CLASSES WITHIN THE U.S. CLASSIFICATION SYSTEM

Arranged by Related Subject Matter

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.

Class	<u>Subject</u>	Class	<u>Subject</u>
505*	SUPERCONDUCTOR TECHNOLOGY: APPARATUS,	51	.Abrasive Tool Making Process, Material, or Composition
	MATERIAL, PROCESS (Involving Material Superconducting	429	.Chemistry: Electrical Current Producing Apparatus, Product, and Process
	above 30k)	136	Batteries: Thermoelectric and Photo-
977*	NANOTECHNOLOGY (Note: Does not accept applications)	428*	Stock Material or Miscellaneous
	(Note: Does not accept applications)		Articles /1.1-223
	LIFE AND AGRICULTURAL SCIENCES AND TESTING	442	.Fabric (Woven, Knitted, or Nonwoven Textile or Cloth, Etc.)
800	METHODS .Multicellular Living Organisms and	428*	.Stock Material or Miscellaneous Arti- cles
	Unmodified Parts Thereof and Related Processes		/292.1-543
504	.Plant Protecting and Regulating		COMPOSITIONS AND
424	Compositions .Drug, Bio-Affecting and Body		SYNTHETIC RESINS;
.2.	Treating Compositions	508	CHEMICAL COMPOUNDS .Solid Anti-Friction Devices, Materials
514	Drug, Bio-Affecting and Body Treating Compositions	300	Therefor, Lubricant or Separant
71	.Chemistry: Fertilizers		Compositions for Moving Solid Surfaces, and Miscellaneous Mineral
506	.Combinatorial Chemistry Technology: Method, Library, Apparatus		Oil Compositions
435	.Chemistry: Molecular Biology and	44	Fuel and Related Compositions
	Microbiology	148*	.Metal Treatment /22-30, Compositions (employed in
436	.Chemistry: Analytical and Immu-		the treatment of solid metal, e.g.,
426	nological Testing .Food or Edible Material: Processes,		fluxes, protective paint on localized
	Compositions, and Products		areas during carburizing or nitriding treatments.)
PLT	.Plants	252*	.Compositions
	STOCK MATERIALS; ARTICLES		/2-8.05, Fire-Extinguishing
	(E.G., LAYERED PRODUCTS,	705	/601-611, Fire Retarding
	FILTERS, BATTERIES)	507	Earth Boring, Well Treating, and Oil Field Chemistry
503	.Record Receiver Having Plural Inter-	252*	.Compositions
	active Leaves or a Colorless Color		/8.57-88.2 (Compositions of various
	Former, Method of Use, or Developer Therefor		specified special uses or functions.)
148*	.Metal Treatment	510	.Cleaning Compositions for Solid
1.0	/33-33.6, Barrier layer stock material,		Surfaces, Auxiliary Compositions
	P-N type.		Therefor, or Processes of Preparing the Compositions
	/400-442 (Stock materials of diverse	252*	.Compositions
420	types; see subclass definition.)		/175-194 (Compositions of various
430	.Radiation Imagery Chemistry: Process, Composition, or Product		specified special uses or functions.)
	Thereof	502	.Catalyst, Solid Sorbent, or Support
210*	Liquid Purification or Separation		Therefor: Product or Process of
	/500.1-510.1, Filter material (composi-	252*	Making .Compositions
	tions or materials for filtering)	232	/478-193, 380-407 (Compositions
55*	.Gas Separation /522-528, Specific media material.		of various specified special uses

