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> | <u>Class</u> | Subject |
|-------|--|--------------|--|
| 505* | SUPERCONDUCTOR TECHNOLOGY: APPARATUS, | 51 | Abrasive Tool Making Process, Material, or Composition |
| | MATERIAL, PROCESS | 429 | .Chemistry: Electrical Current Produc- |
| | (Involving Material Superconducting above 30k) | 136 | ing Apparatus, Product, and Process .Batteries: Thermoelectric and Photo- |
| 977* | NANOTECHNOLOGY | 428* | electric .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 |
| | METHODS | 428* | Textile or Cloth, Etc.) Stock Material or Miscellaneous Arti- |
| 800 | .Multicellular Living Organisms and Unmodified Parts Thereof and | 120 | cles |
| | Related Processes | | /292.1-543 |
| 504 | Plant Protecting and Regulating | | COMPOSITIONS AND |
| 424 | Compositions | | SYNTHETIC RESINS; |
| 424 | Drug, Bio-Affecting and Body Treating Compositions | - 00 | CHEMICAL COMPOUNDS |
| 514 | .Drug, Bio-Affecting and Body | 508 | Solid Anti-Friction Devices, Materials Therefor, Lubricant or Separant |
| | Treating Compositions | | Compositions for Moving Solid |
| 71 | Chemistry: Fertilizers | | 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., |
| 126 | nological Testing | | fluxes, protective paint on localized |
| 426 | .Food or Edible Material: Processes, Compositions, and Products | | areas during carburizing or nitriding |
| PLT | .Plants | 252* | treatments.) |
| | | 252* | .Compositions /2-8.05, Fire-Extinguishing |
| | STOCK MATERIALS; ARTICLES | | /601-611, Fire Retarding |
| | (E.G., LAYERED PRODUCTS, 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 Former, Method of Use, or Devel- | | /8.57-88.2 (Compositions of various |
| | oper Therefor | 710 | specified special uses or functions.) |
| 148* | .Metal Treatment | 510 | Cleaning Compositions for Solid Surfaces, Auxiliary Compositions |
| | /33-33.6, Barrier layer stock material, | | Therefor, or Processes of Preparing |
| | P-N type. | | the Compositions |
| | /400-442 (Stock materials of diverse types; see subclass definition.) | 252* | .Compositions |
| 430 | .Radiation Imagery Chemistry: | | /175-194 (Compositions of various |
| | Process, Composition, or Product | 502 | specified special uses or functions.) .Catalyst, Solid Sorbent, or Support |
| 0100 | Thereof | 502 | Therefor: Product or Process of |
| 210* | .Liquid Purification or Separation /500.1-510.1, Filter material (composi- | | Making |
| | tions or materials for filtering) | 252* | .Compositions |
| 55* | .Gas Separation | | /478-193, 380-407 (Compositions |
| | /522-528, Specific media material. | | of various specified special uses |

