

CLASSES WITHIN THE U.S. CLASSIFICATION SYSTEM

Arranged by Related Subjects

Main Groups

- GROUP I. CHEMICAL AND RELATED ARTS

- GROUP II. COMMUNICATIONS, RADIANT ENERGY, WEAPONS,
ELECTRICAL, AND COMPUTER ARTS

- GROUP III. BODY TREATMENT AND CARE, HEATING AND COOLING,
MATERIAL HANDLING AND TREATMENT, MECHANICAL
MANUFACTURING, MECHANICAL POWER, STATIC, AND
RELATED ARTS

- GROUP IV. INDUSTRIAL DESIGNS

Note: In the following lists, classes followed by an asterisk (e.g., 250*) appear more than once. Subject titles used may differ from official class titles.

Note: Subclass ranges in this listing of related classes reflect inclusive ranges as determined by their arrangement in the Manual of Classification; these ranges are not always in increasing sequential numerical order.

Note: Specific lines or relationships between classes and subclasses as set out in the definitions and notes of the classes and subclasses involved are to be followed in the event of conflict with this list.

<u>Class</u>	<u>Subject</u>	<u>Class</u>	<u>Subject</u>
505*	SUPERCONDUCTOR TECHNOLOGY: APPARATUS, MATERIAL PROCESS		/33-33.6, Barrier layer stock material, P-N type./400-442 (Stock materials of diverse types; see subclass definition.)
977*	NANOTECHNOLOGY (Note: Does not accept applications)		
LIFE AND AGRICULTURAL SCIENCES AND TESTING METHODS			
800 .	Multicellular Living Organisms and Unmodified Parts Thereof and Related Processes	430 .	Radiation Imagery Chemistry: Process, Composition, or Product Thereof
504 .	Plant Protecting and Regulating Compositions	210* .	Liquid Purification or Separation /500.1-510.1, Filter material (compositions or materials for filtering).
424 .	Drug, Bio-Affecting and Body Treating Compositions	55* .	Gas Separation /522-528, Specific media material.
514 .	Drug, Bio-Affecting and Body Treating Compositions	51 .	Abrasive Tool Making Process, Material, or Composition
71 .	Chemistry: Fertilizers	429 .	Chemistry: Electrical Current Producing Apparatus, Product, And Process
435 .	Chemistry: Molecular Biology and Microbiology	136 .	Batteries: Thermoelectric And Photoelectric
436 .	Chemistry: Analytical And Immunological Testing	428* .	Stock Materials or Miscellaneous Articles /1.1-223
426 .	Foods or Edible Material: Processes, Compositions, And Products	442 .	Fabric (Woven, Knitted, or Nonwoven Textile or Cloth, Etc.)
PLT .	Plants	428* .	Stock Materials or Miscellaneous Articles /292.1-543
STOCK MATERIALS; ARTICLES (E.G., LAYERED PRODUCTS, FILTERS, BATTERIES)		COMPOSITIONS AND SYNTHETIC RESINS; CHEMICAL COMPOUNDS	
503 .	Record Receiver Having Plural, Interactive Leaves or A Colorless Color Former, Method of Use, or Developer Therefor	508 .	Solid Anti-Friction Devices, Materials Therefor, Lubricant or Separant Compositions for Moving Solid Surfaces, and Miscellaneous Mineral Oil Compositions
148* .	Metal Treatment	44 .	Fuel and Related Compositions
		148* .	Metal Treatment /22-30, Compositions (employed in the treatment of solid metal, e.g., fluxes,

