U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1857

October 3, 2006

Project No. C-4579

	<u>Class</u>	Subclass	Art <u>Unit</u>	Ex'r Search Room No.
Abolished:	210	167-170, 172	1724	RND – B15
Established:	210	167.01-167.09, 167.1, 167.11- 167.19, 167.2, 167.21-167.29, 167.3, 167.31, 167.32, 170.01- 170.09, 170.1, 170.11, 172.1- 172.6	1724	RND-B15
		Cross-Reference Art Collection 931	1724	RND-815

The following classes are impacted by this project:

Class(es): 4, 37, 52, 62, 99, 119, 123, 137, 174, 184, 209, 405, 422

This order includes the following:

- A. CLASSIFICATION MANUAL CHANGES
- B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED PAGES
- C. CHANGES TO THE U.S. I.P.C. CONCORDANCE
- D. DEFINITION CHANGES

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

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600	PROCESSES	637	Including regulating pressure to
601	.Treatment by living organism		control constituent gradient at
602	Including plant or animal of higher		membrane or to prevent rupture of
	order		membrane
603	Including collecting or storing gas	638	Including ion exchange or other
	(e.g., fuel, carbon monoxide, etc.)		chemical reaction
604	And reusing oxident	639	Including prior use of additive (e.g.,
605	Anaerobically, with subsequently		changing pH, etc.)
003	aerobically treating liquid	640	Passing through membrane in vapor
coc	-		phase
606	Adding enzyme or releasing same by	641	Utilizing plural diverse membranes
	treating microorganism	642	. Extracting water from brine utilizing
607	.Dividing, treating, and recombining	042	liquid/liquid solvent or colloidal
	liquid		extraction
608	Regulating floating constituent	643	Utilizing liquid membrane (e.g.,
609	Including dewatering sludge	043	emulsion) in liquid/liquid solvent
610	Including adding ancillary growth		or colloidal extraction
	medium for microorganism		
611	For or with specific microorganism	644	. Diffusing or passing through septum
612	And regulating temperature during		selective as to material of a
VIZ.	biological step		component in liquid/liquid solvent
612			or colloidal extraction
613	Digesting sludge	645	Biological fluid (e.g., blood, urine,
614	Controlling process in response to		etc.)
	stream constituent or reactant	646	Hemodialysis
	concentration	647	Maintaining critical
615	Utilizing contact surfaces supporting		concentration(s)
	microorganism (e.g., trickling	648	Including regenerating or
	filter, etc.)		rehabilitating the extracting
616	Particulate media		liquid in liquid/liquid solvent or
617	In bed form		colloidal extraction
618	And rehabilitating or regenerating	649	Diffusing or passing through septum
	same		selective as to material of a
619	Rotating contactor		component of liquid
620	Aerobic treatment	650	Filtering through membrane (e.g.,
621			ultrafiltration)
	Recirculating to prior step	651	Removing specified material
622	Of separated liquid	652	
623	Of sludge or separated solid	032	Hyperfiltration (e.g., reverse osmosis, etc.)
624	And returning to or withdrawing	cra	
	from diverse treating zones	653	Utilizing specified membrane
625	Treating outside mainstream	c= 1	material
626	To mainstream oxygenation (e.g.,	654	Synthetic resin
	activated sludge, etc.)	655	Cellulosic
627	Utilizing specific oxidant, other	656	.Chromatography
	than air alone (e.g.,	657	Utilizing rotating column
	oxygen-enriched air, ozone,	658	Utilizing paper or thin layer plate
	peroxide, etc.)	659	Including liquid flow diversion
628	Utilizing mechanical aeration	660	.Ion exchange or selective sorption
	means		
629	And internally circulating the liquid	661	By passing through suspended bed
630	And anaerobic treatment	662	And liquid testing or volume measuring
		663	Including diverse separating or
631	And additional treating agent other		treating of liquid
	than mere mechanical manipulation	664	By distilling or degassing
	(e.g., chemical, sorption, etc.)	665	By making an insoluble substance or
632	.Treating by enzyme		accreting suspended constituents
633	.Extracting utilizing solid solute	666	Utilizing organic agent
634	.Liquid/liquid solvent or colloidal	667	Utilizing aluminum, calcium, or iron
	extraction or diffusing or passing	00,	containing agent
	through septum selective as to	668	By chemically modifying or inhibiting
	material of a component of liquid;	000	dispersed constituent
	such diffusing or passing being		_
	effected by other than only an ion	669	Prior to ion exchange or sorption
	exchange or sorption process		
635	Liquid/liquid or gel type (i.e.,		
	jellylike) chromatography		
636	Including cleaning or sterilizing of		
	apparatus		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

