

CLASSES WITHIN THE U.S. CLASSIFICATION SYSTEM

Arranged by Related Subject Matter

Main Groups

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| 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 (Involving Material Superconducting above 30k)	51	.Abrasive Tool Making Process, Material, or Composition
977*	NANOTECHNOLOGY (Note: Does not accept applications)	429	.Chemistry: Electrical Current Producing Apparatus, Product, and Process
		136	.Batteries: Thermoelectric and Photoelectric
		428*	.Stock Material or Miscellaneous Articles /1.1-223
	LIFE AND AGRICULTURAL SCIENCES AND TESTING METHODS	442	.Fabric (Woven, Knitted, or Nonwoven Textile or Cloth, Etc.)
800	.Multicellular Living Organisms and Unmodified Parts Thereof and Related Processes	428*	.Stock Material or Miscellaneous Articles /292.1-543
504	.Plant Protecting and Regulating Compositions		COMPOSITIONS AND SYNTHETIC RESINS; CHEMICAL COMPOUNDS
424	.Drug, Bio-Affecting and Body Treating Compositions	508	.Solid Anti-Friction Devices, Materials Therefor, Lubricant or Separant Compositions for Moving Solid Surfaces, and Miscellaneous Mineral Oil Compositions
514	.Drug, Bio-Affecting and Body Treating Compositions		
71	.Chemistry: Fertilizers	44	.Fuel and Related Compositions
506	.Combinatorial Chemistry Technology: Method, Library, Apparatus	148*	.Metal Treatment /22-30, Compositions (employed in the treatment of solid metal, e.g., fluxes, protective paint on localized areas during carburizing or nitriding treatments.)
435	.Chemistry: Molecular Biology and Microbiology		
436	.Chemistry: Analytical and Immunological Testing	252*	.Compositions /2-8.05, Fire-Extinguishing /601-611, Fire Retarding
426	.Food or Edible Material: Processes, Compositions, and Products	507	.Earth Boring, Well Treating, and Oil Field Chemistry
PLT	.Plants	252*	.Compositions /8.57-88.2 (Compositions of various specified special uses or functions.)
	STOCK MATERIALS; ARTICLES (E.G., LAYERED PRODUCTS, FILTERS, BATTERIES)	510	.Cleaning Compositions for Solid Surfaces, Auxiliary Compositions Therefor, or Processes of Preparing the Compositions
503	.Record Receiver Having Plural Interactive Leaves or a Colorless Color Former, Method of Use, or Developer Therefor	252*	.Compositions /175-194 (Compositions of various specified special uses or functions.)
148*	.Metal Treatment /33-33.6, Barrier layer stock material, P-N type. /400-442 (Stock materials of diverse types; see subclass definition.)	502	.Catalyst, Solid Sorbent, or Support Therefor: Product or Process of Making
430	.Radiation Imagery Chemistry: Process, Composition, or Product Thereof	252*	.Compositions /478-193, 380-407 (Compositions of various specified special uses
210*	.Liquid Purification or Separation /500.1-510.1, Filter material (compositions or materials for filtering)		
55*	.Gas Separation /522-528, Specific media material.		

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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.

