

PROCESSES AND PRODUCTS			
Class 205 is an integral part of this Class (Class 204), as shown by the position of this box, and follows the schedule hierarchy of this Class, retaining all pertinent definitions and Class lines of this class.		157.64	....Nitrogen, sulfur, phosphorous or silicon containing product produced
		157.65	....Carbocyclic ring containing product produced
		157.67	...Vitamin product produced
		157.68	...Carbohydrate or protein product produced
		157.69	...Heterocyclic product produced
		157.7	....Hetero sulfur containing
		157.71	....Hetero nitrogen containing
		157.72	....Hetero nitrogen ring contains at least two hetero atoms
155	..Electrical, or wave energy in magnetic field	157.73	...Phosphorous product produced
156	..With discharge	157.74	...Silicon product produced
157.15	..Processes of treating materials by wave energy	157.75	...Heavy metal product produced
157.2	..Isotope separation or enrichment	157.76	...Sulfur product produced
157.21	...Inorganic product produced	157.77	....Nitrogen containing
157.22	....Using laser	157.78	....Oxygen containing
157.3	..Removing a component from normally gaseous mixture	157.79	....Halogen containing
157.4	..Process of preparing desired inorganic material	157.8	....Halogen containing
157.41	...Using laser	157.81	...Nitrogen product produced
157.42	...Using sonic or ultrasonic energy	157.82	....Oxygen containing
157.43	...Using microwave energy	157.83	....Nitroso or oxime containing
157.44	...Using ionizing radiation	157.84	.....Halogen containing
157.45	...Boron, phosphorous or silicon containing product produced	157.85	....Carbon triple bonded to nitrogen containing
157.46	...Nitrogen containing product produced	157.86	....Halogen containing
157.47	...Carbon containing product produced	157.87	...Carboxylic acid or derivative product produced
157.48	...Halogen containing product produced	157.88	....Oxygen other than as part of a carboxylic acid or derivative moiety
157.49	...Sulfur containing product produced	157.89	....Atom other than carbon, hydrogen or oxygen
157.5	...Oxygen containing product produced	157.9	...Alcohol product produced
157.51	....Metal oxide or hydrate thereof	157.91	...Fused or bridged ring containing
157.52	...Hydrogen containing product produced	157.92	...Ether product produced
157.6	..Process or preparing desired organic product containing at least one atom other than carbon and hydrogen	157.93	...Aldehyde or ketone product produced
157.61	...Using laser	157.94	...Halogen product produced
157.62	...Using sonic or ultrasonic energy	157.95	...Carbon and halogen only in product
157.63	...Using ionizing radiation	157.96	....Carbocyclic ring containing
		157.97	.....Aryl ring containing
		157.98	....Unsaturated product
		157.99	....Unsaturation in aryl ring
		158.1	....Carbocyclic ring containing
		158.11	....Two or more diverse halogen atoms containing