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	protective paint on localized areas during carburizing or nitriding treatments).	501 .	Compositions: Ceramic
252* .	Compositions /2-8.05, Fire-Extinguishing /601-611, Fire Retarding	106* .	Compositions: Coating or Plastic /600-316 (Alkali metal silicate containing (e.g., Portland cement, water glass); all the rest of the class subject matter.)
507 .	Earth Boring, Well Treating, and Oil Field Chemistry	75* .	Specialized Metallurgical Processes, Compositions for Use Therein, Consolidated Metal Powder Compositions, and Loose Metal Particulate Mixtures /300-254, Compositions
252* .	Compositions /8.57-88.2 (Compositions of various specified special uses or functions.)	420 .	Alloys or Metallic Compositions
510 .	Cleaning Compositions for Solid Surfaces, Auxiliary Compositions Therefor, or Processes of Preparing the Compositions	518 .	Chemistry: Fischer-Tropsch Processes; or Purification or Recovery of Products Thereof
252* .	Compositions /175-194 (Compositions of various specified special uses or functions.)	520-528 .	Series of Classes: Synthetic Resins and Natural Rubbers
502 .	Catalyst, Solid Sorbent, or Support Therefor: Product or Process of Making	521 . .	Ion-Exchange Polymers, Cellular Products, Waste Polymer Recovery.
252* .	Compositions /478-193, 380-407 (Compositions of various specified special uses or functions.) (See schedule for details.)	522 . .	Compositions to be polymerized or modified by wave energy wherein said composition contains a rate-affecting material; or processes of preparing or treating a solid polymer utilizing wave energy.
252* .	Compositions /408.1-183.16 (Compositions of various specified special uses or functions.)	523 . .	Processes of preparing a desired or intentional composition of at least one nonreactant material and at least one solid polymer or specified intermediate condensation product, or product thereof.
8 .	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers	524 . .	Processes of preparing a desired or intentional composition of at least one nonreactant material and at least one solid polymer or specified intermediate condensation product, or product thereof.
106* .	Compositions: Coating or Plastic /1.05-38.9 (Metal depositing; coating repellent; polishes; saturating or indurating; frost or ice preventive; corrosion inhibiting coating composition; hectographic or copying; containing fireproofing or biocidal agent; marking (e.g., inks); erasable surface; leak stopping; stains; dental; tractive or friction surface; sound recording; shoe filling; molds and mold coating compositions.)	525 . .	Various preformed reaction products mixed with ethylenically unsaturated reactant; mixing plural solid polymers or chemically treating solid polymer, or product thereof.
		526 . .	Reaction zone features, and polymers from only ethylenic monomers or processes of

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	polymerizing, polymerizable compositions containing only ethylene monomers as reactants or processes of preparing.		(except subclasses 265-275)
527 . .	Solid polymers from specialized reactants (e.g., various cellular materials, protein, carbohydrate, tannin, lignin, coal, bituminous, natural resins), processes of preparing.	530 . .	Chemistry: Natural Resins or Derivatives; Peptides or Proteins; Lignins or Reaction Products Thereof
528 . .	Solid polymers from various specified starting materials, or processes of preparing, and treating polymer containing material or treating a solid polymer or a resinifiable intermediate condensation product.	930 . .	Peptide or Protein Sequence (Note: Does not accept applications.)
		532-570 . .	Series of Classes: Organic Compounds.
520 . .	Synthetic Rubbers or Natural Rubbers /1 (miscellaneous subclass, i.e., synthetic resins or natural rubbers not elsewhere provided for anywhere in the USPCS.)	534 . . .	Radioactive or Rare Earth Metal Compounds; Azo and Diazo Compounds.
208* .	Mineral Oils: Processes and Products /1-2, 14-23 (Mineral oil compositions.)	536 . . .	Carbohydrates or derivatives (e.g., pectin, glycosides, RNA, DNA, cellulose, starch, polysaccharides, etc.).
512 . .	Perfume Compositions	540 . .	Heterocyclic carbon compounds; steroidal hetero compounds; four-membered lactams, azaporphyrins, nitrogen hetero rings of more than six members.
516 . .	Colloid Systems and Wetting Agents; Subcombinations Thereof; Processes of Making, Stabilizing, Breaking, or Inhibiting	544 . . .	Hetero ring is six-membered having two or more ring hetero atoms of which at least one is nitrogen (e.g., selenazines, etc.).
252* .	Compositions /363.5, 367.1, 372+, 378 (All of the various compositions of non-special uses or functions in Class 252. (See schedule for details.)	546 . . .	Six-membered ring with one hetero nitrogen and five carbons.
423* .	Chemistry of Inorganic Compounds /265-275 (Compositions perfecting inorganic compounds.)	548 . . .	Five-, four-, or three-membered nitrogen hetero ring compounds.
127 . .	Sugar, Starch, and Carbohydrates /29-33	549 . . .	Compounds containing sulfur or oxygen hetero ring compounds.
585* .	Chemistry of Hydrocarbon Compounds /1-14, 240-242, Hydrocarbon mixtures	552 . . .	Azides. Triphenylmethanes, quinones, hydroquinones, steroids.
252* .	Compositions /1, Miscellaneous (i.e., compositions not elsewhere provided for anywhere in the USPCS.)	554 . . .	Fatty compounds having an acid moiety which contains the carboxyl of a carboxylic acid, salt, ester, or amide group bonded directly to one end of an acyclic chain of at least seven (7) uninterrupted carbons.
423* .	Chemistry of Inorganic Compounds	556 . . .	Heavy metal, aluminum, or silicon organic compounds.
		558 . . .	Esters
		560 . . .	Esters
		562 . . .	Organic acids (e.g., carboxylic, sulphonic), acid halides, acid anhydrides, Selenium or Tellurium compounds.)
		564 . . .	Amino nitrogen containing compounds (e.g., urea, sulfonamides, nitrosamines, oxyamines, etc., and salts thereof).
		568 . . .	Boron, Phosphorus, Sulfur, or Oxygen compounds

