

600	PROCESSES	629	...And internally circulating the liquid
601	..Treatment by living organism	630	...And anaerobic treatment
602	..Including plant or animal of higher order	631	..And additional treating agent other than mere mechanical manipulation (e.g., chemical, sorption, etc.)
603	..Including collecting or storing gas (e.g., fuel, carbon monoxide, etc.)	632	.Treating by enzyme
604	...And reusing oxidant	633	.Extracting utilizing solid solute
605	..Anaerobically, with subsequently aerobically treating liquid	634	.Liquid/liquid solvent or colloidal extraction or diffusing or passing through septum selective as to material of a component of liquid; such diffusing or passing being effected by other than only an ion exchange or sorption process
606	..Adding enzyme or releasing same by treating microorganism	635	..Liquid/liquid or gel type (i.e., jellylike) chromatography
607	..Dividing, treating, and recombining liquid	636	..Including cleaning or sterilizing of apparatus
608	..Regulating floating constituent	637	..Including regulating pressure to control constituent gradient at membrane or to prevent rupture of membrane
609	..Including dewatering sludge	638	..Including ion exchange or other chemical reaction
610	..Including adding ancillary growth medium for microorganism	639	..Including prior use of additive (e.g., changing pH, etc.)
611	...For or with specific microorganism	640	..Passing through membrane in vapor phase
612	..And regulating temperature during biological step	641	..Utilizing plural diverse membranes
613	...Digesting sludge	642	..Extracting water from brine utilizing liquid/liquid solvent or colloidal extraction
614	..Controlling process in response to stream constituent or reactant concentration	643	..Utilizing liquid membrane (e.g., emulsion) in liquid/liquid solvent or colloidal extraction
615	..Utilizing contact surfaces supporting microorganism (e.g., trickling filter, etc.)	644	..Diffusing or passing through septum selective as to material of a component in liquid/liquid solvent or colloidal extraction
616	...Particulate media	645	...Biological fluid (e.g., blood, urine, etc.)
617	....In bed form	646	...Hemodialysis
618	.....And rehabilitating or regenerating same	647	....Maintaining critical concentration(s)
619	..Rotating contactor		
620	..Aerobic treatment		
621	...Recirculating to prior step		
622	....Of separated liquid		
623	....Of sludge or separated solid		
624	.....And returning to or withdrawing from diverse treating zones		
625	.....Treating outside mainstream		
626	.....To mainstream oxygenation (e.g., activated sludge, etc.)		
627	.....Utilizing specific oxidant, other than air alone (e.g., oxygen-enriched air, ozone, peroxide, etc.)		
628	.....Utilizing mechanical aeration means		

648	...Including regenerating or rehabilitating the extracting liquid in liquid/liquid solvent or colloidal extraction	675	...Rehabilitating or regenerating in diverse zone or chamber
649	..Diffusing or passing through septum selective as to material of a component of liquid	676	...Continuous cyclic process
650	...Filtering through membrane (e.g., ultrafiltration)	677	...Using conserved or recirculated fluid
651	...Removing specified material	678	...Including liquid flow direction change
652	...Hyperfiltration (e.g., reverse osmosis, etc.)	679	..Utilizing exchange or sorbent material associated with inert material
653	....Utilizing specified membrane material	680	...Including oil sorbent
654	.....Synthetic resin	681	..Removing ions
655	.....Cellulosic	682	...Radioactive
656	.Chromatography	683	...Anions
657	..Utilizing rotating column	684	....Metal complexed (e.g., chromate, ferricyanide, chlorplatinatate, etc.)
658	..Utilizing paper or thin layer plate	685	...Including cation
659	..Including liquid flow diversion	686	....Utilizing mixed bed or amphoteric material
660	.Ion exchange or selective sorption	687	..Calcium or magnesium (e.g., hardness, water softening, etc.)
661	..By passing through suspended bed	688	...Heavy metal
662	..And liquid testing or volume measuring	689	..Sorbing water from diverse liquid
663	..Including diverse separating or treating of liquid	690	..Sorbing organic constituent
664	..By distilling or degassing	691	...From aqueous material
665	..By making an insoluble substance or accreting suspended constituents	692	....Utilizing synthetic resin
666	....Utilizing organic agent	693	.....Oil removed
667	....Utilizing aluminum, calcium, or iron containing agent	694	....Utilizing activated carbon
668	..By chemically modifying or inhibiting dispersed constituent	695	.Using magnetic force
669	...Prior to ion exchange or sorption	696	.Preventing, decreasing, or delaying precipitation, coagulation or flocculation
670	..Including rehabilitating or regenerating exchange material or sorbent	697	..Utilizing inorganic phosphorus agent
671	...Of oil sorbent material	698	..Utilizing organic agent
672	...Fractional, selective, or partial type	699	...Phosphorus containing
673	...Utilizing gas, water, or chemical oxidizing or reducing agent	700	....Nitrogen containing
674	...Utilizing organic regenerant	701	...Acrylic polymer
		702	.Making an insoluble substance or accreting suspended constituents
		703	..Effecting flotation
		704	...Including chemical addition (with or without bouyancy gas)
		705	...Chemically specified precipitant, coagulant, or flocculant
		706	....And significant characteristic of the bouyancy gas, other than mere addition of same