158.12	....Four or more carbon atoms containing	461	...With analysis or detailed detection
158.14	..At least one carbocyclic ring and only carbon and hydrogen atoms in product produced	462	...With posttreatment of gel to purify or recover a desired component
158.2	..Processes of purifying materials	463	....Destaining
		464	....Blotting
158.21	...Organic material purified	465	...Preparation in unitary apparatus (e.g., preparative, etc.)
Note: See subclasses 900-914 for art collections pertaining to subclasses 157.15-157.21.		466	...Using slab gel
		467	....Vertical or inclined
		468	...Electrolyte composition
		469	...Gel composition (other than simple agarose or polyacrylamide)
164	.Electrostatic field or electrical discharge	470	....Including manufacture or preparation (e.g., molding, gelation, etc.)
165	..Organic		
166	...Vitamins		
167	...Fats, fatty oils, ester type waxes, or higher fatty acids	471	..Coating or forming of object
		472	..With control responsive to sensed condition
168	...Hydrocarbons		
169	....Halogenated or oxidized	473	....Temperature sensed
170	....Gaseous	474	....Current sensed
171	.....Acetylene	475	...Rubber or vulcanizable gum used to coat or form
172	....Cracking hydrocarbon oils		
173	..Carbon	476	....Sheet, web, wire, or filament of indeterminate length formed or coated
174	..Sulfur-oxygen compounds		
175	..Hydrogen peroxide		
176	..Ozone	477	...Alternating current
177	..Nitrogen compounds	478	...With irradiation or illumination (e.g., for curing, etc.)
178	...Arc or spark discharge		
179	....Nitrogen oxides		
450	.Electrophoresis or electro-osmosis processes and electrolyte compositions therefor when not provided for elsewhere	479	...Coating interior of object
		480	...With regeneration or replenishment of coating bath (e.g., ultrafiltration, ion exchange, measurement followed by addition of concentrated reagent, etc.)
451	..Capillary electrophoresis		
452	...With detailed detection		
453	...With injection	481	....Using ion exchange material
454	...With adjustment or alteration of electro-osmotic bulk flow	482	....Using filter or membrane
		483	...Forming of object
455	...Using gel-filled capillary	484	...Plural coating operations
456	..Gel electrophoresis	485	....Using mask
457	...With programmed, cyclic, or time responsive control	486	....Including nonelectrophoretic coating
458	....Plural rapid changes in direction of electric field (at least 1,000 times total and at more than 1/sec) (e.g., pulsed field, etc.)	487	....With heat treatment of a coated layer (e.g., curing, sintering, etc.)
		488	.....Organic (e.g., curing thermoset resin, etc.)
459	...Isoelectric focusing (i.e., using pH variation)	489	...Using bath having designated chemical composition (DCC)

490	....Resultant coating is solely inorganic	516	...Barrier separation (e.g., using membrane, filter paper, etc.)
491	.....With heat treatment of coating	517	....Ion selective
492	....Anodic processes only	518	..Barrier separation (e.g., using membrane, filter paper, etc.)
493	.....With heat treatment of coating	519	...With control responsive to sensed condition
494	.....And washing, rinsing, or drying of coating	520	...Ion selective
495	.....With pretreatment of substrate or bath	521	....Combined with manufacture or pretreatment of barrier
496	.....Bath contains shading or coloring agent (e.g., pigment, etc.)	522	....Using both anion and cation selective membranes
497	.....Bath contains surface active agent (e.g., soap or detergent, wetting or emulsifying agent, etc.)	523	.....Alternating anion and cation selective membranes
498	.....Bath contains carboxyl group	524	.....And using ion exchange material (e.g., suspended particles, etc.)
499	....Cathodic processes only	525	.....With prevention of scale buildup or fouling of membrane
500	.....With heat treatment of coating	526	.....Gas or vapor treated
501	.....Bath contains epoxy or epoxide	527	.....Biological material prepared, recovered, or treated (e.g., urine, etc.)
502	.....Bath contains epoxy or epoxide	528	.....Regeneration of liquid electrolyte
503	.....And shading or coloring agent	529	.....Metal or metal salt recovered or removed
504	.....And separate crosslinking or curing agent	530	.....Organic material prepared, recovered, or treated
505	.....Isocyanate	531	.....Acid prepared, recovered, or treated
506	....Bath contains separate crosslinking or curing agent	532	....And using nonion selective membrane
507	...With posttreatment of coating (e.g., heat treatment, washing, drying, etc.)	533	....And using ion exchange material (e.g., suspended particles, etc.)
508	....Bath contains shading or coloring agent, metal oxide, free metal, or free carbon	534	.....And using bipolar membrane
509	...With heat treatment of coating	535	....And using nonion selective membrane
510	...With pretreatment of substrate (e.g., cleaning, wetting, etc.)	536	...And using ion exchange material (e.g., suspended particles, etc.)
511	...Using liquid jet	537	....Using bipolar membrane
512	...Continuous movement of substrate through bath	538	.....Water splitting
513	..Hydrocarbon oil separated or purified	539	....Using anion selective membrane
514	...Aqueous system	540	....Biological material prepared, recovered, or treated (e.g., urine, etc.)
515	..Inorganic siliceous or calcareous material prepared, separated, or treated (e.g., clay, earth, concrete, asbestos, glass, etc.)	541	....Organic material prepared, recovered, or treated