Class	Subject	Class	<u>Subject</u>
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 in-
8*	.Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers	524	termediate 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; con-	525	 . 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. . Various preformed reaction
	taining 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)	526	products mixed with ethylenically unsaturated reactant; mixing plural solid polymers or chemically treating solid polymer, or product thereof. . Reaction zone features, and poly-
501 106*	.Compositions: Ceramic .Compositions: Coating or Plastic /600-316 (Alkali metal silicate containing (e.g., Portland cement, water glass); all the rest of the class subject	320	mers from only ethylenic monomers or processes of polymerizing, polymerizable compositions containing only ethylene monomers as reactants or processes of preparing.
75*	matter.) .Specialized Metallurgical Processes, Compositions for Use Therein, Consolidated Metal Powder Compositions, and Loose Metal Particulate Mixtures	527	Solid polymers from specialized reactants (e.g., various cellular materials, protein, carbohydrate, tannin, lignin, coal, bituminous, natural resins), processes of preparing.
	/300-254, Compositions	528	Solid polymers from various speci-
420	Alloys or Metallic Compositions		fied starting materials, or processes
518	.Chemistry: Fischer-Tropsch Proc- esses; or Purification or Recovery of Products Thereof		of preparing, and treating polymer containing material or treating a solid polymer or a resinifiable
520-	Series of Classes. Synthetic Resins or		intermediate condensation product.
528	Natural Rubbers	208*	.Mineral Oils: Processes and Products
520	SYNTHETIC RESINS OR		/1-2, 14-23 (Mineral oil compositions.)
	NATURAL RUBBERS	512	.Perfume Compositions
	/1 (miscellaneous subclass, i.e., syn-	516	.Colloid Systems and Wetting Agents;
	thetic resins or natural rubbers not		Subcombinations Thereof; Processes
	elsewhere provided for anywhere in the USPC.)		of Making, Stabilizing, Breaking, or Inhibiting
521	.Ion-Exchange Polymers, Cellular Products, Waste Polymer Recovery.	252*	.Compositions /363.5, 367.1, 372+, 378 (All of the
522	Compositions to be polymerized or modified by wave energy wherein said composition contains a rate- affecting material; or processes of		various compositions of non-special uses or functions in Class 252. (See schedule for details.)

Class	Subject	Class	Subject
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
127*	.Sugar, Starch, and Carbohydrates /29-33	556	seven (7) uninterrupted carbons. . Heavy metal, aluminum, or silicon
585*	.Chemistry of Hydrocarbon Com-		organic compounds
	pounds	558	Esters
	/1-14, 240-242, Hydrocarbon mixtures	560	Esters
252*	.Compositions /1, Miscellaneous (i.e., compositions not elsewhere provided for anywhere in the USPCS.)	562	Organic acids (e.g., carboxylic, sulphonic), acid halides, acid anhydrides, Selenium or Tellurium compounds.)
423*	.Chemistry of Inorganic Compounds (except subclasses 265-275)	564	Amino nitrogen containing compounds (e.g., urea, sulfona-
530	.Chemistry: Natural Resins or Derivatives; Peptides or Proteins;		mides, nitrosamines, oxyamines, etc., and salts thereof).
	Lignins or Reaction Products Thereof	568	Boron, Phosphorus, Sulfur, or
930	Peptide or Protein Sequence	260*	Oxygen compoundsChemistry of Carbon Compounds
730	(Note: Does not accept applications.)	200	/665 C-metal (light metal bonded
532-	Series of Classes. Organic Com-		directly to carbon)
570	pounds		(e.g.; Grignard type, Beryllium
532	ORGANIC COMPOUNDS		containing, 1, 4-disodium
	/1 (miscellaneous subclass, i.e.,		naphthalene, phenyl magnesium
	organic compounds not elsewhere		chloride compounds)
	provided for anywhere in the USPC)	570	Halogen containing organic com-
534	Radioactive or Rare Earth Metal	50.54	pounds
	Compounds; Azo and Diazo	585*	.Chemistry of Hydrocarbon Com-
536	CompoundsCarbohydrates or derivatives (e.g.,		pounds /15-27, 250-899
330	pectin, glycosides, RNA, DNA, cel-	987	Organic Compounds Containing a BI,
540	lulose, starch, polysaccharides, etc.) Heterocyclic carbon compounds;	767	SB, AS, or P Atom or Containing a Metal Atom of the 6 th or 8 th Group of
J -1 0	steroidal hetero compounds; four-		the Periodic System
	membered lactams, azaporphyrins,		(Note: Does not accept applications.)
	nitrogen hetero rings of more than	260*	.Chemistry of Carbon Compounds
	six members.		/1, MISCELLANEOUS (i.e., carbon
544	Hetero ring is six-membered having		compounds not elsewhere provided
	two or more ring hetero atoms of		for anywhere in the USPCS)
	which at least one is nitrogen (e.g.,		
.	selenazines, etc.).		CHEMICAL PROCESSING
546	Six-membered ring with one hetero		TECHNOLOGIES: PROCESSES
5 40	nitrogen and five carbons.		AND APPARATUS (E.G., WAVE
548	Five-, four-, or three-membered nitrogen hetero ring compounds.		ENERGY, METALLURGY,
549	Compounds containing sulfur or	438	SEPARATORY CONTACTING) .Semiconductor Device Manufactur-
JTI	oxygen hetero ring compounds.	430	ing: Process
552	Azides. Triphenylmethanes, quino-	117	.Single-Crystal, Oriented-Crystal, and
-	nes, hydroquinones, steroids.	-11	Epitaxy Growth Processes; Non-
554	Fatty compounds having an acid		Coating Apparatus Therefor
	moiety which contains the carboxyl	216	.Etching a Substrate: Processes