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252*	or functions.) (See schedule for details.) .Compositions /408.1-183.16 (Compositions of various specified special uses or functions.)	523	preparing or treating a solid polymer utilizing wave energy. .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 reformed reaction products mixed with ethylenically unsaturated reactant; mixing plural solid polymers or chemically treating solid polymer, or product thereof.
501	.Compositions: Ceramic	526	.Reaction zone features, and polymers from only ethylenic monomers or processes of polymerizing, polymerizable compositions containing only ethylene monomers as reactants or processes of preparing.
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.)	527	.Solid polymers from specialized reactants (e.g., various cellular materials, protein, carbohydrate, tannin, lignin, coal, bituminous, natural resins), processes of preparing.
75*	.Specialized Metallurgical Processes, Compositions for Use Therein, Consolidated Metal Powder Compositions, and Loose Metal Particulate Mixtures /300-254, Compositions	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.
420	.Alloys or Metallic Compositions	208*	.Mineral Oils: Processes and Products /1-2, 14-23 (Mineral oil compositions.)
518	.Chemistry: Fischer-Tropsch Processes; or Purification or Recovery of Products Thereof	512	.Perfume Compositions
520-528	Series of Classes. Synthetic Resins or Natural Rubbers	516	.Colloid Systems and Wetting Agents; Subcombinations Thereof; Processes of Making, Stabilizing, Breaking, or Inhibiting
520	SYNTHETIC RESINS OR NATURAL RUBBERS /1 (miscellaneous subclass, i.e., synthetic resins or natural rubbers not elsewhere provided for anywhere in the USPC.)	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.)
521	.Ion-Exchange Polymers, Cellular Products, Waste Polymer Recovery.		
522	.Compositions to be polymerized or modified by wave energy wherein said composition contains a rate-affecting material; or processes of		

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423*	.Chemistry of Inorganic Compounds /265-275 (Compositions perfecting inorganic compounds.)		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.
127*	.Sugar, Starch, and Carbohydrates /29-33	556	.Heavy metal, aluminum, or silicon organic compounds
585*	.Chemistry of Hydrocarbon Com- pounds /1-14, 240-242, Hydrocarbon mixtures	558	.Esters
252*	.Compositions /1, Miscellaneous (i.e., compositions not elsewhere provided for anywhere in the USPCS.)	560	.Esters
423*	.Chemistry of Inorganic Compounds (except subclasses 265-275)	562	.Organic acids (e.g., carboxylic, sulphonic), acid halides, acid anhydrides, Selenium or Tellurium compounds.)
530	.Chemistry: Natural Resins or Derivatives; Peptides or Proteins; Lignins or Reaction Products There- of	564	.Amino nitrogen containing compounds (e.g., urea, sulfona- mides, nitrosamines, oxyamines, etc., and salts thereof).
930	.Peptide or Protein Sequence (Note: Does not accept applications.)	568	.Boron, Phosphorus, Sulfur, or Oxygen compounds
532- 570 532	Series of Classes. Organic Com- pounds ORGANIC COMPOUNDS /1 (miscellaneous subclass, i.e., organic compounds not elsewhere provided for anywhere in the USPC)	260*	.Chemistry of Carbon Compounds /665 C-metal (light metal bonded directly to carbon) (e.g.; Grignard type, Beryllium containing, 1, 4-disodium naphthalene, phenyl magnesium chloride compounds)
534	.Radioactive or Rare Earth Metal Compounds; Azo and Diazo Compounds.	570	.Halogen containing organic com- pounds
536	.Carbohydrates or derivatives (e.g., pectin, glycosides, RNA, DNA, cel- lulose, starch, polysaccharides, etc.).	585*	.Chemistry of Hydrocarbon Com- pounds /15-27, 250-899
540	.Heterocyclic carbon compounds; steroidal hetero compounds; four- membered lactams, azaporphyrins, nitrogen hetero rings of more than six members.	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.)
544	.Hetero ring is six-membered having two or more ring hetero atoms of which at least one is nitrogen (e.g., selenazines, etc.).	260*	.Chemistry of Carbon Compounds /1, MISCELLANEOUS (i.e., carbon compounds not elsewhere provided for anywhere in the USPCS)
546	.Six-membered ring with one hetero nitrogen and five carbons.		CHEMICAL PROCESSING TECHNOLOGIES: PROCESSES AND APPARATUS (E.G., WAVE ENERGY, METALLURGY, SEPARATORY CONTACTING)
548	.Five-, four-, or three-membered nitrogen hetero ring compounds.	438	.Semiconductor Device Manufactur- ing: Process
549	.Compounds containing sulfur or oxygen hetero ring compounds.	117	.Single-Crystal, Oriented-Crystal, and Epitaxy Growth Processes; Non- Coating Apparatus Therefor
552	.Azides. Triphenylmethanes, qui- nones, hydroquinones, steroids.	216	.Etching a Substrate: Processes
554	.Fatty compounds having an acid moiety which contains the carboxyl		