542	...Combined with diverse-type separation (e.g., electro-osmotic barrier separation combined with centrifugal separation, etc.)	565	....Using modified alternating current (other than standard 50 Hz or 60 Hz sine wave) field
543	...Biological material prepared, recovered, or treated (e.g., urine, etc.)	567	....Using modifying agent
544	...Organic material prepared, recovered, or treated	568	.....Gas or vapor
545	..With use of nonelectrical field or force to separate (e.g., magnetic, centrifugal, etc.)	569	.....Dielectric liquid
546	..Absorbent strip electrophoresis (e.g., using cellulose acetate or paper strip, etc.)	570	.....Water
547	..Dielectrophoresis (i.e., using nonuniform electric field)	571	..Removing solids
548	..Isoelectric focusing (i.e., using pH variation)	572	...Using cohesive filter or solid packing
549	..Isotachophoresis (i.e., displacement electrophoresis) or measurement of ion or particle mobility	573	..Resolving emulsion or dispersion
550	..Ionophoresis	192.1	.Coating, forming or etching by sputtering
551	..Solid sorption or desorption	192.11	..Ion beam sputter deposition
553	..Bulk separation of solids and liquids (e.g., dewatering solids, clarifying water, etc.)	192.12	..Glow discharge sputter deposition (e.g., cathode sputtering, etc.)
554	.Electrical (including simultaneous electrical and magnetic) separation or purification of liquid or magnetic treatment of liquid (other than separation)	192.13	...Measuring or testing (e.g., of operating parameters, property of article, etc.)
555	..With control responsive to sensed condition	192.14	...Coating inorganic material onto polymeric material
556	..With measuring, testing, or sensing	192.15	...Specified deposition material or use
557	..Using magnetic field	192.16	....Wear or abrasion resistant
558	..With simultaneous use of liquid-liquid extraction solvent	192.17	....Electrical contact material
559	..Predominantly hydrocarbon	192.18	....Piezoelectric
560	...Removing solids	192.2	....Ferromagnetic
561	....With addition of agent to facilitate removal	192.21	....Resistor
562	....Using cohesive filter or solid packing	192.22	....Insulator or dielectric
563	...Resolving emulsion or dispersion	192.23	.....Silicon containing
564	....Using interrupted or pulsed direct current field	192.24	....Superconductor
		192.25	....Semiconductor
		192.26	....Optical or photoactive
		192.27	....Reflective
		192.28	....Absorptive
		192.29	....Transparent conductor
		192.3	....With sputter etching
		192.32	..Sputter etching
		192.33	...Measuring or testing (e.g., of operating parameters, end point determination, etc.)
		192.34	...Ion beam etching (e.g., ion milling, etc.)
		192.35	...Etching specified material
		192.36	....Organic
		192.37	....Silicon containing
		192.38	.Vacuum arc discharge coating
		193	APPARATUS
		194	.Electrolytic
		400	..Analysis and testing
		401	...Fault testing of sensor or component