			OCTOBER 2000
	PROCESSES	714	Seeding
	.Ion exchange or selective sorption	715	Utilizing sludge or floc blanket
670	Including rehabilitating or	716	Including step of manufacturing
	regenerating exchange material or sorbent	717	inorganic treating agent
C71	Of oil sorbent material	717	In situ
671 672	Fractional, selective, or partial	718	Including degassing
612	type	719	Including chemical reduction
673	Utilizing gas, water, or chemical	720	Of chromium material
075	oxidizing or reducing agent	721	Including oxidation
674	Utilizing organic regenerant	722	Of iron or manganese material
675	Rehabilitating or regenerating in diverse zone or chamber	723	Utilizing precipitant, flocculant, or coagulant, each with accelerator or with each other or plural
676	Continuous cyclic process		precipitants, flocculants, or
677	Using conserved or recirculated fluid	724	coagulants Regulating pH
678	Including liquid flow direction change	72 4 725	
679	Utilizing exchange or sorbent material		Utilizing organic precipitant
073	associated with inert material	726 727	Sequential introductionIncluding organic agent
680	Including oil sorbent	727	Including organic agent
681	Removing ions	728 729	Therwaring organic agentUtilizing organic precipitant
682	Radioactive	729 730	From natural source or chemical
683	Anions	730	modification thereof
684	Metal complexed (e.g., chromate,	731	Starch
004	ferricyanide, chlorplatinate,	732	Synthetic polymer
	etc.)	732	Acrylic
685	Including cation	734	Nitrogen containing (e.g., amine,
686	Utilizing mixed bed or amphoteric material	734	azo, etc.)
687	Calcium or magnesium (e.g., hardness, water softening, etc.)		Nitrogen containing (e.g., amine, azo, etc.)
688	Heavy metal	736	Derived from alkyl halide or epihalophydrin reactant
689	. Sorbing water from diverse liquid	737	Including temperature change
690	Sorbing organic constituent	738	Including agitation
691	From aqueous material	739	.Including controlling process in
692	Utilizing synthetic resin		response to a sensed condition
693	oil removed	740	Density or specific gravity sensing
694	Utilizing activated carbon	741	Pressure sensing
695	.Using magnetic force	742	Temperature sensing
696	.Preventing, decreasing, or delaying precipitation, coagulation or	743	pH sensing
	flocculation	744	Level sensing
697	Utilizing inorganic phosphorus agent	745	Turbidity or optically sensing
698	Utilizing organic agent	746	Electrical property sensing
699	Phosphorus containing	747	.Including geographic feature (e.g., drainage ditch, septic, pond)
700	Nitrogen containing	740	.Utilizing electrical or wave energy
701	Acrylic polymer	748	(directly applied to liquid or
702	.Making an insoluble substance or	740	material being treated)
703	accreting suspended constituentsEffecting flotation	7 4 9	.Chemical treatmentIncluding degassing
	-	750	
704	Including chemical addition (with or without bouyancy gas)	752	Plural spaced feedings
705	Chemically specified precipitant,	753	Utilizing halogen or halogen containing material
200	coagulant, or flocculant	754	Chlorine or bromine containing
706	And significant characteristic of the bouyancy gas, other than	755	Organic
	mere addition of same	756	\dots Hypochlorite
707	Generating gas in situ	757	By chemical reduction
	Generating gas in situIncluding emulsion breaking	758	By oxidation
708	Controlling process in response to	759	Utilizing peroxy compound (e.g.,
709	stream condition	760	<pre>hydrogen peroxide, peracid, etc.)Utilizing ozone</pre>
710	Treating the insoluble substance		-
711	For recovery of a treating agent		
712	Including recycling		
713	Of separated solids		
			0 7 3 3 01

