Y10S 425/812	. Venting
Y10S 425/813	. Water bottle
Y10S 425/814	. Zipper
Y10S 425/815	. Chemically inert or reactive atmosphere
Y10S 425/816	. Gas mask
Y10S 425/817	. Means molding pore formable material
Y10S 425/8175	. . Continuous
Y10S 425/818	. Belt



**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

**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

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

- Y10S 428/90 . Magnetic feature
- Y10S 428/901 . Printed circuit
- Y10S 428/902 . High modulus filament or fiber
- Y10S 428/903 . Microfiber, less than 100 micron diameter
- Y10S 428/9033 . Recycled materials
- Y10S 428/904 . Artificial leather
- Y10S 428/9044 . Wall and shelf covering

Y10S 428/905	. Odor releasing material
Y10S 428/906	. Roll or coil
Y10S 428/9066	. Embroidery
Y10S 428/907	. Resistant against plant or animal attack
Y10S 428/9077	. Layer or article rendered light-transmissive by pressure, e.g. blushed
Y10S 428/908	. Impression retention layer, e.g. print matrix, sound record
Y10S 428/9088	. Wear-resistant layer
Y10S 428/909	. Resilient layer, e.g. printer's blanket
Y10S 428/91	. Product with molecular orientation
Y10S 428/911	. Penetration resistant layer
Y10S 428/912	. Puncture healing layer
Y10S 428/9122	. Mirror
Y10S 428/913	. Material designed to be responsive to temperature, light, moisture
Y10S 428/9133	. Decorative article for viewing from one side only, e.g. plaque
Y10S 428/914	. Transfer or decalcomania
Y10S 428/915	. . Fraud or tamper detecting
Y10S 428/916	. Fraud or tamper detecting
Y10S 428/917	. Electroluminescent
Y10S 428/918	. Material abnormally transparent
Y10S 428/919	. Camouflaged article
Y10S 428/92	. Fire or heat protection feature
Y10S 428/921	. . Fire or flameproofing
Y10S 428/922	. Static electricity metal bleed-off metallic stock
Y10S 428/923	. . Physical dimension
Y10S 428/924	. . . Composite
Y10S 428/925	. . . . Relative dimension specified
Y10S 428/926	. . . . Thickness of individual layer specified
Y10S 428/9265	. . Special properties
Y10S 428/927	. . . Decorative informative
Y10S 428/928	. . . Magnetic property
Y10S 428/929	. . . Electrical contact feature
Y10S 428/93	. . . Electric superconducting
Y10S 428/931	. . . Components of differing electric conductivity
Y10S 428/932	. . . Abrasive or cutting feature
Y10S 428/933	. . . Sacrificial component
Y10S 428/9335	. . Product by special process
Y10S 428/934	. . . Electrical process
Y10S 428/935	. . . . Electroplating
Y10S 428/936	. . . Chemical deposition, e.g. electroless plating
Y10S 428/937	. . . Sprayed metal

- Y10S 428/938 . . . Vapor deposition or gas diffusion
- Y10S 428/939 . . . Molten or fused coating
- Y10S 428/94 . . . Pressure bonding, e.g. explosive
- Y10S 428/941 . . . Solid state alloying, e.g. diffusion, to disappearance of an original layer

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

- 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

### **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

### **Heating**

- Y10S 432/00**      **Heating**
- Y10S 432/50
  - . Tobacco barns

### **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	. . . .	<i>Micrococcus glutamicus</i>
Y10S 435/862	. . . .	<i>Micrococcus lysodeikticus</i>
Y10S 435/863	. . .	<i>Mycobacterium</i>
Y10S 435/864	. . . .	<i>Mycobacterium avium</i>
Y10S 435/865	. . . .	<i>Mycobacterium fortuitum</i>
Y10S 435/866	. . . .	<i>Mycobacterium smegmatis</i>
Y10S 435/867	. . .	<i>Micromonospora</i>
Y10S 435/868	. . . .	<i>Micromonospora chalybeata</i>
Y10S 435/869	. . . .	<i>Micromonospora purpurea</i>
Y10S 435/87	. . .	<i>Mycoplasma</i>
Y10S 435/871	. . .	<i>Neisseria</i>
Y10S 435/872	. . .	<i>Nocardia</i>
Y10S 435/873	. . .	<i>Proteus</i>
Y10S 435/874	. . .	<i>Pseudomonas</i>
Y10S 435/875	. . . .	<i>Pseudomonas aeruginosa</i>
Y10S 435/876	. . . .	<i>Pseudomonas fluorescens</i>
Y10S 435/877	. . . .	<i>Pseudomonas putida</i>
Y10S 435/878	. . .	<i>Rhizobium</i>
Y10S 435/879	. . .	<i>Salmonella</i>
Y10S 435/88	. . .	<i>Serratia</i>
Y10S 435/881	. . . .	<i>Serratia marcescens</i>
Y10S 435/882	. . .	<i>Staphylococcus</i>
Y10S 435/883	. . . .	<i>Staphylococcus aureus</i>
Y10S 435/884	. . . .	<i>Staphylococcus epidermidis</i>
Y10S 435/885	. . .	<i>Streptococcus</i>
Y10S 435/886	. . .	<i>Streptomyces</i>
Y10S 435/887	. . . .	<i>Streptomyces albus</i>
Y10S 435/888	. . . .	<i>Streptomyces antibioticus</i>
Y10S 435/889	. . . .	<i>Streptomyces aureofaciens</i>
Y10S 435/89	. . . .	<i>Streptomyces aureus</i>
Y10S 435/891	. . . .	<i>Streptomyces bikiniensis</i>
Y10S 435/892	. . . .	<i>Streptomyces candidus</i>
Y10S 435/893	. . . .	<i>Streptomyces chartreusis</i>
Y10S 435/894	. . . .	<i>Streptomyces diastatochromogenes</i>
Y10S 435/895	. . . .	<i>Streptomyces filipinensis</i>
Y10S 435/896	. . . .	<i>Streptomyces fradiae</i>
Y10S 435/897	. . . .	<i>Streptomyces griseus</i>
Y10S 435/898	. . . .	<i>Streptomyces hygroscopicus</i>
Y10S 435/899	. . . .	<i>Streptomyces lavendulae</i>
Y10S 435/90	. . . .	<i>Streptomyces lincolnensis</i>

Y10S 435/901	. . . .	<i>Streptomyces noursei</i>
Y10S 435/902	. . . .	<i>Streptomyces olivaceus</i>
Y10S 435/903	. . . .	<i>Streptomyces platensis</i>
Y10S 435/904	. . . .	<i>Streptomyces rimosus</i>
Y10S 435/905	. . . .	<i>Streptomyces sparogenes</i>
Y10S 435/906	. . . .	<i>Streptomyces venezuelae</i>
Y10S 435/907	. . .	<i>Streptosporangium</i>
Y10S 435/908	. . .	<i>Streptovorticillium</i>
Y10S 435/909	. . .	<i>Vibrio</i>
Y10S 435/91	. . .	<i>Xanthomonas</i>
Y10S 435/911	. .	using fungi
Y10S 435/912	. . .	<i>Absidia</i>
Y10S 435/913	. . .	<i>Aspergillus</i>
Y10S 435/914	. . . .	<i>Aspergillus awamori</i>
Y10S 435/915	. . . .	<i>Aspergillus flavus</i>
Y10S 435/916	. . . .	<i>Aspergillus fumigatus</i>
Y10S 435/917	. . . .	<i>Aspergillus niger</i>
Y10S 435/918	. . . .	<i>Aspergillus oryzae</i>
Y10S 435/919	. . . .	<i>Aspergillus ustus</i>
Y10S 435/92	. . . .	<i>Aspergillus wenti</i>
Y10S 435/921	. . .	<i>Candida</i>
Y10S 435/922	. . . .	<i>Candida albicans</i>
Y10S 435/923	. . . .	<i>Candida lipolytica</i>
Y10S 435/924	. . . .	<i>Candida tropicalis</i>
Y10S 435/925	. . .	<i>Cephalosporium</i>
Y10S 435/926	. . . .	<i>Cephalosporium acremonium</i>
Y10S 435/927	. . . .	<i>Cephalosporium caerulens</i>
Y10S 435/928	. . . .	<i>Cephalosporium crotocinigenium</i>
Y10S 435/929	. . .	<i>Fusarium</i>
Y10S 435/93	. . .	<i>Hansenula</i>
Y10S 435/931	. . .	<i>Mucor</i>
Y10S 435/932	. . .	<i>Paecilomyces</i>
Y10S 435/933	. . .	<i>Penicillium</i>
Y10S 435/934	. . . .	<i>Penicillium brevi</i>
Y10S 435/935	. . . .	<i>Penicillium chrysogenum</i>
Y10S 435/936	. . . .	<i>Penicillium notatum</i>
Y10S 435/937	. . . .	<i>Penicillium patulum</i>
Y10S 435/938	. . .	<i>Pichia</i>
Y10S 435/939	. . .	<i>Rhizopus</i>
Y10S 435/94	. . .	<i>Saccharomyces</i>



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

### **Chemistry: analytical and immunological testing**

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|---|--|
| <b>Y10S 436/00</b><br>Y10S 436/80<br>Y10S 436/801<br>Y10S 436/802<br>Y10S 436/803<br>Y10S 436/804<br>Y10S 436/805<br>Y10S 436/806<br>Y10S 436/807<br>Y10S 436/808 | <b>Chemistry: analytical and immunological testing</b><br>. Fluorescent dyes, e.g. rhodamine<br>. Electron dense compounds, e.g. ferritin<br>. Protein-bacteriophage conjugates<br>. Stable free radicals, e.g. spin immunoassay<br>. Radioisotope, e.g. radioimmunoassay<br>. Optical property<br>. Electrical property or magnetic property<br>. Apparatus included in process claim, e.g. physical support structures<br>. . Automated or kit |
|---|--|

