

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

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

Guidance heading: Apparel**Y10S 2/00****Apparel**

- Y10S 2/01 . Ventilated garment
- Y10S 2/02 . Reversible garment
- Y10S 2/03 . Inflatable garment
- Y10S 2/04 . Free swing garment
- Y10S 2/05 . Waterproof garment with gutters
- Y10S 2/08 . Rear-view mirror
- Y10S 2/09 . Stocking-girdle relationship
- Y10S 2/10 . Inflatable hat
- Y10S 2/11 . Headband
- Y10S 2/90 . Camouflaged
- Y10S 2/901 . Antibacterial, antitoxin, or clean room
- Y10S 2/902 . Antistatic
- Y10S 2/903 . Fiberglass
- Y10S 2/904 . Polytetrafluoroethylene
- Y10S 2/905 . Electric
- Y10S 2/906 . . Head covering or protector
- Y10S 2/907 . Glove having three, four, or six finger pockets
- Y10S 2/908 . Guard or protector having a hook-loop type fastener

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| Y10S 2/909 | .. Head protector, e.g. helmet, goggles |
| Y10S 2/91 | .. Hand or wrist protector |
| Y10S 2/911 | .. Leg protector |
| Y10S 2/912 | . Garment having a hook-loop type fastener |
| Y10S 2/913 | .. Chest encircling, e.g. shirt, vest |
| Y10S 2/914 | ... Combined nether, e.g. union suit, bag type, overalls |
| Y10S 2/915 | ... having plural body encircling layers, e.g. coat |
| Y10S 2/916 | .. Neck covering, e.g. necktie |
| Y10S 2/917 | .. Hand or wrist covering |
| Y10S 2/918 | .. Head covering |
| Y10S 2/919 | .. Lower torso and leg encircling, e.g. skirts, trousers |
| Y10S 2/92 | . Garment supporter or retainer having a hook-loop type fastener |

Guidance heading: Baths, closets, sinks, and spittoons

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

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| Y10S 4/01 | . Plural connected floats |
| Y10S 4/02 | . Disappearing bowl |
| Y10S 4/03 | . Electric flushing |
| Y10S 4/04 | . Garbage grinder |
| Y10S 4/05 | . Urine guards |
| Y10S 4/06 | . Heated seats |
| Y10S 4/07 | . House plumbing fittings |
| Y10S 4/08 | . Rubber seats |
| Y10S 4/09 | . Methods |
| Y10S 4/10 | . Water additive or substitute |
| Y10S 4/11 | . Oil toilet |
| Y10S 4/12 | . Aerobic decomposing toilet |
| Y10S 4/13 | . Toilet having deformable trap |
| Y10S 4/14 | . Pipe strainers |
| Y10S 4/15 | . Prison bathrooms |

- Y10S 4/16 . Deformable toilet traps
- Y10S 4/17 . Electrolytic toilets
- Y10S 4/18 . Bathroom fixture liners
- Y10S 4/19 . Liquid-solid separators
- Y10S 4/90 . Decontamination shower
- Y10S 4/901 . Bowl skirt or tank cover
- Y10S 4/902 . Toilet training
- Y10S 4/903 . Shower head with material dispensing
- Y10S 4/904 . Swim-in-place pool
- Y10S 4/905 . Squat bowl

Guidance heading: Beds

Y10S 5/00 Beds

- Y10S 5/01 . with means to attach canopy or netting to unmodified bed or bedstead
- Y10S 5/90 . Bathtub or bed
- Y10S 5/901 . Mattress or pad with a convoluted, e.g. egg crate surface
- Y10S 5/902 . Mattress with nonrectangular supporting surface
- Y10S 5/904 . with sound emitting means
- Y10S 5/905 . with light emitting means
- Y10S 5/906 . with magnetic means
- Y10S 5/907 . with decorative structure
- Y10S 5/908 . . Mirror
- Y10S 5/909 . Flowable viscous, e.g. gel material containing
- Y10S 5/91 . with suction means
- Y10S 5/911 . Bead containing
- Y10S 5/913 . . with suction means
- Y10S 5/915 . with vibrating means

- Y10S 5/922 . with hook and loop type fastener
- Y10S 5/923 . . Bedclothing
- Y10S 5/924 . Cardboard containing
- Y10S 5/925 . Highly frictional material
- Y10S 5/926 . Low friction, e.g. slippery material
- Y10S 5/927 . Sofa beds with motor means
- Y10S 5/928 . with sprinkling or washing means
- Y10S 5/929 . Facilitating sexual relations
- Y10S 5/93 . for pregnant user
- Y10S 5/931 . with safe or hiding place
- Y10S 5/932 . Seals and sealing methods, for plastics
- Y10S 5/933 . Massaging bed
- Y10S 5/934 . . with movable transverse slats
- Y10S 5/935 . with adjustable firmness
- Y10S 5/936 . with adjustable firmness comprising springs
- Y10S 5/937 . Body support with lowerable support portion to provide access to a portion of the supported body
- Y10S 5/938 . with reflective material
- Y10S 5/939 . with microporous material
- Y10S 5/94 . with alarm means
- Y10S 5/941 . Blanket with forced air flow
- Y10S 5/942 . Longitudinally divided top surface with pivotable section
- Y10S 5/943 . with horizontally movable top surface
- Y10S 5/944 . with upstanding firm massaging projections
- Y10S 5/945 . Inflatable baby support with inflatable peripheral guard
- Y10S 5/946 . Crib bumper
- Y10S 5/947 . Wall mounted baby changer
- Y10S 5/948 . Body support with unique, specific filler material

- Y10S 5/949 Comprising animal derived product
- Y10S 5/95 Comprising feathers or down
- Y10S 5/951 Comprising plant derived material
- Y10S 5/952 Comprising artificial fiber
- Y10S 5/953 Comprising structurally defined foam material or configuration
- Y10S 5/954 Fireproof

Guidance heading: Compound tools

Y10S 7/00 Compound tools

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

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

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

- Y10S 8/01 Silicones
- Y10S 8/02 Vinyl sulfones and precursors thereof
- Y10S 8/03 Swelling and stretching
- Y10S 8/04 Polyester fibers
- Y10S 8/05 Organic titanium compounds on textiles
- Y10S 8/06 Resin bleach
- Y10S 8/08 Oxirane
- Y10S 8/09 Polyolefin
- Y10S 8/10 Polyvinyl halide esters or alcohol fiber modification
- Y10S 8/11 Isocyanate and carbonate modification of fibers
- Y10S 8/12 Wave energy treatment of textiles
- Y10S 8/13 Cyanoethylation of fibers
- Y10S 8/14 Dry mixtures of textile reagents
- Y10S 8/15 Pressurized gas treatment of textiles

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| Y10S 8/16 | . Pressurized and high temperature liquid treatment of textiles |
| Y10S 8/17 | . Glyoxal and polyaldehyde treatment of textiles |
| Y10S 8/18 | . Grafting textile fibers |
| Y10S 8/19 | . Molten metal |
| Y10S 8/20 | . -N-Cl compound |
| Y10S 8/21 | . Nylon |
| Y10S 8/90 | . Basic emulsifiers for dyeing |
| Y10S 8/901 | .. Quaternary ammonium salts |
| Y10S 8/902 | . Coacervation or two-phase dyeing system |
| Y10S 8/903 | . Triple mixture of anionic, cationic, and nonionic emulsifiers for dyeing |
| Y10S 8/904 | . Mixed anionic and nonionic emulsifiers for dyeing |
| Y10S 8/905 | . Mixed anionic and cationic emulsifiers for dyeing |
| Y10S 8/906 | . Mixed cationic and nonionic emulsifiers for dyeing |
| Y10S 8/907 | . Nonionic emulsifiers for dyeing |
| Y10S 8/908 | . Anionic emulsifiers for dyeing |
| Y10S 8/909 | .. Sulfonated or sulfated aliphatic hydrocarbons |
| Y10S 8/91 | .. Soap |
| Y10S 8/911 | ... Sulfonated |
| Y10S 8/912 | .. Arylene sulfonate-formaldehyde condensate or alkyl aryl sulfonate |
| Y10S 8/913 | . Amphoteric emulsifiers for dyeing |
| Y10S 8/914 | .. Amino carboxylic acids |
| Y10S 8/915 | .. Amino sulfonic acids |
| Y10S 8/916 | . Natural fiber dyeing |
| Y10S 8/917 | .. Wool or silk |
| Y10S 8/918 | .. Cellulose textile |
| Y10S 8/919 | .. Paper |
| Y10S 8/92 | . Synthetic fiber dyeing |
| Y10S 8/921 | .. Cellulose ester or ether |
| Y10S 8/922 | .. Polyester fiber |
| Y10S 8/923 | ... Halopolyester |
| Y10S 8/924 | .. Polyamide fiber |
| Y10S 8/925 | ... Aromatic polyamide |

- Y10S 8/926 . . Polyurethane fiber
- Y10S 8/927 . . Polyacrylonitrile fiber
- Y10S 8/928 . . Polyolefin fiber
- Y10S 8/929 . Carpet dyeing
- Y10S 8/93 . Pretreatment before dyeing
- Y10S 8/931 . . Washing or bleaching
- Y10S 8/932 . Specific manipulative continuous dyeing
- Y10S 8/933 . Thermosol dyeing, thermofixation or dry heat fixation or development
- Y10S 8/934 . High temperature and pressure dyeing
- Y10S 8/935 . Immunization as a resist in dyeing
- Y10S 8/936 . Solubility studies on dyes
- Y10S 8/937 . Li ion in dye bath
- Y10S 8/938 . Solvent dyes
- Y10S 8/939 . Naphtholactam dye

Guidance heading: Boot and shoe making

Y10S 12/00 Boot and shoe making

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

Guidance heading: Brushing, scrubbing, and general cleaning

Y10S 15/00 Brushing, scrubbing, and general cleaning

- Y10S 15/01 . Rechargeable batter
- Y10S 15/02 . Car cleaning plants
- Y10S 15/03 . Matrix
- Y10S 15/04 . Ferrules
- Y10S 15/05 . Varied length bristle

- Y10S 15/06 . Varied composition bristle
- Y10S 15/07 . Driers
- Y10S 15/08 . Dust bags and separators
- Y10S 15/09 . Dust mop cleaners
- Y10S 15/10 . Handles, reels and switches
- Y10S 15/11 . Indicators
- Y10S 15/12 . Tape head cleaner
- Y10S 15/13 . Magnetic tape cleaner
- Y10S 15/14 . Phonograph record cleaner
- Y10S 15/15 . Moisture responsive

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

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

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

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| Y10S 16/14 | . Magnetic hinge |
| Y10S 16/15 | . Battery handles |
| Y10S 16/16 | . Window brakes, counterbalances |
| Y10S 16/17 | . Checks and closers, holding means |
| Y10S 16/18 | . Composition handles |
| Y10S 16/19 | . Cast or molded handles |
| Y10S 16/20 | . Door brakes, e.g. track or guideway |
| Y10S 16/21 | . Checks, closers, check valve construction |
| Y10S 16/22 | . Expansion bolt |
| Y10S 16/23 | . Reversible |
| Y10S 16/24 | . Handle fastening means |
| Y10S 16/25 | . Handle fastening means, clamp band |
| Y10S 16/26 | . Headlight hinge |
| Y10S 16/27 | . Bearings |
| Y10S 16/28 | . Mattress handle |
| Y10S 16/29 | . Nesting hinge leaves |
| Y10S 16/30 | . Knob, control lever |
| Y10S 16/31 | . Pulley, e.g. door guides and hangers |
| Y10S 16/32 | . Door latch |
| Y10S 16/33 | . Rubber sleeve bearings and hinges |
| Y10S 16/34 | . Eccentric adjustments |
| Y10S 16/35 | . Skidways |
| Y10S 16/36 | . Spring |
| Y10S 16/37 | . Nut lock |
| Y10S 16/38 | . Lawn mower type tongue and cross arm |
| Y10S 16/39 | . Adjustment means |

- Y10S 16/40 . Attaching means
- Y10S 16/41 . Coupling, e.g. handle, rod, shaft
- Y10S 16/42 . Miscellaneous methods
- Y10S 16/43 . Hinge mounting bracket
- Y10S 16/90 . Handle with angularly adjustable component
- Y10S 16/901 . Handle with manipulation thereof by human body part other than the hand
- Y10S 16/902 . Unitary handle composed of different cooperating materials
- Y10S 16/903 . Handle with diverse art enhancement, e.g. illuminator, heater
- Y10S 16/904 . Handle means having sanitary characteristic, e.g. to prevent transmission of germs
- Y10S 16/905 . . Toilet seat lifter
- Y10S 16/906 . Light handle cover

Guidance heading: Buckles, buttons, clasps

Y10S 24/00 Buckles, buttons, clasps

- Y10S 24/08 . Paper clips
- Y10S 24/09 . . Sheet material
- Y10S 24/10 . . Wire
- Y10S 24/11 . Adhesive
- Y10S 24/13 . Weighted clip or clamp
- Y10S 24/16 . Multiflex strap
- Y10S 24/17 . Multiflex axial
- Y10S 24/22 . Jaw structures, teeth
- Y10S 24/26 . Fluid pressure
- Y10S 24/28 . Co-planar flat clip
- Y10S 24/29 . Laundry device
- Y10S 24/30 . Separable-fastener or required component thereof
- Y10S 24/31 . . with third, detached member completing interlock
- Y10S 24/32 . . . And linking cavities in adjacent parallel panels

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| Y10S 24/33 | ... | Third member includes independently engaged hooks for linking spaced cavities |
| Y10S 24/34 | .... | And movably connected, noninserted gate for closing access throat of hook |
| Y10S 24/35 | ... | Third member includes relatively movable, separate components |
| Y10S 24/36 | .... | for parachute harness |
| Y10S 24/37 | ... | Third member consists of unitary elongated element |
| Y10S 24/38 | .. | Each mating member having similarly shaped, sized, and operated interlocking face |
| Y10S 24/39 | ... | including elongated face having identical, parallel cross sections throughout its length |
| Y10S 24/40 | ... | including elongated face having varying, parallel cross sections throughout its length |
| Y10S 24/41 | ... | including complementary shaped and alternately useable interlocking faces |
| Y10S 24/42 | ... | Single piece hook-shaped member, e.g. mating garment hooks |
| Y10S 24/43 | .. | including member having distinct formations and mating member selectively interlocking therewith |
| Y10S 24/44 | ... | Formations positioned along wall forming mating-member-guiding cavity |
| Y10S 24/45 | .... | Formations member having movably attached or biased interlocking structure |
| Y10S 24/46 | ... | Formations member having movably attached or biased interlocking structure |
| Y10S 24/47 | ... | Selectively interlocking member having movably attached or biased interlocking component |
| Y10S 24/48 | .... | And cavity for guiding movement of formations |
| Y10S 24/49 | ... | having mounting means allowing repositioning of member for facilitating interlock |
| Y10S 24/50 | .. | including member having elongated, resilient, interlocking face with identical, parallel cross-sections throughout its length |
| Y10S 24/51 | .. | including receiving member having cavity and mating member having insertable projection guided to interlock thereby |
| Y10S 24/52 | ... | having divergent interlock means distinct from cavity or projection of its member |
| Y10S 24/53 | ... | Projection or cavity rotates about axis of cavity access opening to interlock |
| Y10S 24/54 | .... | having projection rotatably connected to its member |
| Y10S 24/55 | ..... | And operator therefor |
| Y10S 24/56 | ..... | And position locking-means therefor |
| Y10S 24/57 | ..... | including notch or hump on projection axially biased by spring |
| Y10S 24/58 | ..... | including radially biased element engaging against relatively rotating surface at connection |
| Y10S 24/59 | ..... | And spring for axially biasing projection |
| Y10S 24/60 | .... | Receiving member includes either movable connection between cavity components or variable configuration cavity |
| Y10S 24/9001 | . | Shirt collar holders |
| Y10S 24/901 | . | Penetrating-type paper fastener |
| Y10S 24/902 | . | Tufting button fastener |
| Y10S 24/903 | . | Armpit shield fastener |

- Y10S 24/904 . Glove fastener
- Y10S 24/905 . Watch chain fastener, e.g. swivel hook
- Y10S 24/906 . Fastener for attaching band to watch or similar article, e.g. name plate
- Y10S 24/907 . Plastic hook
- Y10S 24/908 . Fishline supported attachment hook
- Y10S 24/909 . Winders for flexible material
- Y10S 24/91 . One-piece

Guidance heading: Textiles: cloth finishing

Y10S 26/00 Textiles: cloth finishing

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

Guidance heading: Undertaking

Y10S 27/00 Undertaking

- Y10S 27/01 . Coffin lid fasteners

Guidance heading: Metal working

Y10S 29/00 Metal working

- Y10S 29/001 . Method or apparatus involving adhesive
- Y10S 29/002 . Method or apparatus using aluminum
- Y10S 29/003 . Method or apparatus with bending
- Y10S 29/004 . Method or apparatus with brazing
- Y10S 29/005 . Method or apparatus with casting
- Y10S 29/006 . Method or apparatus with centrifugal casting
- Y10S 29/007 . Method or apparatus with cleaning
- Y10S 29/008 . Method or apparatus with composite casting
- Y10S 29/009 . Method or apparatus with cup formed and bottom removed

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| 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 |

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| Y10S 29/036 | . Shot blasting with other step |
| Y10S 29/037 | . Stamping with other step |
| Y10S 29/038 | . Spot welding with other step |
| Y10S 29/039 | . Spraying with other step |
| Y10S 29/04 | . Strips of repeated articles - cut up later |
| Y10S 29/041 | . Taper tube making |
| Y10S 29/042 | . Tension applied during working |
| Y10S 29/043 | . Upsetting and flanging tube end |
| Y10S 29/044 | . Vacuum |
| Y10S 29/045 | . Titanium |
| Y10S 29/046 | . Vibration |
| Y10S 29/047 | . Extruding with other step |
| Y10S 29/048 | . Welding with other step |
| Y10S 29/049 | . Work hardening with other step |
| Y10S 29/05 | . Cutting fluid application and debris control |
| Y10S 29/051 | . Power stop control for movable element |
| Y10S 29/052 | . Chip breaker |
| Y10S 29/053 | . Workpiece and debris separator |
| Y10S 29/054 | . Fluid control interrelated with machine tool mechanism |
| Y10S 29/055 | . with cutter drive |
| Y10S 29/056 | . with shield or hood movements |
| Y10S 29/057 | . with cutter feed |
| Y10S 29/059 | . Hood actuated by tool or work approach |
| Y10S 29/06 | . Progressive displacement of hood |
| Y10S 29/061 | . Plural-type debris removers |
| Y10S 29/062 | . Rubbing transfer of solid coating to rotating element |

- Y10S 29/063 . Fluid conveyor or applicator
- Y10S 29/064 . Ambulatory cutter with fluent conduit
- Y10S 29/065 . Cutter contained supply reservoir
- Y10S 29/066 . Fluid flow to channeled cutter
- Y10S 29/067 . Rotating cutter
- Y10S 29/068 . Hollow spindle contains
- Y10S 29/069 . Fluid spreader contacts cutter
- Y10S 29/07 . Rotary or oscillating fluid applicator
- Y10S 29/071 . Complete immersion of cutter
- Y10S 29/072 . Dip or splash supply
- Y10S 29/073 . Chain or belt conveyor
- Y10S 29/074 . Partial immersion of cutter
- Y10S 29/075 . Adjustable liquid level
- Y10S 29/076 . Movable liquid-carrying trough
- Y10S 29/077 . with separator or filter
- Y10S 29/078 . Air blast and/or vacuum conveyor
- Y10S 29/079 . Removable debris receptacle
- Y10S 29/081 . Gas as a conveyor
- Y10S 29/082 . Air current generated by cutter
- Y10S 29/083 . Fan coaxial with cutter
- Y10S 29/084 . Vacuum exhaust type
- Y10S 29/085 . with fluid control valve
- Y10S 29/086 . Hood encased cutter
- Y10S 29/087 . Multiple fluid paths
- Y10S 29/088 . by projecting, squirting or dripping
- Y10S 29/089 . Gas entrained liquid supply

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

Guidance heading: Cutlery

Y10S 30/00 Cutlery

- Y10S 30/01 . Rechargeable battery operated

- Y10S 30/02 . Dry shavers
- Y10S 30/03 . Envelope openers
- Y10S 30/04 . Explosive
- Y10S 30/05 . Lawn edgers
- Y10S 30/06 . Resilient means
- Y10S 30/07 . Sprinkler and cutter
- Y10S 30/08 . Seam rippers

Guidance heading: Geometrical instruments

Y10S 33/00 Geometrical instruments

- Y10S 33/01 . Magnetic
- Y10S 33/02 . Air
- Y10S 33/03 . Photoelectric
- Y10S 33/04 . Interferometer
- Y10S 33/05 . Differential transformer
- Y10S 33/06 . Dial indicator shock absorber
- Y10S 33/07 . Ribbon and wires
- Y10S 33/08 . Eccentrics
- Y10S 33/09 . Rectangular proportioner
- Y10S 33/10 . Outlet box
- Y10S 33/11 . Materials
- Y10S 33/12 . Mechanical expedients
- Y10S 33/13 . Wire and strain gauges
- Y10S 33/14 . Spline and gear
- Y10S 33/15 . Piston position indicator
- Y10S 33/16 . Clips and rafters

Y10S 33/17 . Piston ring and bearing race gauging

Y10S 33/18 . Flush pin gauges

Y10S 33/19 . Thermal expansive

Y10S 33/20 . Tile

Y10S 33/21 . with laser

Guidance heading: Drying and gas or vapor contact with solids

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

Y10S 34/01 . Absorbents and adsorbents

Guidance heading: Boots, shoes, and leggings

Y10S 36/00 Boots, shoes, and leggings

Y10S 36/01 . Cement

Y10S 36/02 . Plastic

Guidance heading: Excavating

Y10S 37/00 Excavating

Y10S 37/901 . Bucket cleaners

Y10S 37/902 . Hydraulic motors

Y10S 37/903 . Scoop or scraper attachments

Y10S 37/904 . Vibration means for excavating tool

Y10S 37/905 . Nondredge excavating by fluid contact or explosion

Y10S 37/906 . Visual aids and indicators for excavating tool

Y10S 37/907 . Automatic leveling excavators

Y10S 37/908 . Canal cleaners

Guidance heading: Textiles: ironing or smoothing

Y10S 38/00 Textiles: ironing or smoothing

Y10S 38/01 . Paired leg boards

Y10S 38/02 . Leg structure

Y10S 38/03 . Leg latch

Guidance heading: Card, picture, or sign exhibiting

Y10S 40/00 Card, picture, or sign exhibiting

Y10S 40/90 . Mirror that has changing effect

Y10S 40/901 . Tv/radio program indicator

Y10S 40/902 . Circuit control, e.g. flashing light

Y10S 40/903 . Reflective triangle for highway use

Y10S 40/904 . Map or chart holder

Y10S 40/905 . Pen and pencil

Y10S 40/906 . Sound

Y10S 40/907 . Out-to-lunch

Y10S 40/908 . Animal or fur skin identification

Y10S 40/909 . Storage battery identification

Y10S 40/91 . Automobile license identification

Y10S 40/911 . Automobile body identification

Y10S 40/912 . Automobile motor identification

Y10S 40/913 . Tool identification

Y10S 40/914 . Nuclear fuel element identification

Y10S 40/915 . Golf club identification

Guidance heading: Firearms

Y10S 42/00 Firearms

Y10S 42/01 . Release trigger

Guidance heading: Fishing, trapping, and vermin destroying

Y10S 43/00 Fishing, trapping, and vermin destroying

Y10S 43/90 . Liquid insecticide sprayer

Guidance heading: Fuel and related compositions**Y10S 44/00 Fuel and related compositions**

Y10S 44/901 . Fuel combined with material to be heated

Y10S 44/902 . . Flameless or glowless, e.g. hair curler

Y10S 44/903 . Method including measuring, testing or automatic control

Y10S 44/904 . Method involving electric or wave energy

Y10S 44/905 . Method involving added catalyst

Guidance heading: Plant husbandry**Y10S 47/00 Plant husbandry**

Y10S 47/01 . Methods of plant-breeding and including chromosome multiplication

Y10S 47/03 . Propagation of plant by cuttings

Y10S 47/06 . Plant growth regulation by control of light thereon

Y10S 47/08 . Treatment of plants and seeds with radioactive energy

Y10S 47/09 . Physical and chemical treatment of seeds for planting

Y10S 47/10 . Physical and chemical treatment of agricultural soils

Y10S 47/11 . The application of protective coatings to plants

Y10S 47/12 . Sonic or ultrasonic treatment

Y10S 47/901 . Plant container with flats, filling, planting, or conveying

Y10S 47/902 . including a recycled component, e.g. tires

Y10S 47/903 . Operator means for cold frame or window

Y10S 47/904 . Openwork container for a growing medium, e.g. wire basket

Y10S 47/905 . To remediate contaminated soil

Guidance heading: Gas: heating and illuminating

Y10S 48/00 Gas: heating and illuminating

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

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

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

Guidance heading: Static structures, e.g. buildings**Y10S 52/00 Static structures, e.g. buildings**

- Y10S 52/01 . Hand tools for assembling building components
- Y10S 52/02 . Masonry lattice or openwork
- Y10S 52/03 . Trailer or mobile home skirt
- Y10S 52/04 . Magnetic connecting means for building components
- Y10S 52/05 . Designed for thermal distortion
- Y10S 52/06 . Toothed connecting means
- Y10S 52/07 . Synthetic building materials, reinforcements and equivalents

- Y10S 52/08 . Imitation beams
- Y10S 52/09 . Structure including reclaimed component, e.g. trash
- Y10S 52/10 . Polyhedron
- Y10S 52/11 . Mobile-structure stabilizing anchor
- Y10S 52/12 . Temporary protective expedient
- Y10S 52/13 . Hook and loop type fastener
- Y10S 52/14 . Shelter shaped to article configuration
- Y10S 52/15 . Seal for corrugated sheets
- Y10S 52/16 . Roofing with pressure sensitive adhesive, e.g. shingle
- Y10S 52/17 . with transparent walls or roof, e.g. sunroom
- Y10S 52/90 . Hazardous material permeation prevention, e.g. radon

Guidance heading: Package making

Y10S 53/00 Package making

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

Guidance heading: Gas separation

Y10S 55/00 Gas separation

- Y10S 55/01 . Graduated electrostatic field
- Y10S 55/02 . Vacuum cleaner bags
- Y10S 55/03 . Vacuum cleaner
- Y10S 55/05 . Methods of making filter
- Y10S 55/06 . Magnetic couplings
- Y10S 55/07 . Black liquor treatment

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| Y10S 55/08 | . Built-in vacuum cleaners |
| Y10S 55/09 | . Radioactive filters |
| Y10S 55/10 | . Residue burned |
| Y10S 55/12 | . Pocket type filter |
| Y10S 55/13 | . Polyurethane filters |
| Y10S 55/14 | . Inertia separator |
| Y10S 55/15 | . Cold traps |
| Y10S 55/17 | . Compressed air water removal |
| Y10S 55/18 | . Work bench |
| Y10S 55/19 | . Crankcase ventilation |
| Y10S 55/20 | . Spark arrester |
| Y10S 55/21 | . Silencer cleaner |
| Y10S 55/23 | . Steam separators |
| Y10S 55/24 | . Viscous coated filter |
| Y10S 55/25 | . Agglomerators |
| Y10S 55/26 | . Bag coupling |
| Y10S 55/27 | . Cleaners, liquid |
| Y10S 55/28 | . Carburetor attached |
| Y10S 55/29 | . Air curtains |
| Y10S 55/30 | . Exhaust treatment |
| Y10S 55/31 | . Filter frame |
| Y10S 55/32 | . Gaseous fluid conveying |
| Y10S 55/33 | . Gas mask canister |
| Y10S 55/34 | . Indicator and controllers |
| Y10S 55/35 | . Respirators and register filters |
| Y10S 55/36 | . Kitchen hoods |

- Y10S 55/37 . Louvers
- Y10S 55/38 . Tubular collector electrode
- Y10S 55/39 . Electrets separator
- Y10S 55/42 . Foam filter materials
- Y10S 55/43 . Knitted filter mediums
- Y10S 55/44 . Pile and pile-type filter mediums
- Y10S 55/45 . Woven filter mediums
- Y10S 55/46 . Spray booths