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	PROCESSES	808	Including specified pressure change
	.Chemical treatmentBy oxidation	85	WITH ALARM, INDICATOR, REGISTER, RECORDER, SIGNAL OR INSPECTION MEANS
761	Liquid phase high temperature and	86	.Material level or thickness responsive
701	pressure (e.g., "wet air", etc.)	87	Responsive to fluid flow
762	Catalytic	88	Meter-controlled cyclic systems
763	Catalytic	89	With time control
764	Destroying microorganisms	90	.Fluid pressure responsive
765	Including liquid recirculation	91	.Position or extent of motion
766	Including temperature change	92	.Test valve
767	Separating	93	.In effluent conduit
768	Including treating separated solids	94	.Transparent
769	Destroying cake or solid component	95	Sight glass
770	Including drying (e.g., by squeezing	96.1	CONSTITUENT MIXTURE VARIATION RESPONSIVE
,,,,	or heating, etc.)	96.2	.With membrane
771	By gas contact	97	FLOW, FLUID PRESSURE OR MATERIAL LEVEL,
772	Washing with a fluid other than the prefilt	98	RESPONSIVE .Fluid current controlled cyclic system
773	Including preliminary conversion to	99	Prefilt deverting to drain by prefilt
	liquid state		accumulation
774	Including temperature change	100	.Flow cut-off requiring reset
775	Thermal diffusion	101	.Proportionate feed means
776	Skimming	102	.Programming plural units
777	Including precoating filter medium with filter aid	103	.piverse sensing means
778	With or by addition to prefilt	104	Responsive to material level
778 779	With of by addition to prefit Discharging residue to prefit	105	With control for auxiliary liquid
779 780	Including movement of filter during	106	inlet .Filter cleaning
	filtration	107	Rotary movement of filter or
781	Centrifugally extracting	107	mechanical cleaner
782	Blood	108	Backwash or blowback
783	Rotating belt	109	.Discharge of treated material
784	Rotating drum	110	With separator inlet control
785	Cleaning filter utilizing wave energy (e.g., vibrating, pulsating, etc.)	111	Responsive to prefilt accumulation or filter clogging
786	Of particulate bed (e.g., fluidized	112	Heavier constituent
	or moving bed, etc.)	113	By weight of solids
787	Cyclonic, or centrifugal (e.g.,	114	By treated liquid accumulation
	<pre>whirling or helical motion or by vortex, etc.)</pre>	115	With lighter constituent outlet control
788	Introducing liquid tangentially	116	Permitted by filtrate accumulation
789	Isolating layer	117	Check valve controlled
790	Dividing and recombining	118	Non-closing, e.g., sand valve
791	Rehabilitating or regenerating filter	119	Float type
	medium	120	.Vent control
792	Particulate bed	121	.Float
793	Reverse flow	122	Controls movable separator
794	Including addition of diverse fluid	123	Controls valve
795	Expanded bed	124	Controls flow between two separators
796	Includng mechanical agitation	125	Separator between float and valve
797	By diverse fluid	126	Float in separate rehabilitating
798	Reverse flow		fluid tank
799	Filtering immiscible liquids	127	Additional fluid inlet control
800	Utilizing gravitational force	128	Float in receptacle other than that
801	Including change of mainstream flow direction	129	of separatorIn flow between inlet and separator
802	Utilizing parallel separation	130	.Fluid pressure responsive by-pass
	passages	131	By movement of separation medium
803	Including specified feature of settled solids removal	131	
804	And additional diverse separation		
805	And recirculating liquid		
806	Plural separating		
807	Utilizing particulate bed		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