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260*	. . C-metal (light metal bonded directly to carbon)= /665, e.g.; Grignard type, Beryllium containing, 1, 4-disodium naphthalene, phenyl magnesium chloride	118 .	Coating Apparatus
570	. . Halogen containing organic compounds=	419 .	Powder Metallurgy Processes
585*	. Chemistry of Hydrocarbon Compounds /15-27, 250-899 ADD THESE SUBCLASSES	148*.	Metal Treatment /95-714, Processes of modifying or maintaining the internal physical structure (i.e., microstructure) or chemical properties of metal, processes of reactive coating of metal and processes of chemical-heat removing (e.g., flame-cutting) or burning of metal. (However, if metal casting, fusing bonding, machining, or working is involved, there is a requirement of significant heat treatment as described in Section III, A, of the Class 148 definition.)
987	. Organic Compounds Containing a BI, SB, AS, or P Atom or Containing a Metal Atom of the 6 th or 8 th Group of the Periodic System (Note: Does not accept applications.)	75*.	Specialized Metallurgical Processes, Compositions for Use Therein, Consolidated Metal Powder Compositions and Loose Metal Particulate Mixtures /330-773, processes.
260*.	Chemistry of Carbon Compounds /1, MISCELLANEOUS (i.e., carbon compounds not elsewhere provided for anywhere in the USPCS).	205 .	Electrolysis: Processes, Compositions Used Therein, and Methods of Preparing the Compositions
CHEMICAL PROCESSING TECHNOLOGIES: PROCESSES AND APPARATUS (E.G., WAVE ENERGY, METALLURGY, SEPARATORY CONTACTING)		204 .	Chemistry: Electrical and Wave Energy
438 .	Semiconductor Device Manufacturing: Process	266 .	Metallurgical Apparatus
117 .	Single-Crystal, Oriented-Crystal, and Epitaxy Growth Processes; Non-Coating Apparatus Therefor	65 .	Glass Manufacturing
216 .	Etching A Substrate: Processes	264 .	Plastic and Nonmetallic Article Shaping or Treating: Processes
156 .	Adhesive Bonding and Miscellaneous Chemical Manufacture	162 .	Paper Making and Fiber Liberation
427 .	Coating Processes (See also Group III, Class 101 for printing apparatus.)	48 .	Gas: Heating and Illuminating
		208*.	Mineral Oils: Processes and Products (Except subclasses 1-2, 14-23)
		196 .	Mineral Oils: Apparatus

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127*	Sugar, Starch, and Carbohydrates /1-28, 34-71 (Apparatus and processes peculiar to the manufacture of carbohydrates; extraction, purification, and crystallization of sugars; extraction, purification, and treatment of starch; manufacture of sugars by hydrolysis of carbohydrates.)		
134 .	Cleaning and Liquid Contact with Solids /1-42 (Processes.) (See also Group III, Class 134 for apparatus.)		
422 .	Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing		
95 .	Gas Separation: Processes		
96 .	Gas Separation: Apparatus		
55* .	Gas Separation (except subclasses 522-528)		
261 .	Gas and Liquid Contact Apparatus		
201 .	Distillation: Processes, Thermolytic		
202 .	Distillation: Apparatus		
203 .	Distillation: Processes, Separatory		
159 .	Concentrating Evaporators		
210* .	Liquid Purification or Separation (except subclasses 500.1-510.1) (See STOCK MATERIALS: ARTICLES for filter material.)		
23 .	Chemistry: Physical Processes		
588 .	Hazardous or Toxic Waste Destruction or Containment		