Y10S 436/809	. . Multifield plates or multicontainer arrays
Y10S 436/81	. . Tube, bottle, or dipstick
Y10S 436/811	. Test for named disease, body condition or organ function
Y10S 436/812	. . Infectious mononucleosis
Y10S 436/813	. . Cancer
Y10S 436/814	. . Pregnancy
Y10S 436/815	. Test for named compound or class of compounds
Y10S 436/816	. . Alkaloids, amphetamines, and barbiturates
Y10S 436/817	. . Steroids or hormones
Y10S 436/818	. . . Human chorionic gonadotropin
Y10S 436/819	. Multifunctional antigen or antibody
Y10S 436/82	. Hepatitis associated antigens and antibodies
Y10S 436/821	. involving complement factors or complement systems
Y10S 436/822	. Identified hapten
Y10S 436/823	. Immunogenic carrier or carrier per se
Y10S 436/824	. Immunological separation techniques
Y10S 436/825	. Pretreatment for removal of interfering factors from sample
Y10S 436/826	. Additives, e.g. buffers, diluents, preservatives
Y10S 436/827	. Lectins
Y10S 436/828	. Protein A
Y10S 436/829	. Liposomes, e.g. encapsulation
Y10S 436/90	. Breath testing
Y10S 436/901	. Drugs of abuse, e.g. narcotics, amphetamine
Y10S 436/902	. Dosimeter
Y10S 436/903	. Diazo reactions
Y10S 436/904	. Oxidation - reduction indicators
Y10S 436/905	. Photochemical activation of reactions
Y10S 436/906	. Fertility tests
Y10S 436/907	. Fetal lung maturity
Y10S 436/908	. Gravimetric analysis
Y10S 436/909	. Nephelometry
Y10S 436/91	. Iron-binding capacity of blood

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

<b>Y10S 438/00</b>	<b>Semiconductor device manufacturing: process</b>
Y10S 438/90	. Bulk effect device making
Y10S 438/901	. Capacitive junction
Y10S 438/902	. Capping layer
Y10S 438/903	. Catalyst aided deposition

- Y10S 438/904 . Charge carrier lifetime control
- Y10S 438/905 . Cleaning of reaction chamber
- Y10S 438/906 . Cleaning of wafer as interim step
- Y10S 438/907 . Continuous processing
- Y10S 438/908 . . Utilizing cluster apparatus
- Y10S 438/909 . Controlled atmosphere
- Y10S 438/91 . Controlling charging state at semiconductor-insulator interface
- Y10S 438/911 . Differential oxidation and etching
- Y10S 438/912 . Displacing pn junction
- Y10S 438/913 . Diverse treatments performed in unitary chamber
- Y10S 438/914 . Doping
- Y10S 438/915 . . Amphoteric doping
- Y10S 438/916 . . Autodoping control or utilization
- Y10S 438/917 . . Deep level dopants, e.g. gold, chromium, iron or nickel
- Y10S 438/918 . . Special or nonstandard dopant
- Y10S 438/919 . . Compensation doping
- Y10S 438/92 . . Controlling diffusion profile by oxidation
- Y10S 438/921 . . Nonselective diffusion
- Y10S 438/922 . . Diffusion along grain boundaries
- Y10S 438/923 . . Diffusion through a layer
- Y10S 438/924 . . To facilitate selective etching
- Y10S 438/925 . . Fluid growth doping control, e.g. delta doping
- Y10S 438/926 . Dummy metallization
- Y10S 438/927 . Electromigration resistant metallization
- Y10S 438/928 . Front and rear surface processing
- Y10S 438/929 . Eutectic semiconductor
- Y10S 438/93 . Ternary or quaternary semiconductor comprised of elements from three different groups, e.g. I-III-V
- Y10S 438/931 . Silicon carbide semiconductor
- Y10S 438/932 . Boron nitride semiconductor
- Y10S 438/933 . Germanium or silicon or Ge-Si on III-V
- Y10S 438/934 . Sheet resistance, i.e. dopant parameters
- Y10S 438/935 . Gas flow control
- Y10S 438/936 . Graded energy gap
- Y10S 438/937 . Hillock prevention
- Y10S 438/938 . Lattice strain control or utilization
- Y10S 438/939 . Langmuir-blodgett film utilization
- Y10S 438/94 . Laser ablative material removal
- Y10S 438/941 . Loading effect mitigation
- Y10S 438/942 . Masking

- Y10S 438/943
  - . . Movable
- Y10S 438/944
  - . . Shadow
- Y10S 438/945
  - . . Special, e.g. metal
- Y10S 438/946
  - . . Step and repeat
- Y10S 438/947
  - . . Subphotolithographic processing
- Y10S 438/948
  - . . Radiation resist
- Y10S 438/949
  - . . . Energy beam treating radiation resist on semiconductor
- Y10S 438/95
  - . . . Multilayer mask including nonradiation sensitive layer
- Y10S 438/951
  - . . . Lift-off
- Y10S 438/952
  - . . . Utilizing antireflective layer
- Y10S 438/953
  - . Making radiation resistant device
- Y10S 438/954
  - . Making oxide-nitride-oxide device
- Y10S 438/955
  - . Melt-back
- Y10S 438/956
  - . Making multiple wavelength emissive device
- Y10S 438/957
  - . Making metal-insulator-metal device
- Y10S 438/958
  - . Passivation layer
- Y10S 438/959
  - . Mechanical polishing of wafer
- Y10S 438/96
  - . Porous semiconductor
- Y10S 438/961
  - . Ion beam source and generation
- Y10S 438/962
  - . Quantum dots and lines
- Y10S 438/963
  - . Removing process residues from vertical substrate surfaces
- Y10S 438/964
  - . Roughened surface
- Y10S 438/965
  - . Shaped junction formation
- Y10S 438/966
  - . Selective oxidation of ion-amorphousized layer
- Y10S 438/967
  - . Semiconductor on specified insulator
- Y10S 438/968
  - . Semiconductor-metal-semiconductor
- Y10S 438/969
  - . Simultaneous formation of monocrystalline and polycrystalline regions
- Y10S 438/97
  - . Specified etch stop material
- Y10S 438/971
  - . Stoichiometric control of host substrate composition
- Y10S 438/972
  - . Stored charge erasure
- Y10S 438/973
  - . Substrate orientation
- Y10S 438/974
  - . Substrate surface preparation
- Y10S 438/975
  - . Substrate or mask aligning feature
- Y10S 438/976
  - . Temporary protective layer
- Y10S 438/977
  - . Thinning or removal of substrate
- Y10S 438/978
  - . forming tapered edges on substrate or adjacent layers
- Y10S 438/979
  - . Tunnel diodes
- Y10S 438/98
  - . Utilizing process equivalents or options
- Y10S 438/981
  - . Utilizing varying dielectric thickness
- Y10S 438/982
  - . Varying orientation of devices in array

Y10S 438/983 . Zener diodes

## **Electrical connectors**

### **Y10S 439/00**

### **Electrical connectors**

- Y10S 439/901 . Connector hood or shell
- Y10S 439/902 . . Angularly disposed contact and conductor
- Y10S 439/903 . . Special latch for insert
- Y10S 439/904 . . Multipart shell
- Y10S 439/905 . . . Axially joined sections
- Y10S 439/906 . . . Longitudinally divided
- Y10S 439/907 . Contact having three contact surfaces, including diverse surface
- Y10S 439/908 . Contact having two contact surfaces for electrical connection on opposite sides of insulative body
- Y10S 439/909 . Medical use or attached to human body
- Y10S 439/91 . Observation aide, e.g. transparent material, window in housing
- Y10S 439/911 . Safety, e.g. electrical disconnection required before opening housing
- Y10S 439/912 . with testing means
- Y10S 439/913 . Condition determining device, e.g. oxygen sensor, accelerometer, ionizer chamber, thermocouple
- Y10S 439/914 . for flashbulb or camera, including flash cube
- Y10S 439/915 . Auxiliary device for existing plug
- Y10S 439/916 . Antenna
- Y10S 439/917 . Alarm circuit, e.g. window affixed foil
- Y10S 439/918 . Multilamp vehicle panel
- Y10S 439/919 . for treatment by electrical current, e.g. magnet or battery charger, heater or welder
- Y10S 439/92 . for interconnecting rigid pipelike bodies, e.g. wave guides
- Y10S 439/921 . Transformer bushing type or high voltage underground connector
- Y10S 439/922 . Telephone switchboard protector
- Y10S 439/923 . Separation or disconnection aid
- Y10S 439/9241 . Contacts arranged for sequential connection
- Y10S 439/9242 . . with contact preventer to require joining in a given sequence
- Y10S 439/925 . Floor mounted, e.g. under carpet
- Y10S 439/926 . within machine casing or motor housing, connector within casing wall
- Y10S 439/927 . Conductive gasket
- Y10S 439/928 . Modular electrically interengaging parts, e.g. stove with replaceable heating elements formed on coupling parts
- Y10S 439/9281 . . Plug-in carrier or adapter for removable component, e.g. "hard drive" for computer
- Y10S 439/929 . Connecting base plate or shelf type holder
- Y10S 439/93 . Coupling part wherein contact is comprised of a wire or brush

- Y10S 439/931 . Conductive coating
- Y10S 439/932 . Heat shrink material
- Y10S 439/933 . Special insulation
- Y10S 439/934 . . High voltage barrier, e.g. surface arcing or corona preventing insulator
- Y10S 439/935 . . Glass or ceramic contact pin holder
- Y10S 439/936 . . Potting material or coating, e.g. grease, insulative coating, sealant or, adhesive
- Y10S 439/937 . . Plural insulators in strip form
- Y10S 439/9381 . Cathodic protection of structure, e.g. ship hull
- Y10S 439/939 . with grounding to metal mounting panel
- Y10S 439/94 . including provision for mechanical lifting or manipulation, e.g. for vacuum lifting
- Y10S 439/941 . Crosstalk suppression
- Y10S 439/942 . Comblike retainer for conductor
- Y10S 439/943 . including provision for pressing contact into pcb hole
- Y10S 439/944 . Coaxial connector having circuit-interrupting provision effected by mating or having "dead" contact activated after mating
- Y10S 439/945 . Adapter for pcb or cartridge
- Y10S 439/946 . Memory card cartridge
- Y10S 439/947 . PCB mounted connector with ground terminal
- Y10S 439/948 . Contact or connector with insertion depth limiter
- Y10S 439/949 . Junction box with busbar for plug-socket type interconnection with receptacle
- Y10S 439/95 . Electrical connector adapted to transmit electricity to mating connector without physical contact, e.g. by induction, magnetism, or electrostatic field
- Y10S 439/951 . PCB having detailed leading edge
- Y10S 439/952 . Jumper for use with specific apparatus
- Y10S 439/953 . with latch rod to be retainingly received by opening of mating connector
- Y10S 439/954 . Special orientation of electrical connector
- Y10S 439/955 . including electronic identifier or coding means
- Y10S 439/956 . with means to allow selection of diverse voltage or polarity
- Y10S 439/957 . Auxiliary contact part for circuit adaptation