			OCTOBER 2000
	FLOW, FLUID PRESSURE OR MATERIAL LEVEL, RESPONSIVE	* 167.18	Skimmer arm at skimmer opening at water surface
132	.Fluid pressure responsive by-passWith additional separation or treating	* 167.19	Mesh or screen filter at or near water surface
132	means	* 167.2	Having floating means
133	In inlet and outlet closure header	* 167.21	For aquarium
134	.Plural elements controlled	* 167.22	Separator using living organism
135	Including manually controlled element	* 167.23	Separator or part thereof associated
136	.Check valve		with bottom of aquarium (e.g.,
137	.Maintaining stream pressure or flow		means positioned under gravel,
138	WITH TIME CONTROL		etc.)
139	.Of additional fluid	* 167.24	Having solid sorbent
140	Preparation for treating operation	* 167.25	Particulate filter or particulate
141	WITH PROGRAM ACTUATOR		sorbent
142	.Plural treating units or sections	* 167.26	Separator with aerator
112	sequentially controlled	* 167.27	Separator mounted on top edge of
143	AUTOMATIC CONTROL	* 167 20	aquarium wall
144	Responsive to vibration or unbalance	* 167.28 * 167.29	For cooking oil system
145	.Responsive to rotation	* 167.29 * 167.3	Having magnetic treating meansWith means to add treating material
146	Controlled cover latch	* 167.31	Plural separators
147	Controlled discharge means		With heating or cooling means
148	.Container movement operated	* 167.32 * 170.01	
149	.Thermal	* 170.01	.Geographic For fishpond
150	WITH GAS-LIQUID SURFACE CONTACT MEANS	* 170.02 * 170.03	For stormwater treatment (e.g.,
151	.With separator	" 170.03	rainwater runoff, stormsewer
153	STRUCTURAL INSTALLATION		treatment, etc.)
154	.Flume stream type	* 170.04	For excavating means
155	Plural or diverse screens	* 170.05	Floating means
156	Fluid stream or residue operated	* 170.06	Separator with aerator
157	Revolving cylindrical strainer	* 170.07	Groundwater
158	With cleaner for movable strainer	* 170.08	Septic tank or waste liquid treatment
, 159	With cleaner and means to remove residue therefrom	* 170.09	<pre>systemBody of freshwater (e.g., pond, lake,</pre>
160	Endless belt strainer		reservoir, etc.)
161	Revolving strainer	* 170.1	Surface flowing freshwater (e.g.,
162	Fixed strainer		stream, river, ditch, canal, etc.)
163	.Grated inlet surface drain	* 170.11	Body of saltwater (e.g., sea, ocean,
164	Flat grating at surface level		etc.)
165	With subsurface weep means	171	Machinery
166	Concentric guard ring or rib	* 172.1	.Separator ancillary to storage tank
* 167.01	.Closed circulating system	* 172.2	Submerged separator
* 167.02	For lubrication system	* 172.3	On pump suction intake
* 167.03	Having magnetic treating means	* 172.4	Filter supported by frame (e.g., bag shaped filter in fuel tank for
* 167.04	Plural separators		engine, etc.)
* 167.05	Having bypass line	* 172.5	Having tethering means
* 167.06	With heating or cooling means	* 172.6	In tank inlet
* 167.07	,Evaporator	173	COMMINUTING
* 167.08	Separator for transmission system	174	.Cylindrical strainer
* 167.09	With separator cleaning means	175	WITH HEATER OR HEAT EXCHANGER
* 167.1	For swimming pool or spa (e.g.,	176	.Thermal diffusion
	skimmer, etc.)	177	.With treating fluid addition
* 167.11	With means to add treating material	178	With mechanical agitator or movable
* 167.12	Separator external to swimming pool or spa	179	separator .With mechanical agitator or movable
* 167.13	Particulate solid filter	113	separator
* 167.14	With separator cleaning means (e.g., backwash means, etc.)	180	.Vapor or gas removal
* 167.15	Separator for use on swimming pool or spa bottom and separator for use	181	.Flow line connected in series with distinct separator
	at water surface	182	.Diverse separators