402	...Regeneration or activation	418	....Organic membrane
403.01	...Biological material (e.g., microbe, enzyme, antigen, etc.) analyzed, tested, or included in apparatus	419	....Inorganic membrane
403.02	....Disposable apparatus or apparatus having removable section (e.g., removable cartridge, etc.)	420	.....Glass ion-selective membrane
403.03	.....Plural measuring sections or zones	421	...Solid electrolyte
403.04	.....Enzyme included in apparatus	422	....Liquid sample sensor
403.05	.....With semipermeable membrane	423	.....With fugitive protective element
403.06	...With semipermeable membrane	424	....Gas sample sensor
403.07	....For blocking passage of macromolecules (molecular weight greater than or equal to 8,000)	425	.....With impressed current means
403.08	.....Lipid included in apparatus	426	.....Planar electrode surface
403.09	.....Enzyme included in apparatus	427	.....With gas reference material
403.1	.....Enzyme included in apparatus	428	.....With protective element
403.11	.....Glucose oxidase	429	.....Protective element is a layer
403.12	.....With diverse enzyme or catalyst (e.g., bienzyme or coenzyme system, glucose oxidase with Pt catalyst, etc.)	430	...Moisture absorbing electrolyte
403.13	....And microelectrode (i.e., at least one electrode dimension is less than 500 microns)	431	...Gas sensing electrode
403.14	...Enzyme included in apparatus	432	...With gas diffusion electrode
403.15	...Electrode containing free carbon	433	...Measuring carbon or pH
404	...Corrosion	434	...Involving plating, coating or stripping
405	...Titration	435	...Standard reference electrode
406	...With significant electrical circuitry or nominal computer device	196.01	..Object protection
407	..With significant display or analytical device	196.02	..With control means responsive to sensed condition
408	..With means for temperature or pressure compensation	196.03	...And programmed, cyclic, or time responsive control means
409	..With means providing specified-flow condition or flow-path	196.04	...Internal battery
410	....Solid electrolyte means	196.05	..With programmed, cyclic, or time responsive control means
411	....Three or more electrodes	196.06	..With measuring, testing, or sensing means
412	...Three or more electrodes	196.07	....Internal battery
413	...Liquid electrode, e.g., Hg, Na, etc.	196.08	...With gas or vapor removing or treating means
414	...Gel electrolyte	196.09	...Plural cells used or protected
415	...Selectively permeable membrane	196.1	...Internal battery
416	...Ion-sensitive electrode	196.11	....Resistor or impedance in series between anode and object
417	....Liquid ion-exchanger	196.12	...With fluid filter
		196.13	...With bypass means
		196.14	...Anode moving relative to object
		196.15	...With fluid inlet or outlet means used or protected
		196.16	.....Dielectric coating, casing, or section
		196.17	....Rigid anode with rigid support
		196.18	.....More than half of anode is or has coating, covering, or shield
		196.19	.....Dielectric coating, covering, or shield

196.2	....Flexible cable, chain, or wire anode or support	214	.....Swinging or tilting receptacles
196.21	....Earth grounded object or protection means	215	....With base treatment
196.22	....Copper and zinc electrically coupled or alloyed into one or more electrodes	216	.....Stripping
196.23	....Anode contains aluminum	217	.....Mechanical working
196.24	.....And magnesium	218	....With current control
196.25	.....And zinc	219	...Liquid electrode
196.26	..Resistor or impedance in series between power supply and object	220	....With electrode recirculation means
196.27	..Alternative energy supply (e.g., solar panel, thermoelectric or piezoelectric power supply, etc.)	221	....With oscillator, reciprocator or agitator
196.28	...Rotating electrode	222	..Electrode oscillator, reciprocator or agitator
196.29	...Magnetic mounting means	223	....With current control
196.3	...Rigid anode with rigid support	224 R	...Localized area applicators
196.31	....Threaded coupling for rigid anode or rigid support	224 M	....Electrochemical machining
196.32	.....Dielectric thread	225	...Electrode feeding or withdrawal means
196.33	...Flexible cable, chain, or wire anode or support	226	....With base treatment
196.34	....Plural anode sections on single cable, chain, or wire	227	..Cells with base treatment means
196.35	.....Helically wound	228.1	..With current, voltage, or power control means responsive to sensed condition
196.36	...Earth grounded object or protection means	228.2	...Fluid level sensing means
196.37	..Vessel protected (e.g., steam boiler, etc.)	228.3	...Fluid flow sensing means
196.38	...Anode contains precious metal or free carbon	228.4	...Fluid pressure sensing means
	..With movable electrode means	228.5	....Gaseous fluid
198	...Work conveyer	228.6	...Electrolyte property sensing means (e.g., temperature, concentration, pH, conductivity, etc.)
199	....Rotary	228.7	...Workpiece property sensing means (e.g., mass, coating thickness, etc.)
200	.....With base treatment	228.8	..Workpiece presence, position, or movement sensing means
201	.....Loose article	228.9	...Having auxiliary electrode
202	....Endless	229.1	....Reference electrode as or with auxiliary electrode
203	....With base treatment	229.2	...And programmed, cyclic, or time responsive control means
204	.....With current control	229.3	....For controlling waveform supplied to working electrode
205	.....With current control	229.4	..With programmed, cyclic, or time responsive current, voltage, or power control means
206	...Continuous strip or filament electrode	229.5	...For controlling waveform supplied to working electrode
207	....With base treatment	229.6	...For simultaneously reversing polarity of working and counter electrodes
208	.....Stripping	229.7	...Having specified circuit details
209	.....Mechanical working		
210	.....Heat treatment means		
211	....With current control		
212	...Rotary		
213	....Barrels and rotary receptacles		