707	.....Generating gas in situ	746	..Electrical property sensing
708	..Including emulsion breaking	747	.Including geographic feature (e.g., drainage ditch, septic, pond)
709	..Controlling process in response to stream condition	748	.Utilizing electrical or wave energy (directly applied to liquid or material being treated)
710	..Treating the insoluble substance	749	.Chemical treatment
711	...For recovery of a treating agent	750	..Including degassing
712	..Including recycling	752	..Plural spaced feedings
713	...Of separated solids	753	..Utilizing halogen or halogen containing material
714	..Seeding	754	...Chlorine or bromine containing
715	..Utilizing sludge or floc blanket	755	....Organic
716	..Including step of manufacturing inorganic treating agent	756	....Hypochlorite
717	...In situ	757	..By chemical reduction
718	..Including degassing	758	..By oxidation
719	..Including chemical reduction	759	...Utilizing peroxy compound (e.g., hydrogen peroxide, peracid, etc.)
720	...Of chromium material	760	...Utilizing ozone
721	..Including oxidation	761	...Liquid phase high temperature and pressure (e.g., "wet air", etc.)
722	...Of iron or manganese material	762	....Catalytic
723	..Utilizing precipitant, flocculant, or coagulant, each with accelerator or with each other or plural precipitants, flocculants, or coagulants	763	...Catalytic
724	...Regulating pH	764	..Destroying microorganisms
725	....Utilizing organic precipitant	765	..Including liquid recirculation
726	...Sequential introduction	766	..Including temperature change
727	....Including organic agent	767	.Separating
728	...Including organic agent	768	..Including treating separated solids
729	..Utilizing organic precipitant	769	...Destroying cake or solid component
730	...From natural source or chemical modification thereof	770	...Including drying (e.g., by squeezing or heating, etc.)
731	....Starch	771	....By gas contact
732	...Synthetic polymer	772	...Washing with a fluid other than the prefilter
733	....Acrylic	773	..Including preliminary conversion to liquid state
734	....Nitrogen containing (e.g., amine, azo, etc.)	774	..Including temperature change
735	....Nitrogen containing (e.g., amine, azo, etc.)	775	...Thermal diffusion
736	....Derived from alkyl halide or epihalohydrin reactant	776	..Skimming
737	..Including temperature change	777	..Including precoating filter medium with filter aid
738	..Including agitation	778	...With or by addition to prefilter
739	.Including controlling process in response to a sensed condition	779	..Discharging residue to prefilter
740	..Density or specific gravity sensing	780	..Including movement of filter during filtration
741	..Pressure sensing	781	...Centrifugally extracting
742	..Temperature sensing	782	....Blood
743	..pH sensing	783	...Rotating belt
744	..Level sensing	784	...Rotating drum
745	..Turbidity or optically sensing		

