

**San Diego Utility Patents [1990 - 1999] Classified by  
The US Patent Office's *Original Classification Scheme***

<b>OR class</b>	<b>Description</b>	<b>Patents</b>	<b>Share</b>
435	Chemistry: Molecular Biology and Microbiology	809	7.4%
514	Drug, Bio-Affecting and Body Treating Compositions	496	4.5%
424	Drug, Bio-Affecting and Body Treating Compositions	287	2.6%
347	Incremental Printing of Symbolic Information	261	2.4%
604	Surgery	242	2.2%
530	Chemistry: Natural Resins or Derivatives; Peptides or Proteins; Lignins or Reaction Products Thereof	225	2.0%
536	Organic Compounds -- Part of the Class 532-570 Series	221	2.0%
60	Power Plants	220	2.0%
375	Pulse or Digital Communications	185	1.7%
600	Surgery	177	1.6%
473	Games Using Tangible Projectile	164	1.5%
370	Multiplex Communications	147	1.3%
455	Telecommunications	138	1.3%
372	Coherent Light Generators	123	1.1%
250	Radiant Energy	122	1.1%
606	Surgery	120	1.1%
340	Communications: Electrical	111	1.0%
345	Computer Graphics Processing, Operator Interface Processing, and Selective Visual Display Systems	110	1.0%
360	Dynamic Magnetic Information Storage or Retrieval	109	1.0%
324	Electricity: Measuring and Testing	108	1.0%
73	Measuring and Testing	102	0.9%
428	Stock Material or Miscellaneous Articles	98	0.9%
29	Metal Working	89	0.8%
359	Optics: Systems (Including Communication) and Elements	89	0.8%
361	Electricity: Electrical Systems and Devices	87	0.8%
348	Television	86	0.8%
422	Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing	83	0.8%
210	Liquid Purification or Separation	79	0.7%
356	Optics: Measuring and Testing	78	0.7%
264	Plastic and Nonmetallic Article Shaping or Treating: Processes	76	0.7%
52	Static Structures (e.g., Buildings)	75	0.7%
128	Surgery	74	0.7%
342	Communications: Directive Radio Wave Systems and Devices (e.g., Radar, Radio Navigation)	74	0.7%
248	Supports	71	0.6%
156	Adhesive Bonding and Miscellaneous Chemical Manufacture	70	0.6%
439	Electrical Connectors	70	0.6%
239	Fluid Sprinkling, Spraying, and Diffusing	69	0.6%
427	Coating Processes	69	0.6%
137	Fluid Handling	68	0.6%
280	Land Vehicles	67	0.6%
482	Exercise Devices	66	0.6%
433	Dentistry	66	0.6%
623	Prosthesis (i.e., Artificial Body Members), Parts Thereof, or Aids and Accessories Therefor	65	0.6%
257	Active Solid-State Devices (e.g., Transistors, Solid-State Diodes)	65	0.6%
2	Apparel	64	0.6%

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379	Telephonic Communications	63	0.6%
206	Special Receptacle or Package	62	0.6%
343	Communications: Radio Wave Antennas	62	0.6%
362	Illumination	61	0.6%
436	Chemistry: Analytical and Immunological Testing	60	0.5%
4	Baths, Closets, Sinks, and Spitoons	60	0.5%
385	Optical Waveguides	58	0.5%
438	Semiconductor Device Manufacturing: Process	58	0.5%
417	Pumps	57	0.5%
358	Facsimile and Static Presentation Processing	56	0.5%
704	Data Processing: Speech Signal Processing, Linguistics, Language Translation, and Audio Compression/Decompression	52	0.5%
244	Aeronautics	52	0.5%
327	Miscellaneous Active Electrical Nonlinear Devices, Circuits, and Systems	51	0.5%
367	Communications, Electrical: Acoustic Wave Systems and Devices	50	0.5%
114	Ships	49	0.4%
222	Dispensing	47	0.4%
224	Package and Article Carriers	46	0.4%
219	Electric Heating	46	0.4%
714	Error Detection/Correction and Fault Detection/Recovery	45	0.4%
341	Coded Data Generation or Conversion	44	0.4%
204	Chemistry: Electrical and Wave Energy	44	0.4%
380	Cryptography	42	0.4%
62	Refrigeration	42	0.4%
602	Surgery: Splint, Brace, or Bandage	42	0.4%
174	Electricity: Conductors and Insulators	42	0.4%
382	Image Analysis	42	0.4%
709	Electrical Computers and Digital Processing Systems: Multiple Computer or Process Coordinating	42	0.4%
400	Typewriting Machines	41	0.4%
123	Internal-Combustion Engines	40	0.4%
707	Data Processing: Database and File Management, Data Structures, or Document Processing	39	0.4%
607	Surgery: Light, Thermal, and Electrical Application	38	0.3%
228	Metal Fusion Bonding	37	0.3%
708	Electrical Computers: Arithmetic Processing and Calculating	36	0.3%
441	Buoys, Rafts, and Aquatic Devices	36	0.3%
405	Hydraulic and Earth Engineering	36	0.3%
119	Animal Husbandry	35	0.3%
220	Receptacles	35	0.3%
30	Cutlery	35	0.3%
15	Brushing, Scrubbing, and General Cleaning	35	0.3%
351	Optics: Eye Examining, Vision Testing and Correcting	33	0.3%
700	Data Processing: Generic Control Systems or Specific Applications	33	0.3%
702	Data Processing: Measuring, Calibrating, or Testing	33	0.3%
5	Beds	32	0.3%
505	Superconductor Technology: Apparatus, Material, Process	32	0.3%
415	Rotary Kinetic Fluid Motors or Pumps	32	0.3%