| Class | Subject | Class | <u>Subject</u> |
|-------------|---|-------|--|
| 252* | or functions.) (See schedule for details.) .Compositions | 523 | preparing or treating a solid polymer utilizing wave energy. . Processes of preparing a desired or |
| 232 | /408.1-183.16 (Compositions of various specified special uses or functions.) | 323 | intentional composition of at least one nonreactant material and at least one solid polymer or specified in- |
| 8* | .Bleaching and Dyeing; Fluid Treat- ment and Chemical Modification of Textiles and Fibers | 524 | termediate condensation product, or product thereof. Processes of preparing a desired or |
| 106* | .Compositions: Coating or Plastic /1.05-38.9 (Metal depositing; coating repellent; polishes; saturating or indurating; frost or ice preventive; corrosion inhibiting coating composi- | | intentional composition of at least one nonreactant material and at least one solid polymer or specified in- termediate condensation product, or product thereof. |
| | tion; 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 | 525 | . Various preformed reaction products mixed with ethylenically unsaturated reactant; mixing plural solid polymers or chemically treating solid polymer, or product thereof. |
| | mold coating compositions) | 526 | Reaction zone features, and poly- |
| 501 106* | .Compositions: Ceramic .Compositions: Coating or Plastic /600-316 (Alkali metal silicate con- taining (e.g., Portland cement, water glass); all the rest of the class subject | | mers from only ethylenic monomers or processes of polymerizing, poly- merizable compositions containing only ethylene monomers as reac- tants or processes of preparing. |
| | matter.) | 527 | Solid polymers from specialized |
| 75* | .Specialized Metallurgical Processes, Compositions for Use Therein, Con- solidated Metal Powder Composi- tions, and Loose Metal Particulate Mixtures | | reactants (e.g., various cellular materials, protein, carbohydrate, tannin, lignin, coal, bituminous, natural resins), processes of preparing. |
| 420 | /300-254, Compositions | 528 | Solid polymers from various speci- |
| 420 518 | .Alloys or Metallic Compositions .Chemistry: Fischer-Tropsch Proc- | | fied starting materials, or processes of preparing, and treating polymer |
| 310 | esses; or Purification or Recovery | | containing material or treating a |
| | of Products Thereof | | solid polymer or a resinifiable |
| 520- | Series of Classes. Synthetic Resins or | •001 | intermediate condensation product. |
| 528 520 | Natural Rubbers | 208* | .Mineral Oils: Processes and Products |
| 520 | SYNTHETIC RESINS OR NATURAL RUBBERS | 512 | /1-2, 14-23 (Mineral oil compositions.) |
| | /1 (miscellaneous subclass, i.e., syn- | 516 | .Perfume Compositions .Colloid Systems and Wetting Agents; |
| | thetic resins or natural rubbers not | 310 | 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 Compounds | 558 | organic compounds . 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; | 7. 60 | mides, nitrosamines, oxyamines, etc., and salts thereof). |
| | Lignins or Reaction Products Thereof | 568 | Oxygen compounds |
| 930 | .Peptide or Protein Sequence (Note: Does not accept applications.) | 260* | Chemistry of Carbon Compounds /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 | 570 | chloride compounds) |
| 534 | provided for anywhere in the USPC) .Radioactive or Rare Earth Metal | 570 | Halogen containing organic compounds |
| | Compounds; Azo and Diazo Compounds. | 585* | .Chemistry of Hydrocarbon Compounds |
| 536 | Carbohydrates or derivatives (e.g., | | /15-27, 250-899 |
| | pectin, glycosides, RNA, DNA, cellulose, starch, polysaccharides, etc.). | 987 | Organic Compounds Containing a BI, SB, AS, or P Atom or Containing a |
| 540 | Heterocyclic carbon compounds; steroidal hetero compounds; four- | | Metal Atom of the 6 th or 8 th Group of the Periodic System |
| | membered lactams, azaporphyrins, | | (Note: Does not accept applications.) |
| | nitrogen hetero rings of more than | 260* | .Chemistry of Carbon Compounds /1, MISCELLANEOUS (i.e., carbon |
| 544 | six membersHetero ring is six-membered having | | compounds not elsewhere provided |
| 344 | two or more ring hetero atoms of which at least one is nitrogen (e.g., | | for anywhere in the USPCS) |
| | selenazines, etc.). | | CHEMICAL PROCESSING |
| 546 | Six-membered ring with one hetero | | TECHNOLOGIES: PROCESSES |
| | nitrogen and five carbons. | | AND APPARATUS (E.G., WAVE |
| 548 | Five-, four-, or three-membered nitrogen hetero ring compounds. | | ENERGY, METALLURGY, SEPARATORY CONTACTING) |
| 549 | Compounds containing sulfur or oxygen hetero ring compounds. | 438 | .Semiconductor Device Manufacturing: Process |
| 552 | Azides. Triphenylmethanes, quinones, hydroquinones, steroids. | 117 | .Single-Crystal, Oriented-Crystal, and Epitaxy Growth Processes; Non- |
| 554 | Fatty compounds having an acid | | Coating Apparatus Therefor |
| | moiety which contains the carboxyl | 216 | .Etching a Substrate: Processes |