Guidance heading: Harvesters

Y10S 56/00 Harvesters

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

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

Guidance heading: Textiles: spinning, twisting, and twining

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

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

Guidance heading: Chain, staple, and horseshoe making

Y10S 59/00 Chain, staple, and horseshoe making

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

Guidance heading: Power plants

Y10S 60/00**Power plants**

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

Guidance heading: Refrigeration**Y10S 62/00****Refrigeration**

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

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| Y10S 62/10 | . Tool cooling |
| Y10S 62/11 | . Hydrator receptacles |
| Y10S 62/13 | . Insulation |
| Y10S 62/16 | . Roof and ceiling located coolers |
| Y10S 62/17 | . Condenser pressure control |
| Y10S 62/19 | . Ionic thompson effect |
| Y10S 62/20 | . Materials used to prevent corrosion in refrigeration system |
| Y10S 62/21 | . Evaporators where refrigerant covers heat exchange coil |
| Y10S 62/22 | . Free cooling |
| Y10S 62/23 | . Explosive digest |
| Y10S 62/90 | . Triple column |
| Y10S 62/901 | . Single column |
| Y10S 62/902 | . Apparatus |
| Y10S 62/903 | .. Heat exchange structure |
| Y10S 62/904 | ... Coiled heat exchanger |
| Y10S 62/905 | .. Column |
| Y10S 62/906 | ... Packing |
| Y10S 62/907 | ... Insulation |
| Y10S 62/908 | .. Filter or absorber |
| Y10S 62/909 | .. Regeneration |
| Y10S 62/91 | .. Expander |
| Y10S 62/911 | .. Portable |
| Y10S 62/912 | . External refrigeration system |
| Y10S 62/913 | .. Liquified gas |
| Y10S 62/914 | . Magnetic or electric field |
| Y10S 62/915 | . Combustion |
| Y10S 62/916 | . Explosion reduction |
| Y10S 62/917 | . Mercury |
| Y10S 62/918 | . Halocarbon |
| Y10S 62/919 | . Isotope |

- Y10S 62/92 . Carbon monoxide
- Y10S 62/921 . Chlorine
- Y10S 62/922 . Sulfur
- Y10S 62/923 . Inert gas
- Y10S 62/924 . . Argon
- Y10S 62/925 . . Xenon or krypton
- Y10S 62/926 . Gasoline
- Y10S 62/927 . Natural gas from nitrogen
- Y10S 62/928 . Recovery of carbon dioxide
- Y10S 62/929 . . From natural gas
- Y10S 62/93 . . From nitrogen
- Y10S 62/931 . Recovery of hydrogen
- Y10S 62/932 . . From natural gas
- Y10S 62/933 . . From helium
- Y10S 62/934 . . From nitrogen
- Y10S 62/939 . Partial feed stream expansion, air
- Y10S 62/94 . . High pressure column

Guidance heading: Jewelry

Y10S 63/00 Jewelry

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

Guidance heading: Glass manufacturing

Y10S 65/00 Glass manufacturing

- Y10S 65/01 . Lens envelope
- Y10S 65/03 . Cracked glass
- Y10S 65/04 . Electric heat

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| Y10S 65/05 | . Foil glass |
| Y10S 65/06 | . Glass electrode |
| Y10S 65/08 | . Quartz |
| Y10S 65/09 | . Tube |
| Y10S 65/10 | . Stemware |
| Y10S 65/11 | . Encapsulating |
| Y10S 65/12 | . Reed switch |
| Y10S 65/13 | . Computer control |
| Y10S 65/15 | . Nonoxygen containing chalcogenides |
| Y10S 65/16 | . . Optical filament or fiber treatment with fluorine or incorporating fluorine in final product |
| Y10S 65/90 | . Drying, dehydration, minimizing oh groups |
| Y10S 65/901 | . Liquid phase reaction process |

Guidance heading: Textiles: fluid treating apparatus

Y10S 68/00 Textiles: fluid treating apparatus

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| Y10S 68/90 | . Foam treatment |
| Y10S 68/901 | . High frequency treatment |
| Y10S 68/902 | . Devices for storage and reuse of soap suds |
| Y10S 68/903 | . Perforated drum and continuous textile feed and discharge |

Guidance heading: Locks

Y10S 70/00 Locks

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| 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 |

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| 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 |

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| Y10S 70/34 | . Cover fasteners |
| Y10S 70/35 | . Double-ended lock cylinder |
| Y10S 70/36 | . Spring-returned lock cylinder |
| Y10S 70/37 | . Cylinder lock, multiple tumbler arrangements |
| Y10S 70/38 | . Cylinder lock, lateral keyhole |
| Y10S 70/39 | . Cylinder and knob connection |
| Y10S 70/40 | . Cylinder lock utilizing sheet metal |
| Y10S 70/41 | . Coin-controlled |
| Y10S 70/42 | . Lost motion devices |
| Y10S 70/43 | . Lock protectors |
| Y10S 70/44 | . Combination changers |
| Y10S 70/45 | . Time lock and auxiliary lock operable on failure of time lock |
| Y10S 70/46 | . Conducting key |
| Y10S 70/47 | . Laterally movable key |
| Y10S 70/48 | . Fluid pressure lock |
| Y10S 70/49 | . with alarm |
| Y10S 70/50 | . Time lock, fluid-controlled |
| Y10S 70/51 | . Light sensitive control means |
| Y10S 70/52 | . Over center spring |
| Y10S 70/53 | . Adjustable spring |
| Y10S 70/54 | . Double-ended spring |
| Y10S 70/55 | . Unitary multiple springs |
| Y10S 70/56 | . Lock protecting cover |
| Y10S 70/57 | . Screw guard |
| Y10S 70/58 | . Handle guard |
| Y10S 70/59 | . Lock with indicator |

- Y10S 70/60 . Opposed cylinders
- Y10S 70/61 . Die cast cylinder
- Y10S 70/62 . Cylinder plug stop
- Y10S 70/63 . Multiple locks
- Y10S 70/64 . Door spanning bolt
- Y10S 70/65 . Double door lock
- Y10S 70/66 . Double-ended bolt
- Y10S 70/67 . Handle-contained latch operator
- Y10S 70/68 . Oblique bolt
- Y10S 70/69 . Floating bolt
- Y10S 70/70 . Geneva stop
- Y10S 70/71 . Combined permutation and key lock
- Y10S 70/72 . Telephone lock
- Y10S 70/73 . Thumb latch operator
- Y10S 70/74 . Spring tumbler
- Y10S 70/75 . Adjustable tumbler
- Y10S 70/76 . Manually operated tumbler
- Y10S 70/77 . Jaw tumblers
- Y10S 70/78 . Sliding and oscillating bolt
- Y10S 70/79 . Sliding and rotary bolt
- Y10S 70/80 . Sliding bolt with sliding operating means
- Y10S 70/81 . Camouflaging means

Guidance heading: Chemistry: fertilizers

Y10S 71/00 Chemistry: fertilizers

- Y10S 71/02 . Chelating agent

- Y10S 71/03 . Defluorination
- Y10S 71/04 . Anti-corrosion
- Y10S 71/90 . Foams
- Y10S 71/901 . Refuse conditioning
- Y10S 71/902 . Nitrification inhibition
- Y10S 71/903 . Soil conditioner
- Y10S 71/904 . Carrier

Guidance heading: Metal deforming

Y10S 72/00 Metal deforming

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

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

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

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

- Y10S 74/01 . Hydraulic control systems automatic automotive controls
- Y10S 74/02 . Miscellaneous control systems, e.g. ship propulsion, machine tools
- Y10S 74/03 . Movable van or blade torque converters
- Y10S 74/04 . Magnetic gearing
- Y10S 74/05 . Gas turbine with gearing
- Y10S 74/06 . Transistor-electronic gearing controls
- Y10S 74/07 . Indicators-sensors and meters
- Y10S 74/08 . Marine control-ship transmission control means
- Y10S 74/09 . Perpetual motion gimmicks
- Y10S 74/10 . Polymer digest - plastic gears

- Y10S 74/11 . Creeper speed
- Y10S 74/12 . Novikov gears
- Y10S 74/90 . Particular shift pattern

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

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

- Y10S 75/95 . Consolidated metal powder compositions of >95% theoretical density, e.g. wrought
- Y10S 75/951 . . Oxide containing, e.g. dispersion strengthened
- Y10S 75/952 . Producing fibers, filaments, or whiskers
- Y10S 75/953 . Producing spheres
- Y10S 75/954 . Producing flakes or crystals
- Y10S 75/955 . Producing dental product
- Y10S 75/956 . Producing particles containing a dispersed phase
- Y10S 75/957 . Continuous refining of molten iron
- Y10S 75/958 . with concurrent production of iron and other desired nonmetallic product, e.g. energy, fertilizer
- Y10S 75/959 . Thermit-type reaction of solid materials only to yield molten metal
- Y10S 75/96 . in zero gravity environment
- Y10S 75/961 . Treating flue dust to obtain metal other than by consolidation
- Y10S 75/962 . Treating or using mill scale

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

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

- Y10S 76/01 . Bowling pin
- Y10S 76/02 . Case hardening
- Y10S 76/03 . Casting
- Y10S 76/04 . Chromium

- Y10S 76/05 . Electric welding
- Y10S 76/06 . Laminated
- Y10S 76/07 . Plastics
- Y10S 76/08 . Razor blade manufacturing
- Y10S 76/09 . Razor blade sharpeners
- Y10S 76/10 . Soldering and cooling
- Y10S 76/11 . Tungsten and tungsten carbide
- Y10S 76/12 . Diamond tools

Guidance heading: Tools

Y10S 81/00 Tools

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

Guidance heading: Turning

Y10S 82/00 **Turning**

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

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

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

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| 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 |

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| Y10S 83/944 | .. Syringe needle |
| Y10S 83/945 | .. Separating connected articles |
| Y10S 83/946 | .. Container |
| Y10S 83/947 | .. insulation about wire |
| Y10S 83/948 | .. having "memory", e.g. photographic or magnetic film |
| Y10S 83/949 | .. Continuous or wound supply |
| Y10S 83/95 | ... Strandlike |
| Y10S 83/951 | .. Rubber tire |
| Y10S 83/952 | .. Moving work |
| Y10S 83/953 | .. with work support |
| Y10S 83/954 | . Knife changing |
| Y10S 83/955 | . Cutter edge shiftable to present different portion of edge |
| Y10S 83/956 | . Ultrasonic |

Guidance heading: Music

Y10S 84/00 Music

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| Y10S 84/01 | . Plural speakers |
| Y10S 84/02 | . Preference networks |
| Y10S 84/03 | . Foldable ; detachable ; collapsible |
| Y10S 84/04 | . Chorus ; ensemble ; celeste |
| Y10S 84/05 | . Chiff |
| Y10S 84/06 | . Cathode-ray tube |
| Y10S 84/07 | . Electric key switch structure |
| Y10S 84/08 | . Keyed oscillators |
| Y10S 84/09 | . Filtering |
| Y10S 84/10 | . Feedback |
| Y10S 84/11 | . Frequency dividers |
| Y10S 84/12 | . Side ; rhythm and percussion devices |
| Y10S 84/13 | . Gas discharge tube |
| Y10S 84/14 | . Harmonicas |

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| Y10S 84/15 | . Accordions |
| Y10S 84/16 | . Crescendo |
| Y10S 84/17 | . Cabinets |
| Y10S 84/18 | . Tuning |
| Y10S 84/19 | . Light sensitive resistor |
| Y10S 84/20 | . Monophonic |
| Y10S 84/21 | . Mechanical resonator |
| Y10S 84/22 | . Chord organs |
| Y10S 84/23 | . Electronic gates for tones |
| Y10S 84/24 | . Piezoelectrical transducers |
| Y10S 84/25 | . Pedal clavier |
| Y10S 84/26 | . Reverberation |
| Y10S 84/27 | . Stereo |
| Y10S 84/28 | . Service manuals |
| Y10S 84/29 | . Tape |
| Y10S 84/30 | . Fret control |

Guidance heading: Motors: expansible chamber type

Y10S 91/00 Motors: expansible chamber type

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

Guidance heading: Expansible chamber devices

Y10S 92/00 Expansible chamber devices

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

Y10S 92/03 . Flexible drive

Y10S 92/04 . Lost motion

Guidance heading: Gas separation: processes

Y10S 95/00 Gas separation: processes

Y10S 95/90 . Solid sorbent

Y10S 95/901 . . Activated carbon

Y10S 95/902 . . Molecular sieve

Y10S 95/903 . . . Carbon

Guidance heading: Foods and beverages: apparatus

Y10S 99/00 Foods and beverages: apparatus

Y10S 99/10 . Temperature responsive

Y10S 99/11 . Conductivity control

Y10S 99/12 . Supersonic

Y10S 99/13 . Electrical deposition

Y10S 99/14 . Induction heating

Y10S 99/15 . Pie pans

Guidance heading: Presses

Y10S 100/00 Presses

Y10S 100/901 . Scrap auto body crushers

Y10S 100/902 . Can crushers

Y10S 100/903 . Pelleters

Y10S 100/904 . . Screw

Y10S 100/905 . . inner roll

Y10S 100/906 . . Reciprocating

Y10S 100/907 . . Rotary

Y10S 100/908 . . Series rolls

- Y10S 100/909 . . Adjustable die openings
- Y10S 100/91 . Meat
- Y10S 100/911 . Jet or explosive
- Y10S 100/912 . Binder containers
- Y10S 100/913 . Truss presses
- Y10S 100/914 . Scrap paper
- Y10S 100/915 . Fixed upper ram, lower movable receptacle
- Y10S 100/916 . Coil tightener and binder
- Y10S 100/917 . Magnetic
- Y10S 100/918 . Bolster and die

Guidance heading: Printing

Y10S 101/00 Printing

- Y10S 101/29 . Printing involving a color-forming phenomenon
- Y10S 101/30 . Special article printing with article controlled operation
- Y10S 101/31 . Devices for applying metal leaf employing hot dies
- Y10S 101/32 . Means to vary the time of contact of one or more rollers in an ink train
- Y10S 101/33 . Ink transfer employing one or more belts
- Y10S 101/34 . Means to agitate ink in a reservoir
- Y10S 101/35 . Rollers and track therefore in printing presses
- Y10S 101/36 . Means for registering or alignment of print plates on print press structure
- Y10S 101/37 . Printing employing electrostatic force
- Y10S 101/38 . Means for axially reciprocating inking rollers
- Y10S 101/39 . Printing on cylinder of revolution
- Y10S 101/40 . Means to print on golf balls
- Y10S 101/41 . Means for braking press cylinders
- Y10S 101/42 . Means for tensioning webs

- Y10S 101/43 . Machines printing by both intaglio and another type of printing means
- Y10S 101/44 . Coin controlled printing machines
- Y10S 101/45 . Sensor for ink or dampening fluid thickness or density
- Y10S 101/46 . Printing operation controlled by code indicia on printing plate or substate
- Y10S 101/47 . Automatic or remote control of metering blade position
- Y10S 101/48 . Endless printing belt for other than selective or progressive printing
- Y10S 101/49 . Convertible printing press, e.g. lithographic to letter press

Guidance heading: Ammunition and explosives

Y10S 102/00 Ammunition and explosives

- Y10S 102/70 . Combustible cartridge
- Y10S 102/701 . Charge wave forming
- Y10S 102/702 . Compression ignition
- Y10S 102/703 . Flechette
- Y10S 102/704 . Coolants
- Y10S 102/705 . Separated explosive constituents

Guidance heading: Railways

Y10S 104/00 Railways

- Y10S 104/01 . Toy railroad

Guidance heading: Compositions: coating or plastic

Y10S 106/00 Compositions: coating or plastic

- Y10S 106/01 . Fly ash
- Y10S 106/02 . Perlite
- Y10S 106/03 . Mica
- Y10S 106/04 . Bentonite

- Y10S 106/07 . Asphalt binders in coating compositions
- Y10S 106/90 . Soil stabilization
- Y10S 106/901 . Low molecular weight hydrocarbon polymer-containing mixture

Guidance heading: Horizontally supported planar surfaces

Y10S 108/00 Horizontally supported planar surfaces

- Y10S 108/901 . Synthetic plastic industrial platform, e.g. pallet
- Y10S 108/902 . . Made with deformable integral fastening elements

Guidance heading: Planting

Y10S 111/00 Planting

- Y10S 111/90 . Methods of planting seeds and miscellaneous compositions
- Y10S 111/901 . Lawn or turf
- Y10S 111/902 . . Pasture renovation
- Y10S 111/903 . Monitor
- Y10S 111/904 . . Population control function
- Y10S 111/905 . Seed treating seed planter
- Y10S 111/906 . Specialized commodity
- Y10S 111/907 . . Cane
- Y10S 111/908 . . Potato
- Y10S 111/909 . . Bulb
- Y10S 111/91 Onion
- Y10S 111/911 . . Rice
- Y10S 111/912 . . Pineapple
- Y10S 111/913 . . Vegetable, i.e. small seed
- Y10S 111/914 Lettuce
- Y10S 111/915 . Special condition
- Y10S 111/916 . . Seed pellet
- Y10S 111/917 . . Gel
- Y10S 111/918 . . Sprout
- Y10S 111/919 . Special transplant related feature
- Y10S 111/92 . Airplane

- Y10S 111/921 . Unique motor drive
- Y10S 111/922 . Variable drive mechanism
- Y10S 111/923 . Interrow, intercrop planter
- Y10S 111/924 . Minimum and no till planter
- Y10S 111/925 . Tank and hopper trailers
- Y10S 111/926 . Special suspension or gauging feature
- Y10S 111/927 . Parallelogram mounting

Guidance heading: Sewing

Y10S 112/00 Sewing

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

Guidance heading: Signals and indicators

Y10S 116/00 Signals and indicators

- Y10S 116/01 . Combined with diverse elements
- Y10S 116/02 . Corrections by cursor lines
- Y10S 116/03 . Shiftable indicia
- Y10S 116/04 . Variable pulley
- Y10S 116/05 . using light guides
- Y10S 116/06 . Pointer structure
- Y10S 116/07 . Fluid actuated
- Y10S 116/08 . Inflatable indicator
- Y10S 116/09 . Balloons
- Y10S 116/10 . Bimetal detents
- Y10S 116/11 . On ski binders

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| Y10S 116/12 | . Door knockers |
| Y10S 116/13 | . Inclinometers for earth working devices |
| Y10S 116/14 | . Tapes as carriers |
| Y10S 116/15 | . Projection |
| Y10S 116/16 | . Road structure |
| Y10S 116/17 | . Tactile |
| Y10S 116/18 | . Wave generators |
| Y10S 116/19 | . Wave generator with resonating element |
| Y10S 116/20 | . Automobile transmission position |
| Y10S 116/21 | . Shaft position indicators |
| Y10S 116/22 | . Heated air |
| Y10S 116/23 | . Movable index |
| Y10S 116/24 | . with suction cups |
| Y10S 116/25 | . Air filter condition indicator |
| Y10S 116/26 | . Light rod |
| Y10S 116/27 | . Blowout plates |
| Y10S 116/28 | . Push button structure |
| Y10S 116/29 | . TV tuner |
| Y10S 116/30 | . Remote TV tuner |
| Y10S 116/31 | . TV channel selector |
| Y10S 116/32 | . Content indicator by weight |
| Y10S 116/33 | . Indicator for elevated cables |
| Y10S 116/34 | . Tension indicating |
| Y10S 116/35 | . Electroluminescent dials |
| Y10S 116/36 | . Illuminated dial and pointer |
| Y10S 116/37 | . Multiple movable scales |

- Y10S 116/38 . Hot box alarm
- Y10S 116/39 . Dial magnifiers
- Y10S 116/40 . Flare devices
- Y10S 116/41 . Color comparison
- Y10S 116/42 . Oil filter
- Y10S 116/43 . Navigation devices
- Y10S 116/44 . Portable personal alarms
- Y10S 116/45 . Parallax
- Y10S 116/46 . Interchangeable scales
- Y10S 116/47 . Scale conversion, e.g. english-metric

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

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

- Y10S 117/90 . Apparatus characterized by composition or treatment thereof, e.g. surface finish, surface coating
- Y10S 117/901 . Levitation, reduced gravity, microgravity, space
- Y10S 117/902 . . Specified orientation, shape, crystallography, or size of seed or substrate
- Y10S 117/903 . Dendrite or web or cage technique
- Y10S 117/904 . . Laser beam
- Y10S 117/905 . Electron beam
- Y10S 117/906 . Special atmosphere other than vacuum or inert
- Y10S 117/907 . . Refluxing atmosphere
- Y10S 117/91 . Downward pulling
- Y10S 117/911 . Seed or rod holders
- Y10S 117/912 . Replenishing liquid precursor, other than a moving zone
- Y10S 117/913 . Graphoepitaxy or surface modification to enhance epitaxy
- Y10S 117/914 . Crystallization on a continuous moving substrate or cooling surface, e.g. wheel, cylinder, belt

- Y10S 117/915 . Separating from substrate
- Y10S 117/916 . Oxygen testing
- Y10S 117/917 . Magnetic
- Y10S 117/918 . Single-crystal waveguide
- Y10S 117/919 . . Organic

Guidance heading: Coating apparatus

Y10S 118/00 Coating apparatus

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

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

Guidance heading: Animal husbandry

Y10S 119/00 Animal husbandry

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

Guidance heading: Liquid heaters and vaporizers

Y10S 122/00 Liquid heaters and vaporizers

- Y10S 122/01 . Air heater
- Y10S 122/02 . Air heater - indirectly heated
- Y10S 122/03 . Gas flow baffles
- Y10S 122/04 . Once through boilers
- Y10S 122/05 . Critical pressure
- Y10S 122/06 . Damper-directed radiation
- Y10S 122/07 . Feeding air

- Y10S 122/10 . Portable units
- Y10S 122/11 . Removable steam-heating elements
- Y10S 122/13 . Tubes - composition and protection
- Y10S 122/14 . Tube replacement
- Y10S 122/15 . Valves
- Y10S 122/16 . Welding

Guidance heading: Internal-combustion engines

Y10S 123/00 Internal-combustion engines

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

Guidance heading: Mechanical guns and projectors

Y10S 124/00 Mechanical guns and projectors

- Y10S 124/90 . Limb tip rotatable element structure

Guidance heading: Stone working

Y10S 125/00 **Stone working**

Y10S 125/901 . forming piezoelectric crystals

Guidance heading: **Stoves and furnaces****Y10S 126/00** **Stoves and furnaces**

Y10S 126/903 . Solar collector cleaning device

Y10S 126/904 . Arrangements for sealing solar collector

Y10S 126/905 . Preventing condensing of moisture in solar collector

Y10S 126/906 . Connecting plural solar collectors as a unit

Y10S 126/907 . Absorber coating

Y10S 126/908 . . Particular chemical

Y10S 126/909 . Linear concentrating lens

Y10S 126/91 . Heat storage liquid

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

Y10S 127/01 . Caramel

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

Y10S 128/01 . Motorized syringe

Y10S 128/03 . Heart-lung

Y10S 128/06 . Intravenous injection support

Y10S 128/07 . Servo-systems

Y10S 128/08 . Collagen

Y10S 128/10 . Fluid amplifiers

Y10S 128/12 . Pressure infusion

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

- Y10S 128/913 . Breathable liquids
- Y10S 128/914 . Rebreathing apparatus for increasing carbon dioxide content in inhaled gas
- Y10S 128/915 . Ultrasound mammography
- Y10S 128/916 . Ultrasound 3-D imaging
- Y10S 128/917 . Body fluid, devices for protection therefrom, e.g. aids, hepatitis
- Y10S 128/918 . . . Condoms and shields
- Y10S 128/919 . . . Syringe, means to protect user
- Y10S 128/92 . Computer assisted medical diagnostics
- Y10S 128/921 . . . Diet management
- Y10S 128/922 . . . including image analysis
- Y10S 128/923 . . . by comparison of patient data to other data
- Y10S 128/924 using artificial intelligence
- Y10S 128/925 . . . Neural network

Guidance heading: Tobacco

Y10S 131/00 Tobacco

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

Guidance heading: Toilet

Y10S 132/00 Toilet

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

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

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

Guidance heading: Tent, canopy, umbrella, or cane**Y10S 135/00 Tent, canopy, umbrella, or cane**

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

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

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

Guidance heading: Fluid handling**Y10S 137/00 Fluid handling**

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

Guidance heading: Pipes and tubular conduits**Y10S 138/00 Pipes and tubular conduits**

- Y10S 138/01 . Adhesive
- Y10S 138/02 . Glass fiber
- Y10S 138/03 . Polytetrafluoroethylene, i.e. PTFE
- Y10S 138/04 . Air conditioning

- Y10S 138/05 . Pre-stress
- Y10S 138/06 . Corrosion
- Y10S 138/07 . Resins
- Y10S 138/08 . Bent shaped retained
- Y10S 138/09 . Cellular
- Y10S 138/10 . Metal foil
- Y10S 138/11 . Shape

Guidance heading: Textiles: weaving

Y10S 139/00 Textiles: weaving

- Y10S 139/01 . Bias fabric digest

Guidance heading: Fluent material handling, with receiver or receiver coacting means

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

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

Guidance heading: Metal treatment

Y10S 148/00 Metal treatment

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

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| Y10S 148/165 | . Transmutation doping |
| Y10S 148/166 | . Traveling solvent method |
| Y10S 148/167 | . Two diffusions in one hole |
| Y10S 148/168 | . V-Grooves |
| Y10S 148/169 | . Vacuum deposition, e.g. including molecular beam epitaxy |
| Y10S 148/17 | . Vapor-liquid-solid |
| Y10S 148/171 | . Varistor |
| Y10S 148/172 | . Vidicons |
| Y10S 148/173 | . Washed emitter |
| Y10S 148/174 | . Zener diodes |
| Y10S 148/90 | . Ion implanted |
| Y10S 148/901 | . Surface depleted in an alloy component, e.g. decarburized |
| Y10S 148/902 | . having portions of differing metallurgical properties or characteristics |
| Y10S 148/903 | .. Directly treated with high energy electromagnetic waves or particles, e.g. laser, electron beam |
| Y10S 148/904 | .. Crankshaft |
| Y10S 148/905 | .. Cutting tool |
| Y10S 148/906 | .. Roller bearing element |
| Y10S 148/907 | .. Threaded or headed fastener |
| Y10S 148/908 | .. Spring |
| Y10S 148/909 | .. Tube |
| Y10S 148/91 | .. in pattern discontinuous in two dimensions, e.g. checkerboard pattern |

Guidance heading: Explosive and thermic compositions or charges

Y10S 149/00 Explosive and thermic compositions or charges

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| Y10S 149/11 | . Particle size of a component |
| Y10S 149/111 | .. Nitrated organic compound |
| Y10S 149/112 | .. Inorganic nitrogen-oxygen salt |
| Y10S 149/113 | .. Inorganic oxygen-halogen salt |
| Y10S 149/114 | .. Inorganic fuel |
| Y10S 149/115 | .. Organic fuel |
| Y10S 149/116 | . Flare contains resin |

- Y10S 149/117 . Smoke or weather composition contains resin
- Y10S 149/118 . Gel contains resin
- Y10S 149/119 . Oxidizer compounds
- Y10S 149/12 . High energy fuel compounds
- Y10S 149/121 . . Containing B, P or S
- Y10S 149/122 . . Containing N, without B, P or S
- Y10S 149/123 . Tagged compositions for identifying purposes
- Y10S 149/124 . Methods for reclaiming or disposing of one or more materials in a composition

Guidance heading: Purses, wallets, and protective covers

Y10S 150/00 Purses, wallets, and protective covers

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

Guidance heading: Resilient tires and wheels

Y10S 152/00 Resilient tires and wheels

- Y10S 152/01 . Pebble ejectors
- Y10S 152/02 . Static discharge
- Y10S 152/03 . Slits in threads
- Y10S 152/04 . Crack resistant
- Y10S 152/05 . Water filled
- Y10S 152/06 . Peg leg
- Y10S 152/07 . Rubber valves
- Y10S 152/08 . Clamps
- Y10S 152/09 . Bead to rim seal
- Y10S 152/10 . Split rim seal
- Y10S 152/11 . Tubeless valves

- Y10S 152/12 . White sidewalls
- Y10S 152/13 . Valves stem guards
- Y10S 152/14 . Fabrics
- Y10S 152/15 . Overlap
- Y10S 152/16 . Air impermeable liner
- Y10S 152/17 . Grooved rim
- Y10S 152/18 . Hub tires
- Y10S 152/19 . Sandwich breakers
- Y10S 152/20 . Rims for inverted bead tires
- Y10S 152/90 . Tread pattern having no blocks and having circumferential ribs defined by zig-zag circumferential grooves
- Y10S 152/901 . Tread pattern having no blocks and having circumferential ribs defined by linear circumferential grooves having straight edges
- Y10S 152/902 . Non-directional tread pattern having no circumferential rib and having blocks defined by circumferential grooves and transverse grooves
- Y10S 152/903 . Non-directional tread pattern having non-circumferential transverse groove following smooth curved path
- Y10S 152/904 . Specified tread pattern for front tire and rear tire
- Y10S 152/905 . Tread composition