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156	.Adhesive Bonding and Miscellaneous Chemical Manufacture		Solids /1-42 (Processes)
427	.Coating Processes (See also Group III, Class 101 for printing apparatus.)		(See also Group III, Class 134 for apparatus.)
118*	.Coating Apparatus	422	.Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing
419	.Powder Metallurgy Processes	95	.Gas Separation: Processes
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.)	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.)
75*	.Specialized Metallurgical Processes, Compositions for Use Therein, Consolidated Metal Powder Compositions and Loose Metal Particulate Mixtures /330-773, processes	23	.Chemistry: Physical Processes
205	.Electrolysis: Processes, Compositions Used Therein, and Methods of Preparing the Compositions	588	.Hazardous or Toxic Waste Destruction or Containment
204	.Chemistry: Electrical and Wave Energy		
266*	.Metallurgical Apparatus		
65	.Glass Manufacturing		
264	.Plastic and Nonmetallic Article Shaping or Treating: Processes		
162	.Paper Making and Fiber Liberation		
48	.Gas: Heating and Illuminating		
208*	.Mineral Oils: Processes and Products (except subclasses 1-2, 14-23)		
196	.Mineral Oils: Apparatus		
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		

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505*	SUPERCONDUCTOR TECHNOLOGY: APPARATUS, MATERIAL, PROCESS (Involving Material Superconducting above 30k)		OR DATA PROCESSING SYSTEMS
		714	.Error Detection/Correction and Fault Detection/Recovery
977*	NANOTECHNOLOGY (Note: Does not accept applications.)	708*	.Electrical Computers: Arithmetic Processing and Calculating /530-534 (arithmetical error detection or correction)
376	INDUCED NUCLEAR REACTIONS: PROCESSES, SYSTEMS, AND ELEMENTS	235*	.Registers /400-418 (Ordnance or Weapon System Computers) (See Section II for ammunition and weapons in general.)
976	NUCLEAR TECHNOLOGY (Note: Does not accept applications.)		
380	CRYPTOGRAPHY	235*	.Registers /419-434
340	COMMUNICATIONS: ELECTRICAL	700	.Data Processing: Generic Control Systems or Specific Applications
348	.Television	701	.Data Processing: Vehicles, Navigation, and Relative Location
725	.Interactive Video Distribution Systems	702	.Data Processing: Measuring, Calibrating, or Testing
386	.Motion Video Signal Processing for Recording or Reproducing	703	.Data Processing: Structural Design, Modeling, Simulation, and Emulation
358	.Facsimile and Static Presentation Processing		
382	.Image Analysis	717	.Data Processing: Software Development, Installation, and Management
345	.Computer Graphics Processing and Selective Visual Display Systems	704	.Data Processing: Speech Signal Processing, Linguistics, Language Translation, and Audio Compression/Decompression
342	.Communications: Directive Radio Wave Systems and Devices (e.g., Radar, Radio Navigation)	705	.Data Processing: Financial, Business Practice, Management, or Cost/Price Determination
343	.Communications: Radio Wave Antennas	706	.Data Processing: Artificial Intelligence
370	.Multiplex Communications	707	.Data Processing: Database and File Management or Data Structures
381	.Electrical Audio Signal Processing Systems and Devices	715	.Data Processing: Presentation Processing of Document, Operator Interface Processing, and Screen Saver Display Processing
379	.Telephonic Communications		
178	.Telegraphy	716	.Computer-Aided Design and Analysis of Circuits and Semiconductor Masks
375	.Pulse or Digital Communications	708*	.Electrical Computers: Arithmetic Processing and Calculating
455	.Telecommunications		
341	.Coded Data Generation or Conversion	709	.Electrical Computers and Digital Processing Systems: Multicomputer Data Transferring
367	.Communications, Electrical: Acoustic Wave Systems and Devices		
334	.Tuners		
332	.Modulators		
329	.Demodulators		
116	SIGNALS AND INDICATORS		
	CALCULATORS, COMPUTERS,		