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33	Geometrical Instruments	32	0.3%
349	Liquid Crystal Cells, Elements and Systems	31	0.3%
235	Registers	31	0.3%
315	Electric Lamp and Discharge Devices: Systems	31	0.3%
84	Music	31	0.3%
396	Photography	30	0.3%
165	Heat Exchange	30	0.3%
330	Amplifiers	30	0.3%
378	X-Ray or Gamma Ray Systems or Devices	30	0.3%
705	Data Processing: Financial, Business Practice, Management, or Cost/Price Determination	29	0.3%
800	Multicellular Living Organisms and Unmodified Parts Thereof and Related Processes	29	0.3%
326	Electronic Digital Logic Circuitry	29	0.3%
106	Compositions: Coating or Plastic	29	0.3%
242	Winding, Tensioning, or Guiding	28	0.3%
524	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	27	0.2%
426	Food or Edible Material: Processes, Compositions, and Products	27	0.2%
310	Electrical Generator or Motor Structure	27	0.2%
43	Fishing, Trapping, and Vermin Destroying	27	0.2%
24	Buckles, Buttons, Clasps, Etc.	27	0.2%
333	Wave Transmission Lines and Networks	27	0.2%
365	Static Information Storage and Retrieval	26	0.2%
601	Surgery: Kinesitherapy	25	0.2%
434	Education and Demonstration	25	0.2%
710	Electrical Computers and Digital Data Processing Systems: Input/Output	25	0.2%
521	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	24	0.2%
713	Electrical Computers and Digital Processing Systems: Support	24	0.2%
712	Electrical Computers and Digital Processing Systems: Processing Architectures and Instruction Processing (e.g., Processors)	24	0.2%
711	Electrical Computers and Digital Processing Systems: Memory	24	0.2%
294	Handling: Hand and Hoist-Line Implements	23	0.2%
273	Amusement Devices: Games	23	0.2%
451	Abrading	22	0.2%
74	Machine Element or Mechanism	22	0.2%
320	Electricity: Battery or Capacitor Charging or Discharging	22	0.2%
292	Closure Fasteners	22	0.2%
307	Electrical Transmission or Interconnection Systems	21	0.2%
544	Organic Compounds -- Part of the Class 532-570 Series	21	0.2%
381	Electrical Audio Signal Processing Systems and Devices	21	0.2%
414	Material or Article Handling	21	0.2%
318	Electricity: Motive Power Systems	20	0.2%
81	Tools	20	0.2%
706	Data Processing: Artificial Intelligence	20	0.2%
40	Card, Picture, or Sign Exhibiting	20	0.2%
430	Radiation Imagery Chemistry: Process, Composition, or Product Thereof	19	0.2%
312	Supports: Cabinet Structure	19	0.2%
36	Boots, Shoes, and Leggings	19	0.2%