785	...Cleaning filter utilizing wave energy (e.g., vibrating, pulsating, etc.)	97	FLOW, FLUID PRESSURE OR MATERIAL LEVEL, RESPONSIVE
786	...Of particulate bed (e.g., fluidized or moving bed, etc.)	98	.Fluid current controlled cyclic system
787	..Cyclonic, or centrifugal (e.g., whirling or helical motion or by vortex, etc.)	99	.Prefilt diverting to drain by prefilt accumulation
788	...Introducing liquid tangentially	100	.Flow cut-off requiring reset
789	...Isolating layer	101	.Proportionate feed means
790	..Dividing and recombining	102	.Programming plural units
791	..Rehabilitating or regenerating filter medium	103	.Diverse sensing means
792	...Particulate bed	104	..Responsive to material level
793	....Reverse flow	105	..With control for auxiliary liquid inlet
794	.....Including addition of diverse fluid	106	.Filter cleaning
795	.....Expanded bed	107	..Rotary movement of filter or mechanical cleaner
796	....Includng mechanical agitation	108	..Backwash or blowback
797	...By diverse fluid	109	.Discharge of treated material
798	...Reverse flow	110	..With separator inlet control
799	..Filtering immiscible liquids	111	..Responsive to prefilt accumulation or filter clogging
800	..Utilizing gravitational force	112	..Heavier constituent
801	...Including change of mainstream flow direction	113	...By weight of solids
802	....Utilizing parallel separation passages	114	...By treated liquid accumulation
803	...Including specified feature of settled solids removal	115	...With lighter constituent outlet control
804	...And additional diverse separation	116	..Permitted by filtrate accumulation
805	..And recirculating liquid	117	..Check valve controlled
806	..Plural separating	118	...Non-closing, e.g., sand valve
807	..Utilizing particulate bed	119	...Float type
808	..Including specified pressure change	120	.Vent control
85	WITH ALARM, INDICATOR, REGISTER, RECORDER, SIGNAL OR INSPECTION MEANS	121	.Float
86	.Material level or thickness responsive	122	..Controls movable separator
87	.Responsive to fluid flow	123	..Controls valve
88	..Meter-controlled cyclic systems	124	...Controls flow between two separators
89	...With time control	125	...Separator between float and valve
90	.Fluid pressure responsive	126	...Float in separate rehabilitating fluid tank
91	.Position or extent of motion	127	...Additional fluid inlet control
92	.Test valve	128	...Float in receptacle other than that of separator
93	.In effluent conduit	129	....In flow between inlet and separator
94	.Transparent	130	.Fluid pressure responsive by-pass
95	..Sight glass	131	..By movement of separation medium
96.1	CONSTITUENT MIXTURE VARIATION RESPONSIVE	132	..With additional separation or treating means
96.2	.With membrane	133	..In inlet and outlet closure header

134	.Plural elements controlled	167.11	...With means to add treating material
135	..Including manually controlled element	167.12	...Separator external to swimming pool or spa
136	.Check valve	167.13	....Particulate solid filter
137	.Maintaining stream pressure or flow	167.14	....With separator cleaning means (e.g., backwash means, etc.)
138	WITH TIME CONTROL	167.15	...Separator for use on swimming pool or spa bottom and separator for use at water surface
139	.Of additional fluid	167.16	...Separator for use on swimming pool or spa bottom
140	..Preparation for treating operation	167.17	....Debris collecting bag
141	WITH PROGRAM ACTUATOR	167.18	...Skimmer arm at skimmer opening at water surface
142	.Plural treating units or sections sequentially controlled	167.19	...Mesh or screen filter at or near water surface
143	AUTOMATIC CONTROL	167.2	....Having floating means
144	.Responsive to vibration or unbalance	167.21	..For aquarium
145	.Responsive to rotation	167.22	...Separator using living organism
146	..Controlled cover latch	167.23	...Separator or part thereof associated with bottom of aquarium (e.g., means positioned under gravel, etc.)
147	..Controlled discharge means	167.24	....Having solid sorbent
148	.Container movement operated	167.25	...Particulate filter or particulate sorbent
149	.Thermal	167.26	...Separator with aerator
150	WITH GAS-LIQUID SURFACE CONTACT MEANS	167.27	...Separator mounted on top edge of aquarium wall
151	.With separator	167.28	..For cooking oil system
153	STRUCTURAL INSTALLATION	167.29	..Having magnetic treating means
154	.Flume stream type	167.3	..With means to add treating material
155	..Plural or diverse screens	167.31	..Plural separators
156	..Fluid stream or residue operated	167.32	..With heating or cooling means
157	...Revolving cylindrical strainer	170.01	.Geographic
158	..With cleaner for movable strainer	170.02	..For fishpond
159	..With cleaner and means to remove residue therefrom	170.03	..For stormwater treatment (e.g., rainwater runoff, stormsewer treatment, etc.)
160	..Endless belt strainer	170.04	..For excavating means
161	..Revolving strainer	170.05	..Floating means
162	..Fixed strainer	170.06	..Separator with aerator
163	.Grated inlet surface drain	170.07	..Groundwater
164	..Flat grating at surface level	170.08	..Septic tank or waste liquid treatment system
165	...With subsurface weep means	170.09	..Body of freshwater (e.g., pond, lake, reservoir, etc.)
166	..Concentric guard ring or rib	170.1	..Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)
167.01	.Closed circulating system		
167.02	..For lubrication system		
167.03	...Having magnetic treating means		
167.04	...Plural separators		
167.05	....Having bypass line		
167.06	...With heating or cooling means		
167.07	....Evaporator		
167.08	...Separator for transmission system		
167.09	..With separator cleaning means		
167.1	..For swimming pool or spa (e.g., skimmer, etc.)		