### **Amusement devices: toys**

- Y10S 446/00 **Amusement devices: toys**
- Y10S 446/901 . Detachably adhesive

### **Abrading**

- Y10S 451/00 **Abrading**
- Y10S 451/90 . Gear abrader
- Y10S 451/901 . Super finish

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

**Ventilation**

<b>Y10S 454/00</b>	<b>Ventilation</b>
Y10S 454/90	. Ventilator using solar power
Y10S 454/901	. Fog dispeller
Y10S 454/902	. Air raid shelter ventilation
Y10S 454/903	. Flexible ducts used for carrying air
Y10S 454/904	. Magnetic means to hold a damper closed
Y10S 454/905	. Black out means
Y10S 454/906	. Noise inhibiting means
Y10S 454/907	. Seat
Y10S 454/908	. having rotary retarder
Y10S 454/909	. Radon prevention

**Crop threshing or separating**

<b>Y10S 460/00</b>	<b>Crop threshing or separating</b>
Y10S 460/901	. Material distributor
Y10S 460/902	. Grain cleaner

- Y10S 460/903 . Grain saver
- Y10S 460/904 . Potato digger
- Y10S 460/905 . Straw or chaff stacker

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

- |                    |  |
|--------------------|--|
| <b>Y10S 462/00</b> | <b>Books, strips, and leaves for manifolding</b> |
| Y10S 462/90        | . Adhesive                                       |
| Y10S 462/901       | . . Pressure sensitive                           |
| Y10S 462/902       | . Camouflage or nontransfer                      |
| Y10S 462/903       | . Security                                       |

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

- |                    |  |
|--------------------|--|
| <b>Y10S 464/00</b> | <b>Rotary shafts, gudgeons, housings, and flexible couplings for rotary shafts</b> |
| Y10S 464/90        | . Electrically insulative member   |
| Y10S 464/901       | . Rapid attachment or release  |
| Y10S 464/902       | . Particular material  |
| Y10S 464/903       | . . Nonmetal   |
| Y10S 464/904       | . Homokinetic coupling   |
| Y10S 464/905       | . . Torque transmitted via radially extending pin                                  |
| Y10S 464/906       | . . Torque transmitted via radially spaced balls                                   |

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

- |                    |   |
|--------------------|---|
| <b>Y10S 470/00</b> | <b>Threaded, headed fastener, or washer making: process and apparatus</b> |
| Y10S 470/90        | . Floating workholder   |
| Y10S 470/901       | . Pipe or rod workholder  |
| Y10S 470/902       | . Workholder index  |
| Y10S 470/903       | . Yieldable spindle   |
| Y10S 470/904       | . Turret  |
| Y10S 470/905       | . Wire coil insert  |
| Y10S 470/906       | . Nylon plug lock   |
| Y10S 470/907       | . Clinch nut feeder   |

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

- |                    |  |
|--------------------|--|
| <b>Y10S 474/00</b> | <b>Endless belt power transmission systems or components</b> |
| Y10S 474/90        | . Phase variator   |
| Y10S 474/901       | . Pulley or guide roll for track of endless track vehicle    |
| Y10S 474/902       | . Particular connection between rim and hub                  |



- Y10S 474/903 . Particular connection between hub and shaft

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

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

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

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

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

- Y10S 476/90 . Overload release

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

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

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

### **Exercise devices**

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

- Y10S 482/90 . Ergometer with feedback to load or with feedback comparison
- Y10S 482/901 . having computer circuitry
- Y10S 482/902 . . Employing specific graphic or video display
- Y10S 482/903 . Utilizing electromagnetic force resistance
- Y10S 482/904 . Removably attached to wheelchair, home furnishing, or home structure
- Y10S 482/905 . Arm wrestling
- Y10S 482/906 . Utilizing opponent supplied resistance
- Y10S 482/907 . Stretching

- Y10S 482/908 . Adjustable
- Y10S 482/909 . Mechanical indicator
- Y10S 482/91 . Portable exercise device with carrying handle, case, or cabinet

### **Tool changing**

- |                    |  |
|--------------------|--|
| <b>Y10S 483/00</b> | <b>Tool changing</b>   |
| Y10S 483/90        | . Gripping portion engages tool simultaneous with tool rotating in spindle |
| Y10S 483/901       | . Robot end effectors  |
| Y10S 483/902       | . Tool grippers  |

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

- |                    |   |
|--------------------|---|
| <b>Y10S 493/00</b> | <b>Manufacturing container or tube from paper; or other manufacturing from a sheet or web</b> |
| Y10S 493/901       | . Rigid container   |
| Y10S 493/902       | . . Dished  |
| Y10S 493/903       | . . Insulated thermally   |
| Y10S 493/904       | . . Cushioned   |
| Y10S 493/905       | . . having window   |
| Y10S 493/906       | . . having multilayer wall  |
| Y10S 493/907       | . . . Lined   |
| Y10S 493/908       | . . . Covered   |
| Y10S 493/909       | . . having handle or suspension means   |
| Y10S 493/91        | . . Cigarette container   |
| Y10S 493/911       | . . . Flip-top  |
| Y10S 493/912       | . . having internal partition   |
| Y10S 493/913       | . . . Egg container   |
| Y10S 493/914       | . . Eyeglass container  |
| Y10S 493/915       | . . Match container   |
| Y10S 493/916       | . Pliable container   |
| Y10S 493/917       | . . Envelope  |
| Y10S 493/918       | . . . Expandable  |
| Y10S 493/919       | . . . having window   |
| Y10S 493/92        | . . . having plural compartments  |
| Y10S 493/921       | . . . having integrally formed insert   |
| Y10S 493/922       | . . . having liner  |
| Y10S 493/923       | . . . with opening means, e.g. tear strip, valve  |
| Y10S 493/924       | . . Requiring external support during filling   |
| Y10S 493/925       | . . having mesh or window opening   |
| Y10S 493/926       | . . having handle or suspension means   |

- Y10S 493/927
  - . . Reclosable
- Y10S 493/928
  - . . . with draw string
- Y10S 493/929
  - . . . with valve
- Y10S 493/93
  - . . having tear strip
- Y10S 493/931
  - . . having plural compartments
- Y10S 493/932
  - . . having plural openings
- Y10S 493/933
  - . . having multilayer wall
- Y10S 493/934
  - . . Parallelepiped or tetrahedron shape
- Y10S 493/935
  - . . Covering bag, e.g. garment protector
- Y10S 493/936
  - . . Square bottom
- Y10S 493/937
  - . Textile
- Y10S 493/938
  - . . Apparel
- Y10S 493/939
  - . Apparel support
- Y10S 493/94
  - . Bellows
- Y10S 493/941
  - . Filter
- Y10S 493/942
  - . Cleaning implement, e.g. brush, dust mop
- Y10S 493/943
  - . Candy stick
- Y10S 493/944
  - . Aperture card or display device with window
- Y10S 493/945
  - . Coin holder
- Y10S 493/946
  - . Phonograph record jacket
- Y10S 493/947
  - . File folder
- Y10S 493/948
  - . Igniting fuse
- Y10S 493/949
  - . Electrical insulation
- Y10S 493/95
  - . Lamp shade
- Y10S 493/951
  - . Seedling container
- Y10S 493/952
  - . Photo corner mount
- Y10S 493/953
  - . Stencil or outline guide
- Y10S 493/954
  - . Spool
- Y10S 493/955
  - . Decoration article
- Y10S 493/956
  - . . having appearance of living plant, e.g. christmas tree
- Y10S 493/957
  - . . Festoon
- Y10S 493/958
  - . . Garland
- Y10S 493/959
  - . Toy or amusement article
- Y10S 493/96
  - . Toilet article
- Y10S 493/961
  - . Tag, marker, or label
- Y10S 493/962
  - . Closure, e.g. tie string, valve
- Y10S 493/963
  - . Opener, e.g. tear strip
- Y10S 493/964
  - . Pallet
- Y10S 493/965
  - . . Flat or "boat", e.g. for candy, crackers
- Y10S 493/966
  - . Honeycomb structure

- Y10S 493/967 . Dunnage, wadding, stuffing, or filling excelsior
- Y10S 493/968 . Structural shape

**Imperforate bowl: centrifugal separators**

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

**Compositions: ceramic**

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

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

- Y10S 502/00 Catalyst, solid sorbent, or support therefor: product or process of making**
- Y10S 502/50 . Stabilized
- Y10S 502/501 . . for multi-regenerability
- Y10S 502/502 . . Cystallinity
- Y10S 502/503 . . Crush strength
- Y10S 502/504 . . Abrasion resistance
- Y10S 502/506 . Method of making inorganic composition utilizing organic compound, except formic, acetic, or oxalic acid or salt thereof
- Y10S 502/507 . . Synthetic resin, natural resin, polysaccharide, or polypeptide
- Y10S 502/508 . . Sulfur containing organic compound
- Y10S 502/509 . . Nitrogen containing organic compound
- Y10S 502/51 . . . Also containing hydroxyl bonded to carbon, e.g. carboxylic acid
- Y10S 502/511 . . . Two or more nitrogen atoms bonded to different carbon atoms
- Y10S 502/512 . . Carboxylic acid or salt thereof other than formic, acetic, or oxalic acid
- Y10S 502/513 . . Alcohol, phenol, or ether or metallate thereof
- Y10S 502/514 . Process applicable either to preparing or to regenerating or to rehabilitating catalyst or sorbent
- Y10S 502/515 . Specific contaminant removal