Guidance heading: Adhesive bonding and miscellaneous chemical manufacture

Y10S 156/00 Adhesive bonding and miscellaneous chemical manufacture

- Y10S 156/906 . Off-drum manufacture of tire fabric or ply
- Y10S 156/907 . . including assembly of bias-cut fabric
- Y10S 156/908 . Laminating sheet to entire edge of block and both adjacent opposite surfaces, e.g. bookbinding
- Y10S 156/909 . Apparatus for applying new tread to used tire casing, e.g. retreading, recapping
- Y10S 156/91 . Bonding tire cord and elastomer: improved adhesive system
- Y10S 156/912 . Differential etching apparatus having a vertical tube reactor
- Y10S 156/913 . Differential etching apparatus having a horizontal tube reactor

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

Guidance heading: Concentrating evaporators

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| Y10S 159/00 | Concentrating evaporators |
| Y10S 159/01 | . Electric heat |
| Y10S 159/02 | . Entrainment |
| Y10S 159/03 | . Fluidized bed |
| Y10S 159/04 | . Foam |
| Y10S 159/05 | . Freezing |
| Y10S 159/06 | . Infrared |
| Y10S 159/07 | . Magnetic coupling |
| Y10S 159/08 | . Multieffect or multistage |
| Y10S 159/09 | . Two liquids dried simultaneously |
| Y10S 159/10 | . Organic |
| Y10S 159/11 | . Biologicals |
| Y10S 159/12 | . Radioactive |
| Y10S 159/13 | . Scale |
| Y10S 159/14 | . Soap |
| Y10S 159/15 | . Special material |
| Y10S 159/16 | . Vacuum |
| Y10S 159/17 | . Two liquids |
| Y10S 159/18 | . Accumulator |
| Y10S 159/19 | . Acid |
| Y10S 159/20 | . Additive |
| Y10S 159/21 | . Coating |
| Y10S 159/22 | . Condensate flashing |
| Y10S 159/23 | . Cooling |
| Y10S 159/24 | . Critical |
| Y10S 159/25 | . Decant, press, centrifuge |

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| Y10S 159/26 | . Electric field |
| Y10S 159/27 | . Micropores |
| Y10S 159/28 | . Porous member |
| Y10S 159/29 | . Pebble bed |
| Y10S 159/30 | . Desuper heating |
| Y10S 159/31 | . Deaeration |
| Y10S 159/32 | . Indirect heat exchange |
| Y10S 159/33 | . Two liquids, one a heat carrier |
| Y10S 159/34 | . Caustic |
| Y10S 159/35 | . Viewports, peepsights, and sightglasses |
| Y10S 159/36 | . Rabbled hearth |
| Y10S 159/37 | . Ported |
| Y10S 159/38 | . Seed |
| Y10S 159/39 | . Power plant |
| Y10S 159/40 | . Pumps |
| Y10S 159/41 | . Removable units |
| Y10S 159/42 | . Seals |
| Y10S 159/90 | . using vibratory force |
| Y10S 159/901 | . Promoting circulation |
| Y10S 159/902 | . using natural heat |
| Y10S 159/903 | . . . Solar |
| Y10S 159/904 | . . . Floating solar still |
| Y10S 159/905 | . Sewage treatment |
| Y10S 159/906 | . Wick |

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

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

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| Y10S 160/01 | . Auto radiator screens |
| Y10S 160/02 | . Auto screens and miscellaneous |
| Y10S 160/03 | . Auto visors and glare shields |
| Y10S 160/04 | . Auto side awnings |
| Y10S 160/05 | . Awning head and front bars |
| Y10S 160/06 | . Bath curtains |
| Y10S 160/07 | . Fabric |
| Y10S 160/08 | . Flexible door |
| Y10S 160/09 | . Fireplace screen |
| Y10S 160/10 | . Roll screen |
| Y10S 160/11 | . Roll screen idler roll |
| Y10S 160/12 | . Overlapping, on windows |
| Y10S 160/13 | . Suction cup |
| Y10S 160/14 | . Step joints |
| Y10S 160/15 | . Web-to-tube fasteners |
| Y10S 160/16 | . Magnetic |
| Y10S 160/17 | . Venetian blinds, motor driven |
| Y10S 160/18 | . Zipper |
| Y10S 160/19 | . Storm sash |
| Y10S 160/90 | . Vertical type venetian blind |
| Y10S 160/901 | . Lazy-tong connected plural strips, slats, or panels |
| Y10S 160/902 | . Venetian blind type bracket means |
| Y10S 160/903 | . Roll type bracket means |
| Y10S 160/904 | . Electric or pneumatic awning operator |
| Y10S 160/905 | . Lazy-tong-link awning operator |
| Y10S 160/906 | . Screw-threaded awning operator |

- Y10S 160/907 . Spring, other than spring roller, awning operator
- Y10S 160/908 . Strand awning operator
- Y10S 160/909 . . Endless strand
- Y10S 160/91 . . Drum wound strand
- Y10S 160/911 . Worm gear awning operator
- Y10S 160/912 . Rack-and-pinion awning operator
- Y10S 160/913 . Gear awning operator

Guidance heading: Paper making and fiber liberation

Y10S 162/00 Paper making and fiber liberation

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

Guidance heading: Metal founding

Y10S 164/00 Metal founding

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| Y10S 164/01 | . Battery |
| Y10S 164/02 | . Bearing |
| Y10S 164/03 | . Centrifugal |
| Y10S 164/04 | . Dental |
| Y10S 164/05 | . Electron beam |
| Y10S 164/06 | . Ingot |
| Y10S 164/07 | . Melt |
| Y10S 164/08 | . Piston |
| Y10S 164/09 | . Piston-vacuum |
| Y10S 164/10 | . Rotor |
| Y10S 164/11 | . Slush |
| Y10S 164/12 | . Thermit |
| Y10S 164/13 | . Valve |
| Y10S 164/14 | . Wheel |
| Y10S 164/15 | . Precision casting |
| Y10S 164/90 | . Rheo-casting |

Guidance heading: Heat exchange

Y10S 165/00 Heat exchange

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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

- Y10S 165/903 . Convection
- Y10S 165/904 . Radiation
- Y10S 165/905 . Materials of manufacture
- Y10S 165/906 . Reinforcement
- Y10S 165/907 . Porous
- Y10S 165/908 . Fluid jets
- Y10S 165/909 . Regeneration
- Y10S 165/91 . Tube pattern
- Y10S 165/911 . Vaporization
- Y10S 165/912 . Combined or convertible heat exchange modes
- Y10S 165/913 . Condensation
- Y10S 165/914 . Filming
- Y10S 165/915 . Foaming
- Y10S 165/916 . Oil cooler
- Y10S 165/917 . Pressurization and/or degassification
- Y10S 165/918 . Heated and cooled food cabinets and/or trays
- Y10S 165/919 . . Wheeled
- Y10S 165/92 . Particulate heat exchange
- Y10S 165/921 . Dew point

Guidance heading: Wells

Y10S 166/00 Wells

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

Guidance heading: Farriery

Y10S 168/00 Farriery

Y10S 168/01 . Nonmetallic

Y10S 168/02 . Traction shape

Guidance heading: Fire extinguishers

Y10S 169/00 Fire extinguishers

Y10S 169/01 . Floats

Y10S 169/02 . Ablative fluids

Y10S 169/03 . Trip mechanisms

Guidance heading: Unearthing plants or buried objects

Y10S 171/00 Unearthing plants or buried objects

Y10S 171/01 . Peanut digger

Guidance heading: Earth working

Y10S 172/00 Earth working

Y10S 172/90 . Plant thinners

Guidance heading: Tool driving or impacting

Y10S 173/00 Tool driving or impacting

Y10S 173/01 . Operable submerged in liquid

Y10S 173/02 . Sound muffling

Y10S 173/03 . Lubrication

Y10S 173/04 . Liquid operated

Guidance heading: Electricity: conductors and insulators

Y10S 174/00 Electricity: conductors and insulators

Y10S 174/01 . Anti-tracking

- Y10S 174/02 . Ballasts
- Y10S 174/07 . Sodium conductors, connectors
- Y10S 174/08 . Shrinkable tubes
- Y10S 174/09 . Pull-out cabinet or drawer with retractable cable
- Y10S 174/10 . Bushing with current transformers
- Y10S 174/11 . Zipper tubes
- Y10S 174/12 . Helical preforms
- Y10S 174/13 . High voltage cable, e.g. above 10kv, corona prevention
- Y10S 174/14 . . . having a particular cable application, e.g. winding
- Y10S 174/15 in a power generation system, e.g. prime-mover dynamo, generator system
- Y10S 174/16 in a motive power system, e.g. electric motor control system
- Y10S 174/17 in an electric power conversion, regulation, or protection system
- Y10S 174/18 in a power distribution network
- Y10S 174/19 in a dynamo-electric machine
- Y10S 174/20 Stator
- Y10S 174/21 Rotor
- Y10S 174/22 Winding per se
- Y10S 174/23 in a circuit breaker, relay, or switch
- Y10S 174/24 in an inductive device, e.g. reactor, electromagnet
- Y10S 174/25 Transformer
- Y10S 174/26 . . . having a plural-layer insulation system
- Y10S 174/27 including a semiconductive layer
- Y10S 174/28 Plural semiconductive layers
- Y10S 174/29 . . . having a semiconductive layer
- Y10S 174/30 . . . having insulation with a particular dimension or geometry
- Y10S 174/31 . . . having a shield or metallic layer
- Y10S 174/32 . . . having means for cooling
- Y10S 174/33 . . . Method of cable manufacture, assembly, repair, or splicing
- Y10S 174/34 . PCB in box or housing
- Y10S 174/35 . Box or housing mounted on substrate or PCB

Guidance heading: Weighing scales

Y10S 177/00 Weighing scales

- Y10S 177/02 . Digitizers mechanical

- Y10S 177/03 . Digitizers electrical
- Y10S 177/04 . Digitizers non-sensing
- Y10S 177/05 . Magnets
- Y10S 177/06 . Photoelectric
- Y10S 177/07 . Pneumatic controls
- Y10S 177/08 . RR motion
- Y10S 177/09 . Scale bearings
- Y10S 177/10 . Telemetric
- Y10S 177/11 . Vibrators

Guidance heading: Motor vehicles

Y10S 180/00 Motor vehicles

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

Guidance heading: Acoustics

Y10S 181/00 Acoustics

- Y10S 181/40 . Wave coupling
- Y10S 181/401 . . Earth
- Y10S 181/402 . . Liquid

Y10S 181/403 . Refrigerator compresssor muffler

Y10S 181/404 . Hobby craft engine muffler

Guidance heading: Motors: spring, weight, or animal powered

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

Y10S 185/01 . Spring powered toys

Y10S 185/02 . foreign digest

Guidance heading: Elevator, industrial lift truck, or stationary lift for vehicle

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

Y10S 187/90 . Temporary construction elevator for building

Y10S 187/901 . Control modified for use by disabled individual

Y10S 187/902 . Control for double-decker car

Guidance heading: Brakes

Y10S 188/00 Brakes

Y10S 188/01 . Panic braking

Y10S 188/02 . Hill holder

Y10S 188/03 . Progressive braking

Guidance heading: Trunks and hand-carried luggage

Y10S 190/00 Trunks and hand-carried luggage

Y10S 190/90 . Brief case type

Y10S 190/901 . . Flat opening

Y10S 190/902 . . with closure flap

Y10S 190/903 . Zipper

Guidance heading: Clutches and power-stop control

Y10S 192/00 Clutches and power-stop control

Y10S 192/01 . Removable members

Y10S 192/02 . Universal joint

Guidance heading: Conveyors, chutes, skids, guides, and ways

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

Y10S 193/01 . Coin chute

Y10S 193/02 . Indicators, safety devices and signals

Guidance heading: Check-actuated control mechanisms

Y10S 194/00 Check-actuated control mechanisms

Y10S 194/90 . Parking meter with barrier

Y10S 194/901 . Check-operated toll booth

Y10S 194/902 . Check-operated device for controlling parking lot

Y10S 194/903 . Check-controlled turnstile

Y10S 194/904 . Check-operated releaser for automobile service equipment

Y10S 194/905 . Shopping cart return

Y10S 194/906 . Video cassette vendor

Guidance heading: Conveyors: power-driven

Y10S 198/00 Conveyors: power-driven

Y10S 198/95 . Conveyor transverses wall aperture

Y10S 198/951 . Turning cigarettes end-for-end

Y10S 198/952 . Heating or cooling

Y10S 198/953 . Coil spring untangling apparatus

Y10S 198/954 . Overflow

Y10S 198/955 . Air manifold

Y10S 198/956 . Impact plates

Y10S 198/957 . Conveyor material

Y10S 198/958 . Load units counter

Y10S 198/959 . Weighing

Guidance heading: Electricity: circuit makers and breakers

Y10S 200/00 Electricity: circuit makers and breakers

Y10S 200/02 . Body attached switches

Y10S 200/03 . Coin operated

Y10S 200/04 . High potential type insulation

Y10S 200/05 . Fluid pressure: fluid amplifier

Y10S 200/06 . Tie bar

Y10S 200/07 . Molded drum

Y10S 200/08 . Disturbance

Y10S 200/09 . Momentum

Y10S 200/10 . Curb, bumper and fender

Y10S 200/11 . Web or thread actuated

Y10S 200/12 . Burglar screens

Y10S 200/13 . Shaft bearing and armature wear indicator switches

Y10S 200/14 . Rail or leak indicator

Y10S 200/15 . Bin alarm

Y10S 200/16 . Gas detector

Y10S 200/17 . Gas engine and motor vehicle

Y10S 200/18 . Gravity

Y10S 200/19 . Gyroscope

Y10S 200/20 . Sound and vibration operated

Y10S 200/21 . Pencil, counter or dispenser operated

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| Y10S 200/22 | . Strain relief, shear pin |
| Y10S 200/23 | . Game |
| Y10S 200/24 | . Plug holder |
| Y10S 200/26 | . Slack cable operated |
| Y10S 200/27 | . Thermal magnetic snap |
| Y10S 200/28 | . Thermal spring snap |
| Y10S 200/29 | . Ball |
| Y10S 200/30 | . Fluid conductor |
| Y10S 200/31 | . Fluid flow |
| Y10S 200/32 | . Speed responsive |
| Y10S 200/33 | . Speed synchronizing switch |
| Y10S 200/34 | . Recording and reproducing |
| Y10S 200/35 | . Weight operated tread/treadless switch |
| Y10S 200/36 | . Light operated switches |
| Y10S 200/37 | . Hose |
| Y10S 200/38 | . Money till drawer operated |
| Y10S 200/39 | . Motor vehicle-steering column |
| Y10S 200/40 | . Moisture |
| Y10S 200/41 | . Liquid contact |
| Y10S 200/42 | . Contact welding considerations |
| Y10S 200/43 | . Fluid-operated matrix switches |
| Y10S 200/44 | . Lubrication-periodic switches |
| Y10S 200/46 | . Separators and/or insulators for stacked leaf spring contacts |
| Y10S 200/47 | . Light guides for switch indicators, e.g. prisms, reflectors or cables |

Guidance heading: Distillation: processes, thermolytic

Y10S 201/00 Distillation: processes, thermolytic

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

Guidance heading: Distillation: apparatus

Y10S 202/00 Distillation: apparatus

- Y10S 202/01 . Scale problems digest

Guidance heading: Distillation: processes, separatory

Y10S 203/00 Distillation: processes, separatory

- Y10S 203/01 . Solar still
- Y10S 203/02 . Laboratory distillation
- Y10S 203/03 . Acrylonitrile
- Y10S 203/04 . Heat pump
- Y10S 203/05 . Human waste
- Y10S 203/06 . Reactor-distillation
- Y10S 203/07 . Start up or shut down
- Y10S 203/08 . Waste heat
- Y10S 203/09 . Plural feed
- Y10S 203/10 . Vinyl acetate
- Y10S 203/11 . Batch distillation
- Y10S 203/13 . Spirits
- Y10S 203/14 . Ejector-eductor
- Y10S 203/16 . Combination
- Y10S 203/17 . Saline water conversion
- Y10S 203/18 . Control

- Y10S 203/19 . Sidestream
- Y10S 203/20 . Power plant
- Y10S 203/21 . Acrylic acid or ester
- Y10S 203/22 . Accessories
- Y10S 203/23 . Methanol
- Y10S 203/24 . Mobile, marine distiller
- Y10S 203/25 . Non-distilling bottoms treatment
- Y10S 203/90 . Particular type of heating

Guidance heading: Chemistry: electrical and wave energy

Y10S 204/00 Chemistry: electrical and wave energy

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

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| Y10S 204/908 | .. | Phosphorus treating agent |
| Y10S 204/909 | .. | Heavy metal treating agent |
| Y10S 204/91 | .. | Sulfur treating agent |
| Y10S 204/911 | .. | Nitrogen treating agent |
| Y10S 204/912 | .. | Oxygen treating agent |
| Y10S 204/913 | ... | Peroxide agent |
| Y10S 204/914 | .. | Only carbon, hydrogen or halogen atom in treating agent |

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

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

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

Guidance heading: **Special receptacle or package**

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

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|--------------|---|------------------------|
| Y10S 206/80 | . | Chewing gum |
| Y10S 206/802 | . | Shirred sausage casing |

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

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

Guidance heading: Mineral oils: processes and products

Y10S 208/00 Mineral oils: processes and products

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

Guidance heading: Classifying, separating, and assorting solids

Y10S 209/00 Classifying, separating, and assorting solids

- Y10S 209/90 . Sorting flat-type mail
- Y10S 209/901 . Froth flotation ; copper
- Y10S 209/902 . Froth flotation ; phosphate
- Y10S 209/903 . Feeder conveyor having opposed grippers
- Y10S 209/904 . Feeder conveyor holding item by magnetic attraction
- Y10S 209/905 . Feeder conveyor holding item by suction
- Y10S 209/906 . Pneumatic or liquid stream feeding item
- Y10S 209/907 . Magnetic feeder
- Y10S 209/908 . Item fed by free fall
- Y10S 209/909 . Item holding feed magazine insertable in sorting apparatus
- Y10S 209/91 . Feed hopper
- Y10S 209/911 . Feed means supporting or guiding item moving under influence of gravity
- Y10S 209/912 . Endless feed conveyor with means for holding each item individually
- Y10S 209/913 . Screw feed conveyor

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| Y10S 209/914 | . Diverse sequential feeding steps |
| Y10S 209/915 | . Centrifugal feeder |
| Y10S 209/916 | . Reciprocating pusher feeding item |
| Y10S 209/917 | . Endless belt pusher feeding item |
| Y10S 209/918 | . Swinging or rotating pusher feeding item |
| Y10S 209/919 | . Rotary feed conveyor |
| Y10S 209/92 | . Vibratory feed conveyor |
| Y10S 209/921 | . Reciprocating or oscillating feed conveyor |
| Y10S 209/922 | . Miscellaneous feed conveyors |
| Y10S 209/923 | . Feed through including at least one endless conveyor |
| Y10S 209/924 | . Gravity conveyor moving item from separating station |
| Y10S 209/925 | . Driven or fluid conveyor moving item from separating station |
| Y10S 209/926 | . Silverware sorter |
| Y10S 209/927 | . Cop sorter |
| Y10S 209/928 | . Container closure sorter |
| Y10S 209/929 | . Fastener sorter |
| Y10S 209/93 | . Municipal solid waste sorting |
| Y10S 209/931 | . Materials of construction |
| Y10S 209/932 | . Fluid applied to items |
| Y10S 209/933 | . Accumulation receiving separated items |
| Y10S 209/934 | . Moving items to sorting means in spaced relation lengthwise of feed path |
| Y10S 209/935 | . Ambulant |
| Y10S 209/936 | . Plural items tested as group |
| Y10S 209/937 | . Laundry sorting |
| Y10S 209/938 | . Illuminating means facilitating visual inspection |
| Y10S 209/939 | . Video scanning |

- Y10S 209/94 . Noncondition-responsive sorting by contour
- Y10S 209/941 . Item carrying bridge raisable to expose discharge opening
- Y10S 209/942 . Operator selects destination of item

Guidance heading: Liquid purification or separation

Y10S 210/00 Liquid purification or separation

- Y10S 210/03 . Belt alignment
- Y10S 210/05 . Coalescer
- Y10S 210/06 . Dehydrators
- Y10S 210/07 . Drier blocks
- Y10S 210/08 . Fat fryer
- Y10S 210/09 . Floating cover
- Y10S 210/13 . Part flow-full flow
- Y10S 210/17 . Twist-on
- Y10S 210/90 . Ultra pure water, e.g. conductivity water
- Y10S 210/901 . Specified land fill feature, e.g. prevention of ground water fouling
- Y10S 210/902 . Materials removed
 - Y10S 210/903 .. Nitrogenous
 - Y10S 210/904 ... -CN containing
 - Y10S 210/905 ... Protein
 - Y10S 210/906 .. Phosphorus containing
 - Y10S 210/907 ... Phosphate slimes
 - Y10S 210/908 .. Organic
 - Y10S 210/909 ... Aromatic compound, e.g. pcb, phenol
 - Y10S 210/91 ... Nonbiodegradable surfacant
 - Y10S 210/911 .. Cumulative poison
 - Y10S 210/912 ... Heavy metal
 - Y10S 210/913 Chromium
 - Y10S 210/914 Mercury
 - Y10S 210/915 .. Fluorine containing
 - Y10S 210/916 .. Odor, e.g. including control or abatement
 - Y10S 210/917 .. Color

- Y10S 210/918 . Miscellaneous specific techniques
- Y10S 210/919 . . using combined systems by merging parallel diverse waste systems
- Y10S 210/92 . . using combined systems of sequential local and regional or municipal sewage systems
- Y10S 210/921 . . Flow equalization or time controlled stages or cycles
- Y10S 210/922 . . Oil spill cleanup, e.g. bacterial
- Y10S 210/923 . . . using mechanical means, e.g. skimmers, pump
- Y10S 210/924 . . . using physical agent, e.g. sponge, mop
- Y10S 210/925 . . . using chemical agent
- Y10S 210/926 . . using oxidation ditch, e.g. carousel
- Y10S 210/928 . Paper mill waste, e.g. white water, black liquor treated
- Y10S 210/929 . Hemoultrafiltrate volume measurement or control processes
- Y10S 210/93 . Paint detackifying
- Y10S 210/931 . Zebra mussel mitigation or treatment

Guidance heading: Supports: racks

Y10S 211/00 Supports: racks

- Y10S 211/01 . Magnetic article holder

Guidance heading: Traversing hoists

Y10S 212/00 Traversing hoists

- Y10S 212/901 . Drolley-type cranes

Guidance heading: Bottles and jars

Y10S 215/00 Bottles and jars

- Y10S 215/01 . Fins
- Y10S 215/02 . Coatings and laminations for making of bottle caps
- Y10S 215/03 . Medical
- Y10S 215/04 . Capping materials
- Y10S 215/05 . Spoons
- Y10S 215/06 . Resin-coated bottles

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

Guidance heading: Receptacles

Y10S 220/00 Receptacles

- Y10S 220/01 . Beer barrels
- Y10S 220/02 . Bottle crates
- Y10S 220/03 . Breaker strips and sealing strips
- Y10S 220/04 . Bushings
- Y10S 220/05 . Antidrip
- Y10S 220/06 . Drains
- Y10S 220/07 . Flexible tubes
- Y10S 220/08 . Ice cream cabinets
- Y10S 220/09 . insulating materials
- Y10S 220/10 . Lunch kits
- Y10S 220/11 . Materials
- Y10S 220/12 . Molded
- Y10S 220/13 . Odd-shaped
- Y10S 220/14 . Plastic
- Y10S 220/15 . Plastic bottle crates
- Y10S 220/16 . Pressure indicators
- Y10S 220/17 . Pressure and temperature locks
- Y10S 220/18 . Refrigerator linings

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| Y10S 220/19 | . Rubber plugs and caps |
| Y10S 220/20 | . Safety locking devices |
| Y10S 220/21 | . Shields |
| Y10S 220/22 | . Seamless |
| Y10S 220/23 | . Fiberglass |
| Y10S 220/24 | . Tank trucks |
| Y10S 220/25 | . U-shaped sectional |
| Y10S 220/26 | . Vanity |
| Y10S 220/27 | . Vents |
| Y10S 220/28 | . Washtubs |
| Y10S 220/29 | . Welded seam |
| Y10S 220/30 | . Biodegradable |
| Y10S 220/31 | . Sonic seal |
| Y10S 220/32 | . Radiator cap |
| Y10S 220/33 | . Gasoline tank cap |
| Y10S 220/34 | . Anti-tamper pharmaceutical capsules, e.g. tamper indicating or resistant |
| Y10S 220/90 | . Rupture proof |
| Y10S 220/901 | . Liquified gas content, cryogenic |
| Y10S 220/902 | . Foam |
| Y10S 220/903 | . Insulating jacket for beverage container |
| Y10S 220/904 | . Pail or bucket of flexible or flaccid material, e.g. fabric, rubber |
| Y10S 220/905 | . Flexible fuel tank for a vehicle |
| Y10S 220/906 | . Beverage can, i.e. beer, soda |
| Y10S 220/907 | .. Collapsible |
| Y10S 220/908 | . Trash container |
| Y10S 220/9081 | .. with liner |
| Y10S 220/9082 | ... including deodorizer, animal repellent, or insecticide |

- Y10S 220/9083 . . . including guiding means for directing trash into the container, e.g. funnel
- Y10S 220/909 . . Segregated
- Y10S 220/91 . . Table-top type
- Y10S 220/911 . . . Can converted to ash container
- Y10S 220/912 . Cookware, i.e. pots and pans
- Y10S 220/913 . Ventilated container
- Y10S 220/914 . Container contoured to fit a body part
- Y10S 220/915 . Aerosol valve cap or protector
- Y10S 220/9151 . Hand-carried container for transporting a beverage or prepared food, e.g. lunch box, dinner pail, picnic cooler
- Y10S 220/9152 . . insulated cooler, e.g. for use on a picnic, at the beach
- Y10S 220/916 . Container including axially opposed removable closures
- Y10S 220/917 . Corrosion resistant container
- Y10S 220/918 . Spacing element for separating the walls of a spaced-wall container
- Y10S 220/919 . . Removable or separable spacing element
- Y10S 220/92 . . Shock absorbing spacing element, e.g. spring
- Y10S 220/921 . . Spacing element of unitary construction with one wall

Guidance heading: Article dispensing

Y10S 221/00 Article dispensing

- Y10S 221/01 . Storage retrieval

Guidance heading: Dispensing

Y10S 222/00 Dispensing

- Y10S 222/01 . Xerography

Guidance heading: Apparel apparatus

Y10S 223/00 Apparel apparatus

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

Y10S 223/04 . Hooks

Guidance heading: Package and article carriers

Y10S 224/00 Package and article carriers

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

- Y10S 224/92 . Carrier for fishing bait or lure, or fish carrier other than stringer
- Y10S 224/921 . Game carrier other than stringer
- Y10S 224/922 . Fishing rod holder
- Y10S 224/923 . Carrier with sleeping compartment
- Y10S 224/924 . Vehicle attached carrier for bicycle or motorcycle
- Y10S 224/925 . Carrier for grocery bag
- Y10S 224/926 . Vehicle attached carrier for beverage container or bottle
- Y10S 224/927 . Carrier for clothes hanger
- Y10S 224/928 . Trash receptacle
- Y10S 224/929 . Article carrier for electrical device
- Y10S 224/93 . . Attached to animate bearer
- Y10S 224/931 . Carrier for ammunition
- Y10S 224/932 . Carrier for towel or handkerchief
- Y10S 224/933 . Carrier for gloves
- Y10S 224/934 . Underwater carrier
- Y10S 224/935 . Carrier for cycle lock

Guidance heading: Elongated-member-driving apparatus

Y10S 227/00 Elongated-member-driving apparatus

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

Guidance heading: Metal fusion bonding

Y10S 228/00 Metal fusion bonding

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

Y10S 228/904 . Wire bonding

Guidance heading: Envelopes, wrappers, and paperboard boxes

Y10S 229/00 Envelopes, wrappers, and paperboard boxes

Y10S 229/90 . including means to facilitate handling by a mechanical apparatus during manufacturing or filling