Class	Subject	Class	<u>Subject</u>
156 427	.Adhesive Bonding and Miscellaneous Chemical Manufacture .Coating Processes (See also Group III, Class 101 for	134*	.Cleaning and Liquid Contact with Solids /1-42 (Processes) (See also Group III, Class 134 for
	printing apparatus.)		apparatus.)
118*	.Coating Apparatus	422	.Chemical Apparatus and Process
419	.Powder Metallurgy Processes		Disinfecting, Deodorizing, Preserv-
148*	.Metal Treatment		ing, or Sterilizing
	/95-714, Processes of modifying or	95	.Gas Separation: Processes
	maintaining the internal physical	96	Gas Separation: Apparatus
	structure (i.e., microstructure) or	55*	.Gas Separation
	chemical properties of metal, proc-	261	(except subclasses 522-528)
	esses of reactive coating of metal	261	Gas and Liquid Contact Apparatus
	and processes of chemical-heat re-	201	Distillation: Processes, Thermolytic
	moving (e.g., flame-cutting) or	202	.Distillation: Apparatus
	burning of metal. (However, if	203	Distillation: Processes, Separatory
	metal casting, fusing bonding, ma-	159 210*	Concentrating Evaporators
	chining, or working is involved, there is a requirement of significant	210	Liquid Purification or Separation (except subclasses 500.1-510.1)
	heat treatment as described in Sec-		(See STOCK MATERIALS:
	tion III, A, of the Class 148 defini-		ARTICLES for filter material.)
	tion.)	23	.Chemistry: Physical Processes
75*	.Specialized Metallurgical Processes,	588	.Hazardous or Toxic Waste
	Compositions for Use Therein, Consolidated Metal Powder Compositions and Lossa Metal		Destruction or Containment
	Compositions and Loose Metal Particulate Mixtures		
	/330-773, processes		
205	.Electrolysis: Processes, Compositions Used Therein, and Methods of Preparing the Compositions		
204	Chemistry: Electrical and Wave		
204	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, purifica-		
	tion, and crystallization of sugars;		
	extraction, purification, and treat-		
	ment of starch; manufacture of		
	sugars by hydrolysis of carbohy-		
	drates.)		