* 167.16	Separator for use on swimming pool or spa bottom	183	Common casing coaxial with heater
* 167.17	Debris collecting bag		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	WITH HEATER OR HEAT EXCHANGER	225	.With residue removal or liquid
184	.For filter		agitation
185	Imbedded or between filter media	226	.With porous filler
186	External of casing	227	.Medium clamped in joint
187	.Within gravitational separator	228	With spacing frame
188	WITH GAS SEPARATOR	229	Imperforate base recess in plate
189	PLURAL CHAMBERS WITH MOVEMENT OF	230	.With repair or assembling means
	GRANULES THEREBETWEEN	231	.Plates or frames
190	WITH EXTERNAL SUPPLY MEANS FOR	232	WITH REPAIR OR ASSEMBLING MEANS
	REGENERATING MEDIUM, E.G., WATER	233	.Piercing or closure knock out means
191	SOFTENING SYSTEM .With pump, injector or siphon	234	Removable treatment part with normally disabled flow controller
192	WITH PRELIMINARY CHEMICAL MANUFACTURE	235	.Placement of container opens flow
193	WITH PRECOAT ADDING OR APPLYING MEANS	255	controller
194	RECIRCULATION	236	.Sliding or rolling on guide means
195.1	.Serially connected distinct treating or	237	.Hoist or handle means
	storage units	238	Hand manipulable
195.2	With semipermeable membrane, e.g.,	239	CONVERTIBLE
	dialyzer, etc.	240	.Filter having selectively usable flow
195.3	With sediment recycle means directly to main stream		connector means
105 4	Means is baffle slot	241	WITH MOVABLE SUPPORT
195.4	means is ballie slot	242.1	Float
196	· • • • • • • • • • • • • • • • • • • •	242.2	With aerating means
197	.From bottom of separator	242.3	With oil water skimmer
198.1	WITH MEANS TO ADD TREATING MATERIAL	242.4	With oil water sorption means
198.2	.Chromatography	243	ELECTRICAL INSULATING OR ELECTRICITY
198.3	Thin layer, e.g., plate, etc.		DISCHARGING
199	Spaced along flow path	244	PORTABLE RECEPTACLE WITH HOOD OR CLOSURE
200	.Plural distinct separators	245	.Attached variable flow controller
201	Serially connected	246	.Limited opening cover
202	Diverse type	247	FILTRATE SPLASH PLATE AND/OR DEFLECTOR
203	Filters	248	WITH DRIP, OVERFLOW OR CONTENT DRAINING
204	Sectional chamber press type		FEATURE
205	.With distinct reactor tank, trough or compartment	249	BRACKET OR LEG SUPPORT FOR STATIC SEPARATOR ASSEMBLY
206	Chemical holder in series with	250	.Leg
	separator	251	COMBINED
207	Within gravitational separator	252	SERIALLY CONNECTED DISTINCT TREATING
208	With mechanical agitator		WITH OR WITHOUT STORAGE UNITS
209	.Directly applied to separator	253	.Parallel
210	To interior of moving filter, e.g.,	254	.With by-pass
	drum	255	.Cascade
211	Through separator supporting rotary	256	.One unit inside another
	shaft	257.1	.With storage unit
212	With stationary casing closure	257.2	Having membrane
213	featureWith coaxial rotary impeller or	258	.With pump, gas pressure or vacuum source
	distributor	259	.Diverse
214	With stationary mount for movable	260	Including multiple operation unit
	distributor	261	One unit supports another
215	With effluent dividing means	262	On different levels
216	Moving filter medium	263	PARTICULATE MATERIAL TYPE SEPARATOR,
217	Drum		E.G., ION EXCHANGE OR SAND BED
218	Gas removed from closed tank	264	.Selective units or compartments
219	With mechanical agitator	265	.With gravitational separator
220	Submerged fluid inlet	266	.With spaced non-particulate separating
221.1	With outlet at surface, e.g., froth flotation, etc.		means
221.2	And gas injecting means other than	267	.Trunnion mounted casing
221.2	by mechanical agitation	268	Gravity flow of particles type
222	MAGNETIC	269	.With rehabilitation means
223	.With additional separator		
223	.WICH Address of the Company of the		