Y10S 229/901 . Box structure alternatively useable as a container or a lid

Y10S 229/902 . Box for prepared or processed food

Y10S 229/903 . . Ovenable, i.e. disclosed to be placed in an oven

Y10S 229/904 . . Compartmented fast food holder or lap tray

Y10S 229/9041 . . Candy

Y10S 229/905 . . Frozen food

Y10S 229/906 . . Baked goods

Y10S 229/9061 . Cup lid with means for forming a drinking opening

Y10S 229/907 . Trash box

Y10S 229/908 . Paint tray

Y10S 229/909 . Cigar box

Y10S 229/91 . Bucket or pail type, i.e. liquid proof container with handle

Y10S 229/911 . . with closure

Y10S 229/912 . . . Separate element

Y10S 229/913 . Drawer-type

Y10S 229/914 . Basket-type with handle

Y10S 229/915 . Stacking feature

Y10S 229/9151 . . Gable-top box

Y10S 229/916 . . Means for ventilating while stacked

Y10S 229/917 . . Stacking of collapsed container or blank

Y10S 229/918 . . Corner construction

Y10S 229/919 . . Reinforced wall

Y10S 229/92 . Stress relief

Y10S 229/921 . with mailing indicia

Y10S 229/922 . with decorative feature

Y10S 229/923 . . Gift wrapped

- Y10S 229/924 . Means to facilitate gripping a tear strip
- Y10S 229/925 . . Finger opening, e.g. slit, aperture
- Y10S 229/926 . . Pull tab located in a seam

- Y10S 229/927 . Means for tearing or breaking rigid or semirigid thermoplastic container

- Y10S 229/928 . Expandable envelope

- Y10S 229/929 . Vented envelope

- Y10S 229/93 . Fold detail
- Y10S 229/931 . . Fold includes slit or aperture

- Y10S 229/932 . Ice cream cone carrier

- Y10S 229/933 . Mating container blanks
- Y10S 229/934 . . Compartmented bottle carrier
- Y10S 229/935 . . No waste, i.e. edge-to-edge blanks
- Y10S 229/936 . . Three or more blanks with alternating orientations
- Y10S 229/937 . . Plural blanks for making a single container

- Y10S 229/938 . Sandwich holder

- Y10S 229/939 . Container made of corrugated paper or corrugated paperboard

- Y10S 229/94 . Container material with specified grain direction

- Y10S 229/941 . Box having joint structure for preventing leakage

- Y10S 229/942 . Nonreusable box having means to facilitate collapsing or disassembling for disposal or for recycling of the box material, e.g. "knockdown" type

Guidance heading: Selective cutting, e.g. punching

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

- Y10S 234/01 . Fluid and photoelectric control

Guidance heading: Registers

Y10S 235/00 Registers

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

Guidance heading: Automatic temperature and humidity regulation

Y10S 236/00 Automatic temperature and humidity regulation

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

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

- Y10S 237/01 . Inert gas

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

Y10S 238/01 . Track structure assembled by gluing

Guidance heading: Fluid sprinkling, spraying, and diffusing

Y10S 239/00 Fluid sprinkling, spraying, and diffusing

Y10S 239/01 . Pattern sprinkler

Y10S 239/02 . Scarfing torches

Y10S 239/03 . Fluid amplifier

Y10S 239/04 . O-ring

Y10S 239/05 . Ball agitators

Y10S 239/06 . Lawn mower

Y10S 239/07 . Coanda

Y10S 239/08 . Cutter sprayer

Y10S 239/09 . Slide fastener

Y10S 239/10 . Carbon dioxide bulb

Y10S 239/11 . Magnets

Y10S 239/12 . Flexible outlets

Y10S 239/13 . Soot blowers and tube cleaners

Y10S 239/14 . Paint sprayers

Y10S 239/15 . Sprinkler systems with controls

Y10S 239/17 . Low volume

Y10S 239/19 . Nozzle materials

Y10S 239/21 . Air blast

Y10S 239/22 . Safety air nozzles

Y10S 239/23 . Screens

Y10S 239/90 . Electromagnetically actuated fuel injector having ball and seat type valve

Guidance heading: Solid material comminution or disintegration

Y10S 241/00 Solid material comminution or disintegration

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

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

- Y10S 242/01 . Tape program control means
- Y10S 242/02 . Narrow fabric winding apparatus
- Y10S 242/03 . Coreless coilers
- Y10S 242/90 . Particular apparatus material
- Y10S 242/901 . Figure eight winding
- Y10S 242/902 . Line loader for fishing reel
- Y10S 242/903 . Drum for a winch or hoist

- Y10S 242/904 . Water ski reel
- Y10S 242/905 . Winder with storage chamber, e.g. for deodorant, paper
- Y10S 242/906 . Static charger or discharger
- Y10S 242/907 . Vibration creation or dampening
- Y10S 242/908 . Fluid treatment or handling
- Y10S 242/909 . Heating or cooling
- Y10S 242/91 . Convolution tightener or loosener
- Y10S 242/911 . Cutter
- Y10S 242/912 . Indicator or alarm
- Y10S 242/913 . Safety device
- Y10S 242/914 . Special bearing or lubrication
- Y10S 242/915 . Coil gripper
- Y10S 242/916 . Hand tool
- Y10S 242/917 . Accomodating special material or article, e.g. antenna
- Y10S 242/918 . . . Web material, e.g. thermal insulation
- Y10S 242/919 . . . Ground cover, e.g. tarp
- Y10S 242/92 . Glass strand winding

Guidance heading: Aeronautics and astronautics

Y10S 244/00 Aeronautics and astronautics

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

Guidance heading: Railway switches and signals

Y10S 246/00 Railway switches and signals

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

Guidance heading: Supports

Y10S 248/00 Supports

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

- Y10S 248/923 Tilting
- Y10S 248/924 . . Adjustable size
- Y10S 248/925 . Mountain climbing aids, e.g. pitons etc.

Guidance heading: Static molds

Y10S 249/00 Static molds

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

Guidance heading: Radiant energy

Y10S 250/00 Radiant energy

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

Guidance heading: Valves and valve actuation

Y10S 251/00 Valves and valve actuation

- Y10S 251/90 . Valves with o-rings

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

Guidance heading: Compositions

Y10S 252/00 Compositions

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

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

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

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

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

Guidance heading: Fences

Y10S 256/00 Fences

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

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

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

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

- Y10S 257/901 . MOSFET substrate bias
- Y10S 257/902 . FET with metal source region
- Y10S 257/903 . FET configuration adapted for use as static memory cell
- Y10S 257/904 . . with passive components,, e.g. polysilicon resistors
- Y10S 257/905 . Plural dram cells share common contact or common trench
- Y10S 257/906 . Dram with capacitor electrodes used for accessing, e.g. bit line is capacitor plate
- Y10S 257/907 . Folded bit line dram configuration
- Y10S 257/908 . Dram configuration with transistors and capacitors of pairs of cells along a straight line between adjacent bit lines
- Y10S 257/909 . Macrocell arrays, e.g. gate arrays with variable size or configuration of cells
- Y10S 257/91 . Diode arrays, e.g. diode read-only memory array
- Y10S 257/911 . Light sensitive array adapted to be scanned by electron beam, e.g. vidicon device
- Y10S 257/912 . Charge transfer device using both electron and hole signal carriers
- Y10S 257/913 . with means to absorb or localize unwanted impurities or defects from semiconductors, e.g. heavy metal gettering
- Y10S 257/914 . Polysilicon containing oxygen, nitrogen, or carbon, e.g. sipos
- Y10S 257/915 . with titanium nitride portion or region
- Y10S 257/916 . Narrow band gap semiconductor material, $<<1\text{ev}$
- Y10S 257/917 . Plural dopants of same conductivity type in same region
- Y10S 257/918 . Light emitting regenerative switching device, e.g. light emitting scr arrays, circuitry
- Y10S 257/919 . Elements of similar construction connected in series or parallel to average out manufacturing variations in characteristics
- Y10S 257/92 . Conductor layers on different levels connected in parallel, e.g. to reduce resistance
- Y10S 257/921 . Radiation hardened semiconductor device
- Y10S 257/922 . with means to prevent inspection of or tampering with an integrated circuit, e.g. "smart card", anti-tamper
- Y10S 257/923 . with means to optimize electrical conductor current carrying capacity, e.g. particular conductor aspect ratio
- Y10S 257/924 . with passive device, e.g. capacitor, or battery, as integral part of housing or housing element, e.g. cap

- Y10S 257/925 . Bridge rectifier module
- Y10S 257/926 . Elongated lead extending axially through another elongated lead
- Y10S 257/927 . Different doping levels in different parts of PN junction to produce shaped depletion layer
- Y10S 257/928 . with shorted PN or schottky junction other than emitter junction
- Y10S 257/929 . PN junction isolated integrated circuit with isolation walls having minimum dopant concentration at intermediate depth in epitaxial layer, e.g. diffused from both surfaces of epitaxial layer
- Y10S 257/93 . Thermoelectric, e.g. peltier effect cooling

Guidance heading: Chemistry of carbon compounds

Y10S 260/00 Chemistry of carbon compounds

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

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

Guidance heading: Gas and liquid contact apparatus

Y10S 261/00 Gas and liquid contact apparatus

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| 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 |

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| 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 |

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| Y10S 261/54 | . Venturi scrubbers |
| Y10S 261/55 | . Reatomizers |
| Y10S 261/56 | . Variable venturi |
| Y10S 261/57 | . Interchangeable choke tube |
| Y10S 261/58 | . Choke tube having plurality of leaves |
| Y10S 261/59 | . Choke tube leaves flexible |
| Y10S 261/60 | . Duplex barrels |
| Y10S 261/61 | . Longitudinally reciprocating choke tube along air passage |
| Y10S 261/62 | . Longitudinally reciprocating choke tube having movable parts |
| Y10S 261/63 | . Longitudinally reciprocating choke tube, throttle-operated |
| Y10S 261/64 | . Longitudinally reciprocating choke tube, suction-operated |
| Y10S 261/65 | . Vaporizers |
| Y10S 261/66 | . Water injection to prevent detonation |
| Y10S 261/67 | . Carburetors with vented bowl |
| Y10S 261/68 | . Diaphragm-controlled inlet valve |
| Y10S 261/69 | . Fluid amplifiers in carburetors |
| Y10S 261/70 | . Sewage aerators ; diffusers |
| Y10S 261/71 | . Sewage aerators ; rotating |
| Y10S 261/72 | . Packing elements |
| Y10S 261/73 | . Carburetor primers ; ticklers |
| Y10S 261/74 | . Valve actuation ; electrical |
| Y10S 261/75 | . Flowing liquid aspirates gas |
| Y10S 261/76 | . Steam |
| Y10S 261/77 | . Plume abatement |
| Y10S 261/78 | . Sonic flow |
| Y10S 261/79 | . Cooling ponds |

- Y10S 261/80 . Electrical treatment
- Y10S 261/81 . Percolation control
- Y10S 261/82 . Upper end injectors
- Y10S 261/83 . Fuel vapor generation
- Y10S 261/84 . Tamperproof
- Y10S 261/85 . Droplet catchers
- Y10S 261/86 . Cooling tower ice prevention
- Y10S 261/87 . Cooling tower power generators
- Y10S 261/88 . Aroma dispensers
- Y10S 261/89 . . Electrically heated aroma dispensers

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

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

- Y10S 264/01 . Methods of blow-molding cellular containers
- Y10S 264/02 . Molding cellular aldehyde resins
- Y10S 264/03 . Molding cellular pvc-isocyanate resins
- Y10S 264/04 . Molding and forming bendable and flexible product from rigid preform
- Y10S 264/05 . Use of one or more blowing agents together
- Y10S 264/06 . Molding microballoons and binder
- Y10S 264/07 . Binding and molding cellular particles
- Y10S 264/08 . Fibrillating cellular materials
- Y10S 264/09 . Pre-expansion of foamed polystyrene
- Y10S 264/10 . Foamed polystyrene mold filling
- Y10S 264/11 . Molding styropor using steam probes-batch
- Y10S 264/12 . Molding styropor using steam probes continuous
- Y10S 264/13 . Cell size and distribution control while molding a foam
- Y10S 264/14 . forming integral skin on a foamed product

- Y10S 264/15 . Aging of foamed resin products
- Y10S 264/16 . Molding foamed polypropylen articles
- Y10S 264/17 . Molding a foam containing a filler
- Y10S 264/18 . Cross-linking a thermoplastic linear foam during molding
- Y10S 264/19 . Inorganic fiber
- Y10S 264/20 . Tar bonded
- Y10S 264/25 . Metallic oxide
- Y10S 264/26 . Composite fibers made of two or more materials
- Y10S 264/27 . Process of spinning viscose where viscose has high degree of polymerization
- Y10S 264/28 . Stretching filaments in gas or steam
- Y10S 264/29 . Mixed resin filaments
- Y10S 264/30 . Use of anatomy in making a mold or using said mold
- Y10S 264/31 . Processes of making tile and tile-like surfaces
- Y10S 264/32 . Processes in molding using asbestos or asphalt
- Y10S 264/33 . Blow-molding articles of nonuniform thickness
- Y10S 264/34 . Processes and molds for making buttons
- Y10S 264/35 . Use of CaO with refractories
- Y10S 264/36 . Processes of making metal-ceramics
- Y10S 264/37 . Processes and molds for making capsules
- Y10S 264/38 . Making film or tubes from casein
- Y10S 264/39 . Treatment of clay before and after molding
- Y10S 264/40 . Processes of coiling plastics
- Y10S 264/41 . Processes of molding collapsible tubes
- Y10S 264/42 . Processes of molding involving cross linking
- Y10S 264/43 . Processes of curing clay and concrete materials
- Y10S 264/44 . using destructible molds or cores in molding processes

- Y10S 264/45 . Molding using an electrical force
- Y10S 264/46 . Molding using an electrical heat
- Y10S 264/47 . Processes of splitting film, webs or sheets
- Y10S 264/48 . Processes of making filters
- Y10S 264/49 . Processes of using fly ash
- Y10S 264/50 . Use of fluid pressure in molding
- Y10S 264/51 . Use of fluidized bed in molding
- Y10S 264/52 . Processes of making corrugated tubes for gas mask
- Y10S 264/53 . Processes of using glass filter in molding process
- Y10S 264/54 . Processes in making insulators
- Y10S 264/55 . Processes for making jewelry
- Y10S 264/56 . Processes of molding lactams
- Y10S 264/57 . Processes of forming layered products
- Y10S 264/58 . Processes of forming magnets
- Y10S 264/59 . Processes in which a partial cure is involved
- Y10S 264/60 . Processes of molding plastisols
- Y10S 264/61 . Processes of molding polyamide
- Y10S 264/62 . Processes of molding porous films
- Y10S 264/63 . Processes of molding porous blocks
- Y10S 264/64 . Processes of using preform in molding
- Y10S 264/65 . Processes of preheating prior to molding
- Y10S 264/66 . Processes of reshaping and reforming
- Y10S 264/67 . forming ring-like structure
- Y10S 264/68 . Roll
- Y10S 264/70 . Processes for forming screens or perforating articles
- Y10S 264/71 . Processes of shaping by shrinking

- Y10S 264/72 . Processes of molding by spraying
- Y10S 264/73 . Processes of stretching
- Y10S 264/74 . Processes of repairing tires
- Y10S 264/75 . Processes of uniting two or more fibers
- Y10S 264/76 . Processes of uniting two or more parts
- Y10S 264/77 . Processes of molding urethanes
- Y10S 264/78 . Processes of molding using vacuum
- Y10S 264/79 . Processes of molding articles of vinylidene chloride
- Y10S 264/80 . Processes of waterproofing
- Y10S 264/81 . Plastic net
- Y10S 264/82 . Embossing by foaming
- Y10S 264/83 . Injection molding of polyolefin-type foam
- Y10S 264/84 . Conversion of foamed resinous buns into foamed billets having geometrical crosssections
- Y10S 264/90 . Direct application of fluid pressure differential to shape, reshape, i.e. distort, or sustain an article or preform and heat-setting, i.e. crystallizing of stretched or molecularly oriented portion thereof
- Y10S 264/901 . . Heat-setting of stretched or molecularly oriented article formed from planar preform, e.g. sheet, film
- Y10S 264/902 . . Production of continuous length
- Y10S 264/903 . . Heat-setting and simultaneous differential heating of stretched or molecularly oriented section of article or preform
- Y10S 264/904 . . Maintaining article in fixed shape during heat-setting
- Y10S 264/905 . . having plural, distinct differential fluid pressure shaping steps
- Y10S 264/906 . . . And heat-shrinking outside of mold including subsequent re-expanding of shrunken article using differential fluid pressure
- Y10S 264/907 . Direct application of fluid pressure differential to shape, reshape, i.e. distort, or sustain an article or preform and crystallizing of nonstretched or molecularly unoriented portion thereof
- Y10S 264/908 . . Crystallizing of neck portion of hollow article or hollow preform
- Y10S 264/909 . Direct application of fluid pressure differential to stretch an article or preform and heat shrinking of stretched article or preform
- Y10S 264/91 . Sintering to produce translucent inorganic article
- Y10S 264/911 . Recycling consumer used articles or products

- Y10S 264/912 . . From toroidal shapes, e.g. resilient tires
- Y10S 264/913 . . From fiber or filament, or fiber or filament containing article or product, e.g. textile, cloth fabric, carpet, fiberboard
- Y10S 264/914 . . . From cellulose containing articles, e.g. paper
- Y10S 264/915 . . From inorganic material containing articles or products, e.g. hydro-set, cement, plaster, wire, cable
- Y10S 264/916 . . From porous material containing articles, e.g. sponge, foam
- Y10S 264/917 . . by blow molding material recycled from consumer used article or product
- Y10S 264/918 . . From hollow- or container-type articles, e.g. tubes, bottles, cups
- Y10S 264/919 . . . From pipe or tube, e.g. hose
- Y10S 264/92 . . by extruding material recycled from consumer used article or product
- Y10S 264/921 . . by injection molding material recycled from consumer used article or product

Guidance heading: Metallurgical apparatus

Y10S 266/00 Metallurgical apparatus

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

Guidance heading: Spring devices

Y10S 267/00 Spring devices

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

Guidance heading: Work holders

Y10S 269/00 Work holders

- Y10S 269/90 . Supporting structure having work holder receiving apertures or projections

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

Guidance heading: Sheet feeding or delivering

Y10S 271/00 Sheet feeding or delivering

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

Guidance heading: Amusement devices: games

Y10S 273/00 Amusement devices: games

- Y10S 273/01 . Carbonate
- Y10S 273/02 . Styrene
- Y10S 273/03 . Epoxy
- Y10S 273/04 . Ethylene
- Y10S 273/05 . Vinyl
- Y10S 273/06 . Nylon
- Y10S 273/07 . Glass fiber

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

Guidance heading: Seal for a joint or juncture

Y10S 277/00 Seal for a joint or juncture

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| 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 |

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| Y10S 277/929 | . Seal feature where change in operation or condition induces additional leakage control |
| Y10S 277/93 | . Seal including heating or cooling feature |
| Y10S 277/931 | . Seal including temperature responsive feature |
| Y10S 277/932 | .. Bi-metallic |
| Y10S 277/933 | .. Chemical reaction or physical change of state |
| Y10S 277/934 | . Seal swells when wet |
| Y10S 277/935 | . Seal made of a particular material |
| Y10S 277/936 | .. Composite |
| Y10S 277/937 | ... Glass particles or filament |
| Y10S 277/938 | ... Carbon or graphite particle or filament |
| Y10S 277/939 | .. Containing metal |
| Y10S 277/94 | ... Alloy |
| Y10S 277/941 | ... Aluminum or copper |
| Y10S 277/942 | ... Silver or gold |
| Y10S 277/943 | .. Ceramic or glass |
| Y10S 277/944 | .. Elastomer or plastic |
| Y10S 277/945 | ... Containing fluorine |
| Y10S 277/946 | PTFE |

Guidance heading: Chucks or sockets

Y10S 279/00 Chucks or sockets

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

Guidance heading: Land vehicles

Y10S 280/00 Land vehicles

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

Guidance heading: Books, strips, and leaves

Y10S 281/00 Books, strips, and leaves

- Y10S 281/01 . Magnet

Guidance heading: Printed matter

Y10S 283/00 Printed matter

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

Y10S 283/904 . Credit card

Guidance heading: Pipe joints or couplings

Y10S 285/00 Pipe joints or couplings

Y10S 285/90 . Balanced pressure

Y10S 285/901 . Cap closures

Y10S 285/902 . Canted ring

Y10S 285/903 . Corrugated

Y10S 285/904 . Cryogenic

Y10S 285/905 . Different coefficients of expansion

Y10S 285/906 . Equivalents

Y10S 285/907 . Electrical fixtures

Y10S 285/908 . Extrusion holes

Y10S 285/909 . Fluorocarbons and memory plastics

Y10S 285/91 . Gaskets

Y10S 285/911 . Glass

Y10S 285/912 . Gear

Y10S 285/913 . Interdigitating

Y10S 285/914 . Irreversible

Y10S 285/915 . Mastic

Y10S 285/916 . Molecular change

Y10S 285/917 . Metallic seals

Y10S 285/918 . O-ring

Y10S 285/919 . Resinous

Y10S 285/92 . Remotely controlled

Y10S 285/921 . Snap-fit

- Y10S 285/922 . Safety and quick release for drill pipes
- Y10S 285/923 . Specific material
- Y10S 285/924 . Vented
- Y10S 285/925 . Swells when wet

Guidance heading: Closure fasteners

Y10S 292/00 Closure fasteners

- Y10S 292/01 . Automobile fender shield fasteners
- Y10S 292/02 . Auxiliary knob slip covers, guards
- Y10S 292/03 . Automobile multiple door latches
- Y10S 292/04 . Automatic release latches
- Y10S 292/05 . Automobile top latches
- Y10S 292/06 . Automobile window wing fasteners
- Y10S 292/07 . Disc cam ; also swinging windows, locking and operating means
- Y10S 292/08 . Buffer handles
- Y10S 292/09 . Hinge plate fasteners secured to upper sash
- Y10S 292/10 . Cupped disc fasteners
- Y10S 292/11 . Cover fasteners
- Y10S 292/12 . Closure operators
- Y10S 292/13 . Cow proof latches
- Y10S 292/14 . Hood latches
- Y10S 292/15 . Door, checks, floor
- Y10S 292/16 . Flexible bolts
- Y10S 292/17 . Hinge edge latches
- Y10S 292/18 . Gang locks
- Y10S 292/19 . Combined door holder and buffer

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| 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 |

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| Y10S 292/46 | . Sliding door fasteners |
| Y10S 292/47 | . Sash fasteners |
| Y10S 292/48 | . Traveling bag frame and camera cover fasteners |
| Y10S 292/49 | . Toggle catches |
| Y10S 292/50 | . Handbag or purse clasps |
| Y10S 292/51 | . Bolt guides |
| Y10S 292/52 | . Rollbacks |
| Y10S 292/53 | . Mounting and attachment |
| Y10S 292/54 | . Attachments and adjuncts |
| Y10S 292/55 | . Bolt and keeper aligners |
| Y10S 292/56 | . Silencers |
| Y10S 292/57 | . Anti-friction provisions |
| Y10S 292/58 | . Lubrication |
| Y10S 292/59 | . insulation, heat and electrical |
| Y10S 292/60 | . Adjustment provisions |
| Y10S 292/61 | . Spring devices |
| Y10S 292/62 | . Lost motion connections |
| Y10S 292/63 | . Finger or hand grip |
| Y10S 292/64 | . Assembly |
| Y10S 292/65 | . Emergency or safety |
| Y10S 292/66 | . Thermally controlled mechanism |
| Y10S 292/67 | . Vehicle door latches free of sash or pane |
| Y10S 292/68 | . Locker latches |
| Y10S 292/69 | . Washing machine or stove closure latch |
| Y10S 292/70 | . Weather strip and sash fastener combined |
| Y10S 292/71 | . Refrigerator latches |

Y10S 292/72 . Starters

Y10S 292/73 . Anti-rattlers

Guidance heading: Vehicle fenders

Y10S 293/00 Vehicle fenders

Y10S 293/01 . Pusher attachment for tractors

Y10S 293/06 . Magnetic fender securing devices

Guidance heading: Handling: hand and hoist-line implements

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

Y10S 294/901 . Plate lifting clamp

Y10S 294/902 . Gripping element

Y10S 294/903 . Battery carrier

Y10S 294/904 . Vehicle carrier

Y10S 294/905 . Wireless remote control device

Y10S 294/906 . Atomic fuel handler

Y10S 294/907 . Sensor controlled device

Guidance heading: Land vehicles: bodies and tops

Y10S 296/00 Land vehicles: bodies and tops

Y10S 296/90 . Material

Y10S 296/90101 . . Plastic

Guidance heading: Chairs and seats

Y10S 297/00 Chairs and seats

Y10S 297/01 . Foam

Y10S 297/02 . Molded

Y10S 297/03 . Pneumatic

- Y10S 297/04 . Wheelchair
- Y10S 297/05 . Fireproof
- Y10S 297/06 . Hook and loop type fastener
- Y10S 297/07 . Rocker/recliner
- Y10S 297/08 . Inflatable bellows
- Y10S 297/10 . Occupant-arising assist
- Y10S 297/11 . Baby bouncer
- Y10S 297/90 . Chair for suntanning in the prone, i.e. facedown position

Guidance heading: Fluid-pressure and analogous brake systems

Y10S 303/00 Fluid-pressure and analogous brake systems

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

Guidance heading: Wheel substitutes for land vehicles

Y10S 305/00 Wheel substitutes for land vehicles

Y10S 305/90 . Master link

Guidance heading: Electrical transmission or interconnection systems

Y10S 307/00 Electrical transmission or interconnection systems

Y10S 307/01 . Data transmitted over power lines

Guidance heading: Electrical generator or motor structure

Y10S 310/00 Electrical generator or motor structure

Y10S 310/02 . Hysteresis rotors and motors

Y10S 310/03 . Hall effect generators and converters

Y10S 310/06 . Printed-circuit motors and components

Y10S 310/80 . Piezoelectric polymers, e.g. PVDF

Guidance heading: Supports: cabinet structure

Y10S 312/00 Supports: cabinet structure

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

Y10S 312/902 . Carrying case

Guidance heading: Electric lamp and discharge devices

Y10S 313/00 Electric lamp and discharge devices

Y10S 313/07 . Bombardment induced conductivity

Guidance heading: Electric lamp and discharge devices: systems

Y10S 315/00 Electric lamp and discharge devices: systems

Y10S 315/01 . Fluorescent lamp circuits with more than two principle electrodes

Y10S 315/02 . High frequency starting operation for fluorescent lamp

Y10S 315/03 . Circuit for ion gauges and pressure gauges

- Y10S 315/04 . Dimming circuit for fluorescent lamps
- Y10S 315/05 . Starting and operating circuit for fluorescent lamp
- Y10S 315/07 . Starting and control circuits for gas discharge lamp using transistors

Guidance heading: Electricity: motive power systems

Y10S 318/00 Electricity: motive power systems

- Y10S 318/02 . Windshield wiper controls

Guidance heading: Electricity: battery or capacitor charging or discharging

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

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

- Y10S 320/29 . Transformer having plural secondaries
- Y10S 320/30 . Plural transformers
- Y10S 320/31 . Plural rectifier systems
- Y10S 320/32 . Voltage divider having diverse elements other than merely plural resistors
- Y10S 320/33 . Aircraft or spacecraft application
- Y10S 320/34 . Robot, hybrid, recreational or emergency vehicle
- Y10S 320/35 . Home power station
- Y10S 320/36 . Distribution system, e.g. railroad lighting

Guidance heading: Electricity: single generator systems

Y10S 322/00 Electricity: single generator systems

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

Guidance heading: Electricity: power supply or regulation systems

Y10S 323/00 Electricity: power supply or regulation systems

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

Y10S 323/911 . Medical electronics

Guidance heading: Electricity: measuring and testing

Y10S 324/00 Electricity: measuring and testing

Y10S 324/80 . Divining rods

Guidance heading: Oscillators

Y10S 331/00 Oscillators

Y10S 331/02 . Phase locked loop having lock indicating or detecting means

Y10S 331/03 . Logic gate active element oscillator

Guidance heading: Inductor devices

Y10S 336/00 Inductor devices

Y10S 336/01 . Superconductive

Y10S 336/02 . Separable

Guidance heading: Electrical resistors

Y10S 338/00 Electrical resistors

Y10S 338/01 . Worm gear drive

Guidance heading: Communications: radio wave antennas

Y10S 343/00 Communications: radio wave antennas

Y10S 343/01 . with vibration damper or wind catcher

Y10S 343/02 . Satellite-mounted antenna

Guidance heading: Computer graphics processing and selective visual display systems

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

Y10S 345/901 . Electronic book with display

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

Guidance heading: Incremental printing of symbolic information

Y10S 347/00 Incremental printing of symbolic information

- Y10S 347/90 . Data processing for electrostatic recording

Guidance heading: Television

Y10S 348/00 Television

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

- Y10S 348/909 . Noise responsive signal processing
- Y10S 348/91 . Flicker reduction
- Y10S 348/911 . Line doubler adapted for reproducing program originally from film, e.g. 24 frame per second
- Y10S 348/912 . Differential amplitude consideration, e.g. amplitude vs. frequency
- Y10S 348/913 . Letterbox, e.g. display 16:9 aspect ratio image on 4:3 screen
- Y10S 348/914 . Delay for equalization