Class	Subject	Class	Subject
505*	SUPERCONDUCTOR TECHNOLOGY: APPARATUS, MATERIAL, PROCESS (Involving Material Superconducting above 30k)	714	CALCULATORS, COMPUTERS, OR DATA PROCESSING SYSTEMS .Error Detection/Correction and Fault
977*	NANOTECHNOLOGY	708*	Detection/Recovery .Electrical Computers: Arithmetic
376	(Note: Does not accept applications.) INDUCED NUCLEAR REACTIONS: PROCESSES,	700	Processing and Calculating /530-534 (arithmetical error detection or correction)
	SYSTEMS, AND ELEMENTS	235*	.Registers
976	NUCLEAR TECHNOLOGY		/400-418 (Ordnance or Weapon
200	(Note: Does not accept applications.)		System Computers)
380 340	CRYPTOGRAPHY COMMUNICATIONS:		(See Section II for ammunition and weapons in general.)
340	ELECTRICAL	235*	.Registers
348	.Television		/419-434
725	.Interactive video distribution systems	700	Data Processing: Generic Control Systems or Specific Applications
386	.Television Signal Processing for	701	.Data Processing: Vehicles, Naviga-
	Dynamic Recording or Reproduc-	5 00	tion, and Relative Location
250	ing	702	.Data Processing: Measuring, Cali-
358	.Facsimile and Static Presentation Processing	703	brating, or Testing .Data Processing: Structural Design,
382	.Image Analysis	703	Modeling, Simulation, and Emula-
345	.Computer Graphics Processing,		tion
0.0	Operator Interface Processing,	717	.Data Processing: Software Devel-
	and Selective Visual Display		opment, Installation, and Manage-
	Systems		ment
342	.Communications: Directive Radio	704	.Data Processing: Speech Signal
	Wave Systems and Devices		Processing, Linguistics, Language
242	(e.g., Radar, Radio Navigation) .Communications: Radio Wave		Translation, and Audio Compres-
343	Antennas	705	sion/Decompression .Data Processing: Financial, Business
370	.Multiplex Communications	703	Practice, Management, or
381	Electrical Audio Signal Processing		Cost/Price Determination
001	Systems and Devices	706	.Data Processing: Artificial Intelli-
379	.Telephonic Communications		gence
178	.Telegraphy	707	.Data Processing: Database and File
375	.Pulse or Digital Communications		Management, Data Structures, or
455	.Telecommunications		Document Processing
341	.Coded Data Generation or Conversion	715	Data Processing: Presentation Processing of Document, Operator
367	.Communications, Electrical:		Interface Processing, and Screen
	Acoustic Wave Systems and	716	Saver Display Processing
224	Devices	716	Data Processing: Design and Analy-
334 332	.Tuners		sis of Circuit or Semiconductor
332 329	.Modulators .Demodulators	708*	Mask .Electrical Computers: Arithmetic
116	SIGNALS AND INDICATORS	700	Processing and Calculating
110	DIGINID INDICATORS	709	Electrical Computers and Digital

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

Class	<u>Subject</u>	Class	Subject
	Processing Systems: Multiple		istry: Analytical and Immunological
	Computer or Process Coordinating		Testing.)
718	.Electrical Computers and Digital	73	.Measuring and Testing
	Processing Systems: Virtual	324	Electricity: Measuring and Testing
	Machine Task or Process Man-	250*	.Radiant Energy
	agement or Task Manage-		/250 Radio and Microwave
	ment/Control		Absorption Wavemeters
719	.Electrical Computers and Digital	356	Optics: Measuring and Testing
	Processing Systems: Interprogram	368	Horology: Time Measuring
	Communication or Interprocess	0.60	Systems or Devices
710	Communication (IPC)	968	Horology (Cross-Reference Art
710	Electrical Computers and Digital		Collection)
	Data Processing Systems:		(Note: Does not accept applications)
711	Input/Output .Electrical Computers and Digital	374	Thermal Measuring and Testing
/11	Processing Systems: Memory	177	Weighing Scales
712	Electrical Computers and Digital	33	Geometrical Instruments
/12	Processing Systems: Processing	250*	.Radiant Energy
	Architectures and Instruction	200	(See also Group I, Class 204,
	Processing (e.g., Processors)		Chemistry: Electrical and Wave
713	.Electrical Computers and Digital		Energy.)
	Processing Systems: Support	378	X-Ray or Gamma Ray Systems
726	.Information Security		or Devices
377	.Electrical Pulse Counters, Pulse	372	.Coherent Light Generators
	Dividers, or Shift Registers:	385	.Optical Waveguides
	Circuits and Systems	349	.Liquid Crystal Cells, Elements and
902	Electronic Funds Transfer	250	Systems
235*	Registers	359	Optics: Systems (Including Com-
	/61+ (Mechanical Calculators)	398	munication) and Elements
	INFORMATION STORAGE	351	Optical Communications Optics: Eye Examining, Vision Test-
720	Dynamic Optical Information	331	ing and Correcting
720	Storage or Retrieval	352	Optics: Motion Pictures
369	Dynamic Information Storage or	396	.Photography
30)	Retrieval	370	(See Group I, Class 430, Radiation
360	.Dynamic Magnetic Information		Imagery Chemistry: Process, Com-
	Storage or Retrieval		position, or Product Thereof.)
G9B	.Information Storage Based on Rela-	355	.Photocopying
	tive Movement Between Record	399	Electrophotography
	Carrier and Transducer	353	.Optics: Image Projectors
365	.Static Information Storage and	362	.Illumination
	Retrieval	84	.Music
235*	Registers		(See also Class 116, Signals and In-
347	Incremental Printing of Symbolic		dicators, subclasses 137 through
246	Information		172; Class 340, Communications:
346	.Recorders	984	Electrical, subclasses 384.1+.)Musical Instruments
	MEASIDING TESTING	704	(Note: Does not accept applica-
	MEASURING, TESTING, PRECISION INSTRUMENTS		tions)
	(See also Group I, Class 436, Chem-	181	.Acoustics
	(See also Group 1, Class 750, Clichi-	-01	0 40 440