170.11	..Body of saltwater (e.g., sea, ocean, etc.)	198.2	.Chromatography
171	.Machinery	198.3	..Thin layer, e.g., plate, etc.
172.1	.Separator ancillary to storage tank	199	.Spaced along flow path
172.2	..Submerged separator	200	.Plural distinct separators
172.3	...On pump suction intake	201	..Serially connected
172.4	....Filter supported by frame (e.g., bag shaped filter in fuel tank for engine, etc.)	202	...Diverse type
172.5	...Having tethering means	203	..Filters
172.6	..In tank inlet	204	...Sectional chamber press type
173	COMMUNITING	205	.With distinct reactor tank, trough or compartment
174	.Cylindrical strainer	206	..Chemical holder in series with separator
175	WITH HEATER OR HEAT EXCHANGER	207	..Within gravitational separator
176	.Thermal diffusion	208	...With mechanical agitator
177	.With treating fluid addition	209	.Directly applied to separator
178	..With mechanical agitator or movable separator	210	..To interior of moving filter, e.g., drum
179	.With mechanical agitator or movable separator	211	...Through separator supporting rotary shaft
180	.Vapor or gas removal	212	...With stationary casing closure feature
181	.Flow line connected in series with distinct separator	213	...With coaxial rotary impeller or distributor
182	.Diverse separators	214	...With stationary mount for movable distributor
183	..Common casing coaxial with heater	215	...With effluent dividing means
184	.For filter	216	..Moving filter medium
185	..Imbedded or between filter media	217	...Drum
186	..External of casing	218	..Gas removed from closed tank
187	.Within gravitational separator	219	..With mechanical agitator
188	WITH GAS SEPARATOR	220	..Submerged fluid inlet
189	PLURAL CHAMBERS WITH MOVEMENT OF GRANULES THEREBETWEEN	221.1	...With outlet at surface, e.g., froth flotation, etc.
190	WITH EXTERNAL SUPPLY MEANS FOR REGENERATING MEDIUM, E.G., WATER SOFTENING SYSTEM	221.2	...And gas injecting means other than by mechanical agitation
191	.With pump, injector or siphon	222	MAGNETIC
192	WITH PRELIMINARY CHEMICAL MANUFACTURE	223	.With additional separator
193	WITH PRECOAT ADDING OR APPLYING MEANS	224	SECTIONAL CHAMBER PRESS TYPE
194	RECIRCULATION	225	.With residue removal or liquid agitation
195.1	..Serially connected distinct treating or storage units	226	.With porous filler
195.2	..With semipermeable membrane, e.g., dialyzer, etc.	227	.Medium clamped in joint
195.3	..With sediment recycle means directly to main stream	228	..With spacing frame
195.4	...Means is baffle slot	229	..Imperforate base recess in plate
196	.Of filtrate	230	.With repair or assembling means
197	.From bottom of separator	231	.Plates or frames
198.1	WITH MEANS TO ADD TREATING MATERIAL	232	WITH REPAIR OR ASSEMBLING MEANS
		233	.Piercing or closure knock out means
		234	.Removable treatment part with normally disabled flow controller