Guidance heading: Optics: image projectors

Y10S 353/00 Optics: image projectors

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

Guidance heading: Facsimile and static presentation processing

Y10S 358/00 Facsimile and static presentation processing

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

Guidance heading: Optical: systems and elements

Y10S 359/00 Optical: systems and elements

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

Guidance heading: Dynamic magnetic information storage or retrieval

Y10S 360/00 Dynamic magnetic information storage or retrieval

- Y10S 360/90 . Disk drive packaging
- Y10S 360/901 .. Access time
- Y10S 360/902 .. Storage density, e.g. bpi, tpi
- Y10S 360/903 .. Physical parameter, e.g. form factor
- Y10S 360/904 ... Weight

Guidance heading: Illumination

Y10S 362/00 Illumination

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

Guidance heading: Agitating

Y10S 366/00**Agitating**

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

Guidance heading: **Communications, electrical: acoustic wave systems and devices**

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

- Y10S 367/90 . Sonar time varied gain control systems
- Y10S 367/901 . Noise or unwanted signal reduction in nonseismic receiving system
- Y10S 367/902 . Speed of sound compensation
- Y10S 367/903 . Transmit-receive circuitry
- Y10S 367/904 . Doppler compensation systems
- Y10S 367/905 . Side lobe reduction or shading
- Y10S 367/906 . Airborne shock-wave detection

- Y10S 367/907 . Coordinate determination
- Y10S 367/908 . Material level detection, e.g. liquid level
- Y10S 367/909 . Collision avoidance
- Y10S 367/91 . Portable sonar devices
- Y10S 367/911 . Particular well-logging apparatus
- Y10S 367/912 . . Particular transducer

Guidance heading: Multiplex communications

Y10S 370/00 Multiplex communications

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

Guidance heading: Coherent light generators

Y10S 372/00 Coherent light generators

- Y10S 372/70 . Optical delay
- Y10S 372/701 . Nozzle
- Y10S 372/702 . Isotope

- Y10S 372/703 . Optical isolater
- Y10S 372/704 . Summary reference
- Y10S 372/705 . Neat thing

Guidance heading: Induced nuclear reactions: processes, systems, and elements

Y10S 376/00 Induced nuclear reactions: processes, systems, and elements

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

Guidance heading: X-ray or gamma ray systems or devices

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

- Y10S 378/901 . Computer tomography program or processor

Guidance heading: Telephonic communications**Y10S 379/00 Telephonic communications**

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

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

- Y10S 383/901 . Hot water or ice bag
- Y10S 383/902 . having nonbag use
- Y10S 383/903 . Stress relief

- Y10S 383/904 . Filling tube
- Y10S 383/905 . Dead fold, ductile, closure element
- Y10S 383/906 . Dispensing feature
- Y10S 383/907 . Peculiar, particular shape
- Y10S 383/908 . Material having specified grain direction or molecular orientation

Guidance heading: Bearings

Y10S 384/00 Bearings

- Y10S 384/90 . Cooling or heating
- Y10S 384/901 .. Floating bushing
- Y10S 384/902 .. Porous member
- Y10S 384/903 .. Retaining ring
- Y10S 384/904 .. Propeller shaft outer bearing
- Y10S 384/905 .. Temperature compensation
- Y10S 384/9051 .. Cup-shaped bearing
- Y10S 384/906 .. Antirotation key
- Y10S 384/907 .. Bearing material or solid lubricant
- Y10S 384/9071 .. Jewel, glass, ceramic or carbon
- Y10S 384/908 .. Nylon or polytetrafluorethylene
- Y10S 384/909 .. Plastic
- Y10S 384/91 .. Powders
- Y10S 384/911 .. including fiber
- Y10S 384/912 .. Metallic
- Y10S 384/913 .. Metallic compounds

Guidance heading: Optical waveguides

Y10S 385/00 Optical waveguides

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

Guidance heading: Electricity: motor control systems

Y10S 388/00 Electricity: motor control systems

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|---------------|---|
| Y10S 388/90 | . Specific system operational feature |
| Y10S 388/901 | .. Sample and hold |
| Y10S 388/902 | .. Compensation |
| Y10S 388/903 | .. Protective, e.g. voltage or current limit |
| Y10S 388/904 | .. Stored velocity profile |
| Y10S 388/905 | .. Armature and field windings connected in series, i.e. series motor |
| Y10S 388/906 | .. Proportional-integral system |
| Y10S 388/907 | . Specific control circuit element or device |
| Y10S 388/9072 | .. Bridge circuit |
| Y10S 388/9075 | .. Computer or microprocessor |
| Y10S 388/908 | .. Frequency to voltage converter |
| Y10S 388/909 | .. Monitoring means |
| Y10S 388/91 | .. Operational/differential amplifier |
| Y10S 388/911 | .. Phase locked loop |
| Y10S 388/912 | .. Pulse or frequency counter |
| Y10S 388/913 | .. Saturable reactor, space discharge device, or magnetic amplifier |
| Y10S 388/914 | ... Thyratron or ignitron |
| Y10S 388/915 | .. Sawtooth or ramp waveform generator |
| Y10S 388/916 | .. Threshold circuit |
| Y10S 388/917 | .. Thyristor or scr |
| Y10S 388/918 | ... Trigger by unijunction transistor |
| Y10S 388/919 | ... Triggered by resistor or capacitor |
| Y10S 388/92 | ... Chopper |
| Y10S 388/921 | .. Timer or time delay means |
| Y10S 388/922 | .. Tuned or resonant circuit |
| Y10S 388/923 | . Specific feedback condition or device |
| Y10S 388/924 | .. Centrifugal device, e.g. governor |
| Y10S 388/925 | ... including contacts which open and close motor circuit |
| Y10S 388/926 | ... Which controls a vacuum tube or solid-state device in motor circuit |
| Y10S 388/927 | ... Which varies resistance of motor circuit |
| Y10S 388/928 | ... Which controls position of commutator brushes |
| Y10S 388/9281 | .. Counter or back emf, CEMF |
| Y10S 388/929 | .. Fluid/granular material flow rate, pressure, or level |
| Y10S 388/93 | .. Load or torque |
| Y10S 388/931 | ... Electric generator or magnet as auxiliary load |
| Y10S 388/932 | ... with reverse torque, e.g. braking |
| Y10S 388/933 | .. Radiant energy responsive device |
| Y10S 388/934 | .. Thermal condition |
| Y10S 388/935 | . Specific application: |
| Y10S 388/936 | .. Food preparation equipment |

Y10S 388/937 . . Hand tool

Guidance heading: Typewriting machines

Y10S 400/00 Typewriting machines

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

Guidance heading: Coating implements with material supply

Y10S 401/00 Coating implements with material supply

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

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

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

- Y10S 402/50 . Binder with tab or fastener for securing sheet
- Y10S 402/501 . Sheet retainer continuous with periphery of sheet notch
- Y10S 402/502 . Container with sheet retainer
- Y10S 402/503 . Binder device, sheet or depository including magnetic material

Guidance heading: Joints and connections

Y10S 403/00 Joints and connections

- Y10S 403/01 . Magnetic
- Y10S 403/02 . Metal treatment
- Y10S 403/03 . Load-responsive release

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

Guidance heading: Cutting by use of rotating axially moving tool

Y10S 408/00 Cutting by use of rotating axially moving tool

- Y10S 408/01 . Bowling ball drill
- Y10S 408/70 . Cutting by use of ultrasonic energy
- Y10S 408/701 . Cutting by use of radiant energy, e.g. laser, maser
- Y10S 408/702 . Cutting by use of penumatic drive means
- Y10S 408/703 . Trepanning
- Y10S 408/704 . Drilling small holes
- Y10S 408/705 . Drilling deep holes
- Y10S 408/706 . Drilling brake lining
- Y10S 408/707 . Drilling opening for bearing in connecting rod or piston
- Y10S 408/708 . Drilling opening for bearing in engine block
- Y10S 408/709 . Reboring piston receiving cylinder

- Y10S 408/71 . Safety device
- Y10S 408/711 . Adapter for broken tool
- Y10S 408/712 . Drill press adapted to use portable hand drill
- Y10S 408/713 . Tool having detachable cutting edge
- Y10S 408/714 . Resilient tool or tool-support

Guidance heading: Gear cutting, milling, or planing

Y10S 409/00 Gear cutting, milling, or planing

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

Guidance heading: Expanded, threaded, driven, headed, tool-deformed, or locked-threaded fastener

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

- Y10S 411/01 . Thread forming, reforming, or cleaning
- Y10S 411/02 . Temperature modification
- Y10S 411/03 . Utilizing fluid pressure
- Y10S 411/90 . Fastener or fastener element composed of plural different materials
 - Y10S 411/901 .. Core and exterior of different materials
 - Y10S 411/902 ... Metal core
 - Y10S 411/903 Resinous exterior
 - Y10S 411/904 . Fastener or fastener element composed of nonmetallic material
 - Y10S 411/905 .. Paper or wood
 - Y10S 411/906 .. Leather or fabric
 - Y10S 411/907 .. Elastomeric
 - Y10S 411/908 .. Resinous material

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| 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 |

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| Y10S 411/9371 | | Predistorted thread pitch or diameter |
| Y10S 411/9372 | | Post-distorted thread pitch or diameter |
| Y10S 411/938 | ... | Distorted thread |
| Y10S 411/939 | ... | Longitudinal key |
| Y10S 411/94 | ... | Radial key or gib |
| Y10S 411/941 | ... | Side clutch |
| Y10S 411/9411 | .... | Spring |
| Y10S 411/9412 | .... | Roller |
| Y10S 411/9413 | .... | Ball |
| Y10S 411/942 | ... | Tangential key |
| Y10S 411/943 | .. | Flexible washer |
| Y10S 411/944 | .. | Flexible key |
| Y10S 411/945 | .. | Cross key |
| Y10S 411/946 | ... | Spring-seated |
| Y10S 411/947 | .. | Elastic-gripping action |
| Y10S 411/948 | .. | Longitudinal key |
| Y10S 411/949 | .. | Ratchet and bolt-carried pawl |
| Y10S 411/95 | .. | Ratchet and nut-carried pawl |
| Y10S 411/951 | ... | Flexible |
| Y10S 411/952 | ... | Pivoted |
| Y10S 411/953 | .. | Washer-carried pawl |
| Y10S 411/954 | .. | Wedge slotted bolt |
| Y10S 411/955 | . | Locked bolt head or nut |
| Y10S 411/956 | .. | Automatic base clutch |
| Y10S 411/957 | ... | Biting tooth |
| Y10S 411/958 | .... | Coiled washer |
| Y10S 411/959 | .... | Bolt- or nut-carried |
| Y10S 411/96 | ... | Friction |
| Y10S 411/961 | ... | Pawl and ratchet |
| Y10S 411/962 | .... | Bolt head or nut-carried pawl |
| Y10S 411/963 | .... | Yielding interlocking washer |
| Y10S 411/964 | ... | Detent |
| Y10S 411/965 | .. | with retainer |
| Y10S 411/966 | ... | Multiple, i.e. gang type |
| Y10S 411/967 | ... | Deformable bolt head or nut |
| Y10S 411/968 | ... | Deformable base member |
| Y10S 411/969 | ... | Deformable retainer |
| Y10S 411/97 | ... | Resilient retainer |
| Y10S 411/971 | ... | And side lock |
| Y10S 411/972 | .. | Distorted |
| Y10S 411/973 | .. | Gravity bolt head, nut or washer |

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| Y10S 411/974 | .. | Side lock |
| Y10S 411/975 | ... | Rotatable washer |
| Y10S 411/976 | | Bent tongue-locked |
| Y10S 411/977 | .... | Pawl-locked |
| Y10S 411/978 | ... | Pawl and ratchet |
| Y10S 411/979 | ... | Resilient |
| Y10S 411/98 | .... | Automatic |
| Y10S 411/981 | ..... | Coiled washer |
| Y10S 411/982 | ..... | Spring-tongued washer plate |
| Y10S 411/983 | ... | Inelastic tongue |
| Y10S 411/984 | ... | Longitudinal |
| Y10S 411/985 | .... | Bolthead- or nut-held |
| Y10S 411/986 | ..... | Reversed bolthead or nut |
| Y10S 411/987 | .... | Side pin |
| Y10S 411/988 | .... | Spike-held locking plate |
| Y10S 411/989 | .... | Swinging |
| Y10S 411/99 | .... | Washer tongue-held |
| Y10S 411/991 | ... | Transversely sliding |
| Y10S 411/992 | .... | Key, plate, or bar |
| Y10S 411/993 | ..... | Bolthead- or nut-held |
| Y10S 411/994 | ..... | Sliding washer |
| Y10S 411/995 | ... | Transversely swinging |
| Y10S 411/996 | .. | Transverse base-locking key |
| Y10S 411/997 | .. | Longitudinal fastener |
| Y10S 411/998 | . | with positive bolt lock |
| Y10S 411/999 | . | with retainer, e.g. tether |

Guidance heading: Bookbinding: process and apparatus

Y10S 412/00 Bookbinding: process and apparatus

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

Guidance heading: Material or article handling

Y10S 414/00 Material or article handling

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

- Y10S 414/133 . Handling device on tractor unit
- Y10S 414/134 . Handicapped person handling
- Y10S 414/135 . Associated with semiconductor wafer handling
- Y10S 414/136 . . including wafer orienting means
- Y10S 414/137 . . including means for charging or discharging wafer cassette
- Y10S 414/138 . . . Wafers positioned vertically within cassette
- Y10S 414/139 . . including wafer charging or discharging means for vacuum chamber
- Y10S 414/14 . . Wafer cassette transporting
- Y10S 414/141 . . includes means for gripping wafer

Guidance heading: Rotary kinetic fluid motors or pumps

Y10S 415/00 Rotary kinetic fluid motors or pumps

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

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

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

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

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

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

- Y10S 418/01 . Non-working fluid separation

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

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

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

- Y10S 422/90 . Decreasing pollution or environmental impact
- Y10S 422/901 . Polymer dissolver
- Y10S 422/902 . Sodium chloride and potassium chloride dissolver
- Y10S 422/903 . Radioactive material apparatus
- Y10S 422/904 . Nitrogen fixation means
- Y10S 422/905 . Miscellaneous liquid sterilization means
- Y10S 422/906 . Plasma or ion generation means
- Y10S 422/907 . Corona or glow discharge means

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

- Y10S 423/01 . Waste acid containing iron
- Y10S 423/02 . . Sulfuric acid
- Y10S 423/03 . Papermaking liquor
- Y10S 423/04 . Manganese marine modules
- Y10S 423/05 . Automatic, including computer, control

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| Y10S 423/06 | . Temperature control |
| Y10S 423/07 | . Isotope separation |
| Y10S 423/08 | . Corrosion or deposition inhibiting |
| Y10S 423/09 | . Reaction techniques |
| Y10S 423/10 | .. Plasma energized |
| Y10S 423/11 | .. High pressure |
| Y10S 423/12 | .. Molten media |
| Y10S 423/13 | .. Catalyst contact |
| Y10S 423/14 | .. Ion exchange ; chelation or liquid/liquid ion extraction |
| Y10S 423/15 | .. Comminution |
| Y10S 423/16 | .. Fluidization |
| Y10S 423/17 | .. Microbiological reactions |
| Y10S 423/18 | . Treating trash or garbage |
| Y10S 423/19 | . Geothermal steam purification |
| Y10S 423/21 | . Faujasite, e.g. X, Y, CZS-3, ECR-4, Z-14HS, VHP-R |
| Y10S 423/22 | . MFI, e.g. ZSM-5, silicalite, LZ-241 |
| Y10S 423/23 | . Ferrierite, e.g. SR-D ZSM-33 |
| Y10S 423/24 | . LTA, e.g. A, alpha, ZK-4, ZK-21, ZK-22 |
| Y10S 423/25 | . Mordenite, e.g. NA-D, pttiolite, zeolon |
| Y10S 423/26 | . Mazzite, e.g. ZSM-4, omega |
| Y10S 423/27 | . Beta, e.g. NU-2 |
| Y10S 423/28 | . LTL, e.g. BA-G, L, AG-1, AG-2, AG-4, BA-6 |
| Y10S 423/29 | . MEL, e.g. ZSM-11 |
| Y10S 423/30 | . Alpo and sapo |
| Y10S 423/31 | . Rho, e.g. ECR-10, LZ-214 |
| Y10S 423/32 | . Sodalite, e.g. HS, ultramarine |
| Y10S 423/33 | . MTW, e.g. ZSM-12, NU-13, CZH-5, TPZ-3 |
| Y10S 423/34 | . Pentasils other than MFI and MEL, e.g. AZ-1, TZ-01, TZ-02, TRS, ZBM-10 |
| Y10S 423/35 | . TON, e.g. Theta-1, ISI-1, KZ-2, ZSM-22, NU-10 |

- Y10S 423/36 . MTT, e.g. ZSM-23, ISI-1, KZ-1, EU-1, EU-4, EU-13
- Y10S 423/37 . LEV, e.g. levynik, ZMT-45, ZK-20, NU-3, LZ-132, LZ-133
- Y10S 423/38 . Offretite, e.g. TMA offrete
- Y10S 423/39 . Fullerene, e.g. c60, c70 derivative and related process
- Y10S 423/40 . Fullerene composition

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

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

- Y10S 424/01 . Aerosol hair preparation
- Y10S 424/02 . Resin hair settings
- Y10S 424/03 . Hair bleach
- Y10S 424/04 . Dandruff
- Y10S 424/05 . Stick
- Y10S 424/06 . Chelate
- Y10S 424/07 . Microporous membranes
- Y10S 424/08 . Systemic pesticides
- Y10S 424/09 . Fish posts
- Y10S 424/10 . Insect repellent
- Y10S 424/11 . Termite treating
- Y10S 424/12 . Fertilization attaching inhibition
- Y10S 424/13 . Burn treatment
- Y10S 424/14 . Topical contraceptives and spermicides
- Y10S 424/15 . Suppositories
- Y10S 424/16 . Dendrimers and dendritic polymers
- Y10S 424/80 . Antibody or fragment thereof whose amino acid sequence is disclosed in whole or in part
- Y10S 424/801 . involving antibody or fragment thereof produced by recombinant dna technology

- Y10S 424/802 . Antibody or antigen-binding fragment thereof that binds gram-positive bacteria
- Y10S 424/803 . Antibody or antigen-binding fragment thereof that binds gram-negative bacteria
- Y10S 424/804 . involving IgG3, IgG4, IgA, or IgY
- Y10S 424/805 . involving IgE or IgD
- Y10S 424/806 . involving IgM
- Y10S 424/807 . . Monoclonal
- Y10S 424/808 . . . Human
- Y10S 424/809 . involving immunoglobulin or antibody fragment, e.g. fab`, fv, fc, heavy chain or light chain
- Y10S 424/81 . involving autoimmunity, allergy, immediate hypersensitivity, delayed hypersensitivity, immunosuppression, immunotolerance, or anergy
- Y10S 424/811 . involving sex selection or contraception
- Y10S 424/812 . Liposome comprising an antibody, antibody fragment, antigen, or other specific or nonspecific immunoeffector
- Y10S 424/813 . Viral vaccine for bovine species, e.g. cattle
- Y10S 424/814 . Viral vaccine for ovine species, e.g. sheep
- Y10S 424/815 . Viral vaccine for porcine species, e.g. swine
- Y10S 424/816 . Viral vaccine for avian species, e.g. poultry or other birds
- Y10S 424/817 . Viral vaccine for fish
- Y10S 424/818 . Viral vaccine for canidae or mustelidae, e.g. dogs, foxes, minks
- Y10S 424/819 . Viral vaccine for feline species, e.g. cats
- Y10S 424/82 . Viral vaccine for equine species, e.g. horses
- Y10S 424/821 . involving temperature-sensitive mutant virus
- Y10S 424/822 . involving tk- virus
- Y10S 424/823 . Bacterial vaccine for bovine species, e.g. cattle
- Y10S 424/824 . Bacterial vaccine for ovine species, e.g. sheep
- Y10S 424/825 . Bacterial vaccine for porcine species, e.g. swine
- Y10S 424/826 . Bacterial vaccine for avian species, e.g. poultry or other birds
- Y10S 424/827 . Bacterial vaccine for fish

- Y10S 424/828 . Bacterial vaccine for canidae or mustelidae, e.g. dogs, foxes, minks
- Y10S 424/829 . Bacterial vaccine for equine species, e.g. horses
- Y10S 424/83 . involving temperature-sensitive mutant bacterium
- Y10S 424/831 . involving capsular polysaccharide of bacterium, e.g. polyribosyl ribitol phosphate
- Y10S 424/832 . involving bacterial toxin that has modified amino acid sequence
- Y10S 424/90 . In vivo diagnostic or in vivo test agent which contains an additional ingredient to reduce the toxicity or side effects of the active ingredient

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

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

- Y10S 425/001 . Accumulator
- Y10S 425/002 . Air support
- Y10S 425/003 . Appendage
- Y10S 425/004 . Back pressure
- Y10S 425/005 . Cammed
- Y10S 425/007 . Coil
- Y10S 425/009 . Cooling and color
- Y10S 425/01 . Core positioning
- Y10S 425/011 . Dental injection
- Y10S 425/012 . Destructible mold and core
- Y10S 425/013 . Electric heat
- Y10S 425/014 . Expansible and collapsible
- Y10S 425/015 . Explosive
- Y10S 425/016 . Extrude and mold
- Y10S 425/017 . Filament stretching apparatus
- Y10S 425/019 . Flexible fluid pressure
- Y10S 425/02 . Fluidized bed

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| 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 |

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| 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 |

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| 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 |

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| Y10S 425/227 | . Injection nozzle ; positioned flush with mold or cavity |
| Y10S 425/228 | . Injection plunger or ram: transfer molding type |
| Y10S 425/229 | . Injection mold runner valve |
| Y10S 425/23 | . Hay wafering or pelletizing means |
| Y10S 425/235 | . Calendar |
| Y10S 425/236 | . Attenuating |
| Y10S 425/237 | . Varying density foam |
| Y10S 425/238 | . Boat hull mold |
| Y10S 425/239 | . Modular mold |
| Y10S 425/24 | . Pre-fab mold |
| Y10S 425/241 | . Wall panel mold |
| Y10S 425/242 | . Pipe joint seal mold |
| Y10S 425/243 | . Extrusion or injection molding |
| Y10S 425/244 | . Die and matrix |
| Y10S 425/245 | . Heat |
| Y10S 425/246 | . Mold heating |
| Y10S 425/247 | . Multipart injection molds |
| Y10S 425/248 | . Uniting |
| Y10S 425/249 | . Character |
| Y10S 425/801 | . Button |
| Y10S 425/802 | . Cable tube or rod splicing |
| Y10S 425/803 | . Candle or crayon |
| Y10S 425/804 | . Capsule making |
| Y10S 425/805 | . Comb or brush |
| Y10S 425/806 | . Flash removal |
| Y10S 425/807 | . Lace tipping |

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

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

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

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

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

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

Guidance heading: Stock material or miscellaneous articles**Y10S 428/00 Stock material or miscellaneous articles**

- Y10S 428/90 . Magnetic feature
- Y10S 428/901 . Printed circuit
- Y10S 428/902 . High modulus filament or fiber
- Y10S 428/903 . Microfiber, less than 100 micron diameter
- Y10S 428/9033 . Recycled materials
- Y10S 428/904 . Artificial leather
- Y10S 428/9044 . Wall and shelf covering
- Y10S 428/905 . Odor releasing material
- Y10S 428/906 . Roll or coil
- Y10S 428/9066 . Embroidery
- Y10S 428/907 . Resistant against plant or animal attack
- Y10S 428/9077 . Layer or article rendered light-transmissive by pressure, e.g. blushed
- Y10S 428/908 . Impression retention layer, e.g. print matrix, sound record
- Y10S 428/9088 . Wear-resistant layer

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| 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 |

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

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

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

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| Y10S 429/90 | . | Fuel cell including means for power conditioning, e.g. Conversion to ac |
| Y10S 429/901 | . | Fuel cell including means for utilization of heat for unrelated application, e.g. heating a building |

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

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

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| 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 |

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| Y10S 430/119 | | Hydroxyl or carbonyl group containing as sole functional groups |
| Y10S 430/12 | .... | Nitrogen compound containing |
| Y10S 430/121 | ..... | Nitrogen in heterocyclic ring |
| Y10S 430/122 | .... | Sulfur compound containing |
| Y10S 430/123 | ..... | Sulfur in heterocyclic ring |
| Y10S 430/124 | .... | Carbonyl compound containing |
| Y10S 430/125 | ..... | Carbonyl in heterocyclic compound |
| Y10S 430/126 | .... | Halogen compound containing |
| Y10S 430/127 | ... | Spectral sensitizer containing |
| Y10S 430/128 | ... | Radiation-activated cross-linking agent containing |
| Y10S 430/129 | . | Aerial films or processes specifically adapted for aerial radiation imagery |
| Y10S 430/13 | . | Antibronze agent or process |
| Y10S 430/131 | . | Anticurl layer |
| Y10S 430/132 | . | Anti-ultraviolet fading |
| Y10S 430/133 | . | Binder-free emulsion |
| Y10S 430/134 | . | Brightener containing |
| Y10S 430/135 | . | Cine film |
| Y10S 430/136 | . | Coating process making radiation sensitive element |
| Y10S 430/137 | . | Cobalt complex containing |
| Y10S 430/138 | . | Corona discharge process |
| Y10S 430/139 | . | Defect coating |
| Y10S 430/14 | . | Dimensionally stable material |
| Y10S 430/141 | . | Direct positive material |
| Y10S 430/142 | . | Dye mordant |
| Y10S 430/143 | . | Electron beam |
| Y10S 430/144 | . | Hydrogen peroxide treatment |
| Y10S 430/145 | . | Infrared |
| Y10S 430/146 | . | Laser beam |
| Y10S 430/147 | . | Lenticular |
| Y10S 430/148 | . | Light sensitive titanium compound containing |

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

Guidance heading: Heating

Y10S 432/00 Heating

- Y10S 432/50 . Tobacco barns

Guidance heading: Chemistry: molecular biology and microbiology

Y10S 435/00 Chemistry: molecular biology and microbiology

- Y10S 435/80 . Elimination or reduction of contamination by undesired ferments, e.g. aseptic cultivation
- Y10S 435/801 . Anerobic cultivation

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| 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 |

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| Y10S 435/831 | ... | Azotobacter |
| Y10S 435/832 | ... | Bacillus |
| Y10S 435/833 | | Bacillus brevis |
| Y10S 435/834 | .... | Bacillus cereus |
| Y10S 435/835 | .... | Bacillus circulans |
| Y10S 435/836 | .... | Bacillus licheniformis |
| Y10S 435/837 | .... | Bacillus megaterium |
| Y10S 435/838 | .... | Bacillus polymyxa |
| Y10S 435/839 | .... | Bacillus subtilis |
| Y10S 435/84 | ... | Brevibacterium |
| Y10S 435/841 | ... | Chainia |
| Y10S 435/842 | ... | Clostridium |
| Y10S 435/843 | ... | Corynebacterium |
| Y10S 435/844 | .... | Corynebacterium diphtheriae |
| Y10S 435/845 | .... | Corynebacterium poinsettiae |
| Y10S 435/846 | .... | Corynebacterium pyogenes |
| Y10S 435/847 | ... | Erwinia |
| Y10S 435/848 | ... | Escherichia |
| Y10S 435/849 | .... | Escherichia coli |
| Y10S 435/85 | ... | Flavobacterium |
| Y10S 435/851 | ... | Haemophilus |
| Y10S 435/852 | ... | Klebsiella |
| Y10S 435/853 | ... | Lactobacillus |
| Y10S 435/854 | .... | Lactobacillus acidophilus |
| Y10S 435/855 | .... | Lactobacillus brevis |
| Y10S 435/856 | .... | Lactobacillus casei |
| Y10S 435/857 | .... | Lactobacillus plantarum |
| Y10S 435/858 | ... | Methylomonas |
| Y10S 435/859 | ... | Micrococcus |
| Y10S 435/86 | .... | Micrococcus flavus |
| Y10S 435/861 | .... | Micrococcus glutamicus |
| Y10S 435/862 | .... | Micrococcus lysodeikticus |
| Y10S 435/863 | ... | Mycobacterium |
| Y10S 435/864 | .... | Mycobacterium avium |
| Y10S 435/865 | .... | Mycobacterium fortuitum |
| Y10S 435/866 | .... | Mycobacterium smegmatis |
| Y10S 435/867 | ... | Micromonospora |
| Y10S 435/868 | .... | Micromonospora chalybeata |
| Y10S 435/869 | | Micromonospora purpurea |
| Y10S 435/87 | ... | Mycoplasma |
| Y10S 435/871 | ... | Neisseria |
| Y10S 435/872 | ... | Nocardia |