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549	Organic Compounds -- Part of the Class 532-570 Series	19	0.2%
376	Induced Nuclear Reactions: Processes, Systems, and Elements	19	0.2%
211	Supports: Racks	19	0.2%
501	Compositions: Ceramic	19	0.2%
229	Envelopes, Wrappers, and Paperboard Boxes	18	0.2%
118	Coating Apparatus	18	0.2%
374	Thermal Measuring and Testing	18	0.2%
252	Compositions	18	0.2%
408	Cutting by Use of Rotating Axially Moving Tool	18	0.2%
271	Sheet Feeding or Delivering	18	0.2%
132	Toilet	17	0.2%
331	Oscillators	17	0.2%
336	Inductor Devices	17	0.2%
446	Amusement Devices: Toys	16	0.1%
423	Chemistry of Inorganic Compounds	16	0.1%
70	Locks	16	0.1%
296	Land Vehicles: Bodies and Tops	16	0.1%
463	Amusement Devices: Games	16	0.1%
548	Organic Compounds -- Part of the Class 532-570 Series	16	0.1%
205	Electrolysis: Processes, Compositions Used Therein, and Methods of Preparing the Compositions	16	0.1%
504	Plant Protecting and Regulating Compositions	16	0.1%
297	Chairs and Seats	15	0.1%
335	Electricity: Magnetically Operated Switches, Magnets, and Electromagnets	15	0.1%
363	Electric Power Conversion Systems	15	0.1%
16	Miscellaneous Hardware	15	0.1%
134	Cleaning and Liquid Contact with Solids	15	0.1%
701	Data Processing: Vehicles, Navigation, and Relative Location	15	0.1%
251	Valves and Valve Actuation	14	0.1%
42	Firearms	14	0.1%
353	Optics: Image Projectors	14	0.1%
99	Foods and Beverages: Apparatus	14	0.1%
285	Pipe Joints or Couplings	13	0.1%
180	Motor Vehicles	13	0.1%
188	Brakes	13	0.1%
89	Ordnance	13	0.1%
411	Expanded, Threaded, Driven, Headed, Tool-Deformed, or Locked-Threaded Fastener	13	0.1%
725	Interactive Video Distribution Systems	13	0.1%
221	Article Dispensing	13	0.1%
416	Fluid Reaction Surfaces (i.e., Impellers)	13	0.1%
198	Conveyors: Power-Driven	13	0.1%
136	Batteries: Thermoelectric and Photoelectric	12	0.1%
216	Etching a Substrate: Processes	12	0.1%
546	Organic Compounds -- Part of the Class 532-570 Series	12	0.1%
540	Organic Compounds -- Part of the Class 532-570 Series	12	0.1%
525	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	12	0.1%
425	Plastic Article or Earthenware Shaping or Treating: Apparatus	12	0.1%
528	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	12	0.1%

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49	Movable or Removable Closures	12	0.1%
209	Classifying, Separating, and Assorting Solids	12	0.1%
403	Joints and Connections	12	0.1%
141	Fluent Material Handling, with Receiver or Receiver Coacting Means	12	0.1%
95	Gas Separation: Processes	11	0.1%
472	Amusement Devices	11	0.1%
323	Electricity: Power Supply or Regulation Systems	11	0.1%
83	Cutting	11	0.1%
72	Metal Deforming	11	0.1%
431	Combustion	11	0.1%
442	Fabric (Woven, Knitted, or Nonwoven Textile or Cloth, Etc.)	11	0.1%
313	Electric Lamp and Discharge Devices	11	0.1%
102	Ammunition and Explosives	11	0.1%
47	Plant Husbandry	11	0.1%
138	Pipes and Tubular Conduits	10	0.1%
283	Printed Matter	10	0.1%
200	Electricity: Circuit Makers and Breakers	10	0.1%
223	Apparel Apparatus	10	0.1%
554	Organic Compounds -- Part of the Class 532-570 Series	10	0.1%
215	Bottles and Jars	10	0.1%
399	Electrophotography	10	0.1%
556	Organic Compounds -- Part of the Class 532-570 Series	9	0.1%
281	Books, Strips, and Leaves	9	0.1%
101	Printing	9	0.1%
187	Elevator, Industrial Lift Truck, or Stationary Lift for Vehicle	9	0.1%
301	Land Vehicles: Wheels and Axles	9	0.1%
126	Stoves and Furnaces	9	0.1%
377	Electrical Pulse Counters, Pulse Dividers, or Shift Registers: Circuits and Systems	9	0.1%
383	Flexible Bags	9	0.1%
160	Flexible or Portable Closure, Partition, or Panel	9	0.1%
53	Package Making	9	0.1%
703	Data Processing: Structural Design, Modeling, Simulation, and Emulation	9	0.1%
203	Distillation: Processes, Separatory	9	0.1%
164	Metal Founding	9	0.1%
346	Recorders	9	0.1%
419	Powder Metallurgy Processes	8	0.1%
429	Chemistry: Electrical Current Producing Apparatus, Product, and Process	8	0.1%
34	Drying and Gas or Vapor Contact with Solids	8	0.1%
135	Tent, Canopy, Umbrella, or Cane	8	0.1%
523	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	8	0.1%
148	Metal Treatment	8	0.1%
392	Electric Resistance Heating Devices	8	0.1%
560	Organic Compounds -- Part of the Class 532-570 Series	8	0.1%
568	Organic Compounds -- Part of the Class 532-570 Series	8	0.1%
241	Solid Material Comminution or Disintegration	8	0.1%
368	Horology: Time Measuring Systems or Devices	8	0.1%
100	Presses	8	0.1%