| Class | <u>Subject</u> | Class | <u>Subject</u> |
|------------|---|-------------|---|
| 156 427 | .Adhesive Bonding and Miscellaneous Chemical Manufacture .Coating Processes | 134* | .Cleaning and Liquid Contact with Solids /1-42 (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 |
| 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- | | (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 .Liquid Purification or Separation |
| | chining, or working is involved, there is a requirement of significant | 210 | (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, | | Destruction or Containment |
| | Consolidated Metal Powder | | |
| | 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 | | |
| | Energy | | |
| 266* | .Metallurgical Apparatus | | |
| 65 | .Glass Manufacturing | | |
| 264 | .Plastic and Nonmetallic Article | | |
| 1.60 | Shaping or Treating: Processes | | |
| 162 48 | Paper Making and Fiber Liberation Gas: Heating and Illuminating | | |
| 208* | .Mineral Oils: Processes and Products | | |
| 200 | (except subclasses 1-2, 14-23) | | |
| 196 | .Mineral Oils: Apparatus | | |
| 127* | .Sugar, Starch, and Carbohydrates | | |
| 12, | /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 | 324 | Electricity: Measuring and Testing |
| | Computer or Process Coordinating | 250* | .Radiant Energy |
| 718 | .Electrical Computers and Digital | | /250 Radio and Microwave |
| | Processing Systems: Virtual | | Absorption Wavemeters |
| | Machine Task or Process Man- | 356 | Optics: Measuring and Testing |
| | agement or Task Manage- | 368 | Horology: Time Measuring |
| | ment/Control | | Systems or Devices |
| 719 | Electrical Computers and Digital | 968 | Horology (Cross-Reference Art |
| | Processing Systems: Interprogram | | Collection) |
| | Communication or Interprocess | | (Note: Does not accept applica- |
| 710 | Communication (IPC) .Electrical Computers and Digital | 374 | tions)Thermal Measuring and Testing |
| /10 | Data Processing Systems: | 177 | Weighing Scales |
| | Input/Output | 33 | Geometrical Instruments |
| 711 | Electrical Computers and Digital | 250* | .Radiant Energy |
| /11 | Processing Systems: Memory | 230 | (See also Group I, Class 204, |
| 712 | Electrical Computers and Digital | | Chemistry: Electrical and Wave |
| | Processing Systems: Processing | | Energy.) |
| | Architectures and Instruction | 378 | X-Ray or Gamma Ray Systems |
| | Processing (e.g., Processors) | | or Devices |
| 713 | .Electrical Computers and Digital | 372 | .Coherent Light Generators |
| | Processing Systems: Support | 385 | .Optical Waveguides |
| 726 | .Information Security | 349 | .Liquid Crystal Cells, Elements and |
| 377 | .Electrical Pulse Counters, Pulse | | Systems |
| | Dividers, or Shift Registers: | 359 | .Optics: Systems (Including Com- |
| 002 | Circuits and Systems | 200 | munication) and Elements |
| 902 | Electronic Funds Transfer | 398 | Optical Communications |
| 235* | Registers | 351 | Optics: Eye Examining, Vision Test- |
| | /61+ (Mechanical Calculators) | 352 | ing and Correcting .Optics: Motion Pictures |
| | INFORMATION STORAGE | 332 396 | .Photography |
| 720 | Dynamic Optical Information | 390 | (See Group I, Class 430, Radiation |
| 720 | Storage or Retrieval | | Imagery Chemistry: Process, Com- |
| 369 | .Dynamic Information Storage or | | position, or Product Thereof.) |
| 20) | Retrieval | 355 | .Photocopying |
| 360 | .Dynamic Magnetic Information | 399 | Electrophotography |
| | Storage or Retrieval | 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 |
| | Information | | 172; Class 340, Communications: |
| 346 | .Recorders | 004 | Electrical, subclasses 384.1+.) |
| | MEAGUDING PROPERTY | 984 | Musical Instruments |
| | MEASURING, TESTING, | | (Note: Does not accept applica- |
| | PRECISION INSTRUMENTS | 181 | tions) .Acoustics |
| | (See also Group I, Class 436, Chemistry: Analytical and Immunological | 361* | .Acoustics .Electricity: Electrical Systems and |
| | Testing.) | 301 | Devices |
| 73 | .Measuring and Testing | | (Nonelectrical device with electri- |
| | | | () |