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718	.Electrical Computers and Digital Processing Systems: Virtual Machine Task or Process Management or Task Management/Control	850	(See also Group I, Class 436, Chemistry: Analytical and Immunological Testing.) .Scanning-Probe Techniques or Apparatus; Applications of Scanning-Probe Techniques, e.g., Scanning Probe Microscopy [SPM]
719	.Electrical Computers and Digital Processing Systems: Interprogram Communication or Interprocess Communication (IPC)	73	.Measuring and Testing
710	.Electrical Computers and Digital Data Processing Systems: Input/Output	324	. .Electricity: Measuring and Testing
711	.Electrical Computers and Digital Processing Systems: Memory	250*	.Radiant Energy /250 Radio and Microwave Absorption Wavemeters
712	.Electrical Computers and Digital Processing Systems: Processing Architectures and Instruction Processing (e.g., Processors)	356	. .Optics: Measuring and Testing
713	.Electrical Computers and Digital Processing Systems: Support	368	. .Horology: Time Measuring Systems or Devices
726	.Information Security	968	. .Horology (Note: Does not accept applications)
377	.Electrical Pulse Counters, Pulse Dividers, or Shift Registers: Circuits and Systems	374	. .Thermal Measuring and Testing
902	.Electronic Funds Transfer	177	. .Weighing Scales
235*	.Registers /61+ (Mechanical Calculators)	33	. .Geometrical Instruments
	INFORMATION STORAGE	250*	.Radiant Energy (See also Group I, Class 204, Chemistry: Electrical and Wave Energy.)
720	.Dynamic Optical Information Storage or Retrieval	378	. .X-Ray or Gamma Ray Systems or Devices
369	.Dynamic Information Storage or Retrieval	372	.Coherent Light Generators
360	.Dynamic Magnetic Information Storage or Retrieval	385	.Optical Waveguides
G9B	.Information Storage Based on Relative Movement Between Record Carrier and Transducer	349	.Liquid Crystal Cells, Elements and Systems
365	.Static Information Storage and Retrieval	359	.Optical: Systems and Elements
235*	.Registers	398	.Optical Communications
347	.Incremental Printing of Symbolic Information	351	.Optics: Eye Examining, Vision Testing and Correcting
346	.Recorders	352	.Optics: Motion Pictures
	MEASURING, TESTING, PRECISION INSTRUMENTS	396	.Photography (See Group I, Class 430, Radiation Imagery Chemistry: Process, Composition, or Product Thereof.)
		355	.Photocopying
		399	. .Electrophotography
		353	.Optics: Image Projectors
		362	.Illumination
		84	.Music (See also Class 116, Signals and Indicators, subclasses 137 through 172; Class 340, Communications: Electrical, subclasses 384.1+.)
		984	. .Musical Instruments (Note: Does not accept applica-