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SECTIONAL CHAMBER PRESS TYPE

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

			OCTOBER 2000
	PARTICULATE MATERIAL TYPE SEPARATOR,	315	One within another
	E.G., ION EXCHANGE OR SAND BED	316	One adjacent inlet or outlet conduit
	.With rehabilitation means	317	Including non-self-supporting medium
270	Movable means for particle pickup and	318	Incompatible shapes
	redeposit	319	.With agitator
271	Surface traversing type	320	.With baffle perpendicular to flow
272	Rotating on stationary axis		direction
273	Moving fluid distributor	321.6	CASING DIVIDED BY MEMBRANE INTO SECTIONS
274	Including means to apply gas to bed	321.61	HAVING INLET(S) AND/OR OUTLET(S) .Membrane secured with adhesive of
275	Backwash or blowback means	321.01	specified composition
276	With mechanical agitator or residue remover	321.62	Antithrombogenic membrane
277	Flow controller external of closed casing	321.63	.Rotating mechanical agitator adjacent membrane
278	Multi-way valve unit	321.64	.Plural diverse structured membranes
279	With embedded fluid distributor	321.04	within a single casing
280	With agitator	321.65	.Permeated liquid quantity measurement
281	With access opening to normally closed		or control
201	casing	321.66	.Energy recovery from treated liquid
282	.Removable cartridge or hand-manipulated	321.67	.Membrane movement during purification
	container	321.68	Nontranslatory rotary
283	.Pervious divider between and contacting beds	321.69	.With membrane cleaning or sterlizing means (other than by filter movement
284	.Spaced beds	201 5	or rotating agitator)
285	.Embedded baffle	321.7	Solid cleaning material (e.g., balls)
286	.Vertical	321.71	.Dialyzer with dialysate proportioning means
287	.Within flow line or flow line connected closed casing	321.72	.Each section having inlet(s) and outlet(s)
288	Conduit through bed, inlet and outlet at same end of casing	321.73	Noncoiled nonannular cross section
289	With particular liquid receiving means or foraminous bed retainer	321.74	tubeCoiled membrane
290	.With multi-layer beds	321.75	Planar membrane
291	.Particular liquid receiving means or	321.76	Spiral flow
	foraminous bed retainer	321.77	Pleated membrane
292	Hood or top protector type	321.78	Cylindrical membrane
293	Floor type, e.g., false bottom	321.79	Plural cylindrical membranes all
294	DIVERSE DISTINCT SEPARATORS	221 0	connected for parallel flow
295	Including a filter	321.8	All cylindrical membranes are parallel
296	Including liquid as a separating	321.81	With embedded baffle
207	medium	321.82	.Noncoiled nonannular cross section tube
297	Moving filter medium	321.83	.Coiled membrane
298	With mechanical residue or sediment mover	321.84	.Planar membrane
299	Including constituent trapping feature	321.85	Spiral flow
300	Alternate filters and traps in series	321.86	.Pleated membrane
301	Plural traps	321.87	.Cylindrical membrane
302	Flow-line valve upstream of separator	321.88	Plural cylindrical membranes all
303	Cut-off sediment trap		connected for parallel flow
304	Tangential flow, spiral or convolute baffle	321.89	All cylindrical membranes are parallel
305	Baffle preceding or within sediment	321.9	With embedded baffle
505	trap	322	PLURAL DISTINCT SEPARATORS
306	Deflecting prefilt from filter	323.1	.Filters
	medium	323.2	Tubular
307	Downstream of filter medium	324	Movable separating elements
308	Directly communicating with tubular filter interior	325 326	PlanetaryDrum type on parallel axis
309	Attached to filter element	920	oppo on paratror axis
310	Lateral trap		
311	Downflow inlet, upflow through filter		