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

| Class | Subject | <u>Class</u> | <u>Subject</u> |
|-------|--|--------------|---|
| | cal operation or control is classi- fied with nonelectrical device.) | 307* | Electrical Transmission and Interconnection Systems /1- 87, 326-157 Miscellaneous |
| 219 | ELECTRICITY, HEATING .Electric Heating (See also Heating and Cooling, in | 313 | SystemsElectric Lamp and Discharge Devices |
| 392 | Group III, for nonelectric heating) .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 |
| •00 | ELECTRO-MECHANICAL SYSTEMS | 335 | Electricity: Magnetically Operated Switches, Magnets, and Electro- |
| 290 | .Prime-Mover Dynamo Plants (See also Group III, Motors, Engines, Pumps.) | | magnets (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 Stationary Lift | | and Class 337, Electricity: Electrothermally or Thermally |
| | /247, 248, 277-299, 316, 317, 380- 399, for Vehicle (electric control) | | Actuated Switches, in this group, for thermally actuated switch |
| | (See also Group III, Class 187.) | | structures.) |
| | ELECTRICITY: SUBSYSTEMS, | 337 | . Electricity: Electrothermally or |
| | COMPONENTS, OR ELEMENTS | | Thermally Actuated Switches |
| 320 | .Electricity: Battery or Capacitor | | (See also Class 200, Electricity: Circuit Makers and Breakers, in |
| | Charging and Discharging | | this group, for mechanically actu- |
| 331 | .Oscillators | | ated switches in general, and |
| 330 | .Amplifiers | | Class 335, Electricity: Magneti- |
| 307* | .Electrical Transmission or Intercon- | | cally Operated Switches, Magnets, |
| | nection Systems | | and Electromagnets, in this group, |
| | /401-424 Miscellaneous Nonlinear | | for magnetically actuated switch |
| | Reactor | | structures.) |
| 327 | . Miscellaneous Active Electrical | 336 | Inductor Devices |
| | Nonlinear Devices, Circuits, and Systems | 361* | Electricity: Electrical Systems and |
| 326 | Electronic Digital Logic Circuitry | | Devices |
| 333 | Wave Transmission Lines and Networks | | /500+ (Electrolytic Systems or Devices) (See also Group I, Class 136, Bat- |
| 363 | Electric Power Conversion Systems | | teries: Thermoelectric and Photo- electric, and Class 204, Chemis- |
| 323 | Electricity: Power Supply or Regulation Systems | 261* | try: Electrical and Wave Energy.) |
| 315 | Electric Lamp and Discharge Devices: Systems | 361* | Electricity: Electrical Systems and Devices |
| 314 | Electric Lamp and Discharge | 338 | /271+ (Electrostatic Capacitors) . Electrical resistors |
| | Devices: Consumable Electrodes | 330 | /271+ (Electrostatic Capacitors) |
| 322 | Electricity: Single Generator | 200 | . Electricity: Circuit Makers and |
| | Systems | _30 | Breakers |

| Class | Subject | <u>Class</u> | Subject |
|------------|---|--------------|---------|
| | (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 | | |
| 102 149 | .Ammunition and Explosives .Explosive and Thermic Compositions or Charges | | |
| 86 | Ammunition and Explosive-Charge Making | | |