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716	Data Processing: Design and Analysis of Circuit or Semiconductor Mask	7	0.1%
182	Fire Escape, Ladder, or Scaffold	7	0.1%
261	Gas and Liquid Contact Apparatus	7	0.1%
269	Work Holders	7	0.1%
277	Seal for a Joint or Juncture	7	0.1%
55	Gas Separation	7	0.1%
109	Safes, Bank Protection, or a Related Device	7	0.1%
124	Mechanical Guns and Projectors	7	0.1%
192	Clutches and Power-Stop Control	6	0.1%
108	Horizontally Supported Planar Surfaces	6	0.1%
169	Fire Extinguishers	6	0.1%
181	Acoustics	6	0.1%
92	Expansible Chamber Devices	6	0.1%
254	Implements or Apparatus for Applying Pushing or Pulling Force	6	0.1%
332	Modulators	6	0.1%
386	Television Signal Processing for Dynamic Recording or Reproducing	6	0.1%
369	Dynamic Information Storage or Retrieval	6	0.1%
338	Electrical Resistors	6	0.1%
54	Harness	6	0.1%
105	Railway Rolling Stock	5	0.0%
299	Mining or In Situ Disintegration of Hard Material	5	0.0%
65	Glass Manufacturing	5	0.0%
63	Jewelry	5	0.0%
122	Liquid Heaters and Vaporizers	5	0.0%
104	Railways	5	0.0%
76	Metal Tools and Implements, Making	5	0.0%
225	Severing by Tearing or Breaking	5	0.0%
410	Freight Accommodation On Freight Carrier	4	0.0%
409	Gear Cutting, Milling, or Planing	4	0.0%
337	Electricity: Electrothermally or Thermally Actuated Switches	4	0.0%
14	Bridges	4	0.0%
144	Woodworking	4	0.0%
140	Wireworking	4	0.0%
7	Compound Tools	4	0.0%
366	Agitating	4	0.0%
404	Road Structure, Process, or Apparatus	4	0.0%
562	Organic Compounds -- Part of the Class 532-570 Series	4	0.0%
558	Organic Compounds -- Part of the Class 532-570 Series	4	0.0%
552	Organic Compounds -- Part of the Class 532-570 Series	4	0.0%
249	Static Molds	4	0.0%
184	Lubrication	4	0.0%
322	Electricity: Single Generator Systems	4	0.0%
177	Weighing Scales	4	0.0%
96	Gas Separation: Apparatus	4	0.0%
116	Signals and Indicators	4	0.0%
256	Fences	4	0.0%
440	Marine Propulsion	4	0.0%
110	Furnaces	3	0.0%
564	Organic Compounds -- Part of the Class 532-570 Series	3	0.0%