235	.Placement of container opens flow controller	269	.With rehabilitation means
236	.Sliding or rolling on guide means	270	..Movable means for particle pickup and redeposit
237	.Hoist or handle means	271	..Surface traversing type
238	..Hand manipulable	272	...Rotating on stationary axis
239	CONVERTIBLE	273	...Moving fluid distributor
240	.Filter having selectively usable flow connector means	274	..Including means to apply gas to bed
241	WITH MOVABLE SUPPORT	275	..Backwash or blowback means
242.1	.Float	276	...With mechanical agitator or residue remover
242.2	..With aerating means	277	...Flow controller external of closed casing
242.3	..With oil water skimmer	278	....Multi-way valve unit
242.4	..With oil water sorption means	279	...With embedded fluid distributor
243	ELECTRICAL INSULATING OR ELECTRICITY DISCHARGING	280	..With agitator
244	PORTABLE RECEPTACLE WITH HOOD OR CLOSURE	281	..With access opening to normally closed casing
245	.Attached variable flow controller	282	.Removable cartridge or hand- manipulated container
246	.Limited opening cover	283	.Pervious divider between and contacting beds
247	FILTRATE SPLASH PLATE AND/OR DEFLECTOR	284	.Spaced beds
248	WITH DRIP, OVERFLOW OR CONTENT DRAINING FEATURE	285	.Embedded baffle
249	BRACKET OR LEG SUPPORT FOR STATIC SEPARATOR ASSEMBLY	286	..Vertical
250	.Leg	287	.Within flow line or flow line connected closed casing
251	COMBINED	288	..Conduit through bed, inlet and outlet at same end of casing
252	SERIALLY CONNECTED DISTINCT TREATING WITH OR WITHOUT STORAGE UNITS	289	..With particular liquid receiving means or foraminous bed retainer
253	.Parallel	290	.With multi-layer beds
254	.With by-pass	291	.Particular liquid receiving means or foraminous bed retainer
255	.Cascade	292	..Hood or top protector type
256	.One unit inside another	293	..Floor type, e.g., false bottom
257.1	.With storage unit	294	DIVERSE DISTINCT SEPARATORS
257.2	..Having membrane	295	.Including a filter
258	.With pump, gas pressure or vacuum source	296	..Including liquid as a separating medium
259	.Diverse	297	..Moving filter medium
260	..Including multiple operation unit	298	..With mechanical residue or sediment mover
261	..One unit supports another	299	..Including constituent trapping feature
262	..On different levels	300	...Alternate filters and traps in series
263	PARTICULATE MATERIAL TYPE SEPARATOR, E.G., ION EXCHANGE OR SAND BED	301	....Plural traps
264	.Selective units or compartments	302	...Flow-line valve upstream of separator
265	.With gravitational separator	303	...Cut-off sediment trap
266	.With spaced non-particulate separating means		
267	.Trunnion mounted casing		
268	.Gravity flow of particles type		