- Y10S 502/516 . . Metal contaminant removal
- Y10S 502/517 . . Sulfur or sulfur compound removal
- Y10S 502/518 . . Carbonaceous contaminant
- Y10S 502/519 . Reagent grade, e.g. ultra pure
- Y10S 502/52 . Suppressed side reactions
- Y10S 502/521 . Metal contaminant passivation
- Y10S 502/522 . Radiant or wave energy activated
- Y10S 502/523 . Miscellaneous specific techniques of general applicability
- Y10S 502/524 . Spinel
- Y10S 502/525 . Perovskite
- Y10S 502/526 . Sorbent for fluid storage, other than an alloy for hydrogen storage
- Y10S 502/52711 . Monolith of peculiar structure or physical form, with specified heat exchange capability
- Y10S 502/52712 . Plural layers on a support, each layer having a distinct function
- Y10S 502/52713 . . More than two overlapping layers
- Y10S 502/52714 . Specified support particles of peculiar structure or physical form, e.g. whiskers, fiber pieces
- Y10S 502/52715 . . Layered deposition on support particle, i.e. on a carrier particle
- Y10S 502/52716 . . Specified shape of support particle, e.g. hollow-carrier particle
- Y10S 502/52717 . . Specified cross-section shape or area of elongated support particles, e.g. tape, with area of cross section stated
- Y10S 502/52718 . Monolith with specified gas flow patterns, e.g. turbulent flow monolith
- Y10S 502/52719 . Monolith with specified shape or dimension of cell opening, e.g. honeycomb, rings
- Y10S 502/5272 . . Cell opening shape and dimensions are determined by the intersection of the woof and the warp of a woven structure, e.g. of a fabric or gauze
- Y10S 502/52721 . . Cell openings are quadrilateral or triangular, e.g. pie shaped
- Y10S 502/52722 . . Cell openings are spiral or corrugated
- Y10S 502/52723 . Specified external or internal shape or configuration of catalyst reactor or of sorbent converter
- Y10S 502/52724 . Peculiar structure or physical form, e.g. foam, sponge, foil, sack, bag, fiber in a matrix, monolith, microstructure, microcracking, or microaggregates

**Superconductor technology: apparatus, material, process**

- Y10S 505/00 Superconductor technology: apparatus, material, process**
- Y10S 505/70 . High TC, above 30 k, superconducting device, article, or structured stock
- Y10S 505/701 . . Coated or thin film device, i.e. active or passive
- Y10S 505/702 . . . Josephson junction present
- Y10S 505/703 . . . Microelectronic device with superconducting conduction line
- Y10S 505/704 . . Wire, fiber, or cable
- Y10S 505/705 . . . Magnetic coil

- Y10S 505/706 . . Contact pads or leads bonded to superconductor
- Y10S 505/725 . Process of making or treating high  $t_c$ , 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  $t_c$ , above 30 K, superconducting material
- Y10S 505/776 . . Containing transition metal oxide with rare earth or alkaline earth
- Y10S 505/777 . . . Lanthanum, e.g.  $\text{La}_2\text{CuO}_4$
- 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.  $\text{YBa}_2\text{Cu}_3\text{O}_7$
- 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.  $\text{BiCaSrCuO}$
- Y10S 505/783 . . . Thallium-, e.g.  $\text{Tl}_2\text{CaBaCu}_3\text{O}_8$
- Y10S 505/784 . . Bismuth-, e.g.  $\text{BaKBiO}$
- Y10S 505/785 . . Composition containing superconducting material and diverse nonsuperconducting material
- Y10S 505/786 . Manufacturing system or apparatus for making high temperature, i.e.  $t_c$  greater than 30 K superconductor product, device, article or stock, i.e. which system or apparatus does not itself contain a superconducting component
- Y10S 505/787 . #####
- Y10S 505/80 . Material per se process of making same
- Y10S 505/801 . . Composition

Y10S 505/802	. . . Organic
Y10S 505/803	. . . Magnetic
Y10S 505/804	. . . Amorphous alloy
Y10S 505/805	. . . Alloy or metallic
Y10S 505/806	. . . . Niobium base, Nb
Y10S 505/807	. . . Powder
Y10S 505/808	. . . Liquid crystal
Y10S 505/809	. . . Ceramic
Y10S 505/81	. . Compound
Y10S 505/811	. . . Organic
Y10S 505/812	. . Stock
Y10S 505/813	. . . Wire, tape, or film
Y10S 505/814	. . . Treated metal
Y10S 505/815	. . Process of making per se
Y10S 505/816	. . . Sputtering, including coating, forming, or etching
Y10S 505/817	. . . . forming josephson element
Y10S 505/818	. . . Coating
Y10S 505/819	. . . . Vapor deposition
Y10S 505/82	. . . . And etching
Y10S 505/821	. . . . Wire
Y10S 505/822	. . . Shaping
Y10S 505/823	. . . Powder metallurgy
Y10S 505/824	. . . Battery, thermo or photo-electric
Y10S 505/825	. Apparatus per se, device per se, or process of making or operating same
Y10S 505/826	. . Coating
Y10S 505/827	. . Code converter
Y10S 505/828	. . Modulator, demodulator, or detector
Y10S 505/829	. . Electrical computer or data processing system
Y10S 505/83	. . Electrical pulse counter, pulse divider, or shift register
Y10S 505/831	. . Static information storage system or device
Y10S 505/832	. . . Josephson junction type
Y10S 505/833	. . . Thin film type
Y10S 505/834	. . . . Plural, e.g. memory matrix
Y10S 505/835	. . . . . Content addressed, i.e. associative memory type
Y10S 505/836	. . . . . Location addressed, i.e. word organized memory type
Y10S 505/837	. . . . . Random access, i.e. bit organized memory type
Y10S 505/838	. . . Plural, e.g. memory matrix
Y10S 505/839	. . . . Content addressed, i.e. associative memory type
Y10S 505/84	. . . . Location addressed, i.e. word organized memory type
Y10S 505/841	. . . . Random access, i.e. bit organized memory type

Y10S 505/842	. . Measuring and testing
Y10S 505/843	. . . Electrical
Y10S 505/844	. . . . Nuclear magnetic resonance, NMR, system or device
Y10S 505/845	. . . . Magnetometer
Y10S 505/846	. . . . . using superconductive quantum interference device, i.e. squid
Y10S 505/847	. . . Thermal
Y10S 505/848	. . Radiant energy application
Y10S 505/849	. . . Infrared responsive electric signaling
Y10S 505/85	. . Protective circuit
Y10S 505/851	. . Control circuit for electromagnetic device
Y10S 505/852	. . Electric motor control
Y10S 505/853	. . Oscillator
Y10S 505/854	. . . with solid-state active element
Y10S 505/855	. . Amplifier
Y10S 505/856	. . Electrical transmission or interconnection system
Y10S 505/857	. . . Nonlinear solid-state device system or circuit
Y10S 505/858	. . . . Digital logic
Y10S 505/859	. . . . . Function of and, or, nand, nor or not
Y10S 505/86	. . . . Gating, i.e. switching circuit
Y10S 505/861	. . . . . with josephson junction
Y10S 505/862	. . . . . with thin film device
Y10S 505/863	. . . . Stable state circuit for signal shaping, converting, or generating
Y10S 505/864	. . . . . with josephson junction
Y10S 505/865	. . . . with josephson junction
Y10S 505/866	. . Wave transmission line, network, waveguide, or microwave storage device
Y10S 505/867	. . Electric power conversion system
Y10S 505/868	. . . Current conversion
Y10S 505/869	. . Power supply, regulation, or energy storage system
Y10S 505/87	. . . including transformer or inductor
Y10S 505/871	. . Magnetic lens
Y10S 505/872	. . Magnetic field shield
Y10S 505/873	. . Active solid-state device
Y10S 505/874	. . . with josephson junction, e.g. squid
Y10S 505/875	. . . Combined with housing and cryogenic fluid cooling
Y10S 505/876	. . Electrical generator or motor structure
Y10S 505/877	. . . Rotary dynamoelectric type
Y10S 505/878	. . . . with cooling
Y10S 505/879	. . Magnet or electromagnet
Y10S 505/88	. . Inductor
Y10S 505/881	. . Resistance device responsive to magnetic field



Y10S 505/882	. . . Circuit maker or breaker
Y10S 505/883	. . . Housing and mounting assembly with plural diverse electrical components
Y10S 505/884	. . . Conductor
Y10S 505/885	. . . . Cooling, or feeding, circulating, or distributing fluid; in superconductive apparatus
Y10S 505/886	. . . . Cable
Y10S 505/887	. . . . Conductor structure
Y10S 505/888	. . . Refrigeration
Y10S 505/889	. . . . Utilizing rare earth material
Y10S 505/89	. . . . Heat pipe device
Y10S 505/891	. . . . Magnetic or electrical effect cooling
Y10S 505/892	. . . . Magnetic device cooling
Y10S 505/893	. . . . Spectrometer
Y10S 505/894	. . . . Cyclic cryogenic system, e.g. sterling, gifford-mcmahon
Y10S 505/895	. . . . with regenerative heat exchanger
Y10S 505/896	. . . . Special refrigerant compound
Y10S 505/897	. . . . Cryogenic media transfer
Y10S 505/898	. . . . Cryogenic envelope
Y10S 505/899	. . . . Method of cooling
Y10S 505/90	. . . Heat exchange
Y10S 505/901	. . . . Heat pipe
Y10S 505/902	. . . Railway, e.g. rapid transit
Y10S 505/903	. . . . Suspension, e.g. magnetic, electrodynamic
Y10S 505/904	. . . . . Guidance means, i.e. in addition to the track
Y10S 505/905	. . . . . Motor structure
Y10S 505/906	. . . . . Switching device, i.e. electrical not railway stock diverting
Y10S 505/907	. . . . . Support structure
Y10S 505/908	. . . . . Method of operation
Y10S 505/909	. . . Power plant
Y10S 505/91	. . . Pump
Y10S 505/911	. . . Fluid reaction surface, i.e. impeller
Y10S 505/912	. . . Metal founding
Y10S 505/913	. . . . Casting process
Y10S 505/914	. . . . . using magnetic or electric field
Y10S 505/915	. . . . . Making composite product
Y10S 505/916	. . . . . Continuous casting
Y10S 505/917	. . . Mechanically manufacturing superconductor
Y10S 505/918	. . . . with metallurgical heat treating
Y10S 505/919	. . . . . Reactive formation of superconducting intermetallic compound
Y10S 505/92	. . . . . Utilizing diffusion barrier

Y10S 505/921	. . . . . Metal working prior to treating
Y10S 505/922	. . . Making josephson junction device
Y10S 505/923	. . . Making device having semiconductive component, e.g. integrated circuit
Y10S 505/924	. . . Making superconductive magnet or coil
Y10S 505/925	. . . Making superconductive joint
Y10S 505/926	. . . Mechanically joining superconductive members
Y10S 505/927	. . . Metallurgically bonding superconductive members
Y10S 505/928	. . . Metal deforming
Y10S 505/929	. . . . by extruding
Y10S 505/93	. . . . by drawing
Y10S 505/931	. . Classifying, separating, and assorting solids using magnetism
Y10S 505/932	. . . Separating diverse particulates
Y10S 505/933	. . . . in liquid slurry