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8	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers	3	0.0%
71	Chemistry: Fertilizers	3	0.0%
588	Hazardous or Toxic Waste Destruction or Containment	3	0.0%
75	Specialized Metallurgical Processes, Compositions for Use Therein, Consolidated Metal Powder Compositions, and Loose Metal Particulate Mixtures	3	0.0%
717	Data Processing: Software Development, Installation, and Management	3	0.0%
56	Harvesters	3	0.0%
445	Electric Lamp or Space Discharge Component or Device Manufacturing	3	0.0%
510	Cleaning Compositions for Solid Surfaces, Auxiliary Compositions Therefor, or Processes of Preparing the Compositions	3	0.0%
503	Record Receiver Having Plural Interactive Leaves or a Colorless Color Former, Method of Use, or Developer Therefor	3	0.0%
474	Endless Belt Power Transmission Systems or Components	3	0.0%
266	Metallurgical Apparatus	3	0.0%
208	Mineral Oils: Processes and Products	3	0.0%
202	Distillation: Apparatus	3	0.0%
454	Ventilation	3	0.0%
194	Check-Actuated Control Mechanisms	3	0.0%
290	Prime-Mover Dynamo Plants	3	0.0%
452	Butchering	3	0.0%
232	Deposit and Collection Receptacles	3	0.0%
300	Brush, Broom, and Mop Making	3	0.0%
384	Bearings	3	0.0%
388	Electricity: Motor Control Systems	3	0.0%
173	Tool Driving or Impacting	3	0.0%
172	Earth Working	3	0.0%
420	Alloys or Metallic Compositions	3	0.0%
418	Rotary Expandible Chamber Devices	3	0.0%
526	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	3	0.0%
152	Resilient Tires and Wheels	3	0.0%
355	Photocopying	2	0.0%
236	Automatic Temperature and Humidity Regulation	2	0.0%
502	Catalyst, Solid Sorbent, or Support Therefor: Product or Process of Making	2	0.0%
401	Coating Implements with Material Supply	2	0.0%
585	Chemistry of Hydrocarbon Compounds	2	0.0%
402	Binder Device Releasably Engaging Aperture or Notch of Sheet	2	0.0%
27	Undertaking	2	0.0%
329	Demodulators	2	0.0%
238	Railways: Surface Track	2	0.0%
267	Spring Devices	2	0.0%
166	Wells	2	0.0%
111	Planting	2	0.0%
117	Single-Crystal, Oriented-Crystal, and Epitaxy Growth Processes; Non-Coating Apparatus Therefor	2	0.0%
212	Traversing Hoists	2	0.0%

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190	Trunks and Hand-Carried Luggage	2	0.0%
162	Paper Making and Fiber Liberation	2	0.0%
534	Organic Compounds -- Part of the Class 532-570 Series	2	0.0%
150	Purses, Wallets, and Protective Covers	2	0.0%
91	Motors: Expansible Chamber Type	2	0.0%
28	Textiles: Manufacturing	1	0.0%
1	** Classification Undetermined **	1	0.0%
38	Textiles: Ironing or Smoothing	1	0.0%
37	Excavating	1	0.0%
186	Merchandising	1	0.0%
432	Heating	1	0.0%
178	Telegraphy	1	0.0%
168	Farriery	1	0.0%
373	Industrial Electric Heating Furnaces	1	0.0%
493	Manufacturing Container or Tube From Paper; or Other Manufacturing From a Sheet or Web	1	0.0%
125	Stone Working	1	0.0%
352	Optics: Motion Pictures	1	0.0%
406	Conveyors: Fluid Current	1	0.0%
139	Textiles: Weaving	1	0.0%
522	Synthetic Resins or Natural Rubbers -- Part of the Class 520 Series	1	0.0%
227	Elongated-Member-Driving Apparatus	1	0.0%
508	Solid Anti-Friction Devices, Materials Therefor, Lubricant or Separate Compositions for Moving Solid Surfaces, and Miscellaneous Mineral Oil Compositions	1	0.0%
86	Ammunition and Explosive-Charge Making	1	0.0%
512	Perfume Compositions	1	0.0%
131	Tobacco	1	0.0%
201	Distillation: Processes, Thermolytic	1	0.0%
68	Textiles: Fluid Treating Apparatus	1	0.0%
477	Interrelated Power Delivery Controls, Including Engine Control	1	0.0%
450	Foundation Garments	1	0.0%
516	Colloid Systems and Wetting Agents; Subcombinations Thereof; Processes Of	1	0.0%
44	Fuel and Related Compositions	1	0.0%
279	Chucks or Sockets	1	0.0%
196	Mineral Oils: Apparatus	1	0.0%
289	Knots and Knot Tying	1	0.0%
193	Conveyors, Chutes, Skids, Guides, and Ways	1	0.0%
191	Electricity: Transmission To Vehicles	1	0.0%
48	Gas: Heating and Illuminating	1	0.0%
293	Vehicle Fenders	1	0.0%
226	Advancing Material of Indeterminate Length	1	0.0%
475	Planetary Gear Transmission Systems or Components	1	0.0%
	<b>Total</b>	<b>10,984</b>	<b>100.0%</b>
<b>Source:</b>	United Stated Office of Patent and Trademark		