Note 1: Subclass ranges reflect the inclusive ranges shown in the Class Schedules. These ranges may not be in increasing, sequential numerical order.

Class	<u>Subject</u>	<u>Class</u>	<u>Subject</u>
361*	.Electricity: Electrical Systems and Devices (Nonelectrical device with electri-	322	Devices: Consumable Electrodes . Electricity: Single Generator Systems
	cal operation or control is classi- fied with nonelectrical device.)	307*	Electrical Transmission and Interconnection Systems /1- 87, 326-157 Miscellaneous
	ELECTRICITY, HEATING		Systems
219	Electric Heating	313	Electric Lamp and Discharge
	(See also Heating and Cooling, in		Devices
	Group III, for nonelectric heating)	257	Active Solid-State Devices
392	Electric Resistance Heating Devices		(e.g., Transistors, Solid-State Diodes)
373	.Industrial Electric Heating Furnaces	310	Electrical Generator or Motor Structure
	ELECTRO-MECHANICAL	335	Electricity: Magnetically Operated
	SYSTEMS		Switches, Magnets, and Electro-
290	.Prime-Mover Dynamo Plants		magnets
	(See also Group III, Motors, Engines, Pumps.)		(See also Class 200, Electricity: Circuit Makers and Breakers, in
318	.Electricity: Motive Power Systems		this group, for mechanically
388	.Electricity: Motor Control Systems		actuated switches in general,
187*	.Elevator, Industrial Lift Truck, or		and Class 337, Electricity:
	Stationary Lift		Electrothermally or Thermally
	/247, 248, 277-299, 316, 317, 380-		Actuated Switches, in this group,
	399, for Vehicle (electric control)		for thermally actuated switch structures.)
	(See also Group III, Class 187.)	337	. Electricity: Electrothermally or
	ELECTRICITY: SUBSYSTEMS,	331	Thermally Actuated Switches
	COMPONENTS, OR ELEMENTS		(See also Class 200, Electricity:
320	.Electricity: Battery or Capacitor		Circuit Makers and Breakers, in
224	Charging and Discharging		this group, for mechanically actu-
331	Oscillators		ated switches in general, and
330 307*	.Amplifiers .Electrical Transmission or Intercon-		Class 335, Electricity: Magneti-
307.	nection Systems		cally Operated Switches, Magnets,
	/401-424 Miscellaneous Nonlinear		and Electromagnets, in this group,
	Reactor		for magnetically actuated switch
327	Miscellaneous Active Electrical	336	structures.)Inductor Devices
	Nonlinear Devices, Circuits, and	361*	Electricity: Electrical Systems and
	Systems	301	Devices
326	Electronic Digital Logic Circuitry		/500+ (Electrolytic Systems or
333	Wave Transmission Lines and		Devices)
	Networks		(See also Group I, Class 136, Bat-
363	Electric Power Conversion Sys-		teries: Thermoelectric and Photo-
222	tems		electric, and Class 204, Chemis-
323	Electricity: Power Supply or Regulation Systems		try: Electrical and Wave Energy.)
315	lation SystemsElectric Lamp and Discharge	361*	Electricity: Electrical Systems and
515	Devices: Systems		Devices
314	Electric Lamp and Discharge	338	/271+ (Electrostatic Capacitors) . Electrical resistors
	1	330	Lieuncai resisions

Class	Subject	Class	Subject
200	/271+ (Electrostatic Capacitors)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,		
114*	Aeronautics and Astronautics.) .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		