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

<b>Y10S 507/00</b>	<b>Earth boring, well treating, and oil field chemistry</b>
Y10S 507/901	. Organically modified inorganic solid
Y10S 507/902	. Controlled release agent
Y10S 507/903	. Crosslinked resin or polymer
Y10S 507/904	. Process of making fluids or additives therefor
Y10S 507/905	. Nontoxic composition
Y10S 507/906	. Solid inorganic additive in defined physical form
Y10S 507/907	. Indicating means, e.g. dye, fluorescing agent
Y10S 507/91	. Earth boring fluid devoid of discrete aqueous phase
Y10S 507/92	. Biocidal
Y10S 507/921	. Specified breaker component for emulsion or gel
Y10S 507/922	. Fracture fluid
Y10S 507/923	. . Fracture acidizing
Y10S 507/924	. . with specified propping feature
Y10S 507/925	. Completion or workover fluid
Y10S 507/926	. Packer fluid
Y10S 507/927	. Well cleaning fluid
Y10S 507/928	. . Spacing slug or preflush fluid
Y10S 507/929	. . Cleaning organic contaminant
Y10S 507/93	. . . Organic contaminant is asphaltic
Y10S 507/931	. . . Organic contaminant is paraffinic
Y10S 507/932	. . Cleaning sulfur deposits
Y10S 507/933	. Acidizing or formation destroying
Y10S 507/934	. . with inhibitor

- Y10S 507/935 . Enhanced oil recovery
- Y10S 507/936 . . Flooding the formation
- Y10S 507/937 . . . with emulsion
- Y10S 507/938 . . . . with microemulsion
- Y10S 507/939 . Corrosion inhibitor
- Y10S 507/94 . Freeing stuck object from wellbore

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

#### **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 . Phencycline 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 . . Sick 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 antifoaming
- 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

#### **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

**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

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

**Y10S 522/00**

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

- Y10S 522/901
  - . Dark storage stabilizer
- Y10S 522/902
  - . Air inhibition
- Y10S 522/903
  - . Removal of residual monomer
- Y10S 522/904
  - . Monomer or polymer contains initiating group
- Y10S 522/905
  - . . Benzophenone group
- Y10S 522/906
  - . Preparing shrinkable material
- Y10S 522/907
  - . involving precursor of an ultraviolet absorber, e.g. monobenzoate

- Y10S 522/908 . Dental utility
- Y10S 522/909 . Solventless ink
- Y10S 522/91 . Treatment through an external filter or mask, nonphotographic process
- Y10S 522/911 . Specified treatment involving megarad or less
- Y10S 522/912 . . Polymer derived from ethylenic monomers only
- Y10S 522/913 . Numerically specified distinct wavelength
- Y10S 522/914 . . Wavelength of 200 nanometers or less
- Y10S 522/915 . involving inert gas, steam, nitrogen gas, or carbon dioxide

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

- | <b>Y10S 524/00</b> | <b>Synthetic resins or natural rubbers -- part of the class 520 series</b>  |
|--------------------|---|
| Y10S 524/90        | . Antigen-antibody  |
| Y10S 524/901       | . Electrodepositable compositions   |
| Y10S 524/902       | . . Electrostatic spray   |
| Y10S 524/903       | . Aerosol compositions  |
| Y10S 524/904       | . Powder coating compositions   |
| Y10S 524/905       | . Etch masking compositions   |
| Y10S 524/906       | . Multipackage compositions   |
| Y10S 524/907       | . Additive of specified shape other than fiber, particle, or powder   |
| Y10S 524/908       | . Composition having specified shape, e.g. rod, stick, or ball, and other than sheet, film, or fiber                          |
| Y10S 524/909       | . Reverse osmosis membrane compositions, e.g. desalinization  |
| Y10S 524/91        | . Antistatic compositions   |
| Y10S 524/911       | . . Composition to apply to a substrate to be destaticized  |
| Y10S 524/912       | . . Contains metal, boron, phosphorus, or silicon   |
| Y10S 524/913       | . . Contains nitrogen nonreactant material  |
| Y10S 524/914       | . Floor covering compositions   |
| Y10S 524/915       | . Carpet backing adhesives  |
| Y10S 524/916       | . Hydrogel compositions   |
| Y10S 524/917       | . Oil spill recovery compositions   |
| Y10S 524/918       | . Wood patching composition   |
| Y10S 524/919       | . Metal patching composition, e.g. body solder  |
| Y10S 524/92        | . Coilable pipe compositions  |
| Y10S 524/921       | . Elastic memory or heat shrinkable compositions  |
| Y10S 524/922       | . Flocculating, clarifying, or fining compositions  |
| Y10S 524/923       | . Treating or preparing a nonaqueous dispersion or emulsion of a solid polymer or specified intermediate condensation product |
| Y10S 524/924       | . Treating or preparing a nonaqueous solution of a solid polymer or specified intermediate condensation product               |

- Y10S 524/925
  - Natural rubber compositions having nonreactive materials, i.e. NRM, other than: carbon, silicon dioxide, glass titanium dioxide, water, hydrocarbon or halohydrocarbon
- Y10S 524/926
  - . with water as NRM, exemplified
- Y10S 524/929
  - . Natural rubber broadly disclosed, nonclaimed

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

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

- |   |   |
|---|---|
| <b>Y10S 526/00</b><br>Y10S 526/901<br>Y10S 526/902<br>Y10S 526/903<br>Y10S 526/904<br>Y10S 526/905<br>Y10S 526/906<br>Y10S 526/907<br>Y10S 526/908<br>Y10S 526/909<br>Y10S 526/91<br>Y10S 526/911<br>Y10S 526/912<br>Y10S 526/913<br>Y10S 526/914<br>Y10S 526/915 | <b>Synthetic resins or natural rubbers -- part of the class 520 series</b><br>. Monomer polymerized in vapor state in presence of transition metal containing catalyst<br>. Monomer polymerized in bulk in presence of transition metal containing catalyst<br>. Monomer polymerized in presence of transition metal containing catalyst and hydrocarbon additive affecting polymer properties of catalyst activity<br>. Monomer polymerized in presence of transition metal containing catalyst at least part of which is supported on a polymer, e.g. prepolymerized catalysts<br>. Polymerization in presence of transition metal containing catalyst in presence of hydrogen<br>. Comminution of transition metal containing catalyst<br>. Specified means of reacting components of transition metal catalyst<br>. Containing catalyst of specified particle size<br>. Polymerization characterized by particle size of product<br>. Suspending agents<br>. Emulsifying agents<br>. Reaction medium purification<br>. Vapor phase polymerization in absence of transition metal containing catalyst<br>. Polymer degradation<br>. Redox catalyst |
|---|---|

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

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

- |                    |  |
|--------------------|--|
| <b>Y10S 528/00</b> | <b>Synthetic resins or natural rubbers -- part of the class 520 series</b>   |
| Y10S 528/901       | . Room temperature curable silicon-containing polymer  |
| Y10S 528/902       | . Particulate material prepared from an isocyanate   |
| Y10S 528/903       | . Polymerizing or processing an isocyanate under substantially anhydrous conditions  |
| Y10S 528/904       | . Isocyanate polymer having stated hydrophilic or hydrophobic property   |
| Y10S 528/905       | . Polymer prepared from isocyanate reactant has adhesive property  |
| Y10S 528/906       | . Fiber or elastomer prepared from an isocyanate reactant  |
| Y10S 528/92        | . Polymers useful for replacing hard animal tissues, e.g. dentures, bones  |
| Y10S 528/93        | . Guayule rubber   |
| Y10S 528/931       | . Physical treatment of natural rubber or natural rubber containing material or chemical treatment of non-rubber portion thereof, e.g. extraction of rubber from milk weed |
| Y10S 528/932       | . . Protein removal or conversion  |
| Y10S 528/933       | . . Resin removal or conversion  |

- Y10S 528/934 . . Latex
- Y10S 528/935 . . . Preserving or stabilizing
- Y10S 528/936 . . . Coagulating
- Y10S 528/937 . . . Concentrating, e.g. creaming

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

**Y10S 530/00**

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

- Y10S 530/80 . Antihypertensive peptides
- Y10S 530/801 . Peptide sweeteners
- Y10S 530/802 . Chromogenic or luminescent peptides
- Y10S 530/806 . Antigenic peptides or proteins
- Y10S 530/807 . Hapten conjugated with peptide or protein
- Y10S 530/808 . Materials and products related to genetic engineering or hybrid or fused cell technology, e.g. hybridoma, monoclonal products
- Y10S 530/809 . . Fused cells, e.g. hybridoma
- Y10S 530/81 . Carrier - bound or immobilized peptides or proteins and the preparation thereof, e.g. biological cell or cell fragment as carrier
- Y10S 530/811 . . Peptides or proteins is immobilized on, or in, an inorganic carrier
- Y10S 530/812 . . Peptides or proteins is immobilized on, or in, an organic carrier
- Y10S 530/813 . . . Carrier is a saccharide
- Y10S 530/814 . . . . Cellulose or derivatives thereof
- Y10S 530/815 . . . Carrier is a synthetic polymer
- Y10S 530/816 . . . . Attached to the carrier via a bridging agent
- Y10S 530/817 . . . . Entrapped within the carrier, e.g. gel, hollow fibre
- Y10S 530/82 . Proteins from micro-organisms
- Y10S 530/821 . . Separation of nucleic acid
- Y10S 530/822 . . Protozoa
- Y10S 530/823 . . Lower fungi, e.g. mold
- Y10S 530/824 . . . Yeasts
- Y10S 530/825 . . Bacteria
- Y10S 530/826 . . Viruses
- Y10S 530/827 . Proteins from mammals or birds
- Y10S 530/828 . . Cancer
- Y10S 530/829 . . Blood
- Y10S 530/83 . . . Plasma; serum
- Y10S 530/831 . . . . Cohn fractions
- Y10S 530/832 . . Milk; colostrum
- Y10S 530/833 . . Whey; cheese
- Y10S 530/834 . . Urine; urinary system