229.8	..With means for measuring, testing, or sensing current, voltage, or power	257	....With feeding and/or withdrawal means
229.9	...Having auxiliary electrode	258	.....Gas
230.1	....Reference electrode as or with auxiliary electrode	259	....Basket-type electrode
230.2	..With current, voltage, or power control means	260	....Concentrically arranged electrodes
230.3	...Mechanical	261	....With agitator
230.4	...For inhibiting short circuits	262	....With heater or cooler
230.5	...Switch or connector	263	....With feeding and/or withdrawal means
230.6	...For controlling waveform	264	....And filter
230.7	...Having auxiliary electrode	265	....Gas feeding
230.8	...Having specified circuit details	266	....Gas withdrawal
232	..Cells with electrolyte treatment means	267	...Plural cells
233	...Leacher, dissolver or extractor	268	....Bipolar electrode
234	....Recirculation	269	....With feeding and/or withdrawal means
235	.....With filter	270	.....Gas
236	.....With heater or cooler	271	...Portable
237	...Recirculation	272	...Concentrically arranged electrodes
238	....With filter	273	...With agitator
239	....With heater or cooler	274	...With heater or cooler
240	...With filter	275.1	...With feeding and/or withdrawal means
241	...With heater or cooler		
242	..Cells		[See the Search Notes for FOR Collections associated with this subclass or its indents (if there are indents).]
243.1	...Fused bath		
244	....Plural cells		
245	....With feeding and/or withdrawal means		
246	.....Gas feeding	276	....And filter
247	.....Gas withdrawal	277	....Gas feeding
247.1	....With magnetic field effect compensating means	278	....Gas withdrawal
247.2	....With means for cleaning electrode element	278.5	....Parallel plate type electrodes
247.3	....Refractory hard material (RHM) containing electrode	279	..Elements
247.4	....With cell lining or coating	280	...Electrodes
247.5	.....Thermal effect compensating means	281	....Electroforming molds or strips plates
248	...Internal battery	282	....With diaphragm
249	....Filter or loose electrode type	283	.....Perforated or foraminous electrode
250	...Liquid electrode	284	....Perforated or foraminous
251	....Diaphragm type	285	.....Work holder
252	...Diaphragm type	286.1	...With electrode supporting means
253	....Plural cells		
254	.....Bipolar electrode		[See the Search Notes for FOR Collections associated with this subclass or its indents (if there are indents).]
255	.....With feeding and/or withdrawal means		
256	.....Gas		