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505*	SUPERCONDUCTOR TECHNOLOGY: APPARATUS, MATERIAL, PROCESS (Involving Material Superconducting above 30k)	178 . .	Telegraphy
		375 . .	Pulse or Digital Communications
977*	NANOTECHNOLOGY (Note: Does not accept applications.)	455 . .	Telecommunications
376 .	Induced Nuclear Reactions: Processes, Systems, and Elements	341 . .	Coded Data Generation or Conversion
976 .	Nuclear Technology (Note: Does not accept applications.)	367 . .	Communications, Electrical: Acoustic Wave Systems and Devices
380 .	Cryptography	334 . .	Tuners
340 .	Communications: Electrical	332 . .	Modulators
348 . .	Television	329 . .	Demodulators
725 . .	Interactive video distribution systems	116 .	Signals and Indicators
386 . .	Television Signal Processing for Dynamic Recording or Reproducing	CALCULATORS, COMPUTERS, OR DATA PROCESSING SYSTEMS	
358 . .	Facsimile and Static Presentation Processing	714 .	Error Detection/Correction and Fault Detection/Recovery
382 . .	Image Analysis	708*.	Electrical Computers: Arithmetic Processing and Calculating /530-534 (arithmetical error detection or correction)
345 . .	Computer Graphics Processing, Operator Interface Processing, and Selective Visual Display Systems	235*.	Registers /375-386 (Systems Controlled by Data Bearing Records)
342 . .	Communications: Directive Radio Wave Systems and Devices (e.g., Radar, Radio Navigation)	235*.	Registers /400-418 (Ordnance or Weapon System Computers)
343 . .	Communications: Radio Wave Antennas		(See Section II for ammunition and weapons in general.)
370 . .	Multiplex Communications	235*.	Registers /419-434
381 . .	Electrical Audio Signal Processing Systems and Devices		
379 . .	Telephonic Communications		

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701	Data Processing: Vehicles, Navigation, and Relative Location	710	Electrical Computers and Digital Data Processing Systems: Input/Output
702	Data Processing: Measuring, Calibrating, or Testing	711	Electrical Computers and Digital Processing Systems: Memory
717	Data Processing: Software Development, Installation, and Management	712	Electrical Computers and Digital Processing Systems: Processing Architectures and Instruction Processing (E.G., Processors)
704	Data Processing: Speech Signal Processing, Linguistics, Language Translation, and Audio Compression/Decompression	713	Electrical Computers and Digital Processing Systems: Support
705	Data Processing: Financial, Business Practice, Management, or Cost/Price Determination	726	Information Security
706	Data Processing: Artificial Intelligence	377	Electrical Pulse Counters, Pulse Dividers, or Shift Registers: Circuits and Systems
707	Data Processing: Database and File Management, Data Structures, or Document Processing	902	Electronic Funds Transfer
715	Data Processing: Presentation Processing of Document, Operator Interface Processing, and Screen Saver Display Processing	235*	Registers /61-(Mechanical Calculators)
INFORMATION STORAGE			
716	Data Processing: Design and Analysis of Circuit or Semiconductor Mask	720	Dynamic Optical Information Storage or Retrieval
708	Electrical Computers: Arithmetic Processing and Calculating	369	Dynamic Information Storage or Retrieval
709	Electrical Computers and Digital Processing Systems: Multiple Computer or Process Coordinating	360	Dynamic Magnetic Information Storage or Retrieval
718	Electrical Computers and Digital Processing Systems: Virtual Machine Task or Process Management or Task Management/Control	365	Static Information Storage and Retrieval
719	Electrical Computers and Digital Processing Systems: Interprogram Communication or Interprocess Communication (Ipc)	235*	Registers
		347	Incremental Printing of Symbolic Information
		346	Recorders

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MEASURING, TESTING, PRECISION INSTRUMENTS		351 .	Optics: Eye Examining, Vision Testing and Correcting
(See also Group I, Class 436, Chemistry: Analytical and Immunological Testing.)		352 .	Optics: Motion Pictures
73 .	Measuring and Testing	396 .	Photography (See Class 430, Radiation Imagery Chemistry: Process, Composition, or Product Thereof, in Group I.)
324 . .	Electricity: Measuring and Testing	355 .	Photocopying
250* .	Radiant Energy /250 Radio and Microwave Absorption Wavemeters	399 . .	Electrophotography
356 . .	Optics: Measuring and Testing	353 .	Optics: Image Projectors
368 . .	Horology: Time Measuring Systems or Devices	362 .	Illumination
968 . .	Horology (Cross-Reference Art Collection) (Note: Does not accept applications)	84 .	Music (See also Class 116, Signals and Indicators, subclasses 137 through 172; Class 340, Communications: Electrical, subclasses 384.1+.)
374 . .	Thermal Measuring and Testing	984 . .	Musical Instruments (Note: Does not accept applications)
177 . .	Weighing Scales	181 .	Acoustics
33 . .	Geometrical Instruments	361* .	Electricity: Electrical Systems and Devices (Nonelectrical device with electrical operation or control is classified with nonelectrical device.)
250* .	Radiant Energy (See also Group I, Class 204, Chemistry: Electrical and Wave Energy.)	ELECTRICITY, HEATING	
378 . .	X-Ray or Gamma Ray Systems or Devices	219 .	Electric Heating (See also Heating and Cooling, in Group III, for nonelectric heating)
372 .	Coherent Light Generators	392 .	Electric Resistance Heating Devices
385 .	Optical Waveguides	373 .	Industrial Electric Heating Furnaces
349 .	Liquid Crystal Cells, Elements and Systems		
359 .	Optics: Systems (Including Communication) and Elements		
398 .	Optical Communications		

