



O'Connor & Company

O'Connor & Company Patent Proficiencies by U.S. Patent Classification

A U.S. Patent Classification is a code which provides a method for categorizing an invention. Classifications are typically expressed as, for example, "482/1." The first number, 482, represents the class of invention. The number following the slash is the subclass of invention within the class. There are about 450 classes of invention and about 150,000 subclasses of invention in the United States Patent Classification (USPC) system. Classes and subclasses have titles which provide a short description of the class or subclass. Many classes and subclasses have explicitly defined relationships to one another.

The U.S. Patent Classification is at www.uspto.gov/go/classification/selectnumwithtitle.htm.

Practically speaking, the USPC represents a searchable collection of patents grouped together according to similarly claimed subject matter. Classification is used both as a tool for finding patents (e.g., patentability searches), and for assisting in the assignment of patent applications to USPTO examiners for examination purposes.

Additionally, patent classification can assist inventors and companies in locating a suitable patent practitioner for representation before the USPTO. The following list comprises codes that identify subject matter for which we can competently assist clients in patent drafting, prosecution, and competitive analysis.

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*"Intellectual-property strategy consulting and patent prosecution
for chemicals, materials, energy, biotechnology, and business methods"*

U.S. Patent Bar Registration Nos. 56692 and 56693

008 Bleaching and dyeing...

015 Brushing, scrubbing, and general cleaning

019 Textiles: fiber preparation

023 Chemistry: physical processes

024 Buckles, buttons, clasps, etc.

026 Textiles: cloth finishing

028 Textiles: manufacturing

029 Metal working

034 Drying and gas or vapor contact with solids

038 Textiles: ironing or smoothing

044 Fuel and related compositions

048 Gas: heating and illuminating

051 Abrasive tool making process, material, or composition

053 Package making

055 Gas separation

057 Textiles: spinning, twisting, and twining

060 Power plants

062 Refrigeration

065 Glass manufacturing

066 Textiles: knitting

068 Textiles: fluid treating apparatus

071 Chemistry: fertilizers

072 Metal deforming

073 Measuring and testing

075 Specialized metallurgical processes, compositions for use therein...

087 Textiles: braiding, netting, and lace making

091 Motors: expansible chamber type

092 Expansible chamber devices

095 Gas separation: processes

096 Gas separation: apparatus

101 Printing

106 Compositions: coating or plastic

110 Furnaces

117 Single-crystal, oriented-crystal, and epitaxy growth processes; non-coating apparatus...

118 Coating apparatus

122 Liquid heaters and vaporizers
123 Internal-combustion engines
126 Stoves and furnaces
127 Sugar, starch, and carbohydrates
134 Cleaning and liquid contact with solids
136 Batteries: thermoelectric and photoelectric
137 Fluid handling
138 Pipes and tubular conduits
139 Textiles: weaving
141 Fluent material handling, with receiver or receiver coating means
148 Metal treatment
149 Explosive and thermic compositions or charges
152 Resilient tires and wheels
156 Adhesive bonding and miscellaneous chemical manufacture
159 Concentrating evaporators
162 Paper making and fiber liberation
164 Metal founding
165 Heat exchange
169 Fire extinguishers
174 Electricity: conductors and insulators
177 Weighing scales
184 Lubrication
191 Electricity: transmission to vehicles
196 Mineral oils: apparatus
200 Electricity: circuit makers and breakers
201 Distillation: processes, thermolytic
202 Distillation: apparatus
203 Distillation: processes, separatory
204 Chemistry: electrical and wave energy
205 Electrolysis: processes, compositions used therein, and methods...
206 Special receptacle or package
208 Mineral oils: processes and products
209 Classifying, separating, and assorting solids
210 Liquid purification or separation
216 Etching a substrate: processes

219 Electric heating
226 Advancing material of indeterminate length
228 Metal fusion bonding
236 Automatic temperature and humidity regulation
237 Heating systems
239 Fluid sprinkling, spraying, and diffusing
241 Solid material comminution or disintegration
250 Radiant energy
251 Valves and valve actuation
252 Compositions
257 Active solid-state devices (e.g., transistors, solid-state diodes)
260 Chemistry of carbon compounds
261 Gas and liquid contact apparatus
264 Plastic and nonmetallic article shaping or treating: processes
266 Metallurgical apparatus
307 Electrical transmission or interconnection systems
310 Electrical generator or motor structure
318 Electricity: motive power systems
320 Electricity: battery or capacitor charging or discharging
322 Electricity: single generator systems
323 Electricity: power supply or regulation systems
324 Electricity: measuring and testing
326 Electronic digital logic circuitry
327 Miscellaneous active electrical nonlinear devices, circuits, and systems
329 Demodulators
330 Amplifiers
331 Oscillators
332 Modulators
333 Wave transmission lines and networks
334 Tuners
335 Electricity: magnetically operated switches, magnets, and electromagnets
336 Inductor devices
337 Electricity: electrothermally or thermally actuated switches
338 Electrical resistors
340 Communications: electrical