Y10S 530/835	. . . Kidney
Y10S 530/836	. . Mucus; mucous glands; bursa; arthral fluid; spinal fluid
Y10S 530/837	. . Lymph; lymph-glands; thymus
Y10S 530/838	. . Marrow; spleen
Y10S 530/839	. . Nerves; brain
Y10S 530/84	. . Bones; tendons; teeth; cartilage
Y10S 530/841	. . Muscles; heart
Y10S 530/842	. . Skin; hair; nails; sebaceous glands; cerumen
Y10S 530/843	. . Digestive system
Y10S 530/844	. . . Stomach; intestine
Y10S 530/845	. . . Pancreas
Y10S 530/846	. . . Liver
Y10S 530/847	. . . Bile
Y10S 530/848	. . Lungs
Y10S 530/849	. . Eyes; vessels; umbilical cord
Y10S 530/85	. . Reproductive organs or embryos
Y10S 530/851	. . . Placenta; amniotic fluid
Y10S 530/852	. . . Sperm
Y10S 530/853	. . . . Ovary; eggs; embryos
Y10S 530/854	. . Glands
Y10S 530/855	. Proteins from animals other than mammals or birds
Y10S 530/856	. . Snakes; venom
Y10S 530/857	. . Fish; fish eggs; shell fish; crustacea
Y10S 530/858	. . insects; venom
Y10S 530/859	. Waste, waste material, refuse or sludge, e.g. effluents, fecal matter
Y10S 530/86	. Renin inhibitors
Y10S 530/861	. involving IgG3, IgG4, IgA, or IgY
Y10S 530/862	. involving IgE or IgD
Y10S 530/863	. involving IgM
Y10S 530/864	. . Monoclonal
Y10S 530/865	. . . Human
Y10S 530/866	. involving immunoglobulin or antibody fragment, e.g. fab', fab, fv, fc, heavy chain or light chain
Y10S 530/867	. involving immunoglobulin or antibody produced via recombinant dna technology
Y10S 530/868	. involving autoimmunity, allergy, immediate hypersensitivity, delayed hypersensitivity, immunosuppression, or immunotolerance

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

Y10S 534/00	<b>Organic compounds -- part of the class 532-570 series</b>
Y10S 534/01	. Mixtures of azo compounds



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

### **Chemistry of hydrocarbon compounds**

- |                    |   |
|--------------------|---|
| <b>Y10S 585/00</b> | <b>Chemistry of hydrocarbon compounds</b>   |
| Y10S 585/8995      | . Catalyst and recycle considerations   |
| Y10S 585/90        | . . Rehabilitation of H acceptor  |
| Y10S 585/901       | . . with recycle, rehabilitation, or preservation of solvent, diluent, or mass action agent |
| Y10S 585/902       | . . . Recycle of solvent and catalyst   |
| Y10S 585/903       | . . with hydrocarbon recycle to control synthesis reaction, e.g. by cooling, quenching      |
| Y10S 585/904       | . . Catalyst rehabilitation by reversion from different compound                            |
| Y10S 585/905       | . . by-product conversion to feed   |
| Y10S 585/906       | . . Catalyst preservation or manufacture, e.g. activation before use                        |
| Y10S 585/909       | . Heat considerations   |
| Y10S 585/91        | . . Exploiting or conserving heat of quenching, reaction, or regeneration                   |
| Y10S 585/911       | . . introducing, maintaining, or removing heat by atypical procedure                        |
| Y10S 585/912       | . . . Molten material   |
| Y10S 585/913       | . . . Electric  |
| Y10S 585/914       | . . . Phase change, e.g. evaporation  |
| Y10S 585/919       | . Apparatus considerations  |
| Y10S 585/92        | . . using apparatus of recited composition  |
| Y10S 585/921       | . . using recited apparatus structure   |
| Y10S 585/922       | . . . Reactor fluid manipulating device   |
| Y10S 585/923       | . . . . At reactor inlet  |
| Y10S 585/924       | . . . Reactor shape or disposition  |
| Y10S 585/925       | . . . . Dimension or proportion   |
| Y10S 585/926       | . . . . Plurality or verticality  |
| Y10S 585/929       | . Special chemical considerations   |
| Y10S 585/93        | . . Process including synthesis of nonhydrocarbon intermediate                              |



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

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

- Y10S 588/00**      **Hazardous or toxic waste destruction or containment**
- Y10S 588/90 . Apparatus
- Y10S 588/901 . Compositions

#### **Surgery**

- Y10S 600/00**      **Surgery**
- Y10S 600/92 . Method of making endoscopes
- Y10S 600/921 . Manipulating image characteristics

#### **Surgery: kinesitherapy**

- Y10S 601/00**      **Surgery: kinesitherapy**
- Y10S 601/01 . with thermal application
- Y10S 601/02 . . with fluid supply
- Y10S 601/03 . with electrical application

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

### **Surgery: splint, brace, or bandage**

- Y10S 602/00      Surgery: splint, brace, or bandage**
- Y10S 602/90 . Method of making bandage structure
- Y10S 602/901 . Tubular bandage applicators
- Y10S 602/902 . Antisnoring or mouth closing devices
- Y10S 602/903 . Surgical tape
- Y10S 602/904 . Film-forming bandage material

### **Surgery**

- Y10S 604/00      Surgery**
- Y10S 604/90 . Telltale showing entry of blood into body inserted conduit
- Y10S 604/901 . Injection device with thermometer
- Y10S 604/902 . Suction wands
- Y10S 604/903 . Medical container with material agitation means
- Y10S 604/904 . Tampons
- Y10S 604/905 . Aseptic connectors or couplings, e.g. frangible, piercable
- Y10S 604/906 . Artificial insemination

**Surgery****Y10S 606/00****Surgery**

- Y10S 606/90 . Lumbar stabilizer
- Y10S 606/901 . Thoracic stabilizer
- Y10S 606/902 . Cortical plate specifically adapted for a particular bone
- 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

**Surgery: light, thermal, and electrical application****Y10S 607/00****Surgery: light, thermal, and electrical application**

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

**Prosthesis, i.e. artificial body members, parts thereof, or aids and accessories therefor****Y10S 623/00****Prosthesis, i.e. artificial body members, parts thereof, or aids and accessories therefor**

- Y10S 623/90 . Stent for heart valve
- Y10S 623/901 . Method of manufacturing prosthetic device
- Y10S 623/902 . Method of implanting
- Y10S 623/903 . . Blood vessel
- Y10S 623/904 . . Heart
- Y10S 623/905 . . Eye
- Y10S 623/906 . . . Corneal
- Y10S 623/907 . . . Method of manipulating parts of intraocular lens structure for implantation

- Y10S 623/908 . . Bone
- Y10S 623/909 . Method or apparatus for assembling prosthetic
- Y10S 623/91 . . Heart
- Y10S 623/911 . . Bone
- Y10S 623/912 . Method or apparatus for measuring or testing prosthetic
- Y10S 623/913 . . Heart
- Y10S 623/914 . . Bone
- Y10S 623/915 . Method or apparatus for preparing biological material
- Y10S 623/916 . . Blood vessel
- Y10S 623/917 . . . Collagen
- Y10S 623/918 . . Heart
- Y10S 623/919 . . Bone
- Y10S 623/92 . Method or apparatus for preparing or treating prosthetic
- Y10S 623/921 . . Blood vessel
- Y10S 623/922 . . Heart
- Y10S 623/923 . . Bone
- Y10S 623/924 . Material characteristic
- Y10S 623/925 . . Natural
- Y10S 623/926 . . Synthetic

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

- Y10S 700/00**      **Data processing: generic control systems or specific applications**
- Y10S 700/90 . Special robot structural element

**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

**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

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

<b>Y10S 707/00</b>	<b>Data processing: database and file management or data structures</b>
Y10S 707/912	. Applications of a database
Y10S 707/913	. . Multimedia
Y10S 707/914	. . . Video
Y10S 707/915	. . . Image
Y10S 707/916	. . . Audio
Y10S 707/917	. . Text
Y10S 707/918	. . Location
Y10S 707/919	. . . Geographic
Y10S 707/92	. . . . Navigation
Y10S 707/921	. . . Spatial
Y10S 707/922	. . Communications
Y10S 707/923	. . Intellectual property
Y10S 707/924	. . . Patent procedure
Y10S 707/925	. . . . Drafting an application
Y10S 707/926	. . . . Drafting drawing or figures
Y10S 707/927	. . . . Validation
Y10S 707/928	. . . . Electronic submission
Y10S 707/929	. . . . Docketing
Y10S 707/93	. . . intellectual property analysis
Y10S 707/931	. . . . Patent comparison
Y10S 707/932	. . . . . Infringement detection
Y10S 707/933	. . . . Citation analysis
Y10S 707/934	. . . . Analyzing patent activity
Y10S 707/935	. . . . . Company or stock valuation
Y10S 707/936	. . . for use in research and development
Y10S 707/937	. . . intellectual property searching
Y10S 707/938	. . . intellectual property markets
Y10S 707/939	. . . Idea solicitation
Y10S 707/94	. . Infrastructure
Y10S 707/941	. . Human sciences
Y10S 707/942	. . Legal/academic
Y10S 707/943	. . News
Y10S 707/944	. . Business related
Y10S 707/945	. . . Contract negotiation
Y10S 707/946	. . . Real estate
Y10S 707/947	. . . Human resources

Y10S 707/948	. . . Product or catalog
Y10S 707/949	. . . Inventory
Y10S 707/95	. . Financial
Y10S 707/951	. . Calendar or scheduling
Y10S 707/952	. . Malicious software
Y10S 707/953	. Organization of data
Y10S 707/954	. . Relational
Y10S 707/955	. . Object-oriented
Y10S 707/956	. . Hierarchical
Y10S 707/957	. . Multidimensional
Y10S 707/958	. . Data cubes
Y10S 707/959	. . Network
Y10S 707/96	. . Object-relational
Y10S 707/961	. . Associative
Y10S 707/962	. . Entity-attribute-value
Y10S 707/963	. . Hybrid
Y10S 707/964	. Database arrangement
Y10S 707/965	. . Standalone
Y10S 707/966	. . Distributed
Y10S 707/967	. . . Peer-to-peer
Y10S 707/968	. . . . Partitioning
Y10S 707/969	. . . . . Horizontal partitioning
Y10S 707/97	. . . . . Vertical partitioning
Y10S 707/971	. . . Federated
Y10S 707/972	. . . . Partitioning
Y10S 707/973	. . . . . Horizontal partitioning
Y10S 707/974	. . . . . Vertical partitioning
Y10S 707/975	. . Portable database architecture
Y10S 707/99931	. Database or file accessing
Y10S 707/99932	. . Access augmentation or optimizing
Y10S 707/99933	. . Query processing, i.e. searching
Y10S 707/99934	. . . Query formulation, input preparation, or translation
Y10S 707/99935	. . . Query augmenting and refining, e.g. inexact access
Y10S 707/99936	. . . Pattern matching access
Y10S 707/99937	. . Sorting
Y10S 707/99938	. . Concurrency, e.g. lock management in shared database
Y10S 707/99939	. . Privileged access
Y10S 707/9994	. . Distributed or remote access
Y10S 707/99941	. Database schema or data structure
Y10S 707/99942	. . Manipulating data structure, e.g. compression, compaction, compilation