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ELECTRO-MECHANICAL SYSTEMS		314 . .	Electric Lamp and Discharge Devices: Consumable Electrodes
290 .	Prime-Mover Dynamo Plants (See also Group III, Motors, Engines, Pumps.)	322 . .	Electricity: Single Generator Systems
318 .	Electricity: Motive Power Systems	307* . .	Electrical Transmission and Interconnection Systems /1- 87, 326-157 Miscellaneous Systems
388 .	Electricity: Motor Control Systems	313 . .	Electric Lamp and Discharge Devices
187* .	Elevator, Industrial Lift Truck, or Stationary Lift /247, 248, 277 -299, 316, 317, 380-399, for Vehicle (electric control) (See also Group III, Class 187.)	257 . .	Active Solid-State Devices (e.g., Transistors, Solid-State Diodes)
ELECTRICITY: SUBSYSTEMS, COMPONENTS, OR ELEMENTS		310 . .	Electrical Generator or Motor Structure
320 .	Electricity: Battery or Capacitor Charging and Discharging	335 . .	Electricity: Magnetically Operated Switches, Magnets, and Electromagnets (See also Class 200, Electricity: Circuit Makers and Breakers, in this group, for mechanically actuated switches in general, and Class 337, Electricity: Electrothermally or Thermally Actuated Switches, in this group, for thermally actuated switch structures.)
331 .	Oscillators	337 . .	Electricity: Electrothermally or Thermally Actuated Switches (See also Class 200, Electricity: Circuit Makers and Breakers, in this group, for mechanically actuated switches in general, and Class 335, Electricity: Magnetically Operated Switches, Magnets, and Electromagnets, in this group, for magnetically actuated switch structures.)
330 .	Amplifiers	336 . .	Inductor Devices
307* .	Electrical Transmission or Interconnection Systems /401-424 Miscellaneous Nonlinear Reactor	361* . .	Electricity: Electrical Systems and Devices /500+ (Electrolytic Systems or Devices) (See also Group I, Class 136, Batteries: Thermoelectric and Photoelectric, and Class 204, Chemistry: Electrical and Wave Energy.)
327 . .	Miscellaneous Active Electrical Nonlinear Devices, Circuits, and Systems		
326 . .	Electronic Digital Logic Circuitry		
333 . .	Wave Transmission Lines and Networks		
363 . .	Electric Power Conversion Systems		
323 . .	Electricity: Power Supply or Regulation Systems		
315 . .	Electric Lamp and Discharge Devices: Systems		

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361* . .	Electricity: Electrical Systems and Devices /271+ (Electrostatic Capacitors)	149 .	Explosive and Thermic Compositions or Charges
338 . .	Electrical Resistors	86 .	Ammunition and Explosive-Charge Making
200 . .	Electricity: Circuit Makers and Breakers (See also Class 335, Electricity: Magnetically Operated Switches, Magnets, and Electromagnets, in this group, for magnetically actuated switches, and Class 337, Electricity: Electrothermally or Thermally Actuated Switches, in this group, for thermally actuated switches.)		
218 . .	High-Voltage Switches With Arc Preventing or Extinguishing Devices		
174 . .	Electricity: Conductors and Insulators		

AMMUNITION, WEAPONS

- 60* . Power Plants (chemical reaction motors)
/205-220
(See also Group III, Class 60, Power Plants, generally.)
- 89 . Ordnance
(See also Group III, Class 124, Mechanical Guns and Projectors.)
- 244* . Aeronautics (Aerial Torpedoes)
/14
(See also Group III, Class 244, Aeronautics.)
- 114* . Ships (Torpedoes)
/20.1-25
(See also Group III, Class 114, Ships.)
- 42 . Firearms
- 102 . Ammunition and Explosives