341 Coded data generation or conversion
342 Communications: directive radio wave systems and devices (e.g., radar, radio navigation)
343 Communications: radio wave antennas
345 Computer graphics processing and selective visual display systems
359 Optical: systems and elements
361 Electricity: electrical systems and devices
369 Dynamic information storage or retrieval
372 Coherent light generators
373 Industrial electric heating furnaces
374 Thermal measuring and testing
375 Pulse or digital communications
376 Induced nuclear reactions: processes, systems, and elements
377 Electrical pulse counters, pulse dividers, or shift registers: circuits and systems
378 X-ray or gamma ray systems or devices
381 Electrical audio signal processing systems and devices
385 Optical waveguides
392 Electric resistance heating devices
398 Optical communications
401 Coating implements with material supply
414 Material or article handling
416 Fluid reaction surfaces (i.e., impellers)
417 Pumps
418 Rotary expansible chamber devices
419 Powder metallurgy processes
420 Alloys or metallic compositions
422 Chemical apparatus and process disinfecting, deodorizing, preserving, or sterilizing
423 Chemistry of inorganic compounds
424 Drug, bio-affecting and body treating compositions
425 Plastic article or earthenware shaping or treating: apparatus
426 Food or edible material: processes, compositions, and products
427 Coating processes
429 Chemistry: electrical current producing apparatus, product, and process
430 Radiation imagery chemistry: process, composition, or product thereof
431 Combustion
432 Heating

435 Chemistry: molecular biology and microbiology
436 Chemistry: analytical and immunological testing
438 Semiconductor device manufacturing: process
439 Electrical connectors
442 Fabric (woven, knitted, or nonwoven textile or cloth, etc.)
460 Crop threshing or separating
493 Manufacturing container or tube from paper; or other manufacturing from a sheet or web
501 Compositions: ceramic
502 Catalyst, solid sorbent, or support therefor: product or process of making
504 Plant protecting and regulating compositions
505 Superconductor technology: apparatus, material, process
506 Combinatorial chemistry technology: method, library, apparatus
507 Earth boring, well treating, and oil field chemistry
508 Solid anti-friction devices, materials therefor, lubricant or separant compositions...
510 Cleaning compositions for solid surfaces, auxiliary compositions therefor...
512 Perfume compositions
514 Drug, bio-affecting and body treating compositions
516 Colloid systems and wetting agents; subcombinations thereof; processes of
518 Chemistry: fischer-tropsch processes; or purification or recovery of products thereof
520 Synthetic resins or natural rubbers -- part of the class 520 series
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528 Synthetic resins or natural rubbers -- part of the class 520 series
530 Chemistry: natural resins or derivatives; peptides or proteins; lignins or reaction products...
532 Organic compounds -- part of the class 532-570 series
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585 Chemistry of hydrocarbon compounds
588 Hazardous or toxic waste destruction or containment
700 Data processing: generic control systems or specific applications
701 Data processing: vehicles, navigation, and relative location
702 Data processing: measuring, calibrating, or testing
703 Data processing: structural design, modeling, simulation, and emulation
704 Data processing: speech signal processing, linguistics, language translation...
705 Data processing: financial, business practice, management, or cost/price determination
706 Data processing: artificial intelligence
707 Data processing: database and file management or data structures
708 Electrical computers: arithmetic processing and calculating
709 Electrical computers and digital processing systems: multicomputer data transferring
710 Electrical computers and digital data processing systems: input/output
711 Electrical computers and digital processing systems: memory
712 Electrical computers and digital processing systems: processing architectures...
713 Electrical computers and digital processing systems: support
714 Error detection/correction and fault detection/recovery
715 Data processing: presentation processing of document, operator interface processing...
716 Data processing: design and analysis of circuit or semiconductor mask
717 Data processing: software development, installation, and management
718 Electrical computers and digital processing systems...
719 Electrical computers and digital processing systems...
720 Dynamic optical information storage or retrieval
726 Information security

800 Multicellular living organisms and unmodified parts thereof and related processes
903 Hybrid electric vehicles (hevs)
930 Peptide or protein sequence
976 Nuclear technology
977 Nanotechnology
987 Organic compounds containing a Bi, Sb, as, or P atom...
D05 Textile or paper yard goods; sheet material
D09 Packages and containers for goods
D10 Measuring, testing, or signalling instruments
D13 Equipment for production, distribution, or transformation of energy
D23 Environmental heating and cooling; fluid handling and sanitary equipment
D24 Medical and laboratory equipment

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