| Class | <u>Subject</u> | Class | Subject |
|-------------------|--|------------------------------------|---|
| 505* | SUPERCONDUCTOR TECHNOLOGY: APPARATUS, MATERIAL, PROCESS (Involving Material Superconducting | 54 168 231 | Harness for Working Animal Farriery Whips and Whip Apparatus |
| 977* | above 30k) NANOTECHNOLOGY (Note: Does not accept applica- | 434 40 | TEACHING .Education and Demonstration .Card, Picture, or Sign Exhibiting |
| | tions.) BODY TREATMENT CARE, ADORNMENT (See also Group I, Class 424, Drug, Bio-Affecting and Body Treating Compositions.) | 472 463 473 273 446 124 482 | AMUSEMENT DEVICES .Amusement Devices: GamesGames Using Tangible ProjectileAmusement Devices: Games .Amusement Devices: Toys .Mechanical Guns and Projectors .Exercise Devices |
| 433 623 128 | .Dentistry .Prosthesis (i.e., Artificial Body Members), Parts Thereof, or Aids and Accessories Therefor .Surgery | 99 | FOODS AND BEVERAGES: APPARATUS (See also Group I, Class 426, for food compositions and processes |
| 600 | Surgery | | |
| 601 | .Surgery: Kinesitherapy | | HEATING, COOLING |
| 602 | .Surgery: Splint, Brace, or Bandage | | (See also Group II, Class 219, for |
| 604 | .Surgery | | electric heating.) |
| 606 | .Surgery | 62 | .Refrigeration |
| 607 | .Surgery: Light, Thermal, and Elec- | 237 | .Heating Systems |
| 132 | trical Application .Toilet | 236 | .Automatic Temperature and Humidity Regulation |
| 63 | .Jewelry | 432 | .Heating |
| 27 | .Undertaking | 122 | Liquid Heaters and Vaporizers |
| 21 | .Ondertaking | 126 | .Stoves and Furnaces |
| | APPAREL AND RELATED | 431 | .Combustion |
| 2 | ARTS | 110 | Furnaces (Solid or Combined Fuels) |
| 2 | Apparel | 165 | .Heat Exchange |
| 223 | Apparel ApparatusFoundation Garments | | <u> </u> |
| 450 | | | BUILDINGS |
| 36 | Boots, Shoes, and Leggings | 135 | .Tent, Canopy, Umbrella, or Cane |
| 12 | Boot and Shoe Making .Leather Manufactures | 109 | .Safes, Bank Protection, or a Related |
| 69 | | | Device |
| 112 | .Sewing | 52 | .Static Structures (e.g., Buildings) |
| | DE ANTE AND ANTE OF | 14 | .Bridges |
| 4.40 | PLANT AND ANIMAL HUSBANDRY | 404 | Road Structure, Process, or Apparatus |
| 449 | Bee Culture | 182 | Fire Escape, Ladder, or Scaffold |
| 452 | Butchering | | • • |
| 43 | .Fishing, Trapping, and Vermin | 220 | RECEPTACLES |
| 47 | Destroying | 312 | .Supports: Cabinet Structure |
| 47 | .Plant Husbandry | 190 | .Trunks and Hand-Carried Luggage |
| 119 | .Animal Husbandry | 206 | .Special Receptacle or Package |