- 287Work container
- 288Electrodes with lateral extensions
- 288.1And dielectric gasket or spacer
- 288.2And additional electrical conductor of diverse material
- 288.3Including resilient means (e.g., spring, etc.)
- 288.4Including threaded connector
- 288.5Having wedge or tapered tightening means
- 288.6Hook or loop
- 289With lateral extensions
- 290.01Laminated or coated (i.e., composite having two or more layers)
- [See the Search Notes for FOR Collections associated with this subclass or its indents (if there are indents).]
- 290.02Actinide series element (i.e., Ac, Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, or Lr) or compound containing
- 290.03Having three or more layers
- 290.04Rare earth metal (i.e., Sc, Y, La, Ce, Pr, Nd, Pm, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, or Lu) or compound containing
- 290.05Organic compound containing
- 290.06And noble metal (i.e., Ru, Rh, Pd, Os, Ir, Pt, Ag, or Au) or compound containing
- 290.07And free carbon containing
- 290.08Noble metal (i.e., Ru, Rh, Pd, Os, Ir, Pt, Ag, or Au) or compound containing
- 290.09Plural metal oxides containing
- 290.1Rare earth metal (i.e., Sc, Y, La, Ce, Pr, Nd, Pm, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, or Lu) or compound containing
- 290.11Organic compound containing
- 290.12Refractory metal (i.e., Ti, V, Cr, Zr, Nb or Cb, Mo, Hf, Ta, or W) or compound containing
- 290.13Surface layer contains electrolytically exposed refractory metal or compound
- 290.14Noble metal (i.e., Ru, Rh, Pd, Os, Ir, Pt, Ag, or Au) or compound containing
- 290.15Free carbon containing
- 291Composition
- 292Metallic
- 293Alloys
- 294Carbon containing
- 295 ...Diaphragms
- 296 ...Organic
- 297.01 ...Electrode support or work holder
- [See the Search Notes for FOR Collections associated with this subclass or its indents)if there are indents).]
- 297.02Magnetic support
- 297.03Vacuum support
- 297.04Float or buoyant support
- 297.05Mask for workpiece
- 297.06Workpiece rack
- 297.07Adjustable
- 297.08Mechanized
- 297.09Including resilient means (e.g., spring, etc.)
- 297.1Including resilient means (e.g., spring, etc.)
- 297.11Porous enclosure
- 297.12Grid or grating
- 297.13Including threaded connector
- 297.14Including resilient means (e.g., spring, etc.)
- 297.15Including threaded connector
- 297.16Hook or loop
- 298.01 .Coating, forming or etching by sputtering
- 298.02 ..Coating
- 298.03 ...Measuring, analyzing or testing
- 298.04 ...Ion beam sputter deposition
- 298.05 ...Ion plating
- 298.06 ...Triode, tetrode, auxiliary electrode or biased workpiece
- 298.07 ...Specified gas feed or withdrawal
- 298.08 ...Specified power supply or matching network
- 298.09 ...Specified cooling or heating
- 298.11 ...Specified mask, shield or shutter
- 298.12 ...Specified target particulars