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	tions)		Devices: Systems
181	.Acoustics	314	. .Electric Lamp and Discharge
361*	.Electricity: Electrical Systems and Devices (Nonelectrical device with electrical operation or control is classified with nonelectrical device.)		Devices: Consumable Electrodes
		322	. .Electricity: Single Generator Systems
		307*	. .Electrical Transmission and Interconnection Systems /1- 87, 326-157 Miscellaneous Systems
	ELECTRICITY, HEATING		
219	.Electric Heating (See also Heating and Cooling, in Group III, for nonelectric heating)	313	. .Electric Lamp and Discharge Devices
392	.Electric Resistance Heating Devices	257	. .Active Solid-State Devices (e.g., Transistors, Solid-State Diodes)
373	.Industrial Electric Heating Furnaces	310	. . Electrical Generator or Motor Structure
	ELECTRO-MECHANICAL SYSTEMS	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.)
290	.Prime-Mover Dynamo Plants (See also Group III, Motors, Engines, Pumps.)		
318	.Electricity: Motive Power Systems		
388	.Electricity: Motor Control Systems		
187*	.Elevator, Industrial Lift Truck, or Stationary Lift for Vehicle /247, 248, 277-299, 316, 317, 380-399, for Vehicle (electric control) (See also Group III, Class 187.)	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.)
	ELECTRICITY: SUBSYSTEMS, COMPONENTS, OR ELEMENTS		
320	.Electricity: Battery or Capacitor Charging and Discharging		
331	.Oscillators		
330	.Amplifiers		
307*	.Electrical Transmission or Interconnection Systems /401-424 Miscellaneous Nonlinear Reactor		
327	. .Miscellaneous Active Electrical Nonlinear Devices, Circuits, and Systems	336	. .Inductor Devices
326	. .Electronic Digital Logic Circuitry	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.)
333	. .Wave Transmission Lines and Networks		
363	. .Electric Power Conversion Systems		
323	. .Electricity: Power Supply or Regulation Systems		
315	. .Electric Lamp and Discharge	361*	. .Electricity: Electrical Systems and Devices

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	/271+ (Electrostatic Capacitors)		
338	. .Electrical Resistors		
	/271+ (Electrostatic Capacitors)		
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 and Astronautics (Aerial Torpedoes)		
	/14		
	(See also Group III, Class 244, Aeronautics and Astronautics.)		
114*	.Ships (Torpedoes)		
	/20.1-25		
	(See also Group III, Class 114, Ships.)		
42	.Firearms		
102	.Ammunition and Explosives		
149	.Explosive and Thermic Compositions or Charges		
86	.Ammunition and Explosive-Charge Making		

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505*	SUPERCONDUCTOR TECHNOLOGY: APPARATUS, MATERIAL, PROCESS (Involving Material Superconducting above 30k)	54	.Harness for Working Animal
		168	.Farriery
		231	.Whips and Whip Apparatus
977*	NANOTECHNOLOGY (Note: Does not accept applications.)	434	TEACHING
		40	.Education and Demonstration
		472	.Card, Picture, or Sign Exhibiting
	BODY TREATMENT CARE, ADORNMENT (See also Group I, Class 424, Drug, Bio-Affecting and Body Treating Compositions.)	463	AMUSEMENT DEVICES
		473	.Amusement Devices: Games
		273	.Games Using Tangible Projectile
		446	.Amusement Devices: Games
		124	.Amusement Devices: Toys
		482	.Mechanical Guns and Projectors
433	.Dentistry		.Exercise Devices
623	.Prosthesis (i.e., Artificial Body Members), Parts Thereof, or Aids and Accessories Therefor	99	FOODS AND BEVERAGES: APPARATUS (See also Group I, Class 426, for food compositions and processes)
128	.Surgery		HEATING, COOLING (See also Group II, Class 219, for electric heating.)
600	.Surgery		
601	.Surgery: Kinesitherapy	62	.Refrigeration
602	.Surgery: Splint, Brace, or Bandage	237	.Heating Systems
604	.Surgery	236	.Automatic Temperature and Humidity Regulation
606	.Surgery		
607	.Surgery: Light, Thermal, and Electrical Application	432	.Heating
132	.Toilet	122	.Liquid Heaters and Vaporizers
63	.Jewelry	126	.Stoves and Furnaces
27	.Undertaking	431	.Combustion
	APPAREL AND RELATED ARTS	110	.Furnaces (Solid or combined fuels)
2	.Apparel	165	.Heat Exchange
223	.Apparel Apparatus		BUILDINGS
450	.Foundation Garments	135	.Tent, Canopy, Umbrella, or Cane
36	.Boots, Shoes, and Leggings	109	.Safes, Bank Protection, or a Related Device
12	.Boot and Shoe Making	52	.Static Structures (e.g., Buildings)
69	.Leather Manufactures	14	.Bridges
112	.Sewing	404	.Road Structure, Process, or Apparatus
	PLANT AND ANIMAL HUSBANDRY	182	.Fire Escape, Ladder, or Scaffold
449	.Bee Culture	220	RECEPTACLES
452	.Butchering	312	.Supports: Cabinet Structure
43	.Fishing, Trapping, and Vermin Destroying	190	.Trunks and Hand-Carried Luggage
47	.Plant Husbandry	206	.Special Receptacle or Package
119	.Animal Husbandry		