- Y10S 707/99943 . . Generating database or data structure, e.g. via user interface
- Y10S 707/99944 . . Object-oriented database structure
- Y10S 707/99945 . . . Object-oriented database structure processing
- Y10S 707/99946 . . . Object-oriented database structure network
- Y10S 707/99947 . . . Object-oriented database structure reference
- Y10S 707/99948 . . Application of database or data structure, e.g. distributed, multimedia, or image
- Y10S 707/99951 . File or database maintenance
- Y10S 707/99952 . . Coherency, e.g. same view to multiple users
- Y10S 707/99953 . . . Recoverability
- Y10S 707/99954 . . . Version management
- Y10S 707/99955 . . . Archiving or backup
- Y10S 707/99956 . . File allocation
- Y10S 707/99957 . . . Garbage collection

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

- 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



**Robots****Y10S 901/00**

Y10S 901/01

Y10S 901/02

Y10S 901/03

Y10S 901/04

Y10S 901/05

Y10S 901/06

Y10S 901/07

Y10S 901/08

Y10S 901/09

Y10S 901/10

Y10S 901/11

Y10S 901/12

Y10S 901/13

Y10S 901/14

Y10S 901/15

Y10S 901/16

Y10S 901/17

Y10S 901/18

Y10S 901/19

Y10S 901/20

Y10S 901/21

Y10S 901/22

Y10S 901/23

Y10S 901/24

Y10S 901/25

Y10S 901/26

Y10S 901/27

Y10S 901/28

Y10S 901/29

Y10S 901/30

Y10S 901/31

Y10S 901/32

Y10S 901/33

Y10S 901/34

Y10S 901/35

Y10S 901/36

**Robots**

- . Mobile robot
- . Arm motion controller
- . . Teaching system
- . . . Manual lead through
- . . . Machine driven lead through
- . . Communication with another machine
- . . . Conveyor
- . . . Robot
- . . Closed loop, sensor feedback controls arm movement
- . . . Sensor physically contacts and follows work contour
- . . Mechanically actuated present limit
- . . . Cam
- . . . Limit switch
- . Arm movement, spatial
- . . Jointed arm
- . . Cartesian, three degrees of freedom
- . . Cylindrical
- . . Spherical
- . Drive system for arm
- . . with provision for altering speed of driven element
- . . Flaccid drive element
- . . Fluid motor
- . . Electric motor
- . . . Stepper motor
- . . Gearing
- . . . including bevel gear
- . Arm part
- . . Joint
- . . . Wrist
- . End effector
- . . Gripping jaw
- . . . Servo-actuated
- . . . . Tactile sensor
- . . . . force feedback
- . . . . Proximity
- . . . 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

### **Electronic funds transfer**

<b>Y10S 902/00</b>	<b>Electronic funds transfer</b>
Y10S 902/01	. with electronic means providing security
Y10S 902/02	. . Protects transmitted data, e.g. encryption or decryption
Y10S 902/03	. . Evaluates biometrics
Y10S 902/04	. . Means to read data stored on identifier*
Y10S 902/05	. . . And to verify identity of user*
Y10S 902/06	. . Image processor, e.g. video camera
Y10S 902/07	. . Means to identify counterfeit money
Y10S 902/08	. Terminal* with means permitting deposit or withdrawal, e.g. ATM
Y10S 902/09	. . with secure receptacle, e.g. safe, depository
Y10S 902/10	. . . Remote from terminal
Y10S 902/11	. . . And value discriminator
Y10S 902/12	. . . Serving as both depository and source for, e.g. note dispensing recycling
Y10S 902/13	. . . Dispensing, e.g. money cassette
Y10S 902/14	. . with cash dispenser
Y10S 902/15	. . . including currency feeder
Y10S 902/16	. . . . Sensitive to erroneous passage of plural bills
Y10S 902/17	. . with particular feeder or counter feature
Y10S 902/18	. . with printer
Y10S 902/19	. . . And page turner
Y10S 902/20	. . with specific data input means, e.g. keyboard
Y10S 902/21	. . with specific data output means or indicator
Y10S 902/22	. Terminal* registers transaction*, e.g. point of sale terminal*

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

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

- | <b>Y10S 903/00</b> | <b>Hybrid electric vehicles, HEVS</b>   |
|--------------------|---|
| Y10S 903/902       | . Prime movers comprising electrical and internal combustion motors                         |
| Y10S 903/903       | . . having energy storing means, e.g. battery, capacitor                                    |
| Y10S 903/904       | . . . Component specially adapted for hev   |
| Y10S 903/905       | . . . . Combustion engine   |
| Y10S 903/906       | . . . . Motor or generator  |
| Y10S 903/907       | . . . . Electricity storage, e.g. battery, capacitor  |
| Y10S 903/908       | . . . . Fuel cell   |
| Y10S 903/909       | . . . . Gearing   |
| Y10S 903/91        | . . . . . Orbital, e.g. planetary gears   |
| Y10S 903/911       | . . . . . with two or more gear sets  |
| Y10S 903/912       | . . . . Drive line clutch   |
| Y10S 903/913       | . . . . One way   |
| Y10S 903/914       | . . . . . Actuated, e.g. engaged or disengaged by electrical, hydraulic or mechanical means |
| Y10S 903/915       | . . . . Specific drive or transmission adapted for hev                                      |
| Y10S 903/916       | . . . . . with plurality of drive axles   |
| Y10S 903/917       | . . . . . with transmission for changing gear ratio   |

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

### **Peptide or protein sequence**

<b>Y10S 930/00</b>	<b>Peptide or protein sequence</b>
Y10S 930/01	. Peptide or protein sequence
Y10S 930/02	. . Containing modified or unusual amino acid
Y10S 930/021	. . . Containing D-amino acid
Y10S 930/022	. . . Containing radioactive atom
Y10S 930/023	. . . Containing halogen
Y10S 930/024	. . . Containing sulfur
Y10S 930/025	. . . Containing heavy metal or salt thereof
Y10S 930/03	. . Linear peptide or protein containing a nonpeptide or abnormal peptide link
Y10S 930/031	. . . Retro-inverted
Y10S 930/04	. . Angiotensin; related peptides
Y10S 930/05	. . Atrial or brain natriuretic peptide; related peptides
Y10S 930/06	. . Calcitonin; related peptides
Y10S 930/07	. . Corticotropin; related peptides
Y10S 930/08	. . Endorphin or enkephalin; related peptides
Y10S 930/09	. . Erythropoietin; related peptides
Y10S 930/10	. . Factor VIII, AHF; related peptides
Y10S 930/11	. . Gonadotropin; related peptides
Y10S 930/12	. . Growth hormone, growth factor other than t-cell or b-cell growth factor, and growth hormone releasing factor; related peptides
Y10S 930/13	. . Luteinizing hormone-releasing hormone; related peptides
Y10S 930/14	. . Lymphokine; related peptides
Y10S 930/141	. . . Interleukin
Y10S 930/142	. . . Interferon
Y10S 930/143	. . . Lymphotoxin
Y10S 930/144	. . . Tumor necrosis factor
Y10S 930/145	. . . Colony stimulating factor

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

## **Nanotechnology**

- |                    |   |
|--------------------|---|
| <b>Y10S 977/00</b> | <b>Nanotechnology</b>   |
| Y10S 977/70        | . Nanostructure   |
| Y10S 977/701       | . . Integrated with dissimilar structures on a common substrate                       |
| Y10S 977/702       | . . . having biological material component  |
| Y10S 977/703       | . . . . Cellular  |
| Y10S 977/704       | . . . . Nucleic acids, e.g. DNA or RNA  |
| Y10S 977/705       | . . . . Protein or peptide  |
| Y10S 977/706       | . . . . Carbohydrate  |
| Y10S 977/707       | . . . having different types of nanoscale structures or devices on a common substrate |
| Y10S 977/708       | . . . with distinct switching device  |
| Y10S 977/709       | . . . . including molecular switching device  |
| Y10S 977/71        | . . . . . Biological switching  |

Y10S 977/711	. . . . . Nucleic acid switching
Y10S 977/712	. . . formed from plural layers of nanosized material, e.g. stacked structures
Y10S 977/713	. . . . including lipid layer
Y10S 977/714	. . . . Containing protein
Y10S 977/715	. . . On an organic substrate
Y10S 977/716	. . . . Biological cell surface
Y10S 977/717	. . . . Lipid substrate
Y10S 977/718	. . . . Carbohydrate substrate
Y10S 977/719	. . . . Nucleic acid substrate
Y10S 977/72	. . . On an electrically conducting, semi-conducting, or semi-insulating substrate
Y10S 977/721	. . . . On a silicon substrate
Y10S 977/722	. . . . On a metal substrate
Y10S 977/723	. . . On an electrically insulating substrate
Y10S 977/724	. . Devices having flexible or movable element
Y10S 977/725	. . . Nanomotor/nanoactuator
Y10S 977/726	. . . . using chemical reaction/biological energy, e.g. ATP
Y10S 977/727	. . . formed from biological material
Y10S 977/728	. . . . Nucleic acids, e.g. DNA or RNA
Y10S 977/729	. . . . From protein or unit thereof, e.g. enzyme or carboxyl group
Y10S 977/73	. . . . for electrical purposes
Y10S 977/731	. . . formed from a single atom, molecule, or cluster
Y10S 977/732	. . . Nanocantilever
Y10S 977/733	. . . Nanodiaphragm
Y10S 977/734	. . Fullerenes, i.e. graphene-based structures, such as nanohorns, nanococoons, nanoscrolls or fullerene-like structures, e.g. WS <sub>2</sub> or MoS <sub>2</sub> chalcogenide nanotubes, planar C <sub>3</sub> N <sub>4</sub> , etc.
Y10S 977/735	. . . Carbon buckyball
Y10S 977/736	. . . . having atoms interior to the carbon cage
Y10S 977/737	. . . . having a modified surface
Y10S 977/738	. . . . . Modified with biological, organic, or hydrocarbon material
Y10S 977/739	. . . . . Modified with an enzyme
Y10S 977/74	. . . . . Modified with atoms or molecules bonded to the surface
Y10S 977/741	. . . . . Modified with dissimilar atom or molecule substituted for carbon atoms of the buckyball, e.g. impurity doping or compositional substitution
Y10S 977/742	. . . Carbon nanotubes, CNTs
Y10S 977/743	. . . . having specified tube end structure, e.g. close-ended shell or open-ended tube
Y10S 977/744	. . . . having atoms interior to the carbon cage
Y10S 977/745	. . . . having a modified surface
Y10S 977/746	. . . . . Modified with biological, organic, or hydrocarbon material