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ClassSubjectClassSubject

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505*	SUPERCONDUCTOR TECHNOLOGY: APPARATUS, MATERIAL, PROCESS	40	.Card, Picture, and Sign Exhibiting
977*	NANOTECHNOLOGY (Note: Does not accept applications)	472	AMUSEMENT DEVICES
	BODY TREATMENT CARE, ADORNMENT (See also Group I, Class 424, Drug, Bio- Affecting and Body Treating Compositions.)	463	.Amusement Devices: Games
433	.Dentistry	473	. .Games Using Tangible Projectile
623	.Prosthesis (i.e., Artificial Body Members), Parts Thereof, or Aids and Accessories Therefor	273	. .Amusement Devices: Games
128	.Surgery	446	.Amusement Devices: Toys
600	.Surgery	124	.Mechanical Guns and Projectors
601	.Surgery: Kinesitherapy	482	.Exercise Devices
602	.Surgery: Splint, Brace, or Bandage	99	FOODS AND BEVERAGES: APPARATUS (See also Group I, Class 426, for food compositions and processes.)
604	.Surgery		HEATING, COOLING (See also Group II, Class 219, for electric heating.)
606	.Surgery	62	.Refrigeration
607	.Surgery: Light, Thermal, and Electrical Application	237	.Heating Systems
132	.Toilet	236	.Automatic Temperature and Humidity Regulation
63	.Jewelry	432	.Heating
27	.Undertaking	122	.Liquid Heaters and Vaporizers
	APPAREL AND RELATED ARTS	126	.Stoves and Furnaces
2	.Apparel	431	.Combustion
223	. .Apparel Apparatus	110	. .Furnaces (Solid or Combined Fuels)
450	. .Foundation Garments	165	.Heat Exchange
36	.Boots, Shoes, and Leggings	BUILDINGS	
12	. .Boot and Shoe Making	135	.Tent, Canopy, Umbrella, or Cane
69	.Leather Manufactures	109	.Safes, Bank Protection, or a Related Device
112	.Sewing	52	.Static Structures (e.g., Buildings)
	PLANT AND ANIMAL HUSBANDRY	14	.Bridges
449	.Bee Culture	404	. .Road Structure, Process, or Apparatus
452	.Butchering	182	. .Fire Escape, Ladder, or Scaffold
43	.Fishing, Trapping, and Vermin Destroying	220	RECEPTACLES
47	.Plant Husbandry	312	.Supports: Cabinet Structure
119	.Animal Husbandry	190	.Trunks and Hand-Carried Luggage
54	. .Harness for Working Animal	206	.Special Receptacle or Package
168	. .Farriery	215	.Bottles and Jars
231	. .Whips and Whip Apparatus	229	.Envelopes, Wrappers, and Paperboard Boxes
	TEACHING	150	.Purses, Wallets, and Protective Covers
434	.Education and Demonstration	383	.Flexible Bags
		217	.Wooden Receptacles
		248	SUPPORTS

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5	.Beds		
297	.Chairs and Seats		DISPENSING
211	.Supports: Racks	453	.Coin Handling
108	.Horizontally Supported Planar Surfaces	141	.Fluent Material Handling, with Receiver or Receiver Coacting Means
	CLOSURES, PARTITIONS, PANEL (Building and receptacle classes for other closures, partitions, and panels)	169	.Fire Extinguishers
267*	.Spring Devices (Support Type) / 80-112	291	.Track Sanders
49	.Movable or Removable Closures	239	.Fluid Sprinkling, Spraying, and Diffusing
160	.Flexible or Portable Closure, Partition, or Panel	222	.Dispensing
256	.Fences	221	.Article Dispensing
	TEXTILES	232	.Deposit and Collection Receptacles
8*	.Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.)	414	MATERIAL OR ARTICLE HANDLING
289	.Knots and Knot Tying	258	.Railway Mail Delivery
28	.Textiles: Manufacturing	186	.Merchandising
26	.Textiles: Cloth Finishing	406	.Conveyors: Fluid Current
66	.Textiles: Knitting	212	.Traversing Hoists
87	.Textiles: Braiding, Netting, and Lace Making	198	.Conveyors: Power-Driven
139	.Textiles: Weaving	187*	.Elevators, Industrial Lift Truck or Stationary Lift for Vehicle /200-246, 249-298, 300-315, 318-379, 400-414 (See also Group II, Electric control.)
57	.Textiles: Spinning, Twisting, and Twining	193	.Conveyors, Chutes, Skids, Guides, and Ways
19	.Textiles: Fiber Preparation	224	.Package and Article Carriers
	EARTH WORKING AND AGRICULTURAL MACHINERY	294	.Handling: Hand and Hoist-Line Implements
405	.Hydraulic and Earth Engineering	901	.Robots (Note: Does not accept applications.)
299	.Mining or In Situ Disintegration of Hard Material	137	FLUID HANDLING
166	.Wells	454	.Ventilation
175	.Boring or Penetrating the Earth	4	.Baths, Closets, Sinks, and Spitoons
111	.Planting	138	.Pipes and Tubular Conduits
171	.Unearthing Plants or Buried Objects	251	.Valves and Valve Actuation
37	.Excavating		VEHICLES
56	.Harvesters	244*	.Aeronautics /1-13, 15-153A (See also Group II, Class 244/14, for aerial torpedoes.)
172	.Earth Working	114	.Ships /255-19 and 26-382 (See also Group II, Class 114/20.1-25, for ship launched torpedoes.)
194	CHECK-ACTUATED CONTROL MECHANISMS	441	.Buoys, Rafts, and Aquatic Devices
		440	.Marine Propulsion
		191	.Electricity: Transmission to Vehicles
		104	.Railways
		246	.Railway Switches and Signals

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Note 2: Class numbers followed by an asterisk (e.g., 250*) indicate a class that appears more than once in this list.