Class	Subject	Class	<u>Subject</u>
505*	SUPERCONDUCTOR TECHNOLOGY: APPARATUS, MATERIAL, PROCESS (Involving Material Superconducting	54 168 231	Harness for Working Animal Farriery Whips and Whip Apparatus
	above 30k)	42.4	TEACHING
977*	NANOTECHNOLOGY (Note: Does not accept applica-	434 40	Education and Demonstration Card, Picture, or Sign Exhibiting
	tions.) BODY TREATMENT CARE, ADORNMENT	472 463 473 273	AMUSEMENT DEVICES .Amusement Devices: Games Games Using Tangible Projectile Amusement Devices: Games
	(See also Group I, Class 424, Drug,	446	.Amusement Devices: Toys
	Bio-Affecting and Body Treating Compositions.)	124 482	.Mechanical Guns and Projectors .Exercise Devices
433	.Dentistry	99	FOODS AND BEVERAGES:
623 128	.Prosthesis (i.e., Artificial Body Members), Parts Thereof, or Aids and Accessories Therefor .Surgery	99	APPARATUS (See also Group I, Class 426, for food compositions and processes
600	Surgery		WEATING GOOD ING
601 602	.Surgery: Kinesitherapy .Surgery: Splint, Brace, or Bandage		HEATING, COOLING (See also Group II, Class 219, for
604	.Surgery	62	electric heating.)
606	.Surgery	237	.Refrigeration .Heating Systems
607	Surgery: Light, Thermal, and Electrical Application	236	.Automatic Temperature and Humidity Regulation
132	.Toilet	432	.Heating
63	.Jewelry	122	Liquid Heaters and Vaporizers
27	.Undertaking	126	.Stoves and Furnaces
	APPAREL AND RELATED	431	.Combustion
2	ARTS	110	Furnaces (Solid or Combined Fuels)
2 223	.ApparelApparel Apparatus	165	.Heat Exchange
450	Foundation Garments		
36	Boots, Shoes, and Leggings		BUILDINGS
12	Boot and Shoe Making	135	.Tent, Canopy, Umbrella, or Cane
69 112	Leather Manufactures .Sewing	109	Safes, Bank Protection, or a Related Device
112	.5cwing	52	.Static Structures (e.g., Buildings)
	PLANT AND ANIMAL HUSBANDRY	14 404	.BridgesRoad Structure, Process, or Appa-
449	Bee Culture		ratus
452	.Butchering	182	Fire Escape, Ladder, or Scaffold
43	.Fishing, Trapping, and Vermin	220	RECEPTACLES
· 	Destroying	312	.Supports: Cabinet Structure
47	.Plant Husbandry	190	.Trunks and Hand-Carried Luggage
119	Animal Husbandry	206	.Special Receptacle or Package

Class	Subject	<u>Class</u>	Subject
215 229	.Bottles and Jars .Envelopes, Wrappers, and Paper-	299	.Mining or In Situ Disintegration of Hard Material
22)	board Boxes	166	.Wells
150	.Purses, Wallets, and Protective	175	.Boring or Penetrating the Earth
202	Covers	111	.Planting
383 217	.Flexible Bags .Wooden Receptacles	171 37	.Unearthing Plants or Buried Objects .Excavating
	•	56	.Harvesters
248 5	SUPPORTS .Beds	172	.Earth Working
3 297	.Chairs and Seats	194	CHECK-ACTUATED CONTROL
211	.Supports: Racks	127	MECHANISMS
108	.Horizontally Supported Planar		
	Surfaces		DISPENSING
		453	.Coin Handling
	CLOSURES, PARTITIONS, PANEL	141	Fluent Material Handling, with Receiver or Receiver Coacting
	(Building and receptacle classes for other closures, partitions, and	169	Means .Fire Extinguishers
	panels)	291	Track Sanders
267*	.Spring Devices (Support Type)	239	.Fluid Sprinkling, Spraying, and
	/80-112		Diffusing
49	.Movable or Removable Closures	222	.Dispensing
160	.Flexible or Portable Closure, Parti-	221	Article Dispensing
256	tion, or Panel	232	.Deposit and Collection Receptacles
256	.Fences	414	MATERIAL OR ARTICLE
	TEXTILES	• • •	HANDLING
8*	Bleaching and Dyeing; Fluid Treat-	258	Railway Mail Delivery
	ment and Chemical Modification	186 406	.Merchandising .Conveyors: Fluid Current
	of Textiles and Fibers	212	.Traversing Hoists
	/147-159 (See also Group I for	198	.Conveyors: Power-Driven
245	processes and compositions.)	187*	.Elevators, Industrial Lift Truck, or
245 289	.Wire Fabrics and Structure .Knots and Knot Tying		Stationary Lift for Vehicle
28	.Textiles: Manufacturing		/200-246, 249-298, 300-315, 318-
26	Textiles: Cloth Finishing		379, 400-414 (See also Group II,
66	Textiles: Braiding, Netting, and	102	Electric control.)
	Lace Making	193	.Conveyors, Chutes, Skids, Guides, and Ways
87	Textiles: Braiding, Netting, and	224	.Package and Article Carriers
120	Lace Making	294	.Handling: Hand and Hoist-Line
139 57	Textiles: WeavingTextiles: Spinning, Twisting, and		Implements
31	Twining Twisting, and	901	.Robots
19	Textiles: Fiber Preparation		(Note: Does not accept applications.)
	•	137	FLUID HANDLING
	EARTH WORKING AND	454	.Ventilation
40.7	AGRICULTURAL MACHINERY	4	.Baths, Closets, Sinks, and Spittoons
405	.Hydraulic and Earth Engineering	138	.Pipes and Tubular Conduits