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| Y10S 435/873 | ... | Proteus |
| Y10S 435/874 | ... | Pseudomonas |
| Y10S 435/875 | | Pseudomonas aeruginosa |
| Y10S 435/876 | .... | Pseudomonas fluorescens |
| Y10S 435/877 | .... | Pseudomonas putida |
| Y10S 435/878 | ... | Rhizobium |
| Y10S 435/879 | ... | Salmonella |
| Y10S 435/88 | ... | Serratia |
| Y10S 435/881 | .... | Serratia marcescens |
| Y10S 435/882 | ... | Staphylococcus |
| Y10S 435/883 | .... | Staphylococcus aureus |
| Y10S 435/884 | .... | Staphylococcus epidermidis |
| Y10S 435/885 | ... | Streptococcus |
| Y10S 435/886 | ... | Streptomyces |
| Y10S 435/887 | .... | Streptomyces albus |
| Y10S 435/888 | .... | Streptomyces antibioticus |
| Y10S 435/889 | .... | Streptomyces aureofaciens |
| Y10S 435/89 | .... | Streptomyces aureus |
| Y10S 435/891 | .... | Streptomyces bikiniensis |
| Y10S 435/892 | .... | Streptomyces candidus |
| Y10S 435/893 | .... | Streptomyces chartreusis |
| Y10S 435/894 | .... | Streptomyces diastatochromogenes |
| Y10S 435/895 | .... | Streptomyces filipinensis |
| Y10S 435/896 | .... | Streptomyces fradiae |
| Y10S 435/897 | .... | Streptomyces griseus |
| Y10S 435/898 | .... | Streptomyces hygroscopicus |
| Y10S 435/899 | .... | Streptomyces lavendulae |
| Y10S 435/90 | .... | Streptomyces lincolnensis |
| Y10S 435/901 | .... | Streptomyces noursei |
| Y10S 435/902 | .... | Streptomyces olivaceus |
| Y10S 435/903 | .... | Streptomyces platensis |
| Y10S 435/904 | .... | Streptomyces rimosus |
| Y10S 435/905 | .... | Streptomyces sparogenes |
| Y10S 435/906 | .... | Streptomyces venezuelae |
| Y10S 435/907 | ... | Streptosporangium |
| Y10S 435/908 | ... | Streptovorticillium |
| Y10S 435/909 | ... | Vibrio |
| Y10S 435/91 | ... | Xanthomonas |
| Y10S 435/911 | .. | using fungi |
| Y10S 435/912 | ... | Absidia |
| Y10S 435/913 | ... | Aspergillus |
| Y10S 435/914 | | Aspergillus awamori |

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| Y10S 435/915 | | Aspergillus flavus |
| Y10S 435/916 | | Aspergillus fumigatus |
| Y10S 435/917 | | Aspergillus niger |
| Y10S 435/918 | .... | Aspergillus oryzae |
| Y10S 435/919 | .... | Aspergillus ustus |
| Y10S 435/92 | .... | Aspergillus wenti |
| Y10S 435/921 | ... | Candida |
| Y10S 435/922 | .... | Candida albicans |
| Y10S 435/923 | .... | Candida lipolytica |
| Y10S 435/924 | .... | Candida tropicalis |
| Y10S 435/925 | ... | Cephalosporium |
| Y10S 435/926 | .... | Cephalosporium acremonium |
| Y10S 435/927 | .... | Cephalosporium caerulens |
| Y10S 435/928 | .... | Cephalosporium crotocinigenium |
| Y10S 435/929 | ... | Fusarium |
| Y10S 435/93 | ... | Hansenula |
| Y10S 435/931 | ... | Mucor |
| Y10S 435/932 | ... | Paecilomyces |
| Y10S 435/933 | ... | Penicillium |
| Y10S 435/934 | .... | Penicillium brevi |
| Y10S 435/935 | .... | Penicillium chrysogenum |
| Y10S 435/936 | .... | Penicillium notatum |
| Y10S 435/937 | .... | Penicillium patulum |
| Y10S 435/938 | ... | Pichia |
| Y10S 435/939 | ... | Rhizopus |
| Y10S 435/94 | ... | Saccharomyces |
| Y10S 435/941 | .... | Saccharomyces carlsbergensis |
| Y10S 435/942 | .... | Saccharomyces cerevisiae |
| Y10S 435/943 | .... | Saccharomyces lactis |
| Y10S 435/944 | ... | Torulopsis |
| Y10S 435/945 | ... | Trichoderma |
| Y10S 435/946 | .. | using algae |
| Y10S 435/947 | .. | using protozoa |
| Y10S 435/948 | .. | using viruses or cell lines |
| Y10S 435/96 | . | Immunohistochemical assay |
| Y10S 435/961 | . | including a step of forming, releasing, or exposing the antigen or forming the hapten-immunogenic carrier complex or the antigen per se |
| Y10S 435/962 | . | Prevention or removal of interfering materials or reactants or other treatment to enhance results, e.g. determining or preventing nonspecific binding |
| Y10S 435/963 | . | Methods of stopping an enzyme reaction or stabilizing the test materials |

- Y10S 435/964 . including enzyme-ligand conjugate production, e.g. reducing rate of nonproductive linkage
- Y10S 435/965 . involving idiotype or anti-idiotype antibody
- Y10S 435/966 . involving an enzyme system with high turnover rate or complement magnified assay, e.g. multi-enzyme systems
- Y10S 435/967 . Standards, controls, materials, e.g. validation studies, buffer systems
- Y10S 435/968 . High energy substrates, e.g. fluorescent, chemiluminescent, radioactive
- Y10S 435/969 . Multiple layering of reactants
- Y10S 435/97 . Test strip or test slide
- Y10S 435/971 . Capture of complex after antigen-antibody reaction
- Y10S 435/972 . Modified antibody, e.g. hybrid, bifunctional
- Y10S 435/973 . Simultaneous determination of more than one analyte
- Y10S 435/974 . Aids related test
- Y10S 435/975 . Kit

Guidance heading: Chemistry: analytical and immunological testing

Y10S 436/00 Chemistry: analytical and immunological testing

- Y10S 436/80 . Fluorescent dyes, e.g. rhodamine
- Y10S 436/801 . Electron dense compounds, e.g. ferritin
- Y10S 436/802 . Protein-bacteriophage conjugates
- Y10S 436/803 . Stable free radicals, e.g. spin immunoassay
- Y10S 436/804 . Radioisotope, e.g. radioimmunoassay
- Y10S 436/805 . Optical property
- Y10S 436/806 . Electrical property or magnetic property
- Y10S 436/807 . Apparatus included in process claim, e.g. physical support structures
- Y10S 436/808 . . . Automated or kit
- Y10S 436/809 . . . Multifield plates or multicontainer arrays
- Y10S 436/81 . . . Tube, bottle, or dipstick
- Y10S 436/811 . Test for named disease, body condition or organ function

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

Y10S 436/91 . Iron-binding capacity of blood

Guidance heading: Semiconductor device manufacturing: process

Y10S 438/00 Semiconductor device manufacturing: process

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

- Y10S 438/927 . Electromigration resistant metallization
- Y10S 438/928 . Front and rear surface processing
- Y10S 438/929 . Eutectic semiconductor
- Y10S 438/93 . Ternary or quaternary semiconductor comprised of elements from three different groups, e.g. I-III-V
- Y10S 438/931 . Silicon carbide semiconductor
- Y10S 438/932 . Boron nitride semiconductor
- Y10S 438/933 . Germanium or silicon or Ge-Si on III-V
- Y10S 438/934 . Sheet resistance, i.e. dopant parameters
- Y10S 438/935 . Gas flow control
- Y10S 438/936 . Graded energy gap
- Y10S 438/937 . Hillock prevention
- Y10S 438/938 . Lattice strain control or utilization
- Y10S 438/939 . Langmuir-blodgett film utilization
- Y10S 438/94 . Laser ablative material removal
- Y10S 438/941 . Loading effect mitigation
- Y10S 438/942 . Masking
- Y10S 438/943 . . Movable
- Y10S 438/944 . . Shadow
- Y10S 438/945 . . Special, e.g. metal
- Y10S 438/946 . . Step and repeat
- Y10S 438/947 . . Subphotolithographic processing
- Y10S 438/948 . . Radiation resist
- Y10S 438/949 . . . Energy beam treating radiation resist on semiconductor
- Y10S 438/95 . . . Multilayer mask including nonradiation sensitive layer
- Y10S 438/951 . . . Lift-off
- Y10S 438/952 . . . Utilizing antireflective layer
- Y10S 438/953 . Making radiation resistant device
- Y10S 438/954 . Making oxide-nitride-oxide device
- Y10S 438/955 . Melt-back
- Y10S 438/956 . Making multiple wavelength emissive device

- Y10S 438/957 . Making metal-insulator-metal device
- Y10S 438/958 . Passivation layer
- Y10S 438/959 . Mechanical polishing of wafer
- Y10S 438/96 . Porous semiconductor
- Y10S 438/961 . Ion beam source and generation
- Y10S 438/962 . Quantum dots and lines
- Y10S 438/963 . Removing process residues from vertical substrate surfaces
- Y10S 438/964 . Roughened surface
- Y10S 438/965 . Shaped junction formation
- Y10S 438/966 . Selective oxidation of ion-amorphousized layer
- Y10S 438/967 . Semiconductor on specified insulator
- Y10S 438/968 . Semiconductor-metal-semiconductor
- Y10S 438/969 . Simultaneous formation of monocrystalline and polycrystalline regions
- Y10S 438/97 . Specified etch stop material
- Y10S 438/971 . Stoichiometric control of host substrate composition
- Y10S 438/972 . Stored charge erasure
- Y10S 438/973 . Substrate orientation
- Y10S 438/974 . Substrate surface preparation
- Y10S 438/975 . Substrate or mask aligning feature
- Y10S 438/976 . Temporary protective layer
- Y10S 438/977 . Thinning or removal of substrate
- Y10S 438/978 . forming tapered edges on substrate or adjacent layers
- Y10S 438/979 . Tunnel diodes
- Y10S 438/98 . Utilizing process equivalents or options
- Y10S 438/981 . Utilizing varying dielectric thickness
- Y10S 438/982 . Varying orientation of devices in array

Y10S 438/983 . Zener diodes

Guidance heading: Electrical connectors

Y10S 439/00 Electrical connectors

- Y10S 439/901 . Connector hood or shell
- Y10S 439/902 . . Angularly disposed contact and conductor
- Y10S 439/903 . . Special latch for insert
- Y10S 439/904 . . Multipart shell
- Y10S 439/905 . . . Axially joined sections
- Y10S 439/906 . . . Longitudinally divided
- Y10S 439/907 . Contact having three contact surfaces, including diverse surface
- Y10S 439/908 . Contact having two contact surfaces for electrical connection on opposite sides of insulative body
- Y10S 439/909 . Medical use or attached to human body
- Y10S 439/91 . Observation aide, e.g. transparent material, window in housing
- Y10S 439/911 . Safety, e.g. electrical disconnection required before opening housing
- Y10S 439/912 . with testing means
- Y10S 439/913 . Condition determining device, e.g. oxygen sensor, accelerometer, ionizer chamber, thermocouple
- Y10S 439/914 . for flashbulb or camera, including flash cube
- Y10S 439/915 . Auxiliary device for existing plug
- Y10S 439/916 . Antenna
- Y10S 439/917 . Alarm circuit, e.g. window affixed foil
- Y10S 439/918 . Multilamp vehicle panel
- Y10S 439/919 . for treatment by electrical current, e.g. magnet or battery charger, heater or welder
- Y10S 439/92 . for interconnecting rigid pipelike bodies, e.g. wave guides
- Y10S 439/921 . Transformer bushing type or high voltage underground connector
- Y10S 439/922 . Telephone switchboard protector
- Y10S 439/923 . Separation or disconnection aid

- Y10S 439/9241 . Contacts arranged for sequential connection
- Y10S 439/9242 . . with contact preventer to require joining in a given sequence
- Y10S 439/925 . Floor mounted, e.g. under carpet
- Y10S 439/926 . within machine casing or motor housing, connector within casing wall
- Y10S 439/927 . Conductive gasket
- Y10S 439/928 . Modular electrically interengaging parts, e.g. stove with replaceable heating elements formed on coupling parts
- Y10S 439/9281 . . Plug-in carrier or adapter for removable component, e.g. "hard drive" for computer
- Y10S 439/929 . Connecting base plate or shelf type holder
- Y10S 439/93 . Coupling part wherein contact is comprised of a wire or brush
- Y10S 439/931 . Conductive coating
- Y10S 439/932 . Heat shrink material
- Y10S 439/933 . Special insulation
- Y10S 439/934 . . High voltage barrier, e.g. surface arcing or corona preventing insulator
- Y10S 439/935 . . Glass or ceramic contact pin holder
- Y10S 439/936 . . Potting material or coating, e.g. grease, insulative coating, sealant or, adhesive
- Y10S 439/937 . . Plural insulators in strip form
- Y10S 439/9381 . Cathodic protection of structure, e.g. ship hull
- Y10S 439/939 . with grounding to metal mounting panel
- Y10S 439/94 . including provision for mechanical lifting or manipulation, e.g. for vacuum lifting
- Y10S 439/941 . Crosstalk suppression
- Y10S 439/942 . Comblike retainer for conductor
- Y10S 439/943 . including provision for pressing contact into pcb hole
- Y10S 439/944 . Coaxial connector having circuit-interrupting provision effected by mating or having "dead" contact activated after mating
- Y10S 439/945 . Adapter for pcb or cartridge
- Y10S 439/946 . Memory card cartridge
- Y10S 439/947 . PCB mounted connector with ground terminal
- Y10S 439/948 . Contact or connector with insertion depth limiter
- Y10S 439/949 . Junction box with busbar for plug-socket type interconnection with receptacle

- Y10S 439/95 . Electrical connector adapted to transmit electricity to mating connector without physical contact, e.g. by induction, magnetism, or electrostatic field
- Y10S 439/951 . PCB having detailed leading edge
- Y10S 439/952 . Jumper for use with specific apparatus
- Y10S 439/953 . with latch rod to be retainingly received by opening of mating connector
- Y10S 439/954 . Special orientation of electrical connector
- Y10S 439/955 . including electronic identifier or coding means
- Y10S 439/956 . with means to allow selection of diverse voltage or polarity
- Y10S 439/957 . Auxiliary contact part for circuit adaptation

Guidance heading: Amusement devices: toys

Y10S 446/00 Amusement devices: toys

- Y10S 446/901 . Detachably adhesive

Guidance heading: Abrading

Y10S 451/00 Abrading

- Y10S 451/90 . Gear abrader
- Y10S 451/901 . Super finish
- Y10S 451/902 . Brake abrading
- Y10S 451/903 . Egg cleaning
- Y10S 451/904 . Flexible abrasive storage reel
- Y10S 451/905 . Metal lap
- Y10S 451/906 . Machine element or unit
- Y10S 451/907 . Strip feeding
- Y10S 451/908 . Electrical abrading
- Y10S 451/909 . Wire polishing
- Y10S 451/91 . Ultrasonic

- Y10S 451/911 . Tool mounting point
- Y10S 451/912 . Shoe abrading
- Y10S 451/913 . Contour abrading
- Y10S 451/914 . Supporting, positioning, or feeding work
- Y10S 451/915 . Abrading wheel speed control
- Y10S 451/916 . Abrading of brush bristle
- Y10S 451/917 . Abrading of scalloped cutting edge, e.g. bread knife sharpening
- Y10S 451/918 . Adjustable work support, e.g. by sine bar
- Y10S 451/919 . Wankel
- Y10S 451/92 . Tire "rounding"
- Y10S 451/921 . Pad for lens shaping tool

Guidance heading: Ventilation

Y10S 454/00 Ventilation

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

Guidance heading: Crop threshing or separating

Y10S 460/00 Crop threshing or separating

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

Guidance heading: Books, strips, and leaves for manifolding

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

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

Guidance heading: Rotary shafts, gudgeons, housings, and flexible couplings for rotary shafts

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

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

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

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

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

Y10S 470/903 . Yieldable spindle

Y10S 470/904 . Turret

Y10S 470/905 . Wire coil insert

Y10S 470/906 . Nylon plug lock

Y10S 470/907 . Clinch nut feeder

Guidance heading: Endless belt power transmission systems or components

Y10S 474/00 Endless belt power transmission systems or components

Y10S 474/90 . Phase variator

Y10S 474/901 . Pulley or guide roll for track of endless track vehicle

Y10S 474/902 . Particular connection between rim and hub

Y10S 474/903 . Particular connection between hub and shaft

Guidance heading: Planetary gear transmission systems or components

Y10S 475/00 Planetary gear transmission systems or components

Y10S 475/90 . Brake for input or output shaft

Y10S 475/901 . Particular material

Y10S 475/902 . . Nonmetallic

Y10S 475/903 . Stacked planetary gearing

Y10S 475/904 . Particular mathematical equation

Guidance heading: Friction gear transmission systems or components

Y10S 476/00 Friction gear transmission systems or components

Y10S 476/90 . Overload release

Guidance heading: Interrelated power delivery controls, including engine control

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

Y10S 477/90 . Control signal is vehicle weight

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

Guidance heading: Exercise devices

Y10S 482/00 Exercise devices

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

Guidance heading: Tool changing

Y10S 483/00 Tool changing

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

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

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

- Y10S 493/901 . Rigid container
- Y10S 493/902 .. Dished
- Y10S 493/903 .. Insulated thermally
- Y10S 493/904 .. Cushioned
- Y10S 493/905 .. having window
- Y10S 493/906 .. having multilayer wall
- Y10S 493/907 ... Lined
- Y10S 493/908 ... Covered
- Y10S 493/909 .. having handle or suspension means
- Y10S 493/91 .. Cigarette container
- Y10S 493/911 ... Flip-top
- Y10S 493/912 .. having internal partition
- Y10S 493/913 ... Egg container
- Y10S 493/914 .. Eyeglass container
- Y10S 493/915 .. Match container
- Y10S 493/916 . Pliable container
- Y10S 493/917 .. Envelope
- Y10S 493/918 ... Expandable
- Y10S 493/919 ... having window
- Y10S 493/92 ... having plural compartments
- Y10S 493/921 ... having integrally formed insert
- Y10S 493/922 ... having liner
- Y10S 493/923 ... with opening means, e.g. tear strip, valve
- Y10S 493/924 .. Requiring external support during filling
- Y10S 493/925 .. having mesh or window opening
- Y10S 493/926 .. having handle or suspension means
- Y10S 493/927 .. Reclosable
- Y10S 493/928 ... with draw string
- Y10S 493/929 ... with valve
- Y10S 493/93 .. having tear strip
- Y10S 493/931 .. having plural compartments
- Y10S 493/932 .. having plural openings
- Y10S 493/933 .. having multilayer wall
- Y10S 493/934 .. Parallelepiped or tetrahedron shape
- Y10S 493/935 .. Covering bag, e.g. garment protector

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| Y10S 493/936 | . . Square bottom |
| Y10S 493/937 | . Textile |
| Y10S 493/938 | . . Apparel |
| Y10S 493/939 | . Apparel support |
| Y10S 493/94 | . Bellows |
| Y10S 493/941 | . Filter |
| Y10S 493/942 | . Cleaning implement, e.g. brush, dust mop |
| Y10S 493/943 | . Candy stick |
| Y10S 493/944 | . Aperture card or display device with window |
| Y10S 493/945 | . Coin holder |
| Y10S 493/946 | . Phonograph record jacket |
| Y10S 493/947 | . File folder |
| Y10S 493/948 | . Igniting fuse |
| Y10S 493/949 | . Electrical insulation |
| Y10S 493/95 | . Lamp shade |
| Y10S 493/951 | . Seedling container |
| Y10S 493/952 | . Photo corner mount |
| Y10S 493/953 | . Stencil or outline guide |
| Y10S 493/954 | . Spool |
| Y10S 493/955 | . Decoration article |
| Y10S 493/956 | . . having appearance of living plant, e.g. christmas tree |
| Y10S 493/957 | . . Festoon |
| Y10S 493/958 | . . Garland |
| Y10S 493/959 | . Toy or amusement article |
| Y10S 493/96 | . Toilet article |
| Y10S 493/961 | . Tag, marker, or label |
| Y10S 493/962 | . Closure, e.g. tie string, valve |
| Y10S 493/963 | . Opener, e.g. tear strip |

- Y10S 493/964 . Pallet
- Y10S 493/965 .. Flat or "boat", e.g. for candy, crackers
- Y10S 493/966 . Honeycomb structure
- Y10S 493/967 . Dunnage, wadding, stuffing, or filling excelsior
- Y10S 493/968 . Structural shape

Guidance heading: Imperforate bowl: centrifugal separators

Y10S 494/00 Imperforate bowl: centrifugal separators

- Y10S 494/90 . involving mixture containing one or more gases
- Y10S 494/901 . involving mixture containing oil
- Y10S 494/902 . involving the use of mercury

Guidance heading: Compositions: ceramic

Y10S 501/00 Compositions: ceramic

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

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

Y10S 502/00 Catalyst, solid sorbent, or support therefor: product or process of making

- Y10S 502/50 . Stabilized
- Y10S 502/501 .. for multi-regenerability
- Y10S 502/502 .. Cystallinity
- Y10S 502/503 .. Crush strength
- Y10S 502/504 .. Abrasion resistance
- Y10S 502/506 . Method of making inorganic composition utilizing organic compound, except formic, acetic, or oxalic acid or salt thereof
- Y10S 502/507 .. Synthetic resin, natural resin, polysaccharide, or polypeptide

- Y10S 502/508 . . Sulfur containing organic compound
- Y10S 502/509 . . Nitrogen containing organic compound
- Y10S 502/51 . . . Also containing hydroxyl bonded to carbon, e.g. carboxylic acid
- Y10S 502/511 . . . Two or more nitrogen atoms bonded to different carbon atoms
- Y10S 502/512 . . Carboxylic acid or salt thereof other than formic, acetic, or oxalic acid
- Y10S 502/513 . . Alcohol, phenol, or ether or metallate thereof

- Y10S 502/514 . Process applicable either to preparing or to regenerating or to rehabilitating catalyst or sorbent

- Y10S 502/515 . Specific contaminant removal
- Y10S 502/516 . . Metal contaminant removal
- Y10S 502/517 . . Sulfur or sulfur compound removal
- Y10S 502/518 . . Carbonaceous contaminant

- Y10S 502/519 . Reagent grade, e.g. ultra pure

- Y10S 502/52 . Suppressed side reactions

- Y10S 502/521 . Metal contaminant passivation

- Y10S 502/522 . Radiant or wave energy activated

- Y10S 502/523 . Miscellaneous specific techniques of general applicability

- Y10S 502/524 . Spinel

- Y10S 502/525 . Perovskite

- Y10S 502/526 . Sorbent for fluid storage, other than an alloy for hydrogen storage

- Y10S 502/52711 . Monolith of peculiar structure or physical form, with specified heat exchange capability

- Y10S 502/52712 . Plural layers on a support, each layer having a distinct function
- Y10S 502/52713 . . More than two overlapping layers

- Y10S 502/52714 . Specified support particles of peculiar structure or physical form, e.g. whiskers, fiber pieces
- Y10S 502/52715 . . Layered deposition on support particle, i.e. on a carrier particle
- Y10S 502/52716 . . Specified shape of support particle, e.g. hollow-carrier particle
- Y10S 502/52717 . . Specified cross-section shape or area of elongated support particles, e.g. tape, with area of cross section stated

- Y10S 502/52718 . Monolith with specified gas flow patterns, e.g. turbulent flow monolith

- Y10S 502/52719 . Monolith with specified shape or dimension of cell opening, e.g. honeycomb, rings
- Y10S 502/5272 . . Cell opening shape and dimensions are determined by the intersection of the woof and the warp of a woven structure, e.g. of a fabric or gauze
- Y10S 502/52721 . . Cell openings are quadrilateral or triangular, e.g. pie shaped

- Y10S 502/52722 .. Cell openings are spiral or corrugated
- Y10S 502/52723 . Specified external or internal shape or configuration of catalyst reactor or of sorbent converter
- Y10S 502/52724 . Peculiar structure or physical form, e.g. foam, sponge, foil, sack, bag, fiber in a matrix, monolith, microstructure, microcracking, or microaggregates

Guidance heading: Superconductor technology: apparatus, material, process

Y10S 505/00 Superconductor technology: apparatus, material, process

- Y10S 505/70 . High TC, above 30 k, superconducting device, article, or structured stock
- Y10S 505/701 .. Coated or thin film device, i.e. active or passive
- Y10S 505/702 ... Josephson junction present
- Y10S 505/703 ... Microelectronic device with superconducting conduction line
- Y10S 505/704 .. Wire, fiber, or cable
- Y10S 505/705 ... Magnetic coil
- Y10S 505/706 .. Contact pads or leads bonded to superconductor
- Y10S 505/725 . Process of making or treating high tc, above 30 k, superconducting shaped material, article, or device
- Y10S 505/726 .. Measuring or testing of superconducting property
- Y10S 505/727 .. using magnetic field
- Y10S 505/728 .. Etching
- Y10S 505/729 .. Growing single crystal, e.g. epitaxy, bulk
- Y10S 505/73 .. Vacuum treating or coating
- Y10S 505/731 ... Sputter coating
- Y10S 505/732 ... Evaporative coating with superconducting material
- Y10S 505/733 .. Rapid solidification, e.g. quenching, gas-atomizing, melt-spinning, roller-quenching
- Y10S 505/734 .. From organometallic precursors, e.g. acetylacetonates
- Y10S 505/735 ... by sol-gel process
- Y10S 505/736 .. From free metal precursors
- Y10S 505/737 .. From inorganic salt precursors, e.g. nitrates
- Y10S 505/738 ... by precipitating
- Y10S 505/739 .. Molding, coating, shaping, or casting of superconducting material
- Y10S 505/74 ... To form wire or fiber
- Y10S 505/741 ... Coating or casting onto a substrate, e.g. screen printing, tape casting
- Y10S 505/742 .. Annealing
- Y10S 505/775 . High tc, above 30 k, superconducting material
- Y10S 505/776 .. Containing transition metal oxide with rare earth or alkaline earth
- Y10S 505/777 ... Lanthanum, e.g. La₂CuO₄
- Y10S 505/778 Alkaline earth, i.e. Ca, Sr, Ba, Ra

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| Y10S 505/779 | ... | Other rare earth, i.e. Sc,Y,Ce,Pr,Nd,Pm,Sm,Eu,Gd,Tb,Dy,Ho,Er,Tm,Yb,Lu and alkaline earth i.e. Ca,Sr,Ba,Ra |
| Y10S 505/78 | .... | Yttrium and barium-, e.g. YBa ₂ Cu ₃ 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. BiCaSrCuO |
| Y10S 505/783 | ... | Thallium-, e.g. Tl ₂ CaBaCu ₃ O ₈ |
| Y10S 505/784 | .. | Bismuth-, e.g. BaKBiO |
| Y10S 505/785 | .. | Composition containing superconducting material and diverse nonsuperconducting material |
| Y10S 505/786 | . | Manufacturing system or apparatus for making high temperature, i.e. tc greater than 30 k superconductor product, device, article or stock, i.e. which system or apparatus does not itself contain a superconducting component |
| Y10S 505/787 | . | ##### |
| Y10S 505/80 | . | Material per se process of making same |
| Y10S 505/801 | .. | Composition |
| Y10S 505/802 | ... | Organic |
| Y10S 505/803 | ... | Magnetic |
| Y10S 505/804 | ... | Amorphous alloy |
| Y10S 505/805 | ... | Alloy or metallic |
| Y10S 505/806 | .... | Niobium base, Nb |
| Y10S 505/807 | ... | Powder |
| Y10S 505/808 | ... | Liquid crystal |
| Y10S 505/809 | ... | Ceramic |
| Y10S 505/81 | .. | Compound |
| Y10S 505/811 | ... | Organic |
| Y10S 505/812 | .. | Stock |
| Y10S 505/813 | ... | Wire, tape, or film |
| Y10S 505/814 | ... | Treated metal |
| Y10S 505/815 | .. | Process of making per se |
| Y10S 505/816 | ... | Sputtering, including coating, forming, or etching |
| Y10S 505/817 | .... | forming josephson element |
| Y10S 505/818 | ... | Coating |
| Y10S 505/819 | .... | Vapor deposition |
| Y10S 505/82 | .... | And etching |
| Y10S 505/821 | .... | Wire |
| Y10S 505/822 | ... | Shaping |
| Y10S 505/823 | ... | Powder metallurgy |
| Y10S 505/824 | ... | Battery, thermo or photo-electric |
| Y10S 505/825 | . | Apparatus per se, device per se, or process of making or operating same |
| Y10S 505/826 | .. | Coating |

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|--------------|-------|---|
| 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 |

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| 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 |