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215	.Bottles and Jars		Hard Material
229	.Envelopes, Wrappers, and Paper-board Boxes	166	.Wells
150	.Purses, Wallets, and Protective Covers	175	.Boring or Penetrating the Earth
383	.Flexible Bags	111	.Planting
217	.Wooden Receptacles	171	.Unearthing Plants or Buried Objects
248	SUPPORTS	37	.Excavating
5	.Beds	56	.Harvesters
297	.Chairs and Seats	172	.Earth Working
211	.Supports: Racks	194	CHECK-ACTUATED CONTROL MECHANISMS
108	.Horizontally Supported Planar Surfaces		DISPENSING
	CLOSURES, PARTITIONS, PANEL	453	.Coin Handling
	(Building and receptacle classes for other closures, partitions, and panels)	141	.Fluent Material Handling, with Receiver or Receiver Coacting Means
267*	.Spring Devices (Support Type) /80-112	169	.Fire Extinguishers
49	.Movable or Removable Closures	291	.Track Sanders
160	.Flexible or Portable Closure, Partition, or Panel	239	.Fluid Sprinkling, Spraying, and Diffusing
256	.Fences	222	.Dispensing
	TEXTILES	221	.Article Dispensing
8*	.Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.)	232	.Deposit and Collection Receptacles
245	.Wire Fabrics and Structure	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
299	.Mining or In Situ Disintegration of		(Note: Does not accept applications.)
		137	FLUID HANDLING
		454	.Ventilation
		4	.Baths, Closets, Sinks, and Spittoons
		138	.Pipes and Tubular Conduits
		251	.Valves and Valve Actuation

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<u>Class</u>	<u>Subject</u>	<u>Class</u>	<u>Subject</u>
	VEHICLES		Pumps
244*	.Aeronautics and Astronautics	416	.Fluid Reaction Surfaces (i.e., Impellers)
	/1-13, 15-153A (See also Group II, Class 244/14, for aerial torpedoes.)	185	.Motors: Spring, Weight, or Animal Powered
114*	.Ships	418	.Rotary Expansible Chamber Devices
	/255-19 and 26-382 (See also Group II, Class 114/20.1-25, for ship launched torpedoes.)	92	.Expansible Chamber Devices
441	. .Buoys, Rafts, and Aquatic Devices		COATING, PRINTING, AND PRINTED MATERIAL; STATIONERY, BOOKS
440	. .Marine Propulsion		.Coating Apparatus
191	.Electricity: Transmission to Vehicles	118*	.Lubrication
104	.Railways	184	.Printing
246	. .Railway Switches and Signals	101	. .Typewriting Machines
105	. .Railway Rolling Stock	400	. .Type Casting
238	. .Railways: Surface Track	199	. .Typesetting
280	.Land Vehicles (e.g., chassis and running gear)	276	.Coating Implements with Material Supply
298	. .Land Vehicles: Dumping	401	.Books, Strips, and Leaves
180	. .Motor Vehicles	281	.Books, Strips, and Leaves for Mani-folding
903	. .Hybrid Electric Vehicles (HEVs) (Note: Does not accept applications)	462	.Printed Matter
296	.Land Vehicles: Bodies and Tops	283	
301	.Land Vehicles: Wheels and Axles		MANUFACTURING, ASSEMBLING, INCLUDING SOME CORRELATIVE MISCELLANEOUS PRODUCTS
295	. .Railway Wheels and Axles		.Metal Founding
152	.Resilient Tires and Wheels	164	.Metallurgical Apparatus
305	.Wheel Substitutes for Land Vehicles	266*	.Metal Working (General Manufacturing)
213	.Railway Draft Appliances	29*	/2-25.42, 81.01-91.8, 560, 560.1, 284
278	. .Land Vehicles: Animal Draft Appliances		.Bookbinding: Process and Apparatus
293	.Vehicle Fenders	412	.Package Making
267*	.Spring Devices	53	.Chain, Staple, and Horseshoe Making
	/2-68, 140.11-141.7	59	.Metal Tools and Implements, Making
410	.Freight Accommodation on Freight Carrier	76	.Button Making
	MOTORS, ENGINES, PUMPS	79	.Manufacturing Container or Tube from Paper; or Other Manufacturing from a Sheet or Web
	(See also Group II, Electricity, for electric motors.)	493	.Tobacco
60*	.Power Plants		.Coopering
	/200.1-204, 221-721 (See also Group II for chemical reaction motors, subclasses 205-220.)	131	.Wheelwright Machines
123	.Internal-Combustion Engines	147	.Needle and Pin Making
417	.Pumps	157	.Elongated-Member-Driving Appa-
91	.Motors: Expansible Chamber Type	163	
415	.Rotary Kinetic Fluid Motors or	227	