MANUFACTURING MECHANICAL POWER, STATIC, AND RELATED ARTS

| Class | <u>Subject</u> | <u>Class</u> | <u>Subject</u> |
|---|---|---|---|
| | | | |
| 215 | .Bottles and Jars | 299 | .Mining or In Situ Disintegration of |
| 229 | .Envelopes, Wrappers, and Paper- | | Hard Material |
| | board Boxes | 166 | .Wells |
| 150 | .Purses, Wallets, and Protective | 175 | .Boring or Penetrating the Earth |
| | Covers | 111 | .Planting |
| 383 | .Flexible Bags | 171 | .Unearthing Plants or Buried Objects |
| 217 | .Wooden Receptacles | 37 | .Excavating |
| 2.40 | CLIDDODEC | 56 | .Harvesters |
| 248 | SUPPORTS | 172 | .Earth Working |
| 5 | Beds | 104 | • |
| 297 | .Chairs and Seats | 194 | CHECK-ACTUATED CONTROL |
| 211 | .Supports: Racks | | MECHANISMS |
| 108 | .Horizontally Supported Planar | | |
| | Surfaces | | DISPENSING |
| | | 453 | .Coin Handling |
| | CLOSURES, PARTITIONS, | 141 | .Fluent Material Handling, with |
| | PANEL | | Receiver or Receiver Coacting |
| | (Building and receptacle classes | | Means |
| | for other closures, partitions, and | 169 | .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 |
| | tion, or Panel | 232 | .Deposit and Collection Receptacles |
| 256 | .Fences | 41.4 | |
| | | | MATERIAL OR ARTICLE |
| 200 | | 414 | |
| 200 | TEXTILES | | HANDLING |
| 8* | | 258 | HANDLING .Railway Mail Delivery |
| | .Bleaching and Dyeing; Fluid Treat- | 258 186 | HANDLING .Railway Mail Delivery .Merchandising |
| | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification | 258 186 406 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current |
| | Bleaching and Dyeing; Fluid Treat- ment and Chemical Modification of Textiles and Fibers | 258 186 406 212 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists |
| | .Bleaching and Dyeing; Fluid Treat- ment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for | 258 186 406 212 198 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven |
| 8* | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) | 258 186 406 212 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .Elevators, Industrial Lift Truck, or |
| 8* 245 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure | 258 186 406 212 198 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .Elevators, Industrial Lift Truck, or Stationary Lift for Vehicle |
| 8* 245 289 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying | 258 186 406 212 198 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .Elevators, Industrial Lift Truck, or Stationary Lift for Vehicle /200-246, 249-298, 300-315, 318- |
| 245 289 28 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: Manufacturing | 258 186 406 212 198 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .Elevators, Industrial Lift Truck, or Stationary Lift for Vehicle /200-246, 249-298, 300-315, 318- 379, 400-414 (See also Group II, |
| 245 289 28 26 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: ManufacturingTextiles: Cloth Finishing | 258 186 406 212 198 187* | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) |
| 245 289 28 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: ManufacturingTextiles: Cloth FinishingTextiles: Braiding, Netting, and | 258 186 406 212 198 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) .Conveyors, Chutes, Skids, Guides, |
| 245 289 28 26 66 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: ManufacturingTextiles: Cloth FinishingTextiles: Braiding, Netting, and Lace Making | 258 186 406 212 198 187* | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) .Conveyors, Chutes, Skids, Guides, and Ways |
| 245 289 28 26 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: ManufacturingTextiles: Cloth FinishingTextiles: Braiding, Netting, and Lace MakingTextiles: Braiding, Netting, and | 258 186 406 212 198 187* | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) .Conveyors, Chutes, Skids, Guides, and Ways .Package and Article Carriers |
| 245 289 28 26 66 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: ManufacturingTextiles: Cloth FinishingTextiles: Braiding, Netting, and Lace MakingTextiles: Braiding, Netting, and Lace Making | 258 186 406 212 198 187* | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) .Conveyors, Chutes, Skids, Guides, and Ways .Package and Article Carriers .Handling: Hand and Hoist-Line |
| 245 289 28 26 66 87 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: ManufacturingTextiles: Cloth FinishingTextiles: Braiding, Netting, and Lace MakingTextiles: Braiding, Netting, and Lace MakingTextiles: Weaving | 258 186 406 212 198 187* 193 224 294 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) .Conveyors, Chutes, Skids, Guides, and Ways .Package and Article Carriers .Handling: Hand and Hoist-Line Implements |
| 245 289 28 26 66 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: Manufacturing . Textiles: Cloth Finishing . Textiles: Braiding, Netting, and Lace Making . Textiles: Braiding, Netting, and Lace Making . Textiles: Weaving . Textiles: Spinning, Twisting, and | 258 186 406 212 198 187* | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) .Conveyors, Chutes, Skids, Guides, and Ways .Package and Article Carriers .Handling: Hand and Hoist-Line Implements .Robots |
| 245 289 28 26 66 87 139 57 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: Manufacturing . Textiles: Cloth Finishing . Textiles: Braiding, Netting, and Lace Making . Textiles: Braiding, Netting, and Lace Making . Textiles: Weaving . Textiles: Weaving . Textiles: Spinning, Twisting, and Twining | 258 186 406 212 198 187* 193 224 294 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) .Conveyors, Chutes, Skids, Guides, and Ways .Package and Article Carriers .Handling: Hand and Hoist-Line Implements |
| 245 289 28 26 66 87 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: Manufacturing . Textiles: Cloth Finishing . Textiles: Braiding, Netting, and Lace Making . Textiles: Braiding, Netting, and Lace Making . Textiles: Weaving . Textiles: Spinning, Twisting, and | 258 186 406 212 198 187* 193 224 294 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) .Conveyors, Chutes, Skids, Guides, and Ways .Package and Article Carriers .Handling: Hand and Hoist-Line Implements .Robots (Note: Does not accept applications.) |
| 245 289 28 26 66 87 139 57 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: ManufacturingTextiles: Cloth FinishingTextiles: Braiding, Netting, and Lace MakingTextiles: Braiding, Netting, and Lace MakingTextiles: WeavingTextiles: Spinning, Twisting, and TwiningTextiles: Fiber Preparation | 258 186 406 212 198 187* 193 224 294 901 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) .Conveyors, Chutes, Skids, Guides, and Ways .Package and Article Carriers .Handling: Hand and Hoist-Line Implements .Robots (Note: Does not accept applications.) FLUID HANDLING |
| 245 289 28 26 66 87 139 57 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: Manufacturing .Textiles: Cloth Finishing .Textiles: Braiding, Netting, and Lace Making .Textiles: Braiding, Netting, and Lace Making .Textiles: Weaving .Textiles: Spinning, Twisting, and Twining .Textiles: Fiber Preparation EARTH WORKING AND | 258 186 406 212 198 187* 193 224 294 901 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) .Conveyors, Chutes, Skids, Guides, and Ways .Package and Article Carriers .Handling: Hand and Hoist-Line Implements .Robots (Note: Does not accept applications.) FLUID HANDLING .Ventilation |
| 245 289 28 26 66 87 139 57 | .Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers /147-159 (See also Group I for processes and compositions.) .Wire Fabrics and Structure .Knots and Knot Tying .Textiles: ManufacturingTextiles: Cloth FinishingTextiles: Braiding, Netting, and Lace MakingTextiles: Braiding, Netting, and Lace MakingTextiles: WeavingTextiles: Spinning, Twisting, and TwiningTextiles: Fiber Preparation | 258 186 406 212 198 187* 193 224 294 901 | HANDLING .Railway Mail Delivery .Merchandising .Conveyors: Fluid Current .Traversing Hoists .Conveyors: Power-Driven .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.) .Conveyors, Chutes, Skids, Guides, and Ways .Package and Article Carriers .Handling: Hand and Hoist-Line Implements .Robots (Note: Does not accept applications.) FLUID HANDLING |