304	...Tangential flow, spiral or convolute baffle	321.74	..Coiled membrane
305	...Baffle preceding or within sediment trap	321.75	..Planar membrane
306	....Deflecting prefilter from filter medium	321.76	...Spiral flow
307	...Downstream of filter medium	321.77	..Pleated membrane
308	...Directly communicating with tubular filter interior	321.78	..Cylindrical membrane
309	....Attached to filter element	321.79	...Plural cylindrical membranes all connected for parallel flow
310	...Lateral trap	321.8	....All cylindrical membranes are parallel
311	..Downflow inlet, upflow through filter medium	321.81	....With embedded baffle
312	...Sediment discharge means	321.82	.Noncoiled nonannular cross section tube
313	....Valve controlled	321.83	.Coiled membrane
314	..Spaced filters	321.84	.Planar membrane
315	...One within another	321.85	..Spiral flow
316	..One adjacent inlet or outlet conduit	321.86	.Pleated membrane
317	...Including non-self-supporting medium	321.87	.Cylindrical membrane
318	...Incompatible shapes	321.88	..Plural cylindrical membranes all connected for parallel flow
319	.With agitator	321.89	...All cylindrical membranes are parallel
320	.With baffle perpendicular to flow direction	321.9	....With embedded baffle
321.6	CASING DIVIDED BY MEMBRANE INTO SECTIONS HAVING INLET(S) AND/OR OUTLET(S)	322	PLURAL DISTINCT SEPARATORS
321.61	.Membrane secured with adhesive of specified composition	323.1	.Filters
321.62	.Antithrombogenic membrane	323.2	..Tubular
321.63	.Rotating mechanical agitator adjacent membrane	324	..Movable separating elements
321.64	.Plural diverse structured membranes within a single casing	325	...Planetary
321.65	.Permeated liquid quantity measurement or control	326	...Drum type on parallel axis
321.66	.Energy recovery from treated liquid	327	...Plural cleaners and plural movable elements
321.67	.Membrane movement during purification	328	...Pivotally mounted sections
321.68	..Nontranslatory rotary	329	...Relatively movable
321.69	.With membrane cleaning or sterilizing means (other than by filter movement or rotating agitator)	330	...Connected for group operation
321.7	..Solid cleaning material (e.g., balls)	331	....Spaced filter wall type, e.g., multiple hollow leaves
321.71	.Dialyzer with dialysate proportioning means	332	..With residue removal or liquid agitation
321.72	.Each section having inlet(s) and outlet(s)	333.01	...Backwash or blowback
321.73	..Noncoiled nonannular cross section tube	333.1	....Sequential backwash
		334	...Alternating filter and residue remover
		335	..In series for prefilter flow
		336	...Tortuous path
		337	...Nested units
		338	....Concentric filter elements
		339	...Internal flange supporting filter element
		340	..Parallel filters with flow controller
		341	...Individually controlled for removal with common receiver
		342	..One element within another

343	..Alternating oppositely opening liquid distributors	377	...Internal work distributor
344	..Abutted alternating medium and pan type receiver	378	...Including filtrate receiving means having plural filtrate outlets
345	..Radial or radially connected to central header	379	...Including filtrate receiving trough adjacent top discharge
346	..Spaced wall-type filters	380.1	...Rotating element construction
347	...Central header	380.2	....Laundry
348	FILTER	380.3	....Horizontal axis
349	..Pulsation dampener or gas trapping	381	....Inwardly extending partitions
350	..With movable means to compress medium	382	....Top filtrate discharge
351	..Actuating means external of closed casing	383	..Separate agitator
352	..Internal spring	384	..Vibrator and unidirectional motion filter medium
353	..Free cleaning means, e.g., loose abrading particles	385	..With plural motion
354	..Medium, cleaner or agitator moved by fluid	386	..Rolls or confining members contacting residue
355	..Cleaner	387	..Unrollable
356	..Medium flexed	388	..Vibrating or longitudinally reciprocating
357	..Relatively movable members interleaved for cleaning	389	...Longitudinally moving prefilter type
358	..Imperforate drum, medium on arc, chord or end	390	..Mounted on movable valve element
359	..Movable medium	391	..With cleaning means
360.1	..Centrifugal extractor	392	...Fixed position or attached valve blocking means
360.2	..With inward flow of feed component	393	...Backwash or blowback and additional cleaner
361	...With individual article container or support	394	...Discharging inside, e.g., internal-type drum
362	....Container or support reversible	395	...With filter-driven valve means
363	...With adjustable rotation stabilizer	396	...Solid cleaner, e.g., scraper
364	...Casing, shaft and filter unit gyratorily mounted	397	....With plural outlets from filter casing
365	...Shaft and filter unit gyratorily mounted	398	..Within sealed enclosure
366	....Gyratory mounting above filter	399	...Movable casing
367	...Filter gyratorily mounted on shaft	400	..Belt type
368	...With rotation brake	401	...Superimposed on additional moving support
369	...Discharging residue	402	..Drum type
370	....Secondary motion of filter medium	403	...Internal feed
371	....With variable flow controller	404	...Annular segmented compartment
372	....By residue engaging means	405	..Movable prefilter distributor
373	.....Fixed	406	..Vacuumized filtrate receiver
374	.....Rotatable	407	..With residue removing means or agitation of liquid
375	.....Pivoted	408	..Diverse, e.g., combined agitators, scrapers, aeration blowback
376	.....Axially reciprocable	409	..Fluid cleaning
		410	...Air pump type
		411	...Backwash or blowback
		412	....Liquid pulsator

