



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.

O'Connor & Company

P.O. Box 580

Minnetrista, MN 55364

Phone: 1-952-472-9884

Fax: 1-866-586-5349

E-mail: info@oconnorcompanypllc.com

Internet: www.oconnorcompanypllc.com

*"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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527 Synthetic resins or natural rubbers -- part of the class 520 series
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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570 Organic compounds -- part of the class 532-570 series
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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