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<u>Class</u>	<u>Subject</u>	<u>Class</u>	<u>Subject</u>
	ratus	249	.Static Molds
270	.Sheet-Material Associating		
300	.Brush, Broom, and Mop Making		MISCELLANEOUS TREATING
445	.Electric Lamp or Space Discharge Component or Device Manufactur- ing		(See Group I for chemical treatment and physical separation.)
29*	.Metal Working (Methods) /592-559	494	.Imperforate Bowl: Centrifugal Separators
29*	.Metal Working (Assembling Apparatus) /700-824	209	.Classifying, Separating, and Assort- ing Solids
29*	.Metal Working (Plural Diverse Manufacturing Ap- paratus) /650	366	.Agitating
		134*	.Cleaning and Liquid Contact with Solids /43-201 (See also Group I for cleaning processes.)
	CUTTING, COMMUNUTING, AND MACHINING	34	.Drying and Gas or Vapor Contact with Solids
483	.Tool Changing	68	.Textiles: Fluid Treating Apparatus
234	.Selective Cutting (e.g., Punching)	38	.Textiles: Ironing or Smoothing
460	.Crop Threshing or Separating	15	.Brushing, Scrubbing, and General Cleaning
241	.Solid Material Comminution or Disintegration		
470	.Threaded, Headed Fastener, or Washer Making: Process and Ap- paratus		HANDLING OR STORING SHEETS, WEBS, STRANDS, AND CABLE
29*	.Metal Working (Filing) /76.1-77	402	.Binder Device Releasably Engaging Aperture or Notch of Sheet
29*	.Metal Working (Plural Diverse Manufacturing Ap- paratus Including Means For Metal Shaping or Assembling) /33R-33T	226	.Advancing Material of Indetermi- nate Length
407	.Cutters, for Shaping	242	.Winding, Tensioning, or Guiding
30	.Cutlery	254*	.Implements or Apparatus for Applying Pushing or Pulling Force (Cable Hauling or Strand Placing) /199-417
451	.Abrading		
408	.Cutting by Use of Rotating Axially Moving Tool	271	.Sheet Feeding or Delivering
82	.Turning	74	MACHINE ELEMENT OR MECHANISM
83	.Cutting		
409	.Gear Cutting, Milling, or Planing	475	.Planetary Gear Transmission Sys- tems or Components
125	.Stone Working	474	.Endless Belt Power Transmission Systems or Components
144	.Woodworking	476	.Friction Gear Transmission Systems or Components
142	.Wood Turning	477	.Interrelated Power Delivery Con- trols, Including Engine Control
225	.Severing by Tearing or Breaking	492	.Roll or Roller
72	.Metal Deforming	464	.Rotary Shafts, Gudgeons, Housings, and Flexible Couplings for Rotary Shafts
425	.Plastic Article or Earthenware Shaping or Treating: Apparatus		
100	.Presses		
413	.Sheet Metal Container Making		
140	.Wireworking		
228	.Metal Fusion Bonding		