<u>Class</u>	<u>Subject</u>	<u>Class</u>	<u>Subject</u>
105	. Railway Rolling Stock		
238	. Railways: Surface Track		
280	. Land Vehicles (e.g., chassis and running gear)		MANUFACTURING, ASSEMBLING, INCLUDING SOME CORRELATIVE MISCELLANEOUS PRODUCTS
298	. Land Vehicles: Dumping		
180	. Motor Vehicles	164	. Metal Founding
903	. Hybrid Electric Vehicles (HEVs) (Note: Does not accept applications)	266	. Metallurgical Apparatus
296	. Land Vehicles: Bodies and Tops	29*	. Metal Working (General Manufacturing) /1.1-25.42, 81.01-91.8, 560, 560.1, 284
301	. Land Vehicles: Wheels and Axles	412	. Bookbinding: Process and Apparatus
295	. Railway Wheels and Axles	53	. Package Making
152	. Resilient Tires and Wheels	59	. Chain, Staple, and Horseshoe Making
305	. Wheel Substitutes for Land Vehicles	76	. Metal Tools and Implements, Making
213	. Railway Draft Appliances	79	. Button Making
278	. Land Vehicles: Animal Draft Appliances	493	. Manufacturing Container or Tube from Paper; or Other Manufacturing from a Sheet or Web
293	. Vehicle Fenders		
267*	. Spring Devices /2-68, 140.11-141.7	131	. Tobacco
410	. Freight Accommodation On Freight Carrier	147	. Coopering
	MOTORS, ENGINES, PUMPS (See also Group II, Electricity, for electric motors.)	157	. Wheelwright Machines
60	. Power Plants /200.1-204, 221-721 (See also Group II for chemical reaction motors, subclasses 205- 220.)	163	. Needle and Pin Making
123	. Internal-Combustion Engines	227	. Elongated-Member-Driving Apparatus
417	. Pumps	270	. Sheet-Material Associating
91	. Motors: Expansible Chamber Type	300	. Brush, Broom, and Mop Making
415	. Rotary Kinetic Fluid Motors or Pumps	445	. Electric Lamp or Space Discharge Component or Device Manufacturing
416	. Fluid Reaction Surfaces (i.e., Impellers)	29*	. Metal Working (Methods) /592-559
185	. Motors: Spring, Weight, or Animal Powered	29*	. Metal Working (Assembling Apparatus) /700-824
418	. Rotary Expansible Chamber Devices	29*	. Metal Working (Plural Diverse Manufacturing Apparatus) /650
92	. Expansible Chamber Devices		CUTTING, COMMINUTING, AND MACHINING
	COATING, PRINTING, AND PRINTED MATERIAL; STATIONERY, BOOKS	483	. Tool Changing
118	. Coating Apparatus	234	. Selective Cutting (e.g., Punching)
184	. Lubrication	460	. Crop Threshing or Separating
101	. Printing	241	. Solid Material Comminution or Disintegration
400	. Typewriting Machines	470	. Threaded, Headed Fastener, or Washer Making: Process and Apparatus
199	. Type Casting	29*	. Metal Working (Miscellaneous Machining) /76.1-77, 33R-33T
276	. Typesetting	407	. Cutters, for Shaping
401	. Coating Implements with Material Supply	30	. Cutlery
281	. Books, Strips and Leaves	451	. Abrading
462	. Books, Strips, and Leaves for Manifolding	408	. Cutting by Use of Rotating Axially Moving Tool
283	. Printed Matter		