312	mediumSediment discharge means		
312	Valve controlled		
313	Spaced filters		
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	# Title Change		@ Indent Change

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	PLURAL DISTINCT SEPARATORS	369	Discharging residue
	Filters	370	Secondary motion of filter medium
	. Movable separating elements	371	With variable flow controller
327	Plural cleaners and plural movable	372	By residue engaging means
327	elements	373	Fixed
328	Pivotally mounted sections	374	Rotatable
329	Relatively movable	375	Pivoted
330	Connected for group operation	376	Axially reciprocable
331	Spaced filter wall type, e.g.,	377	Internal work distributor
322	multiple hollow leaves	378	Including filtrate receiving means
332	With residue removal or liquid	3.0	having plural filtrate outlets
	agitation	379	Including filtrate receiving trough
333.01	Backwash or blowback		adjacent top discharge
333.1	Sequential backwash	380.1	Rotating element construction
334	Alternating filter and residue	380.2	Laundry
	remover	380.3	Horizontal axis
335	In series for prefilt flow	381	Inwardly extending partitions
336	Tortuous path	382	Top filtrate discharge
337	Nested units	383	Separate agitator
338	Concentric filter elements	384	Vibrator and unidirectional motion
339	Internal flange supporting filter		filter medium
	element	385	With plural motion
340	Parallel filters with flow controller	386	Rolls or confining members contacting
341	Individually controlled for removal		residue
	with common receiver	387	Unrollable
342	One element within another	388	Vibrating or longitudinally
343	Alternating oppositely opening liquid		reciprocating
	distributors	389	Longitudinally moving prefilt type
344	Abutted alternating medium and pan	390	Mounted on movable valve element
2.45	type receiverRadial or radially connected to	391	With cleaning means
345	central header	392	Fixed position or attached valve blocking means
346	Spaced wall-type filters	393	Backwash or blowback and additional
347	Central header		cleaner
348	FILTER	394	Discharging inside, e.g.,
349	.Pulsation dampener or gas trapping		internal-type drum
350	.With movable means to compress medium	395	With filter-driven valve means
351	Actuating means external of closed	396	Solid cleaner, e.g., scraper
250	casing	397	With plural outlets from filter
352	Internal spring .Free cleaning means, e.g., loose	200	casing Within sealed enclosure
353	abrading particles	398	Movable casing
354	.Medium, cleaner or agitator moved by	399	· •
± € € €	fluid	400	Belt type
355	Cleaner	401	Superimposed on additional moving support
356	Medium flexed	402	Drum type
357	Relatively movable members interleaved	402	Internal feed
557	for cleaning	404	Annular segmented compartment
358	.Imperforate drum, medium on arc, chord	404	Amutar segmented compartment.
	or end	405 406	.Vacuumized filtrate receiver
359	.Movable medium		.With residue removing means or
360.1	Centrifugal extractor	407	agitation of liquid
360.2	With inward flow of feed component	408	Diverse, e.g., combined agitators,
361	With individual article container or	400	scrapers, aeration blowback
	support	409	Fluid cleaning
362	Container or support reversible	410	Air pump type
363	With adjustable rotation stabilizer	411	Backwash or blowback
364	Casing, shaft and filter unit	412	Liquid pulsator
	gyratorily mounted	413	Fixed filter medium and movable
365	Shaft and filter unit gyratorily mounted	473	stirrer or cleaner
366	Gyratory mounting above filter		
367	Filter gyratorily mounted on shaft		
368	With rotation brake		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