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<u>Class</u>	<u>Subject</u>	<u>Class</u>	<u>Subject</u>
384	.Bearings		
173	.Tool Driving or Impacting		
188	.Brakes		
192	.Clutches and Power-Stop Control		
254*	.Implements or Apparatus for Applying Pushing or Pulling Force (Force Multipliers) /1-134.7, 418-427		
269	.Work Holders		
303	.Fluid-Pressure and Analogous Brake Systems		
16*	MISCELLANEOUS HARDWARE (E.G., BUSHING, CARPET FASTENER, CASTER, DOOR CLOSER, PANEL HANGER, ATTACHABLE OR ADJUNCT HANDLE, HINGE, WINDOW SASH BALANCE, ETC.) /2.1-220, 400-404		
70	.Locks		
267*	.Spring Devices /1.5, 69-140, 142-182		
	TOOLS		
7	.Compound Tools		
29*	.Metal Working (Assembling Devices) /213.1-283		
81	.Tools		
403	JOINTS AND CONNECTIONS		
439	.Electrical Connectors		
285	.Pipe Joints or Couplings		
16*	. Miscellaneous Hardware (e.g., Bushings, Carpet Fastener, Caster, Door Closer, Panel Hanger, Attachable or Adjunct Handle, Hinge, Window Sash Balance, etc.) /221-392		
279	.Chucks or Sockets		
277	.Seal for a Joint or Junctionure		
	FASTENINGS		
292	.Closure Fasteners		
24	.Buckles, Buttons, Clasps, etc.		
411	.Expanded, Threaded, Driven, Head- ed, Tool-Deformed, or Locked- Threaded Fastener		

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<u>Class</u>	<u>Subject</u>	<u>Class</u>	<u>Subject</u>
D01	EDIBLE PRODUCTS	D22	ARMS, PYROTECHNICS, HUNTING AND FISHING EQUIPMENT
D02	APPAREL AND HABERDASHERY	D23	ENVIRONMENTAL HEATING AND COOLING; FLUID HANDLING AND SANITARY EQUIPMENT
D03	TRAVEL GOODS AND PERSONAL BELONGINGS	D24	MEDICAL AND LABORATORY EQUIPMENT
D04	BRUSHWARE	D25	BUILDING UNITS AND CONSTRUCTION ELEMENTS
D05	TEXTILE OR PAPER YARD GOODS; SHEET MATERIAL	D26	LIGHTING
D06	FURNISHINGS	D27	TOBACCO AND SMOKERS' SUPPLIES
D07	EQUIPMENT FOR PREPARING OR SERVING FOOD OR DRINK NOT ELSEWHERE SPECIFIED	D28	COSMETIC PRODUCTS AND TOILET ARTICLES
D08	TOOLS AND HARDWARE	D29	EQUIPMENT FOR SAFETY, PROTECTION, AND RESCUE
D09	PACKAGES AND CONTAINERS FOR GOODS	D30	ANIMAL HUSBANDRY
D10	MEASURING, TESTING, OR SIGNALLING INSTRUMENTS	D32	WASHING, CLEANING, OR DRYING MACHINE
D11	JEWELRY, SYMBOLIC INSIGNIA, AND ORNAMENTS	D34	MATERIAL OR ARTICLE HANDLING EQUIPMENT
D12	TRANSPORTATION	D99	MISCELLANEOUS
D13	EQUIPMENT FOR PRODUCTION, DISTRIBUTION, OR TRANSFORMATION OF ENERGY		
D14	RECORDING, COMMUNICATION, OR INFORMATION RETRIEVAL EQUIPMENT		
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		
D20	SALES AND ADVERTISING EQUIPMENT		
D21	GAMES, TOYS, AND SPORTS GOODS		

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