298.13	....Target composition	603	...With detailed detection system (e.g., including a light source and a camera, etc.)
298.14	...Specified anode particulars		
298.15	...Specified work holder		
298.16	...Magnetically enhanced	604	...With injector
298.17	....Flux passes through target surface	605	...Gel filled
		606	..Gel electrophoresis type
298.18	....Focusing target (e.g., conical target, plural inclined targets, etc.)	607	...With control means responsive to sensed condition
		608	..With programmed, cyclic, or time responsive control means
298.19	....Planar magnetron		
298.2	.....Moving magnetic field or target	609	...Plural rapid changes in direction of electric field (at least 1,000 times total and at more than 1/sec) (e.g., pulsed field, etc.)
298.21	....Cylindrical or curved magnetron target		
298.22	.....Moving magnetic field or target	610	...Isoelectric focusing (i.e., uses pH variation)
298.23	...Moving workpiece or target		
298.24	...Indeterminate length moving workpiece	612	...With detailed detection system (e.g., including a light source and a camera, etc.)
298.25	....Multi-chamber (e.g., including air lock, load/unload chamber, etc.)	613	...With means for posttreatment of gel to purify or recover a desired component
298.26	....Plural diverse treatment stations, zones, or coating material source within single chamber	614	....Blotter (e.g., membrane, etc.)
		615	...Unitary preparation apparatus (e.g., preparative means, etc.)
298.27	....Plural modes of movement (e.g., planetary, epicyclic, etc.)	616	...Slab gel
		617	....Curved
298.28	....Rotational movement		
298.29	....Oscillatory movement	618	....Vertical or inclined
298.31	..Etching	619	....With gel shaping or molding means (e.g., comb, ribbed insert, gel injectors, etc.)
298.32	..Measuring, analyzing or testing		
298.33	...Specified gas feed or withdrawal	620	...With gel shaping or molding means (e.g., comb, ribbed insert, gel injectors, etc.)
298.34	..Auxiliary electrode, bias means or specified power supply	621	...With liquid heat exchange means to cool gel slab during electrophoresis
298.35	...Multi-chamber, load/unload means or moving workpiece	622	..Coating or forming means
298.36	...Beam or directed flux etching (e.g., ion beam, etc.)	623	...With moving or movable electrode
298.37	..Magnetically enhanced	624	....And means for posttreatment of coating (e.g., drying, heating, curing, etc.)
298.38	..Microwave excitation		
298.39	...Plural parallel plates (e.g., desmearing reactor, etc.)	625	....Coating interior of object or article (e.g., water main, automobile body, etc.)
298.41	.Vacuum arc discharge coating		
600	.Electrophoretic or electro-osmotic apparatus	626	...With means for regeneration or replenishment of coating bath or electrolyte
601	..Capillary electrophoresis type		
602	...With control means responsive to sensed condition	627	..Barrier separator (e.g., electro-dialyzer, etc.)

- 628 ...With control means responsive to sensed condition
- 629 ...With moving or movable electrode
- 630 ...Ion selective
- 631 ...With bipolar membrane
- 632 ...And ion exchange material (e.g., suspended ion exchange resin particles, etc.)
- 633 ...Both anion and cation selective membranes
- 634 ...Alternating anion and cation selective membranes
- 635 ...Tortuous path-type frame or membrane spacer
- 636 ...With foraminous or perforated membrane support or spacer (e.g., screen, perforated plate, fabric, etc.)
- 637 ...And nonion selective membrane
- 638 ...With foraminous or perforated membrane support or spacer (e.g., screen, perforated plate, fabric, etc.)
- 639 ...With foraminous or perforated membrane support or spacer (e.g., screen, perforated plate, fabric, etc.)
- 640 ...Cylindrical barrier (e.g., filter, membrane, etc.)
- 641 ..Absorbent strip (e.g., cellulose acetate, paper strip, etc.) type
- 642 ..Movable strip
- 643 ..Dielectrophoretic (i.e., uses nonuniform electric field)
- 644 ..Isoelectric focusing (i.e., uses pH variation)
- 645 ..Isotachophoretic (i.e., displacement electrophoretic) or means to measure ion or particle mobility
- 647 ..Particle bed separator (e.g., inert particles, ion exchange beads, etc.)
- 648 ..Bulk separator for solids and liquids (e.g., to dewater solids, clarify water, etc.)
- 649 ..With moving or movable electrode
- 650 ..With moving or movable electrode
- 660 .Apparatus for electrical (including simultaneous electrical and magnetic) separation or purification of liquid or magnetic treatment of liquid (other than separation)
- 661 ..With control means responsive to sensed condition
- 662 ...Liquid level sensing means
- 663 ..With programmed, cyclic, or time responsive control means
- 664 ..With magnetic separating means
- 665 ..With filter (e.g., electrostatic filter, etc.)
- 666 ..Plural separate treatment chambers or zones
- 667 ..Probe type
- 668 ..With moving or movable electrode
- 669 ...Rotating or rotatable
- 670 ..Concentric electrodes
- 671 ...Cylindrical or annular
- 672 ..Parallel plate-type electrodes
- 673 ...Vertical flat plates
- 674 ..Porous, perforated, or grid electrode