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| Y10S 505/91 | .. | Pump |
| Y10S 505/911 | .. | Fluid reaction surface, i.e. impeller |
| Y10S 505/912 | .. | Metal founding |
| Y10S 505/913 | ... | Casting process |
| Y10S 505/914 | .... | using magnetic or electric field |
| Y10S 505/915 | .... | Making composite product |
| Y10S 505/916 | .... | Continuous casting |
| Y10S 505/917 | .. | Mechanically manufacturing superconductor |
| Y10S 505/918 | ... | with metallurgical heat treating |
| Y10S 505/919 | .... | Reactive formation of superconducting intermetallic compound |
| Y10S 505/92 | ..... | Utilizing diffusion barrier |
| Y10S 505/921 | ..... | Metal working prior to treating |
| Y10S 505/922 | ... | Making josephson junction device |
| Y10S 505/923 | ... | Making device having semiconductive component, e.g. integrated circuit |
| Y10S 505/924 | ... | Making superconductive magnet or coil |
| Y10S 505/925 | ... | Making superconductive joint |
| Y10S 505/926 | ... | Mechanically joining superconductive members |
| Y10S 505/927 | ... | Metallurgically bonding superconductive members |
| Y10S 505/928 | ... | Metal deforming |
| Y10S 505/929 | .... | by extruding |
| Y10S 505/93 | .... | by drawing |
| Y10S 505/931 | .. | Classifying, separating, and assorting solids using magnetism |
| Y10S 505/932 | ... | Separating diverse particulates |
| Y10S 505/933 | .... | in liquid slurry |

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

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

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| Y10S 507/901 | . | Organically modified inorganic solid |
| Y10S 507/902 | . | Controlled release agent |
| Y10S 507/903 | . | Crosslinked resin or polymer |
| Y10S 507/904 | . | Process of making fluids or additives therefor |
| Y10S 507/905 | . | Nontoxic composition |
| Y10S 507/906 | . | Solid inorganic additive in defined physical form |
| Y10S 507/907 | . | Indicating means, e.g. dye, fluorescing agent |
| Y10S 507/91 | . | Earth boring fluid devoid of discrete aqueous phase |
| Y10S 507/92 | . | Biocidal |

- Y10S 507/921 . Specified breaker component for emulsion or gel
- Y10S 507/922 . Fracture fluid
- Y10S 507/923 . . Fracture acidizing
- Y10S 507/924 . . with specified propping feature
- Y10S 507/925 . Completion or workover fluid
- Y10S 507/926 . Packer fluid
- Y10S 507/927 . Well cleaning fluid
- Y10S 507/928 . . Spacing slug or preflush fluid
- Y10S 507/929 . . Cleaning organic contaminant
- Y10S 507/93 . . . Organic contaminant is asphaltic
- Y10S 507/931 . . . Organic contaminant is paraffinic
- Y10S 507/932 . . Cleaning sulfur deposits
- Y10S 507/933 . Acidizing or formation destroying
- Y10S 507/934 . . with inhibitor
- Y10S 507/935 . Enhanced oil recovery
- Y10S 507/936 . . Flooding the formation
- Y10S 507/937 . . . with emulsion
- Y10S 507/938 with microemulsion
- Y10S 507/939 . Corrosion inhibitor
- Y10S 507/94 . Freeing stuck object from wellbore

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

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

- Y10S 514/01 . Ru 486, i.e. Ru 38486, Ru 486-6, mifepristone, mifestone, mifegyne, [11b-[4-[n, n-dimethylamino] phenyl]-17a-[prop-1-ynyl]- 4,9-estradiene-17b-ol-3-one, [11b,17b]11-[4-[dimethylamino]-phenyl]-17-hydroxy-17-[1-propynyl] estra-4,9-dien-3-one]
- Y10S 514/80 . LHRH like
- Y10S 514/801 . Collagen, gelatin or derivatives thereof
- Y10S 514/802 . Fibrinopeptides, blood-coagulation factors or derivatives
- Y10S 514/803 . Kinin or derivatives
- Y10S 514/804 . Phecmycin series or derivatives

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| Y10S 514/805 | . Adrenocorticotrophic hormone or derivatives |
| Y10S 514/806 | . Somatostatin or derivatives |
| Y10S 514/807 | . Oxytoxin, vasopressin or derivatives |
| Y10S 514/808 | . Calcitonin or derivatives |
| Y10S 514/809 | . Enkephalin or endorphin or derivatives |
| Y10S 514/81 | . Addiction |
| Y10S 514/811 | . . Alcohol |
| Y10S 514/812 | . . Narcotic |
| Y10S 514/813 | . . Tobacco |
| Y10S 514/814 | . Anemia |
| Y10S 514/815 | . . Sickle cell |
| Y10S 514/816 | . Anesthetic, general |
| Y10S 514/817 | . Anesthetic, topical |
| Y10S 514/818 | . Anesthetic, local |
| Y10S 514/819 | . Antacid, oral |
| Y10S 514/82 | . . with antifatulent |
| Y10S 514/821 | . Antiarrhythmic |
| Y10S 514/822 | . Anticoagulation |
| Y10S 514/823 | . Antidote |
| Y10S 514/824 | . Arteriosclerosis |
| Y10S 514/825 | . Arthritis |
| Y10S 514/826 | . Asthma |
| Y10S 514/827 | . Astringent, nonfacial |
| Y10S 514/828 | . . Topical for the skin |
| Y10S 514/829 | . Bite or sting |
| Y10S 514/83 | . . insect |
| Y10S 514/831 | . . Nonpoisonous animal |
| Y10S 514/832 | . Blood substitute |
| Y10S 514/833 | . Blood plasma extender |

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| 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 |

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| 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 |

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| 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 |

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| Y10S 514/926 | . . Duodenal |
| Y10S 514/927 | . . Peptic |
| Y10S 514/928 | . . Topical |
| Y10S 514/929 | . Vasodilator |
| Y10S 514/93 | . Vasoconstrictor, nondecongestant |
| Y10S 514/931 | . Venereal disease |
| Y10S 514/932 | . . Gonorrhea |
| Y10S 514/933 | . . Syphilis |
| Y10S 514/934 | . . Virus |
| Y10S 514/935 | . Uterine motility |
| Y10S 514/936 | . Dmsso containing |
| Y10S 514/937 | . Dispersion or emulsion |
| Y10S 514/938 | . . Oil-water type |
| Y10S 514/939 | . . . Mineral oil-water type |
| Y10S 514/94 | Quick break type |
| Y10S 514/941 | Polyoxyalkylated compound containing |
| Y10S 514/942 | Organic sulfonate, sulfate or sulfite containing |
| Y10S 514/943 | Higher fatty acid or derivative containing |
| Y10S 514/944 | . Gel |
| Y10S 514/945 | . Foam |
| Y10S 514/946 | . Penetrant or absorbent, increases or enhances penetration into subject treated |
| Y10S 514/947 | . . Topical application |
| Y10S 514/948 | . Solid candy type |
| Y10S 514/949 | . Naturally derived clay, e.g. bentonite |
| Y10S 514/95 | . Macromolecular, other than synthetic resins |
| Y10S 514/951 | . Powders, granules or particles of specified mesh or particle size |
| Y10S 514/952 | . . Wettable |
| Y10S 514/953 | . Shaped forms adapted for noningestible use other than suppository type, e.g. films, inserts |
| Y10S 514/954 | . . Ocular |
| Y10S 514/955 | . . . Biodegradable type |
| Y10S 514/956 | . . Aural or otic, i.e. ear |
| Y10S 514/957 | . Vapor emitting composition |

- Y10S 514/958 . for smoking or inhaling
- Y10S 514/959 . Breathing gases
- Y10S 514/96 . Significant, tablet formulation, e.g. designated excipient, disintegrant, glydent or lubricant
- Y10S 514/961 . . Binder therefor
- Y10S 514/962 . Capsule, e.g. gelatin
- Y10S 514/963 . . Microcapsule-sustained or differential release
- Y10S 514/964 . Sustained or differential release type
- Y10S 514/965 . . Discrete particles in supporting matrix
- Y10S 514/966 . Rectal
- Y10S 514/967 . Vaginal
- Y10S 514/968 . Urethral
- Y10S 514/969 . Ointment or salve base
- Y10S 514/97 . Containing designated ingredient to stabilize an active ingredient
- Y10S 514/971 . . Crystallization point depressant or cold stabilizer containing
- Y10S 514/972 . . Ultraviolet light stabilizer containing
- Y10S 514/973 . . Sulfur compound additive as stabilizer, e.g. sulfites
- Y10S 514/974 . Containing designated ingredient to reduce noxious effects of active ingredient, e.g. taste masking, odor reducing
- Y10S 514/975 . Characterized by the designated surfactant used

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

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

- Y10S 516/01 . Wetting, emulsifying, dispersing, or stabilizing agents
- Y10S 516/02 . . Organic and inorganic agents containing, except water
- Y10S 516/03 . . Organic sulfoxy compound containing
- Y10S 516/04 . . . Protein or carboxylic compound containing
- Y10S 516/05 . . . Organic amine, amide, or n-base containing
- Y10S 516/06 . . Protein or carboxylic compound containing
- Y10S 516/07 . . Organic amine, amide, or n-base containing
- Y10S 516/90 . Liquid crystal material of, or for, colloid system, e.g. g phase
- Y10S 516/901 . Substantially pure carbon, e.g. graphite, lamp black, carbon black, fullerenes

- Y10S 516/902 . Gelled emulsion
- Y10S 516/903 . Two or more gellants
- Y10S 516/904 . Fermentation foam breaking or inhibiting
- Y10S 516/905 . Agent composition per se for colloid system making or stabilizing, e.g. foaming, emulsifying, dispersing, or gelling
- Y10S 516/906 .. The agent contains organic compound containing silicon
- Y10S 516/907 .. The agent contains organic compound containing phosphorus, e.g. lecithin
- Y10S 516/908 ... The compound contains repeating -OCnH2n-, i.e. repeating unsubstituted oxyalkylene
- Y10S 516/909 .. The agent contains organic compound containing sulfoxy*
- Y10S 516/91 ... The compound contains nitrogen, except if present solely as NH4+
- Y10S 516/911 The compound contains -S[O2]NHH where substitution may be made for the hydrogen
- Y10S 516/912 The compound contains -C[=O]NHH where substitution may be made for the hydrogen
- Y10S 516/913 ... The compound contains -C[=O]OH or salt thereof
- Y10S 516/914 .. The agent contains organic compound containing nitrogen, except if present solely as NH4+
- Y10S 516/915 ... The compound contains -C[=O]NHH where substitution may be made for the hydrogen
- Y10S 516/916 ... The compound contains repeating -OCnH2n-, i.e. repeating unsubstituted oxyalkylene
- Y10S 516/917 .. The agent contains organic compound containing oxygen
- Y10S 516/918 ... The compound contains carboxylic acid ester group
- Y10S 516/919 ... The compound contains -C[=O]OH or salt thereof
- Y10S 516/92 ... The compound contains repeating unsubstituted oxyalkylene
- Y10S 516/921 . Colloid systems having specified high purity, e.g. ultra-pure silica
- Y10S 516/922 . Colloid systems having specified particle size, range, or distribution, e.g. bimodal particle distribution
- Y10S 516/923 .. Emulsion
- Y10S 516/924 . Significant dispersive or manipulative operation or step in making or stabilizing colloid system
- Y10S 516/925 .. Phase inversion
- Y10S 516/926 .. Phase change, e.g. melting
- Y10S 516/927 .. in situ formation of a colloid system making or stabilizing agent which chemical reaction
- Y10S 516/928 .. Mixing combined with non-mixing operation or step, successively or simultaneously, e.g. heating, cooling, ph change, ageing, milling
- Y10S 516/929 .. Specified combination of agitation steps, e.g. mixing to make subcombination composition followed by homogenization
- Y10S 516/93 ... Low shear followed by high shear

Y10S 516/931 . . . High shear followed by low shear

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

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

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

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

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

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

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

- Y10S 524/90 . Antigen-antibody
- Y10S 524/901 . Electrodepositable compositions
- Y10S 524/902 . . Electrostatic spray
- Y10S 524/903 . Aerosol compositions
- Y10S 524/904 . Powder coating compositions
- Y10S 524/905 . Etch masking compositions
- Y10S 524/906 . Multipackage compositions
- Y10S 524/907 . Additive of specified shape other than fiber, particle, or powder
- Y10S 524/908 . Composition having specified shape, e.g. rod, stick, or ball, and other than sheet, film,

or fiber

- Y10S 524/909 . Reverse osmosis membrane compositions, e.g. desalinization
- Y10S 524/91 . Antistatic compositions
- Y10S 524/911 . . Composition to apply to a substrate to be destaticized
- Y10S 524/912 . . Contains metal, boron, phosphorus, or silicon
- Y10S 524/913 . . Contains nitrogen nonreactant material
- Y10S 524/914 . Floor covering compositions
- Y10S 524/915 . Carpet backing adhesives
- Y10S 524/916 . Hydrogel compositions
- Y10S 524/917 . Oil spill recovery compositions
- Y10S 524/918 . Wood patching composition
- Y10S 524/919 . Metal patching composition, e.g. body solder
- Y10S 524/92 . Coilable pipe compositions
- Y10S 524/921 . Elastic memory or heat shrinkable compositions
- Y10S 524/922 . Flocculating, clarifying, or fining compositions
- Y10S 524/923 . Treating or preparing a nonaqueous dispersion or emulsion of a solid polymer or specified intermediate condensation product
- Y10S 524/924 . Treating or preparing a nonaqueous solution of a solid polymer or specified intermediate condensation product
- Y10S 524/925 . Natural rubber compositions having nonreactive materials, i.e. NRM, other than: carbon, silicon dioxide, glass titanium dioxide, water, hydrocarbon or halohydrocarbon
- Y10S 524/926 . . with water as NRM, exemplified
- Y10S 524/929 . . Natural rubber broadly disclosed, nonclaimed

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

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

- Y10S 525/901 . Radial block
- Y10S 525/902 . Core-shell
- Y10S 525/903 . Interpenetrating network
- Y10S 525/904 . Activation of preformed polymer in absence or monomer, for subsequent polymerization thereon, e.g. trapped radicals

- Y10S 525/905 . Polyphenylene oxide
- Y10S 525/906 . Polysulfone
- Y10S 525/907 . Polycarbodiimide
- Y10S 525/908 . Polymer containing a hydantoin group
- Y10S 525/909 . Polymer having a heterocyclic ring with at least three different elements within the ring
- Y10S 525/91 . Polymer from ethylenic monomers only, having terminal unsaturation
- Y10S 525/911 . Polymer from ethylenic monomers only, having terminal functional group other than unsaturation
- Y10S 525/912 . Polymer from nonethylenic monomers only, having pendant unsaturated group
- Y10S 525/913 . Polymer from monomers only having pendant glycidyl group
- Y10S 525/914 . Polymer from conjugated diene hydrocarbon or halohydrocarbons having more than 50 per cent 1,2-microstructure
- Y10S 525/915 . Polymer from monoethylenic cyclic hydrocarbon
- Y10S 525/916 . Polymer from ethylenic monomers only, having cationic group
- Y10S 525/917 . Polymer from at least one nonethylenic monomer having cationic group
- Y10S 525/918 . Polymer prepared by cationic polymerization
- Y10S 525/919 . Ionomer resins, carboxylate salt-containing copolymers
- Y10S 525/92 . Polyurethane having terminal ethylenic unsaturation
- Y10S 525/921 . Polyester having terminal ethylenic unsaturation other than polyesterurethanes
- Y10S 525/922 . Polyepoxide polymer having been reacted to yield terminal ethylenic unsaturation
- Y10S 525/923 . Aminoplast having terminal ethylenic unsaturation
- Y10S 525/924 . Phenoplast having terminal ethylenic unsaturation
- Y10S 525/925 . Polymer from at least one nonethylenic monomer having terminal ethylenic unsaturation other than polyurethanes, polyesters, polyepoxides, aminoplasts, and phenoplasts
- Y10S 525/926 . Polyamide containing a plurality of oxyalkylene groups
- Y10S 525/927 . Polyamide admixed with oxyalkylene-containing polymer
- Y10S 525/928 . Polyimide or polyamide-acid formed by condensation of a polyamine with a polycarboxylic acid having at least three carboxyl groups or derivatives thereof

- Y10S 525/929 . Polyimide formed by addition of polyamine to an unsaturated bis-imide
- Y10S 525/93 . Reaction product of a polyhydric phenol and epichlorohydrin or diepoxide, having a molecular weight of over 5,000, e.g. phenoxy resins
- Y10S 525/931 . Blend of stated incompatibility
- Y10S 525/932 . Blend of matched optical properties
- Y10S 525/933 . Blend of limited gas permeability
- Y10S 525/934 . Powdered coating composition
- Y10S 525/935 . Matrix admixed with synthetic fiber
- Y10S 525/936 . Encapsulated chemical agent
- Y10S 525/937 . Utility as body contact e.g. implant, contact lens or I.U.D.
- Y10S 525/938 . Polymer degradation
- Y10S 525/939 . Multipackage system
- Y10S 525/94 . Hydrogenation of a polymer
- Y10S 525/941 . Polymer mixture containing block copolymer is mixed or reacted with chemical treating agent
- Y10S 525/942 . Polymer derived from nitrile, conjugated diene and aromatic co-monomers

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

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

- Y10S 526/901 . Monomer polymerized in vapor state in presence of transition metal containing catalyst
- Y10S 526/902 . Monomer polymerized in bulk in presence of transition metal containing catalyst
- Y10S 526/903 . Monomer polymerized in presence of transition metal containing catalyst and hydrocarbon additive affecting polymer properties of catalyst activity
- Y10S 526/904 . Monomer polymerized in presence of transition metal containing catalyst at least part of which is supported on a polymer, e.g. prepolymerized catalysts
- Y10S 526/905 . Polymerization in presence of transition metal containing catalyst in presence of hydrogen
- Y10S 526/906 . Comminution of transition metal containing catalyst
- Y10S 526/907 . Specified means of reacting components of transition metal catalyst

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| Y10S 526/908 | . Containing catalyst of specified particle size |
| Y10S 526/909 | . Polymerization characterized by particle size of product |
| Y10S 526/91 | . Suspending agents |
| Y10S 526/911 | . Emulsifying agents |
| Y10S 526/912 | . Reaction medium purification |
| Y10S 526/913 | . Vapor phase polymerization in absence of transition metal containing catalyst |
| Y10S 526/914 | . Polymer degradation |
| Y10S 526/915 | . Redox catalyst |
| Y10S 526/916 | . Interpolymer from at least three ethylenically unsaturated monoolefinic hydrocarbon monomers |
| Y10S 526/917 | . Manipulative processes involving a sulfur-containing treating agent |
| Y10S 526/918 | . Polymerization reactors for addition polymer preparation |
| Y10S 526/919 | . Catalyst injection technique in addition polymerization processes |
| Y10S 526/92 | . Apparatus for use in addition polymerization processes |
| Y10S 526/921 | . Time cycle used in addition polymerization process control |
| Y10S 526/922 | . Polymerization process of ethylenic monomers using manipulative technique |
| Y10S 526/923 | . Ethylenic monomers containing at least one salt group |
| Y10S 526/93 | . Water swellable or hydrophilic |
| Y10S 526/931 | . Pressure sensitive adhesive |
| Y10S 526/932 | . Thickener or dispersant for aqueous system |
| Y10S 526/933 | . Detergent property or lubricant additive |
| Y10S 526/934 | . Electrodeposit, e.g. electrophoretic, xerographic |
| Y10S 526/935 | . Hot melt adhesive |
| Y10S 526/936 | . Physiological use, e.g. pharmaceutical, veterinary, dental |
| Y10S 526/937 | . Optical clarity |
| Y10S 526/938 | . Rubbery property |
| Y10S 526/939 | . Moisture proof or hydrophobic |

- Y10S 526/94 . High softening temperature, e.g. exposure to boiling water, boilable
- Y10S 526/941 . having the transition metal bonded directly to carbon
- Y10S 526/942 . Polymerization in the presence of a liquid co₂ diluent
- Y10S 526/943 . Polymerization with metallocene catalysts

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

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

- Y10S 528/901 . Room temperature curable silicon-containing polymer
- Y10S 528/902 . Particulate material prepared from an isocyanate
- Y10S 528/903 . Polymerizing or processing an isocyanate under substantially anhydrous conditions
- Y10S 528/904 . Isocyanate polymer having stated hydrophilic or hydrophobic property
- Y10S 528/905 . Polymer prepared from isocyanate reactant has adhesive property
- Y10S 528/906 . Fiber or elastomer prepared from an isocyanate reactant
- Y10S 528/92 . Polymers useful for replacing hard animal tissues, e.g. dentures, bones
- Y10S 528/93 . Guayule rubber
- Y10S 528/931 . Physical treatment of natural rubber or natural rubber containing material or chemical treatment of non-rubber portion thereof, e.g. extraction of rubber from milk weed
- Y10S 528/932 . . Protein removal or conversion
- Y10S 528/933 . . Resin removal or conversion
- Y10S 528/934 . . Latex
- Y10S 528/935 . . . Preserving or stabilizing
- Y10S 528/936 . . . Coagulating
- Y10S 528/937 . . . Concentrating, e.g. creaming

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

Y10S 530/00 Chemistry: natural resins or derivatives ; peptides or proteins ; lignins or reaction products thereof

- Y10S 530/80 . Antihypertensive peptides
- Y10S 530/801 . Peptide sweeteners
- Y10S 530/802 . Chromogenic or luminescent peptides

- Y10S 530/806 . Antigenic peptides or proteins
- Y10S 530/807 . Hapten conjugated with peptide or protein
- Y10S 530/808 . Materials and products related to genetic engineering or hybrid or fused cell technology, e.g. hybridoma, monoclonal products
- Y10S 530/809 .. Fused cells, e.g. hybridoma
- Y10S 530/81 . Carrier - bound or immobilized peptides or proteins and the preparation thereof, e.g. biological cell or cell fragment as carrier
- Y10S 530/811 .. Peptides or proteins is immobilized on, or in, an inorganic carrier
- Y10S 530/812 .. Peptides or proteins is immobilized on, or in, an organic carrier
- Y10S 530/813 ... Carrier is a saccharide
- Y10S 530/814 Cellulose or derivatives thereof
- Y10S 530/815 ... Carrier is a synthetic polymer
- Y10S 530/816 Attached to the carrier via a bridging agent
- Y10S 530/817 Entrapped within the carrier, e.g. gel, hollow fibre
- Y10S 530/82 . Proteins from micro-organisms
- Y10S 530/821 .. Separation of nucleic acid
- Y10S 530/822 .. Protozoa
- Y10S 530/823 .. Lower fungi, e.g. mold
- Y10S 530/824 ... Yeasts
- Y10S 530/825 .. Bacteria
- Y10S 530/826 .. Viruses
- Y10S 530/827 . Proteins from mammals or birds
- Y10S 530/828 .. Cancer
- Y10S 530/829 .. Blood
- Y10S 530/83 ... Plasma ; serum
- Y10S 530/831 Cohn fractions
- Y10S 530/832 .. Milk ; colostrum
- Y10S 530/833 .. Whey ; cheese
- Y10S 530/834 .. Urine ; urinary system
- Y10S 530/835 ... Kidney
- Y10S 530/836 .. Mucus ; mucous glands ; bursa ; arthral fluid ; spinal fluid
- Y10S 530/837 .. Lymph ; lymph-glands ; thymus
- Y10S 530/838 .. Marrow ; spleen
- Y10S 530/839 .. Nerves ; brain
- Y10S 530/84 .. Bones ; tendons ; teeth ; cartilage
- Y10S 530/841 .. Muscles ; heart
- Y10S 530/842 .. Skin ; hair ; nails ; sebaceous glands ; cerumen
- Y10S 530/843 .. Digestive system
- Y10S 530/844 ... Stomach ; intestine

- Y10S 530/845 . . . Pancreas
- Y10S 530/846 . . . Liver
- Y10S 530/847 . . . Bile
- Y10S 530/848 . . Lungs
- Y10S 530/849 . . Eyes ; vessels ; umbilical cord
- Y10S 530/85 . . Reproductive organs or embryos
- Y10S 530/851 . . . Placenta ; amniotic fluid
- Y10S 530/852 . . . Sperm
- Y10S 530/853 Ovary ; eggs ; embryos
- Y10S 530/854 . . Glands

- Y10S 530/855 . Proteins from animals other than mammals or birds
- Y10S 530/856 . . Snakes ; venom
- Y10S 530/857 . . Fish ; fish eggs ; shell fish ; crustacea
- Y10S 530/858 . . insects ; venom

- Y10S 530/859 . Waste, waste material, refuse or sludge, e.g. effluents, fecal matter

- Y10S 530/86 . Renin inhibitors

- Y10S 530/861 . involving IgG3, IgG4, IgA, or IgY

- Y10S 530/862 . involving IgE or IgD

- Y10S 530/863 . involving IgM
- Y10S 530/864 . . Monoclonal
- Y10S 530/865 . . . Human

- Y10S 530/866 . involving immunoglobulin or antibody fragment, e.g. fab', fab, fv, fc, heavy chain or light chain

- Y10S 530/867 . involving immunoglobulin or antibody produced via recombinant dna technology

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

Guidance heading: Organic compounds -- part of the class 532-570 series

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

- Y10S 534/01 . Mixtures of azo compounds

- Y10S 534/02 . Azo compounds containing chains of eight or more carbon atoms not provided for elsewhere in this class

- Y10S 534/03 . Polymeric azo compounds or azo compounds containing polymeric moieties

- Y10S 534/04 . Azo compounds which are lakes

- Y10S 534/05 . Azo compounds having utility other than as dyes
- Y10S 534/06 . Azo compounds containing -N[O]-N=, -N=S, or -SO₂N₃ groups
- Y10S 534/07 . Automatic and/or continuous temperature control in the preparation of azo compounds
- Y10S 534/08 . Elimination of groups during the preparation of azo compounds
- Y10S 534/09 . Azo compounds containing ternary sulfonium groups
- Y10S 534/10 . Azo compounds containing formaldehyde reaction product as the coupling component

Guidance heading: Chemistry of hydrocarbon compounds

Y10S 585/00 Chemistry of hydrocarbon compounds

- Y10S 585/8995 . Catalyst and recycle considerations
 - Y10S 585/90 .. Rehabilitation of H acceptor
 - Y10S 585/901 .. with recycle, rehabilitation, or preservation of solvent, diluent, or mass action agent
 - Y10S 585/902 ... Recycle of solvent and catalyst
 - Y10S 585/903 .. with hydrocarbon recycle to control synthesis reaction, e.g. by cooling, quenching
 - Y10S 585/904 .. Catalyst rehabilitation by reversion from different compound
 - Y10S 585/905 .. by-product conversion to feed
 - Y10S 585/906 .. Catalyst preservation or manufacture, e.g. activation before use
- Y10S 585/909 . Heat considerations
 - Y10S 585/91 .. Exploiting or conserving heat of quenching, reaction, or regeneration
 - Y10S 585/911 .. introducing, maintaining, or removing heat by atypical procedure
 - Y10S 585/912 ... Molten material
 - Y10S 585/913 ... Electric
 - Y10S 585/914 ... Phase change, e.g. evaporation
- Y10S 585/919 . Apparatus considerations
 - Y10S 585/92 .. using apparatus of recited composition
 - Y10S 585/921 .. using recited apparatus structure
 - Y10S 585/922 ... Reactor fluid manipulating device
 - Y10S 585/923 At reactor inlet
 - Y10S 585/924 ... Reactor shape or disposition
 - Y10S 585/925 Dimension or proportion
 - Y10S 585/926 Plurality or verticality
- Y10S 585/929 . Special chemical considerations
 - Y10S 585/93 .. Process including synthesis of nonhydrocarbon intermediate
 - Y10S 585/931 ... Metal-, Si-, B-, or P-containing, e.g. Grignard

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

Guidance heading: Hazardous or toxic waste destruction or containment

Y10S 588/00 Hazardous or toxic waste destruction or containment

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

Guidance heading: Surgery

Y10S 600/00 Surgery

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

Guidance heading: Surgery: kinesitherapy

Y10S 601/00 Surgery: kinesitherapy

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

Guidance heading: Surgery: splint, brace, or bandage

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

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

Guidance heading: Surgery**Y10S 604/00 Surgery**

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

Guidance heading: Surgery**Y10S 606/00 Surgery**

- Y10S 606/90 . Lumbar stabilizer
- Y10S 606/901 . Thoracic stabilizer
- Y10S 606/902 . Cortical plate specifically adapted for a particular bone
 - Y10S 606/903 . . Cranial and facial plate
 - Y10S 606/904 . . . Jaw plate
 - Y10S 606/905 . . Rib or sternum plate
 - Y10S 606/906 . . Small bone plate
- Y10S 606/907 . Composed of particular material or coated
 - Y10S 606/908 . . Bioabsorbable material
 - Y10S 606/909 . . Bone
 - Y10S 606/91 . . Polymer
 - Y10S 606/911 . . Memory material
 - Y10S 606/912 . . Radiolucent material
 - Y10S 606/913 . . Monolithic
- Y10S 606/914 . Toolkit for installing or removing spinal positioner or stabilizer
- Y10S 606/915 . Toolkit for installing or removing cortical plate
- Y10S 606/916 . Tool for installing or removing orthopedic fastener