Y10S 977/747	. . . . . Modified with an enzyme
Y10S 977/748	. . . . . Modified with atoms or molecules bonded to the surface
Y10S 977/749	. . . . . Modified with dissimilar atoms or molecules substituted for carbon atoms of the cnt, e.g. impurity doping or compositional substitution
Y10S 977/75	. . . . . Single-walled
Y10S 977/751	. . . . . with specified chirality and/or electrical conductivity
Y10S 977/752	. . . . . Multi-walled
Y10S 977/753	. . . with polymeric or organic binder
Y10S 977/754	. . Dendrimer, i.e. serially branching or "tree-like" structure
Y10S 977/755	. . Nanosheet or quantum barrier/well, i.e. layer structure having one dimension or thickness of 100 nm or less
Y10S 977/756	. . . Lipid layer
Y10S 977/757	. . . . Layer containing protein
Y10S 977/758	. . . Mono-atomic layer on delta-doped sheet
Y10S 977/759	. . . Quantum well dimensioned for intersubband transitions, e.g. for use in unipolar light emitters or quantum well infrared photodetectors
Y10S 977/76	. . . Superlattice with graded effective bandgap, e.g. "chirp-graded" superlattice
Y10S 977/761	. . . Superlattice with well or barrier thickness adapted for increasing the reflection, transmission, or filtering of carriers having energies above the bulk-form conduction or valence band energy level of the well or barrier, i.e. well or barrier with $n$ -integer- $\lambda$ -carrier- $/4$ thickness
Y10S 977/762	. . Nanowire or quantum wire, i.e. axially elongated structure having two dimensions of 100 nm or less
Y10S 977/763	. . . formed along or from crystallographic terraces or ridges
Y10S 977/764	. . . with specified packing density
Y10S 977/765	. . . with specified cross-sectional profile, e.g. belt-shaped
Y10S 977/766	. . . Bent wire, i.e. having nonlinear longitudinal axis
Y10S 977/767	. . . . Mesh structure
Y10S 977/768	. . . . Helical wire
Y10S 977/769	. . . . . formed with nucleic acid
Y10S 977/77	. . . . . formed with polyamide polymers
Y10S 977/771	. . . . Nanoring
Y10S 977/772	. . . . . formed from circular biomolecule, e.g. DNA, heme, chelators
Y10S 977/773	. . Nanoparticle i.e. structure having three dimensions of 100 nm or less
Y10S 977/774	. . . Exhibiting three-dimensional carrier confinement, e.g. quantum dots
Y10S 977/775	. . . Nanosized powder or flake, e.g. nanosized catalyst
Y10S 977/776	. . . . Ceramic powder or flake
Y10S 977/777	. . . . Metallic powder or flake
Y10S 977/778	. . within specified host or matrix material, e.g. nanocomposite films
Y10S 977/779	. . . Possessing nanosized particles, powders, flakes, or clusters other than simple atomic impurity doping

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



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

Y10S 977/852	. . .	for detection of specific nanostructure sample or nanostructure-related property
Y10S 977/853	. . . .	Biological sample
Y10S 977/854	. . . .	Semiconductor sample
Y10S 977/855	. . .	for manufacture of nanostructure
Y10S 977/856	. . . .	including etching/cutting
Y10S 977/857	. . . .	including coating
Y10S 977/858	. . . .	including positioning/mounting nanostructure
Y10S 977/859	. . . .	including substrate treatment
Y10S 977/86	. . .	Scanning probe structure
Y10S 977/861	. . . .	Scanning tunneling probe
Y10S 977/862	. . . .	Near-field probe
Y10S 977/863	. . . .	Atomic force probe
Y10S 977/864	. . . .	Electrostatic force probe
Y10S 977/865	. . . .	Magnetic force probe
Y10S 977/866	. . . .	Scanning capacitance probe
Y10S 977/867	. . . .	Scanning thermal probe
Y10S 977/868	. . . .	with optical means
Y10S 977/869	. . . . .	Optical microscope
Y10S 977/87	. . . . .	Optical lever arm for reflecting light
Y10S 977/871	. . . .	with environmental regulation means
Y10S 977/872	. . . .	Positioner
Y10S 977/873	. . . .	Tip holder
Y10S 977/874	. . . .	Probe tip array
Y10S 977/875	. . . .	with tip detail
Y10S 977/876	. . . . .	Nanotube tip
Y10S 977/877	. . . . .	Chemically functionalized
Y10S 977/878	. . . . .	Shape/taper
Y10S 977/879	. . . . .	Material
Y10S 977/88	. .	with arrangement, process, or apparatus for testing
Y10S 977/881	. . .	Microscopy or spectroscopy, e.g. sem, tem
Y10S 977/882	. .	Assembling of separate components, e.g. by attaching
Y10S 977/883	. . .	Fluidic self-assembly, FSA
Y10S 977/884	. . .	Assembled via biorecognition entity
Y10S 977/885	. . . .	Via nucleic acid hybridization
Y10S 977/886	. . . .	Via protein recognition
Y10S 977/887	. .	Nanoimprint lithography, i.e. nanostamp
Y10S 977/888	. .	Shaping or removal of materials, e.g. etching
Y10S 977/889	. . .	by laser ablation
Y10S 977/89	. .	Deposition of materials, e.g. coating, cvd, or ald

Y10S 977/891	. . . Vapor phase deposition
Y10S 977/892	. . . Liquid phase deposition
Y10S 977/893	. . . Deposition in pores, molding, with subsequent removal of mold
Y10S 977/894	. . having step or means utilizing biological growth
Y10S 977/895	. . having step or means utilizing chemical property
Y10S 977/896	. . . Chemical synthesis, e.g. chemical bonding or breaking
Y10S 977/897	. . . . Polymerization
Y10S 977/898	. . . . Enzymatic
Y10S 977/899	. . . . Electrolytic
Y10S 977/90	. . having step or means utilizing mechanical or thermal property, e.g. pressure, heat
Y10S 977/901	. . having step or means utilizing electromagnetic property, e.g. optical, x-ray, electron beam
Y10S 977/902	. Specified use of nanostructure
Y10S 977/903	. . for conversion, containment, or destruction of hazardous material
Y10S 977/904	. . for medical, immunological, body treatment, or diagnosis
Y10S 977/905	. . . Specially adapted for travel through blood circulatory system
Y10S 977/906	. . . Drug delivery
Y10S 977/907	. . . . Liposome
Y10S 977/908	. . . Mechanical repair performed/surgical
Y10S 977/909	. . . . Obstruction removal
Y10S 977/91	. . . . Strengthening cell or tissue
Y10S 977/911	. . . . Cancer cell destruction
Y10S 977/912	. . . . Cancer cell repair
Y10S 977/913	. . . . Stem cell therapy implantation
Y10S 977/914	. . . Protein engineering
Y10S 977/915	. . . Therapeutic or pharmaceutical composition
Y10S 977/916	. . . . Gene therapy
Y10S 977/917	. . . . Vaccine
Y10S 977/918	. . . Immunological
Y10S 977/919	. . . Dental
Y10S 977/92	. . . Detection of biochemical
Y10S 977/921	. . . . Of toxic chemical
Y10S 977/922	. . . . Of explosive material
Y10S 977/923	. . . Cell culture
Y10S 977/924	. . . using nanostructure as support of dna analysis
Y10S 977/925	. . . Bioelectrical
Y10S 977/926	. . . Topical chemical, e.g. cosmetic or sunscreen
Y10S 977/927	. . . Diagnostic contrast agent
Y10S 977/928	. . . . X-ray agent

Y10S 977/929	. . . .	Ultrasound contrast agent
Y10S 977/93	. . . .	MRI contrast agent
Y10S 977/931	. . .	Medical device coating
Y10S 977/932	. .	for electronic or optoelectronic application
Y10S 977/933	. . .	Spintronics or quantum computing
Y10S 977/934	. . . .	Giant magnetoresistance, GMR
Y10S 977/935	. . . .	Spin dependent tunnel, SDT, junction, e.g. tunneling magnetoresistance, TMR
Y10S 977/936	. . .	in a transistor or 3-terminal device
Y10S 977/937	. . . .	Single electron transistor
Y10S 977/938	. . . .	Field effect transistors, FETS, with nanowire- or nanotube-channel region
Y10S 977/939	. . .	Electron emitter, e.g. spindt emitter tip coated with nanoparticles
Y10S 977/94	. . .	in a logic circuit
Y10S 977/941	. . . .	including dna logic element
Y10S 977/942	. . . .	including protein logic element
Y10S 977/943	. . .	Information storage or retrieval using nanostructure
Y10S 977/944	. . . .	Biochemical memory
Y10S 977/945	. . . . .	Protein memory
Y10S 977/946	. . . . .	Nucleic acid memory
Y10S 977/947	. . . .	with scanning probe instrument
Y10S 977/948	. . .	Energy storage/generating using nanostructure, e.g. fuel cell, battery
Y10S 977/949	. . .	Radiation emitter using nanostructure
Y10S 977/95	. . . .	Electromagnetic energy
Y10S 977/951	. . . . .	Laser
Y10S 977/952	. . .	Display
Y10S 977/953	. . .	Detector using nanostructure
Y10S 977/954	. . . .	Of radiant energy
Y10S 977/955	. . . .	Of thermal property
Y10S 977/956	. . . .	Of mechanical property
Y10S 977/957	. . . .	Of chemical property or presence
Y10S 977/958	. . . . .	Of biomolecule property
Y10S 977/959	. . . . .	Of disease state
Y10S 977/96	. . . .	Of magnetic property
Y10S 977/961	. .	for textile or fabric treatment
Y10S 977/962	. .	for carrying or transporting
Y10S 977/963	.	Miscellaneous