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

MANUFACTURING MECHANICAL POWER, STATIC, AND RELATED ARTS

| 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- | | STATIONERY, BOOKS |
| | cles | 118* | .Coating Apparatus |
| 104 | .Railways | 184 | .Lubrication |
| 246 | Railway Switches and Signals | 101 | .Printing |
| 105 | Railway Rolling Stock | 400 | Typewriting Machines |
| 238 | Railways: Surface Track | 199 | . Type Casting |
| 280 | .Land Vehicles (e.g., chassis and | 276 | Typesetting |
| •00 | running gear) | 401 | .Coating Implements with Material 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 | | |
| 301 | Land Vehicles: Wheels and Axles | | MANUFACTURING, |
| 295 | Railway Wheels and Axles | | ASSEMBLING, INCLUDING |
| 152 | .Resilient Tires and Wheels | | SOME CORRELATIVE |
| 305 | .Wheel Substitutes for Land | 164 | MISCELLANEOUS PRODUCTS |
| | Vehicles | 164 | Metal Founding |
| 213 | .Railway Draft Appliances | 266* 29* | .Metallurgical Apparatus .Metal Working (General Manufac- |
| 278 | Land Vehicles: Animal Draft Appliances | 29** | turing) |
| 293 | .Vehicle Fenders | 440 | /2-25.42, 81.01-91.8, 560, 560.1, 284 |
| 267* | .Spring Devices | 412 | .Bookbinding: Process and Apparatus |
| 410 | /2-68, 140.11-141.7 | 53 | .Package Making |
| 410 | .Freight Accommodation on Freight Carrier | 59 | .Chain, Staple, and Horseshoe Making |
| | MOTORS, ENGINES, PUMPS | 76 | .Metal Tools and Implements, Making |
| | (See also Group II, Electricity, | 79 | .Button Making |
| | for electric motors.) | 493 | .Manufacturing Container or Tube |
| 60* | .Power Plants /200.1-204, 221-721 (See also | 473 | from Paper; or Other Manufactur- |
| | Group II for chemical reaction | 131 | ing from a Sheet or Web .Tobacco |
| | motors, subclasses 205-220.) | 131 | |
| 123 | .Internal-Combustion Engines | 147 | .Coopering .Wheelwright Machines |
| 417 | .Pumps | 163 | .Needle and Pin Making |
| 91 | .Motors: Expansible Chamber Type | 103 | recore and I in making |