413	..Fixed filter medium and movable stirrer or cleaner	445	..Clamped in casing joint
414	..With plural outlets from filter casing	446	..Axially aligned inlet and outlet
415	...Nontranslatory rotary	447	...Laterally removable
416.1	..With pump, gas pressure, or suction source	448	...Single open-end-type filter element
416.2	..For aquarium or swimming pool	449	...Pipe end attached closed casing, e.g., faucet
416.3	..For drinking water	450	..Gasket within casing or spaced removable end members
416.4	..For fuel system	451	..Internal fixed shoulder supporting filter element
416.5	..For lubricating or oil treating system	452	...Single open-end-type filter element
417	..Alternating oppositely opening liquid distributors	453	..Filter element clamped between closure and end wall
418	..With flow controller for material being treated	454	..Filter element attached to closure
419	..Attached to or within portable prefilter receiver	455	..Receptacle and modified spacing surface or support for filter medium
420	..Selective directive flow relative to filter	456	..Prefilt flow distributor or diverter
421	...Pivoted prefilter deflector	457	..With central pervious tubular receiver
422	...Plural outlets from filter casing	458	..Plural concentric receivers
423	....Attached unitary plural passage header	459	..Pipe or plate attached type
424	...Multi-way valve	460	..Attached to open end of pipe
425	....Backwash	461	...Spaced wall-type element
426	.....Encased	462	...Pipe is connection to plate
427	..Backwash	463	...Inserted holder
428	..Combining or dividing flow passages with filter in combined passage	464	..Portable receptacle draining type
429	..Filter coaxial with valve seat or valve stem	465	..Cooperating handles on receptacle and drainer
430	...Filter surrounds valve	466	..Receptacle spout
431	..Filter fixed to valve seat, opposed to valve head	467	...Within receptacle proper
432	..Filter in valve body recess	468	...Spaced from spout discharge
433.1	..Divided filtered, and unfiltered liquid passages	469	..On or adjacent receptacle upper edge
434	..Recombining	470	..Handled
435	..Within flow line or flow line connected close casing	471	..Ring type
436	..Vented	472	..Vented
437	..Central internal liquid receiver, e.g., tube	473	..Resting on supporting receiver, e.g., portable
438	...Imperforate central liquid tube	474	..At upper edge of filtrate receiver
439	....Axial flow through filter element	475	...Filter offset in cover
440	...Inlet and outlet at same end	476	...Telescoped receivers or receiver sections
441	...Attached to casing	477	..Resting on internal stop or surface
442	....Head and base connected	478	...Unitary filter medium and radially expandable retainer
443	..Inlet and outlet at same end	479	...Inner separate retainer
444	..Filter suspended from head		

480	...With contractor for expandable retainer	500.33	.....Homocyclic
481	...Longitudinal retainer or guide, (e.g., reflex coffee maker)	500.34	.....Styrene
482	..At lower end or prefilter receiver	500.35	....Acrylate
483	..Supported, shaped or superimposed formed mediums	500.36	....Alkene other than vinyl
484	..Medium within foraminous supporting container or sheath	500.37	....Amine
485	..External cage-type support	500.38	.....Amide
486	..Spaced wall type, e.g., hollow leaf	500.39	.....Imide
487	..Concentric, convolute or pleated	500.4	....Carbonate
488	..Abutted or superimposed members	500.41	....Sulfone
489	...For series flow	500.42	....Vinyl
490	....Integral or coated layers	500.43	....Acrylonitrile
491	.....All fibrous	501	..Sterilizing or neutralizing agent containing
492	...Alternating dissimilar	502.1	..Sorptive component containing
493.1	..Pleated	503	..Diverse granular or fibrous
493.2	...Bonded end caps	504	...With adhered coating or impregnant
493.3	...Rectangularly shaped	505	...Including fibers
493.4	...Spirally formed	506	..Coated or impregnated, e.g., adhesively bound
493.5	...Filter element	507	...Fabrics
494.1	..Convolute	508	...Fibrous
494.2	...Metal	509	....Inorganic
494.3	...With edge spacer	510.1	..Porous unitary mass
495	..Single ring or closed frame type	511	LIQUID AS SEPARATING MEDIUM
496	..Bound, fused or matted, e.g., porous shapes, sponges, etc.	512.1	TANGENTIAL FLOW OR CENTRIFUGAL FLUID ACTION
497.01	..Cylindrical, conical, or trough shape	512.2	.Multiple cyclone
497.1	...Helically wound	512.3	.With movable means affecting flow
497.2	...Filter blank	513	GRAVITATIONAL SEPARATOR
497.3	...Conical	514	.Portable invertible, e.g., milk and cream separator
498	..Perforated or grooved plates	515	..Selective withdrawal of constituents
499	..Screens, e.g., woven	516	..Resilient deformable isolator
500.1	..Material	517	...Hinged to handle
500.21	..Semipermeable membrane	518	..Sectional isolator
500.22	...Isotropically pored	519	.Material supply distributor
500.23	...Hollow fiber or cylinder	520	..Rotatable
500.24	...Antithrombogenic coating or membrane	521	..Superposed compartments or baffles, e.g., parallel plate type
500.25	...Metal containing	522	..Each with lighter constituent discharge
500.26	...Glass	523	.Mechanical constituent mover
500.27	...Organic	524	..Diverse serial
500.28	....Cyclic	525	..Scum sediment removal
500.29	.....Cellulosic	526	..Endless belt or chain
500.3	.....Cellulose acetate	527	..Rectilinearly movable supporting means
500.31	.....Cellulose diacetate	528	..Horizontally rotating scraper
500.32	.....Cellulose triacetate	529	...Polygonal container and correlating mover