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

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

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

- Y10S 623/90 . Stent for heart valve
- Y10S 623/901 . Method of manufacturing prosthetic device
- Y10S 623/902 . Method of implanting
- Y10S 623/903 . . Blood vessel
- Y10S 623/904 . . Heart
- Y10S 623/905 . . Eye
- Y10S 623/906 . . . Corneal
- Y10S 623/907 . . . Method of manipulating parts of intraocular lens structure for implantation
- Y10S 623/908 . . Bone
- Y10S 623/909 . Method or apparatus for assembling prosthetic
- Y10S 623/91 . . Heart
- Y10S 623/911 . . Bone
- Y10S 623/912 . Method or apparatus for measuring or testing prosthetic
- Y10S 623/913 . . Heart
- Y10S 623/914 . . Bone
- Y10S 623/915 . Method or apparatus for preparing biological material
- Y10S 623/916 . . Blood vessel
- Y10S 623/917 . . . Collagen
- Y10S 623/918 . . Heart
- Y10S 623/919 . . Bone
- Y10S 623/92 . Method or apparatus for preparing or treating prosthetic
- Y10S 623/921 . . Blood vessel
- Y10S 623/922 . . Heart

Y10S 623/923 . . Bone

Y10S 623/924 . Material characteristic

Y10S 623/925 . . Natural

Y10S 623/926 . . Synthetic

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

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

Y10S 700/90 . Special robot structural element

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

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

Y10S 705/901 . Digital rights management

Y10S 705/902 . . Licensing digital content

Y10S 705/903 . . . Adding plural layer of rights or limitations by other than the original producer

Y10S 705/904 . . Usage protection of distributed files

Y10S 705/905 . . . Hardware usage protection

Y10S 705/906 . . . Requiring a supplemental attachment or input, e.g. Dongle, to open

Y10S 705/907 Specific computer id, e.g. serial number, configuration

Y10S 705/908 . . . Software or content usage protection

Y10S 705/909 . . . Usage charge determination

Y10S 705/91 including third party for collecting or distributing payment, e.g. Clearing house

Y10S 705/911 . . Copy protection or prevention

Y10S 705/912 . . . having origin or program id

Guidance heading: Data processing: artificial intelligence

Y10S 706/00 Data processing: artificial intelligence

Y10S 706/90 . Fuzzy logic

Y10S 706/902 . Application using ai with detail of the ai system

Y10S 706/903 . . Control

Y10S 706/904 . . . Manufacturing or machine, e.g. agricultural machinery, machine tool

Y10S 706/905 . . . Vehicle or aerospace

Y10S 706/906 . . . Process plant

| | | |
|--------------|------|---|
| Y10S 706/907 | .... | Power plant |
| Y10S 706/908 | ... | Electronic or computer, internal or network, circuit |
| Y10S 706/909 | ... | Communication |
| Y10S 706/91 | ... | Elevator |
| Y10S 706/911 | .. | Nonmedical diagnostics |
| Y10S 706/912 | ... | Manufacturing or machine, e.g. agricultural machinery, machine tool |
| Y10S 706/913 | ... | Vehicle or aerospace |
| Y10S 706/914 | ... | Process plant |
| Y10S 706/915 | .... | Power plant |
| Y10S 706/916 | ... | Electronic or computer, internal or network, circuit |
| Y10S 706/917 | ... | Communication |
| Y10S 706/918 | ... | Elevator |
| Y10S 706/919 | .. | Designing, planning, programming, CAD, CASE |
| Y10S 706/92 | ... | Simulation |
| Y10S 706/921 | ... | Layout, e.g. circuit, construction |
| Y10S 706/922 | ... | Computer program preparation |
| Y10S 706/923 | ... | Construction |
| Y10S 706/924 | .. | Medical |
| Y10S 706/925 | .. | Business |
| Y10S 706/926 | ... | Time management |
| Y10S 706/927 | .. | Education or instruction |
| Y10S 706/928 | .. | Earth science |
| Y10S 706/929 | ... | Geological, e.g. seismology |
| Y10S 706/93 | ... | Environment |
| Y10S 706/931 | .... | Weather |
| Y10S 706/932 | .. | Mathematics, science, or engineering |
| Y10S 706/933 | .. | Law, law enforcement, or government |
| Y10S 706/934 | .. | Information retrieval or Information management |

Guidance heading: Data processing: database and file management or data structures

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

| | | |
|--------------|------|----------------------------|
| Y10S 707/912 | . | Applications of a database |
| Y10S 707/913 | .. | Multimedia |
| Y10S 707/914 | ... | Video |
| Y10S 707/915 | ... | Image |
| Y10S 707/916 | ... | Audio |
| Y10S 707/917 | .. | Text |
| Y10S 707/918 | .. | Location |
| Y10S 707/919 | ... | Geographic |
| Y10S 707/92 | .... | Navigation |

| | | |
|--------------|-------|-------------------------------------|
| Y10S 707/921 | ... | Spatial |
| Y10S 707/922 | .. | Communications |
| Y10S 707/923 | .. | Intellectual property |
| Y10S 707/924 | ... | Patent procedure |
| Y10S 707/925 | .... | Drafting an application |
| Y10S 707/926 | .... | Drafting drawing or figures |
| Y10S 707/927 | .... | Validation |
| Y10S 707/928 | .... | Electronic submission |
| Y10S 707/929 | .... | Docketing |
| Y10S 707/93 | ... | intellectual property analysis |
| Y10S 707/931 | .... | Patent comparison |
| Y10S 707/932 | ..... | Infringement detection |
| Y10S 707/933 | .... | Citation analysis |
| Y10S 707/934 | .... | Analyzing patent activity |
| Y10S 707/935 | ..... | Company or stock valuation |
| Y10S 707/936 | ... | for use in research and development |
| Y10S 707/937 | ... | intellectual property searching |
| Y10S 707/938 | ... | intellectual property markets |
| Y10S 707/939 | ... | Idea solicitation |
| Y10S 707/94 | .. | Infrastructure |
| Y10S 707/941 | .. | Human sciences |
| Y10S 707/942 | .. | Legal/academic |
| Y10S 707/943 | .. | News |
| Y10S 707/944 | .. | Business related |
| Y10S 707/945 | ... | Contract negotiation |
| Y10S 707/946 | ... | Real estate |
| Y10S 707/947 | ... | Human resources |
| Y10S 707/948 | ... | Product or catalog |
| Y10S 707/949 | ... | Inventory |
| Y10S 707/95 | .. | Financial |
| Y10S 707/951 | .. | Calendar or scheduling |
| Y10S 707/952 | .. | Malicious software |
| Y10S 707/953 | . | Organization of data |
| Y10S 707/954 | .. | Relational |
| Y10S 707/955 | .. | Object-oriented |
| Y10S 707/956 | .. | Hierarchical |
| Y10S 707/957 | .. | Multidimensional |
| Y10S 707/958 | .. | Data cubes |
| Y10S 707/959 | .. | Network |
| Y10S 707/96 | .. | Object-relational |
| Y10S 707/961 | .. | Associative |

| | | |
|----------------|-------|---|
| Y10S 707/962 | .. | Entity-attribute-value |
| Y10S 707/963 | .. | Hybrid |
| Y10S 707/964 | . | Database arrangement |
| Y10S 707/965 | .. | Standalone |
| Y10S 707/966 | .. | Distributed |
| Y10S 707/967 | ... | Peer-to-peer |
| Y10S 707/968 | .... | Partitioning |
| Y10S 707/969 | ..... | Horizontal partitioning |
| Y10S 707/97 | ..... | Vertical partitioning |
| Y10S 707/971 | ... | Federated |
| Y10S 707/972 | .... | Partitioning |
| Y10S 707/973 | ..... | Horizontal partitioning |
| Y10S 707/974 | ..... | Vertical partitioning |
| Y10S 707/975 | .. | Portable database architecture |
| Y10S 707/99931 | . | Database or file accessing |
| Y10S 707/99932 | .. | Access augmentation or optimizing |
| Y10S 707/99933 | .. | Query processing, i.e. searching |
| Y10S 707/99934 | ... | Query formulation, input preparation, or translation |
| Y10S 707/99935 | ... | Query augmenting and refining, e.g. inexact access |
| Y10S 707/99936 | ... | Pattern matching access |
| Y10S 707/99937 | .. | Sorting |
| Y10S 707/99938 | .. | Concurrency, e.g. lock management in shared database |
| Y10S 707/99939 | .. | Privileged access |
| Y10S 707/9994 | .. | Distributed or remote access |
| Y10S 707/99941 | . | Database schema or data structure |
| Y10S 707/99942 | .. | Manipulating data structure, e.g. compression, compaction, compilation |
| Y10S 707/99943 | .. | Generating database or data structure, e.g. via user interface |
| Y10S 707/99944 | .. | Object-oriented database structure |
| Y10S 707/99945 | ... | Object-oriented database structure processing |
| Y10S 707/99946 | ... | Object-oriented database structure network |
| Y10S 707/99947 | ... | Object-oriented database structure reference |
| Y10S 707/99948 | .. | Application of database or data structure, e.g. distributed, multimedia, or image |
| Y10S 707/99951 | . | File or database maintenance |
| Y10S 707/99952 | .. | Coherency, e.g. same view to multiple users |
| Y10S 707/99953 | ... | Recoverability |
| Y10S 707/99954 | ... | Version management |
| Y10S 707/99955 | ... | Archiving or backup |
| Y10S 707/99956 | .. | File allocation |
| Y10S 707/99957 | ... | Garbage collection |

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

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

- Y10S 715/961 . Operator interface with visual structure or function dictated by intended use
- Y10S 715/962 .. Operator interface for marketing or sales
- Y10S 715/963 .. Calendar or scheduling
- Y10S 715/964 .. CAD or CAM, e.g. interactive design tools
- Y10S 715/965 .. for process control and configuration
- Y10S 715/966 ... Computer process, e.g. operation of computer
- Y10S 715/967 Visual or iconic programming
- Y10S 715/968 interface for database querying and retrieval
- Y10S 715/969 ... Network layout and operation interface
- Y10S 715/97 ... Instrumentation and component modelling, e.g. interactive control panel
- Y10S 715/9701 .. Amusement or marital aid interface
- Y10S 715/971 . Cooperative decision support systems for group of users
- Y10S 715/972 . Inserted real-time video in operator interface
- Y10S 715/973 . Scroll tool, e.g. window scroll bar
- Y10S 715/974 . Slider control as on-screen object in operator interface
- Y10S 715/975 . Pop-up dialog box for entry
- Y10S 715/976 . 3-D Icon
- Y10S 715/977 . Dynamic icon, e.g. animated or live action
- Y10S 715/978 . Audio interaction as part of an operator interface

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

- Y10S 901/01 . Mobile robot
- Y10S 901/02 . Arm motion controller
- Y10S 901/03 .. Teaching system
- Y10S 901/04 ... Manual lead through
- Y10S 901/05 ... Machine driven lead through
- Y10S 901/06 .. Communication with another machine
- Y10S 901/07 ... Conveyor

| | |
|-------------|---|
| Y10S 901/08 | ... Robot |
| Y10S 901/09 | .. Closed loop, sensor feedback controls arm movement |
| Y10S 901/10 | ... Sensor physically contacts and follows work contour |
| Y10S 901/11 | .. Mechanically actuated present limit |
| Y10S 901/12 | ... Cam |
| Y10S 901/13 | ... Limit switch |
| Y10S 901/14 | . Arm movement, spatial |
| Y10S 901/15 | .. Jointed arm |
| Y10S 901/16 | .. Cartesian, three degrees of freedom |
| Y10S 901/17 | .. Cylindrical |
| Y10S 901/18 | .. Spherical |
| Y10S 901/19 | . Drive system for arm |
| Y10S 901/20 | .. with provision for altering speed of driven element |
| Y10S 901/21 | .. Flaccid drive element |
| Y10S 901/22 | .. Fluid motor |
| Y10S 901/23 | .. Electric motor |
| Y10S 901/24 | ... Stepper motor |
| Y10S 901/25 | .. Gearing |
| Y10S 901/26 | ... including bevel gear |
| Y10S 901/27 | . Arm part |
| Y10S 901/28 | .. Joint |
| Y10S 901/29 | ... Wrist |
| Y10S 901/30 | . End effector |
| Y10S 901/31 | .. Gripping jaw |
| Y10S 901/32 | ... Servo-actuated |
| Y10S 901/33 | Tactile sensor |
| Y10S 901/34 | force feedback |
| Y10S 901/35 | Proximity |
| Y10S 901/36 | ... Actuating means |
| Y10S 901/37 | Fluid motor |
| Y10S 901/38 | Electric motor |
| Y10S 901/39 | ... Jaw structure |
| Y10S 901/40 | .. Vacuum or magnetic |
| Y10S 901/41 | .. Tool |
| Y10S 901/42 | ... Welding |
| Y10S 901/43 | ... Spray painting or coating |
| Y10S 901/44 | .. inspection |
| Y10S 901/45 | .. Compliance |
| Y10S 901/46 | . Sensing device |

- Y10S 901/47 . . . Optical
- Y10S 901/48 . . Counterbalance
- Y10S 901/49 . . Protective device
- Y10S 901/50 . . Miscellaneous

Guidance heading: Electronic funds transfer

Y10S 902/00 Electronic funds transfer

- Y10S 902/01 . . with electronic means providing security
- Y10S 902/02 . . . Protects transmitted data, e.g. encryption or decryption
- Y10S 902/03 . . . Evaluates biometrics
- Y10S 902/04 . . . Means to read data stored on identifier*
- Y10S 902/05 And to verify identity of user*
- Y10S 902/06 . . . Image processor, e.g. video camera
- Y10S 902/07 . . . Means to identify counterfeit money
- Y10S 902/08 . . Terminal* with means permitting deposit or withdrawal, e.g. ATM
- Y10S 902/09 . . . with secure receptacle, e.g. safe, depository
- Y10S 902/10 Remote from terminal
- Y10S 902/11 And value discriminator
- Y10S 902/12 Serving as both depository and source for, e.g. note dispensing recycling
- Y10S 902/13 Dispensing, e.g. money cassette
- Y10S 902/14 . . . with cash dispenser
- Y10S 902/15 including currency feeder
- Y10S 902/16 Sensitive to erroneous passage of plural bills
- Y10S 902/17 . . . with particular feeder or counter feature
- Y10S 902/18 . . . with printer
- Y10S 902/19 And page turner
- Y10S 902/20 . . . with specific data input means, e.g. keyboard
- Y10S 902/21 . . . with specific data output means or indicator
- Y10S 902/22 . . Terminal* registers transaction*, e.g. point of sale terminal*
- Y10S 902/23 . . for entertainment, amusement, or gambling
- Y10S 902/24 . . for use with general purpose terminal*, e.g. home banking
- Y10S 902/25 . . Specific identifier*, e.g. bank card
- Y10S 902/26 . . . including semiconductor chip, e.g. smart card
- Y10S 902/27 . . . Magnetically encoded
- Y10S 902/28 Designed to resist counterfeiting

- Y10S 902/29 . . . Specific process of manufacture
- Y10S 902/30 . Support or enclosure, e.g. kiosk
- Y10S 902/31 . . . Selectively prevents access to terminal*
- Y10S 902/32 . . . for plurality of terminals*
- Y10S 902/33 . . . for drive-in installation
- Y10S 902/34 . . . Collapsible
- Y10S 902/35 . . . Accommodates user, i.e. walk-in enclosure
- Y10S 902/36 . Paper supply, e.g. receipt
- Y10S 902/37 . System*
- Y10S 902/38 . . . Error or fault recovery
- Y10S 902/39 . . . Particular communication feature
- Y10S 902/40 . . . Transaction* processing
- Y10S 902/41 . Miscellaneous

Guidance heading: Hybrid electric vehicles, HEVS

Y10S 903/00 Hybrid electric vehicles, HEVS

- Y10S 903/902 . Prime movers comprising electrical and internal combustion motors
- Y10S 903/903 . . . having energy storing means, e.g. battery, capacitor
- Y10S 903/904 Component specially adapted for hev
- Y10S 903/905 Combustion engine
- Y10S 903/906 Motor or generator
- Y10S 903/907 Electricity storage, e.g. battery, capacitor
- Y10S 903/908 Fuel cell
- Y10S 903/909 Gearing
- Y10S 903/91 Orbital, e.g. planetary gears
- Y10S 903/911 with two or more gear sets
- Y10S 903/912 Drive line clutch
- Y10S 903/913 One way
- Y10S 903/914 Actuated, e.g. engaged or disengaged by electrical, hydraulic or mechanical means
- Y10S 903/915 Specific drive or transmission adapted for hev
- Y10S 903/916 with plurality of drive axles
- Y10S 903/917 with transmission for changing gear ratio
- Y10S 903/918 Continuously variable
- Y10S 903/919 Stepped shift
- Y10S 903/93 . . . Conjoint control of different elements
- Y10S 903/944 . . . Characterized by control of fuel cell
- Y10S 903/945 . . . Characterized by control of gearing, e.g. control of transmission ratio

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|--------------|-----|--|
| Y10S 903/946 | ... | Characterized by control of driveline clutch |
| Y10S 903/947 | ... | Characterized by control of braking, e.g. blending of regeneration, friction braking |
| Y10S 903/951 | ... | Assembly or relative location of components |
| Y10S 903/952 | ... | Housing details |
| Y10S 903/96 | ... | having chargeable mechanical accumulator |

Guidance heading: Peptide or protein sequence

Y10S 930/00 Peptide or protein sequence

| | | |
|--------------|-----|---|
| Y10S 930/01 | . | Peptide or protein sequence |
| Y10S 930/02 | .. | Containing modified or unusual amino acid |
| Y10S 930/021 | ... | Containing D-amino acid |
| Y10S 930/022 | ... | Containing radioactive atom |
| Y10S 930/023 | ... | Containing halogen |
| Y10S 930/024 | ... | Containing sulfur |
| Y10S 930/025 | ... | Containing heavy metal or salt thereof |
| Y10S 930/03 | .. | Linear peptide or protein containing a nonpeptide or abnormal peptide link |
| Y10S 930/031 | ... | Retro-inverted |
| Y10S 930/04 | .. | Angiotensin ; related peptides |
| Y10S 930/05 | .. | Atrial or brain natriuretic peptide ; related peptides |
| Y10S 930/06 | .. | Calcitonin ; related peptides |
| Y10S 930/07 | .. | Corticotropin ; related peptides |
| Y10S 930/08 | .. | Endorphin or enkephalin ; related peptides |
| Y10S 930/09 | .. | Erythropoietin ; related peptides |
| Y10S 930/10 | .. | Factor VIII, AHF ; related peptides |
| Y10S 930/11 | .. | Gonadotropin ; related peptides |
| Y10S 930/12 | .. | Growth hormone, growth factor other than t-cell or b-cell growth factor, and growth hormone releasing factor ; related peptides |
| Y10S 930/13 | .. | Luteinizing hormone-releasing hormone ; related peptides |
| Y10S 930/14 | .. | Lymphokine ; related peptides |
| Y10S 930/141 | ... | Interleukin |
| Y10S 930/142 | ... | Interferon |
| Y10S 930/143 | ... | Lymphotoxin |
| Y10S 930/144 | ... | Tumor necrosis factor |
| Y10S 930/145 | ... | Colony stimulating factor |
| Y10S 930/15 | .. | Oxytocin or vasopressin ; related peptides |
| Y10S 930/16 | .. | Somatostatin ; related peptides |
| Y10S 930/17 | .. | Vasoactive intestinal peptides ; related peptides |
| Y10S 930/18 | .. | Thymus derived hormone or factor ; related peptides |
| Y10S 930/19 | .. | Antibiotic |
| Y10S 930/20 | .. | Bacterial peptide or bacterial protein |

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|--------------|-----|---|
| Y10S 930/21 | .. | Parasitic peptide or parasitic protein |
| Y10S 930/22 | .. | Viral peptide or viral protein |
| Y10S 930/221 | ... | Retrovirus related, or human immunodeficiency virus related, or simian immunodeficiency virus related |
| Y10S 930/222 | ... | Foot and mouth disease related |
| Y10S 930/223 | ... | Hepatitis related |
| Y10S 930/224 | ... | Herpes related |
| Y10S 930/23 | .. | Multicellular plant peptide or multicellular plant protein |
| Y10S 930/24 | .. | Enzyme or isoenzyme |
| Y10S 930/25 | .. | Enzyme inhibitor |
| Y10S 930/26 | .. | Containing cys-cys disulfide bridge between nonadjacent cysteine residues |
| Y10S 930/27 | .. | Cyclic peptide or cyclic protein |
| Y10S 930/28 | .. | Bound to a nonpeptide drug, nonpeptide label, nonpeptide carrier, or a nonpeptide resin |
| Y10S 930/29 | .. | Polyamino acid or polypeptide with an uninterrupted series of peptide repeating units |
| Y10S 930/30 | .. | Signal or leader sequence |
| Y10S 930/31 | .. | Linker sequence |
| Y10S 930/32 | .. | Modification to prevent enzymatic degradation |

Guidance heading: Nanotechnology

Y10S 977/00 Nanotechnology

| | | |
|--------------|-------|---|
| Y10S 977/70 | . | Nanostructure |
| Y10S 977/701 | .. | Integrated with dissimilar structures on a common substrate |
| Y10S 977/702 | ... | having biological material component |
| Y10S 977/703 | .... | Cellular |
| Y10S 977/704 | .... | Nucleic acids, e.g. DNA or RNA |
| Y10S 977/705 | .... | Protein or peptide |
| Y10S 977/706 | .... | Carbohydrate |
| Y10S 977/707 | ... | having different types of nanoscale structures or devices on a common substrate |
| Y10S 977/708 | ... | with distinct switching device |
| Y10S 977/709 | .... | including molecular switching device |
| Y10S 977/71 | ..... | Biological switching |
| Y10S 977/711 | ..... | Nucleic acid switching |
| Y10S 977/712 | ... | formed from plural layers of nanosized material, e.g. stacked structures |
| Y10S 977/713 | .... | including lipid layer |
| Y10S 977/714 | .... | Containing protein |
| Y10S 977/715 | ... | On an organic substrate |
| Y10S 977/716 | | Biological cell surface |
| Y10S 977/717 | | Lipid substrate |

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|--------------|-------|--|
| 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 ₂ or MoS ₂ chalcogenide nanotubes, planar C ₃ N ₄ , 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 |

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|--------------|-------|--|
| Y10S 977/756 | ... | Lipid layer |
| Y10S 977/757 | | Layer containing protein |
| Y10S 977/758 | ... | Mono-atomic layer on delta-doped sheet |
| Y10S 977/759 | ... | Quantum well dimensioned for intersubband transitions, e.g. for use in unipolar light emitters or quantum well infrared photodetectors |
| Y10S 977/76 | ... | Superlattice with graded effective bandgap, e.g. "chirp-graded" superlattice |
| Y10S 977/761 | ... | Superlattice with well or barrier thickness adapted for increasing the reflection, transmission, or filtering of carriers having energies above the bulk-form conduction or valence band energy level of the well or barrier, i.e. well or barrier with n-integer-#-carrier-/4 thickness |
| Y10S 977/762 | .. | Nanowire or quantum wire, i.e. axially elongated structure having two dimensions of 100 nm or less |
| Y10S 977/763 | ... | formed along or from crystallographic terraces or ridges |
| Y10S 977/764 | ... | with specified packing density |
| Y10S 977/765 | ... | with specified cross-sectional profile, e.g. belt-shaped |
| Y10S 977/766 | ... | Bent wire, i.e. having nonlinear longitudinal axis |
| Y10S 977/767 | .... | Mesh structure |
| Y10S 977/768 | .... | Helical wire |
| Y10S 977/769 | ..... | formed with nucleic acid |
| Y10S 977/77 | ..... | formed with polyamide polymers |
| Y10S 977/771 | .... | Nanoring |
| Y10S 977/772 | ..... | formed from circular biomolecule, e.g. DNA, heme, chelators |
| Y10S 977/773 | .. | Nanoparticle i.e. structure having three dimensions of 100 nm or less |
| Y10S 977/774 | ... | Exhibiting three-dimensional carrier confinement, e.g. quantum dots |
| Y10S 977/775 | ... | Nanosized powder or flake, e.g. nanosized catalyst |
| Y10S 977/776 | .... | Ceramic powder or flake |
| Y10S 977/777 | .... | Metallic powder or flake |
| Y10S 977/778 | .. | within specified host or matrix material, e.g. nanocomposite films |
| Y10S 977/779 | ... | Possessing nanosized particles, powders, flakes, or clusters other than simple atomic impurity doping |
| Y10S 977/78 | ... | Possessing fully enclosed nanosized voids or physical holes |
| Y10S 977/781 | ... | Possessing nanosized surface openings that extend partially into or completely through the host material |
| Y10S 977/782 | ... | Possessing nanosized physical convexity, ridge, or protrusion extending upward from the host's surface |
| Y10S 977/783 | ... | Organic host/matrix, e.g. lipid |
| Y10S 977/784 | ... | Electrically conducting, semi-conducting, or semi-insulating host material |
| Y10S 977/785 | ... | Electrically insulating host material |
| Y10S 977/786 | ... | Fluidic host/matrix containing nanomaterials |
| Y10S 977/787 | .... | Viscous fluid host/matrix containing nanomaterials |
| Y10S 977/788 | .. | Of specified organic or carbon-based composition |
| Y10S 977/789 | ... | in array format |
| Y10S 977/79 | | with heterogeneous nanostructures |
| Y10S 977/791 | | Molecular array |

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| Y10S 977/792 | | Nucleic acid array, e.g. human genome array |
| Y10S 977/793 | | Protein array |
| Y10S 977/794 | ..... | Chemical library array |
| Y10S 977/795 | ... | Composed of biological material |
| Y10S 977/796 | .... | for electrical or electronic purpose |
| Y10S 977/797 | ... | Lipid particle |
| Y10S 977/798 | .... | having internalized material |
| Y10S 977/799 | ..... | Containing biological material |
| Y10S 977/80 | ..... | Nucleic acid, e.g. DNA or RNA |
| Y10S 977/801 | ..... | Drug |
| Y10S 977/802 | ... | Virus-based particle |
| Y10S 977/803 | .... | Containing biological material in its interior |
| Y10S 977/804 | ..... | Containing nucleic acid |
| Y10S 977/805 | ..... | Containing drug |
| Y10S 977/806 | .... | with exterior chemical attachment |
| Y10S 977/807 | ..... | Exterior attachment for detection |
| Y10S 977/808 | ..... | Exterior attachment for targeting, e.g. drug targeting |
| Y10S 977/809 | ... | Organic film on silicon |
| Y10S 977/81 | .. | Of specified metal or metal alloy composition |
| Y10S 977/811 | .. | Of specified metal oxide composition, e.g. conducting or semiconducting compositions such as ITO, ZnOx |
| Y10S 977/812 | ... | Perovskites and superconducting composition, e.g. BaxSr1-xTiO3 |
| Y10S 977/813 | .. | Of specified inorganic semiconductor composition, e.g. periodic table group IV-VI compositions |
| Y10S 977/814 | ... | Group IV based elements and compounds, e.g. CxSiyGez, porous silicon |
| Y10S 977/815 | ... | Group III-V based compounds, e.g. AlaGablncNxPyAsz |
| Y10S 977/816 | .... | III-N based compounds, e.g. AlxGayInzN |
| Y10S 977/817 | ..... | High-indium-content InGaN pooling or clusters |
| Y10S 977/818 | .... | III-P based compounds, e.g. AlxGayIn2P |
| Y10S 977/819 | .... | III-As based compounds, e.g. AlxGayInzAs |
| Y10S 977/82 | .... | III-Sb based compounds, e.g. AlxGayInzSb |
| Y10S 977/821 | .... | Mixed group V compounds, e.g. III-NxPy |
| Y10S 977/822 | .... | Boron-containing compounds |
| Y10S 977/823 | .... | Tl-containing or Bi-containing compounds |
| Y10S 977/824 | ... | Group II-VI nonoxide compounds, e.g. CdxMnyTe |
| Y10S 977/825 | ... | Heterojunction formed between semiconductor materials that differ in that they belong to different periodic table groups |
| Y10S 977/826 | ... | Nonstoichiometric semiconductor compounds, e.g. IllxV _y ; 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 |