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

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

| Class | <u>Subject</u> | Class | <u>Subject</u> |
|-------|--|------------|--|
| 227 | .Elongated-Member-Driving Appara- | 413 | .Sheet Metal Container Making |
| | 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, | 2.4 | cleaning processes.) |
| 400 | AND MACHINING | 34 | Drying and Gas or Vapor Contact |
| 483 | Tool Changing | 6 0 | 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 | | WANTE ING OR STORMS |
| | Washer Making: Process and Ap- | | HANDLING OR STORING |
| 20* | paratus | | SHEETS, WEBS, STRANDS, |
| 29* | .Metal Working (Filing) /76.1-77 | 402 | AND CABLE |
| 29* | .Metal Working (Plural Diverse | 402 | Binder Device Releasably Engaging |
| 29. | Manufacturing Apparatus Includ- | 226 | Aperture or Notch of Sheet .Advancing Material of Indetermi- |
| | ing Means For Metal Shaping or | 220 | nate Length |
| | Assembling) | 242 | .Winding, Tensioning, or Guiding |
| | /33R-33T | 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 | | |
| 82 | .Turning | 74 | MACHINE ELEMENT OR |
| 83 | .Cutting | 45.5 | 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 | 476 | Systems or Components |
| 225 | .Severing by Tearing or Breaking | 476 | Friction Gear Transmission Systems |
| 72 | .Metal Deforming | 477 | or Components |
| 425 | .Plastic Article or Earthenware | 477 | Interrelated Power Delivery Controls, Including Engine Control |
| | Shaping or Treating: Apparatus | 492 | Roll or Roller |
| 100 | .Presses | 474 | .Koli di Kolici |

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

| | | ŕ | , |
|--------------|--|--------------|---|
| <u>Class</u> | Subject | <u>Class</u> | <u>Subject</u> |
| 464 | .Rotary Shafts, Gudgeons, Housings, and Flexible Couplings for Rotary Shafts | 411 | .Expanded, Threaded, Driven, Headed, Tool-Deformed, or Locked-Threaded Fastener |
| 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 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) | | |
| 01 | /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.) | | |
| 270 | /221-392 | | |
| 279 277 | .Chucks or Sockets .Seal for a Joint or Juncture | | |
| <i>411</i> | .scar for a some of sufficience | | |
| | FASTENINGS | | |
| 292 | .Closure Fasteners | | |
| 24 | .Buckles, Buttons, Clasps, etc. | | |

II-14

June 2008 GROUP III. BODY TREATMENT AND CARE, HEATING AND COOLING, MATERIAL HANDLING AND TREATMENT, MECHANICAL

MANUFACTURING MECHANICAL POWER, STATIC, AND RELATED ARTS

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

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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 | D22 | ~ |
| D3 | TRAVEL GOODS AND PERSONAL BELONGINGS | D23 | ENVIRONMENTAL HEATING AND 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>

Class

Subject

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