CROSS-REFERENCE ART COLLECTIONS

- 900 **EFFECTING A CHANGE IN ISOMERIZATION BY WAVE ENERGY**
- 901 **EFFECTING A COLOR CHANGE BY WAVE ENERGY**
- 902 **PRODUCTION OF DESIRED COMPOUND BY WAVE ENERGY IN PRESENCE OF A CHEMICALLY DESIGNATED NONREACTANT CHEMICAL TREATING AGENT (EXCLUDING WATER, CHLOROFORM, CARBON TETRACHLORIDE, METHYLENE CHLORIDE OR BENZENE)**
- 903 .Inorganic chemical treating agent
- 904 ..Metal treating agent
- 905 ...Heavy metal agent
- 907 .Silicon or boron treating agent
- 908 .Phosphorus treating agent
- 909 .Heavy metal treating agent
- 910 .Sulfur treating agent
- 911 .Nitrogen treating agent
- 912 .Oxygen treating agent
- 913 ..Peroxide agent

914 .Only carbon, hydrogen or halogen
atom in treating agent

FOR 937 ...Biological, e.g., microbe,
enzyme, antigen, etc. (204/
403)

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR 920 **ELECTROLYTIC OBJECT PROTECTION
APPARATUS (204/196)**

FOR 921 .Internal battery (204/197)

FOR 922 **ELECTROLYTIC CELLS WITH CURRENT
CONTROL MEANS (204/228)**

FOR 923 .With fluid pressure, flow, or
level intercontrol (204/229)

FOR 924 ..Gaseous fluid (204/230)

FOR 925 .Auxiliary electrode (204/231)

FOR 926 **ELECTROLYTIC FUSED BATH CELLS
(204/243 R)**

FOR 927 .Bath current distribution,
magnetic field control (204/
243 M)

FOR 930 **ELECTROLYTIC CELLS WITH FEEDING
AND/OR WITHDRAWAL MEANS (204/
275)**

FOR 931 **ELECTROLYTIC ELECTRODE ELEMENTS
WITH SUPPORTING MEANS (204/
286)**

FOR 932 **LAMINATED OR COATED ELECTROLYTIC
ELECTRODE ELEMENTS (204/290 R)**

FOR 933 .Dielectric film-forming metal
base, insoluble conductive
coating (204/290 F)

FOR 934 **ELECTROLYTIC ELECTRODE SUPPORTS
AND WORK HOLDERS (204/297 R)**

FOR 935 .Workpiece held by magnetism or
suction (204/297 M)

FOR 936 .Workpiece rack (204/297 W)
APPARATUS (204/193)
.Electrolytic (204/194)
..Analysis and testing (204/400)

DIGESTS

DIG 3 **AUXILIARY INTERNALLY GENERATED
ELECTRICAL ENERGY**

DIG 4 **ELECTROLYSIS CELL COMBINED WITH
FUEL CELL**

DIG 5 **MAGNETIC PLUS ELECTROLYTIC**

DIG 6 **UNUSUAL NON-204 USES OF
ELECTROLYSIS**

DIG 7 **CURRENT DISTRIBUTION WITHIN THE
BATH**

DIG 8 **AC PLUS DC**

DIG 9 **WAVE FORMS**

DIG 12 **ELECTROCHEMICAL MACHINING**

DIG 13 **PURIFICATION AND TREATMENT OF
ELECTROPLATING BATHS AND
PLATING WASTES**