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<u>Class</u>	<u>Subject</u>	<u>Class</u>	<u>Subject</u>
82	.Turning	474	.Endless Belt Power Transmission Systems or Component
83	.Cutting	476	.Friction Gear Transmission Systems or Components
409	.Gear Cutting, Milling, or Planing	477	.Interrelated Power Delivery Controls, Including Engine Control
125	.Stone Working	492	.Roll or Roller
144	.Woodworking	464	.Rotary Shafts, Gudgeons, Housings, and Flexible Couplings for Rotary Shafts
142	. .Wood Turning	384	.Bearings
225	.Severing by Tearing or Breaking	173	.Tool Driving or Impacting
72	.Metal Deforming	188	.Brakes
425	.Plastic Article or Earthenware Shaping or Treating: Apparatus	192	.Clutches and Power-Stop Control
100	.Presses	254*	.Implements or Apparatus for Applying Pushing or Pulling Force (Force Multipliers) /1-134.7, 418-427
413	.Sheet Metal Container Making	269	.Work Holders
140	.Wireworking	303	.Fluid-Pressure Brake and Analogous Systems
228	.Metal Fusion Bonding	16*	MISCELLANEOUS HARDWARE /2.1-220, 400-404
249	.Static Molds	70	.Locks
	MISCELLANEOUS TREATING (See Group I for chemical treatment and physical separation.)	267*	.Spring Devices /1.5, 69-140, 142-182
494	.Imperforate Bowl: Centrifugal Separators		TOOLS
209	.Classifying, Separating, and Assorting Solids	7	.Compound Tools
366	.Agitating	29*	.Metal Working (Assembling Devices) /213.1-283
134*	.Cleaning and Liquid Contact with Solids /43-201 (See also Group I for cleaning processes.)	81	.Tools
34	. .Drying and Gas or Vapor Contact with Solids	403	JOINTS AND CONNECTIONS
68	.Textiles: Fluid Treating Apparatus	439	.Electrical Connectors
38	.Textiles: Ironing or Smoothing	285	.Pipe Joints or Couplings
15	.Brushing, Scrubbing, and General Cleaning	16*	.Miscellaneous Hardware (Hinges) /221-392
	HANDLING OR STORING SHEETS, WEBS, STRANDS, AND CABLE	279	.Chucks and Sockets
402	.Binder Device Releasably Engaging Aperture or Notch of Sheet	277	.Seal for a Joint or Juncture
226	.Advancing Material of Indeterminate Length		FASTENINGS
242	.Winding, Tensioning, or Guiding	292	.Closure Fasteners
254*	.Implements or Apparatus for Applying Pushing or Pulling Force (Cable Hauling or Strand Placing) /199-417	24	.Buckles, Buttons, Clasps, etc.
271	.Sheet Feeding or Delivering	411	.Expanded, Threaded, Driven, Headed, Tool-Deformed, or Locked-Threaded Fastener
74	MACHINE ELEMENT OR MECHANISM		
475	.Planetary Gear Transmission Systems or Components		

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<u>Class</u>	<u>Subject</u>	<u>Class</u>	<u>Subject</u>
D1	EDIBLE PRODUCTS	D20	SALES AND ADVERTISING EQUIPMENT
D2	APPAREL AND HABERDASHERY	D21	GAMES, TOYS, AND SPORTS GOODS
D3	TRAVEL GOODS AND PERSONAL BELONGINGS	D22	ARMS, PYROTECHNICS, HUNTING AND FISHING EQUIPMENT
D4	BRUSHWARE	D23	ENVIRONMENTAL HEATING AND COOLING; FLUID HANDLING AND SANITARY EQUIPMENT
D5	TEXTILE OR PAPER YARD GOODS; SHEET MATERIAL	D24	MEDICAL AND LABORATORY EQUIPMENT
D6	FURNISHINGS	D25	BUILDING UNITS AND CONSTRUCTION ELEMENTS
D7	EQUIPMENT FOR PREPARING OR SERVING FOOD OR DRINK NOT ELSEWHERE SPECIFIED	D26	LIGHTING
D8	TOOLS AND HARDWARE	D27	TOBACCO AND SMOKERS' SUPPLIES
D9	PACKAGES AND CONTAINERS FOR GOODS	D28	COSMETIC PRODUCTS AND TOILET ARTICLES
D10	MEASURING, TESTING, OR SIGNALLING INSTRUMENTS	D29	EQUIPMENT FOR SAFETY, PROTECTION, AND RESCUE
D11	JEWELRY, SYMBOLIC INSIGNIA, AND ORNAMENTS	D30	ANIMAL HUSBANDRY
D12	TRANSPORTATION	D32	WASHING, CLEANING, OR DRYING MACHINE
D13	EQUIPMENT FOR PRODUCTION, DISTRIBUTION, OR TRANSFORMATION OF ENERGY	D34	MATERIAL OR ARTICLE HANDLING EQUIPMENT
D14	RECORDING, COMMUNICATION, OR INFORMATION RETRIEVAL EQUIPMENT	D99	MISCELLANEOUS
D15	MACHINES NOT ELSEWHERE SPECIFIED		
D16	PHOTOGRAPHY AND OPTICAL EQUIPMENT		
D17	MUSICAL INSTRUMENTS		
D18	PRINTING AND OFFICE MACHINERY		
D19	OFFICE SUPPLIES; ARTISTS' AND TEACHERS' MATERIALS		

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