530	...Tank rim-supported carriage	922	.Oil spill cleanup (e.g., bacterial, etc.)
531	...Elevatable scrapers	923	..Using mechanical means (e.g., skimmers, pump, etc.)
532.1	..Heavier constituent trap, chamber, or recess	924	..Using physical agent (e.g., sponge, mop, etc.)
532.2	..Septic tank	925	..Using chemical agent
533	..Closure or valve controlled discharge	926	.Using oxidation ditch (e.g., carousel, etc.)
534	...In sloping recess	928	PAPER MILL WASTE (E.G., WHITE WATER, BLACK LIQUOR, ETC.) TREATED
535	...Downstream of separator	929	HEMOULTRAFILTRATE VOLUME MEASUREMENT OR CONTROL PROCESSES
536	...In side wall of separator	930	PAINT DETACKIFYING
537	..With discharge means for two or more lighter constituents	931	ZEBRA MUSSEL MITIGATION OR TREATMENT
538	.Lighter constituent trap		
539	..Gas vent or bypass		
540	..With discharge port		
541	ADJUNCTS		
542	MISCELLANEOUS		

CROSS-REFERENCE ART COLLECTIONS

900	ULTRA PURE WATER (E.G., CONDUCTIVITY WATER)
901	SPECIFIED LAND FILL FEATURE (E.G., PREVENTION OF GROUND WATER FOULING)
902	MATERIALS REMOVED
903	.Nitrogenous
904	..-CN containing
905	..Protein
906	.Phosphorus containing
907	..Phosphate slimes
908	.Organic
909	..Aromatic compound (e.g., PCB, phenol, etc.)
910	..Nonbiodegradable surfacant
911	.Cumulative poison
912	..Heavy metal
913	...Chromium
914	...Mercury
915	.Fluorine containing
916	.Odor (including control or abatement)
917	.Color
918	MISCELLANEOUS SPECIFIC TECHNIQUES
919	.Using combined systems by merging parallel diverse waste systems
920	.Using combined systems of sequential local and regional or municipal sewage systems
921	.Flow equalization or time controlled stages or cycles

FOREIGN ART COLLECTIONSFOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

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

STRUCTURAL INSTALLATION

FOR 100	.Closed circulating systems (210/167)
FOR 101	..Lubrication (210/168)
FOR 102	..Aquarium or swimming pool (210/169)
FOR 103	.Geographic (e.g., drainage ditch, septic, pond) (210/170)
FOR 104	.Ancillary to storage tank (210/172)

DIGESTS

DIG 3	BELT ALIGNMENT
DIG 5	COALESCER
DIG 6	DEHYDRATORS

DIG 7 **DRIER BLOCKS**
DIG 8 **FAT FRYER**
DIG 9 **FLOATING COVER**
DIG 13 **PART FLOW-FULL FLOW**
DIG 17 **TWIST-ON**