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

Class	<u>Subject</u>	Class	<u>Subject</u>
251	.Valves and Valve Actuation	415	.Rotary Kinetic Fluid Motors or
244*	VEHICLES .Aeronautics and Astronautics	416	Pumps .Fluid Reaction Surfaces (i.e., Impel-
	/1-13, 15-153A (See also Group II, Class 244/14, for aerial torpedoes.)	185	lers) .Motors: Spring, Weight, or Animal
114*	.Ships	418	Powered .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
440	Marine Propulsion		PRINTED MATERIAL;
191	.Electricity: Transmission to Vehi-	118*	STATIONERY, BOOKS .Coating Apparatus
	cles	184	.Lubrication
104	.Railways	101	.Printing
246	Railway Switches and Signals	400	Typewriting Machines
105	Railway Rolling Stock	199	Type Casting
238	Railways: Surface Track	276	Type casting
280	.Land Vehicles (e.g., chassis and	401	.Coating Implements with Material
200	running gear)	.01	Supply
298	Land Vehicles: Dumping	281	.Books, Strips, and Leaves
180	Motor Vehicles	462	.Books, Strips, and Leaves for Mani-
903	Hybrid Electric Vehicles (HEVs)		folding
	(Note: Does not accept applications)	283	.Printed Matter
296	.Land Vehicles: Bodies and Tops		MANUFACTURING,
301	.Land Vehicles: Wheels and Axles		ASSEMBLING, INCLUDING
295	Railway Wheels and Axles		SOME CORRELATIVE
152	.Resilient Tires and Wheels		MISCELLANEOUS PRODUCTS
305	.Wheel Substitutes for Land	164	.Metal Founding
	Vehicles	266*	.Metallurgical Apparatus
213	.Railway Draft Appliances	29*	.Metal Working (General Manufac-
278	Land Vehicles: Animal Draft Appliances	_,	turing)
293	.Vehicle Fenders	412	/2-25.42, 81.01-91.8, 560, 560.1, 284
267*	.Spring Devices /2-68, 140.11-141.7	412	.Bookbinding: Process and Apparatus
410	Freight Accommodation on Freight	53	.Package Making
410	Carrier	59	.Chain, Staple, and Horseshoe Making
	MOTORS, ENGINES, PUMPS	76	.Metal Tools and Implements, Making
	(See also Group II, Electricity,	79	.Button Making
CON	for electric motors.)	493	.Manufacturing Container or Tube
60*	.Power Plants		from Paper; or Other Manufactur-
	/200.1-204, 221-721 (See also		ing from a Sheet or Web
	Group II for chemical reaction	131	.Tobacco
122	motors, subclasses 205-220.)	147	.Coopering
123 417	.Internal-Combustion Engines	157	.Wheelwright Machines
41 / 91	.Pumps .Motors: Expansible Chamber Type	163	.Needle and Pin Making
71	intotors. Expansione Chamber Type		

Class	Subject	Class	Subject
227	.Elongated-Member-Driving Appara-	413	.Sheet Metal Container Making
227	tus	140	.Wireworking
270	.Sheet-Material Associating	228	.Metal Fusion Bonding
300	Brush, Broom, and Mop Making	249	.Static Molds
445	Electric Lamp or Space Discharge	,	
	Component or Device Manufactur-		MISCELLANEOUS TREATING
	ing		(See Group I for chemical treatment
29*	.Metal Working (Methods)		and physical separation.)
	/592-559	494	.Imperforate Bowl: Centrifugal
29*	.Metal Working (Assembling Appa-		Separators
	ratus)	209	.Classifying, Separating, and Assort-
	/700-824		ing Solids
29*	.Metal Working (Plural Diverse	366	.Agitating
	Manufacturing Apparatus)	134*	.Cleaning and Liquid Contact with
	/650		Solids
			/43-201 (See also Group I for
	CUTTING, COMMINUTING,		cleaning processes.)
40.0	AND MACHINING	34	Drying and Gas or Vapor Contact
483	.Tool Changing		with Solids
234	Selective Cutting (e.g., Punching)	68	.Textiles: Fluid Treating Apparatus
460	.Crop Threshing or Separating	38	.Textiles: Ironing or Smoothing
241	Solid Material Comminution or Disintegration	15	Brushing, Scrubbing, and General Cleaning
470	.Threaded, Headed Fastener, or		
	Washer Making: Process and Ap-		HANDLING OR STORING
2014	paratus		SHEETS, WEBS, STRANDS,
29*	.Metal Working (Filing)	402	AND CABLE
20*	/76.1-77	402	Binder Device Releasably Engaging
29*	Meanufacturing Apparatus Includ	226	Aperture or Notch of Sheet
	Manufacturing Apparatus Including Means For Metal Shaping or	226	Advancing Material of Indetermi-
	Assembling)	242	nate Length .Winding, Tensioning, or Guiding
	/33R-33T	242 254*	.Implements or Apparatus for
407	.Cutters, for Shaping	234	Applying Pushing or Pulling Force
30	.Cutlery		(Cable Hauling or Strand Placing)
451	.Abrading		/199-417
408	Cutting by Use of Rotating Axially	271	Sheet Feeding or Delivering
	Moving Tool		5
82	.Turning	74	MACHINE ELEMENT OR
83	.Cutting	4.57.5	MECHANISM
409	.Gear Cutting, Milling, or Planing	475	.Planetary Gear Transmission Sys-
125	.Stone Working	47.4	tems or Components
144	.Woodworking	474	Endless Belt Power Transmission
142	Wood Turning	176	Systems or Components
225	.Severing by Tearing or Breaking	476	Friction Gear Transmission Systems
72	.Metal Deforming	477	or Components .Interrelated Power Delivery Con-
425	.Plastic Article or Earthenware	4//	trols, Including Engine Control
	Shaping or Treating: Apparatus	492	Roll or Roller
100	.Presses	1 74	Non or Ronci

Class	Subject	Class	Subject
464	Rotary Shafts, Gudgeons, Housings, and Flexible Couplings for Rotary Shafts	411	Expanded, Threaded, Driven, Headed, Tool-Deformed, or Locked-Threaded Fastener
384	.Bearings		Locked Timedaed Tustener
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 Pressure Brake and Analogous 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.,		
	Bushing, 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 Juncture		
	FASTENINGS		
292	.Closure Fasteners		
24	.Buckles, Buttons, Clasps, etc.		

II-14

December 2008 GROUP III. BODY TREATMENT AND CARE, HEATING AND COOLING, MATERIAL HANDLING AND TREATMENT, MECHANICAL MANUFACTURING MECHANICAL POWER, STATIC, AND RELATED ARTS

Class	Subject	Class	Subject

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Note 1: Subclass ranges reflect the inclusive ranges shown in the Class Schedules. These ranges may not be in increasing, sequential numerical order.

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

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

<u>Class</u> <u>Subject</u> <u>Class</u> <u>Subject</u>

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