		450	
	FILTER	453	Filter element clamped between closure and end wall
	.With residue removing means or agitation of liquid	454	Filter element attached to closure
	Fixed filter medium and movable stirrer or cleaner	455	Receptacle and modified spacing surface or support for filter medium
414	With plural outlets from filter	456	.Prefilt flow distributor or diverter
	casing	457	.With central pervious tubular receiver
415	Nontranslatory rotary	458	Plural concentric receivers
416.1	.With pump, gas pressure, or suction	459	.Pipe or plate attached type
	source	460	Attached to open end of pipe
416.2	For aquarium or swimming pool	461	Spaced wall-type element
416.3	. For drinking water	462	Pipe is connection to plate
416.4	For fuel system	463	Inserted holder
416.5	For lubricating or oil treating system	464	.Portable receptacle draining type
417	Alternating oppositely opening liquid distributors	465	Cooperating handles on receptacle and drainer
418	.With flow controller for material being treated	466	Receptacle spout
419	Attached to or within portable prefilt	467	Within receptacle proper
417	receiver	468	Spaced from spout discharge
420	Selective directive flow relative to	469	On or adjacent receptacle upper edge
	filter	470	.Handled
421	Pivoted prefilt deflector	471	Ring type
422	Plural outlets from filter casing	472	.Vented
423	Attached unitary plural passage header	473	Resting on supporting receiver, e.g., portable
424	Multi-way valve	474	At upper edge of filtrate receiver
425	Backwash	475	Filter offset in cover
426	Encased	476	Telescoped receivers or receiver sections
427	Backwash	477	Resting on internal stop or surface
428	Combining or dividing flow passages with filter in combined passage	478	Unitary filter medium and radially expandable retainer
429	. Filter coaxial with valve seat or	479	Inner separate retainer
	valve stem	480	With contractor for expandable
430	Filter surrounds valve		retainer
431	Filter fixed to valve seat, opposed to valve head	481	Longitudinal retainer or guide, (e.g., reflex coffee maker)
432 433.1	Filter in valve body recess .Divided filtered, and unfiltered liquid	482	At lower end or prefilt receiver
	passages	483	.Supported, shaped or superimposed formed mediums
434 435	Recombining .Within flow line or flow line connected	484	Medium within foraminous supporting container or sheath
126	close casing	485	External cage-type support
436	VentedCentral internal liquid receiver,	486	Spaced wall type, e.g., hollow leaf
437	e.g., tube	487	Concentric, convolute or pleated
438	Imperforate central liquid tube	488	Abutted or superimposed members
439	Axial flow through filter element	489	For series flow
440	Inlet and outlet at same end	490	Integral or coated layers
441	Attached to casing	491	All fibrous
442	Head and base connected	492	Alternating dissimilar
443	Inlet and outlet at same end	493.1	Pleated
444	Filter suspended from head	493.2	Bonded end caps
445	Clamped in casing joint	493.3	Rectangularly shaped
446	Axially aligned inlet and outlet	493.4	Spirally formed
447	Laterally removable	493.5	Filter elementConvolute
448	Single open-end-type filter element	494.1	
449	Pipe end attached closed casing,	494.2	Metal
	e.g., faucet	494.3 495	With edge spacerSingle ring or closed frame type
450	Gasket within casing or spaced removable end members	433	
451	Internal fixed shoulder supporting filter element		
452	Single open-end-type filter element		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	FILTER	522	Each with lighter constituent
	.Supported, shaped or superimposed		discharge
	formed mediums	523	.Mechanical constituent mover
496	Bound, fused or matted, e.g., porous	524	Diverse serial
	shapes, sponges, etc.	525	Scum sediment removal
497.01	Cylindrical, conical, or trough shape	526	Endless belt or chain
497.1	Helically wound	527	Rectilinearly movable supporting means
497.2	Filter blank	528	Horizontally rotating scraper
497.3	Conical	529	Polygonal container and correlating
498	Perforated or grooved plates	F20	mover
499	Screens, e.g., woven	530	Tank rim-supported carriage
500.1	.Material	531	Elevatable scrapers
500.21	Semipermeable membrane	532.1	.Heavier constituent trap, chamber, or recess
500.22	Isotropically pored	532.2	Septic tank
500.23	Hollow fiber or cylinder	533	Closure or valve controlled discharge
500.24	Antithrombogenic coating or membrane	534	In sloping recess
500.25	Metal containing	535	Downstream of separator
500.26	Glass	536	In side wall of separator
500.27	Organic	537	With discharge means for two or more
500.28	Cyclic	337	lighter constituents
500.29	Cellulosic	538	.Lighter constituent trap
500.3	Cellulose acetate	539	Gas vent or bypass
500.31	Cellulose diacetate	540	With discharge port
500.32	Cellulose triacetate	541	ADJUNCTS
500.33	Homocyclic	542	MISCELLANEOUS
500.34	Styrene	312	*******
500.35	Acrylate		CROSS-REFERENCE ART COLLECTIONS
500.36	Alkene other than vinyl		******
500.37	Amine	900	ULTRA PURE WATER (E.G., CONDUCTIVITY
500.38	Amide	500	WATER)
500.39	Imide	901	SPECIFIED LAND FILL FEATURE (E.G.,
500.4	Carbonate		PREVENTION OF GROUND WATER FOULING)
500.41	Sulfone	902	MATERIALS REMOVED
500.42	Vinyl	903	.Nitrogenous
500.43	Acrylonitrile	904	CN containing
501	Sterilizing or neutralizing agent containing	905	Protein
502.1	Sorptive component containing	906	.Phosphorus containing
503	Diverse granular or fibrous	907	Phosphate slimes
504	With adhered coating or impregnant	908	.Organic
505	Including fibers	909	Aromatic compound (e.g., PCB, phenol,
506	Coated or impregnated, e.g.,		etc.)
500	adhesively bound	910	Nonbiodegradable surfacant
507	Fabrics	911	.Cumulative poison
508	Fibrous	912	Heavy metal
509	Inorganic	913	Chromium
510.1	Porous unitary mass	914	Mercury
511	LIOUID AS SEPARATING MEDIUM	915	.Fluorine containing
512.1	TANGENTIAL FLOW OR CENTRIFUGAL FLUID	916	.Odor (including control or abatement)
312.1	ACTION	917	.Color
512.2	.Multiple cyclone	918	MISCELLANEOUS SPECIFIC TECHNIQUES
512.3	.With movable means affecting flow	919	.Using combined systems by merging
513	GRAVITATIONAL SEPARATOR		parallel diverse waste systems
514	.Portable invertible, e.g., milk and cream separator	920	.Using combined systems of sequential local and regional or municipal sewage systems
515	Selective withdrawal of constituents	921	.Flow equalization or time controlled
516	Resilient deformable isolator	-	stages or cycles
517	Hinged to handle	922	.0il spill cleanup (e.g., bacterial,
518	Sectional isolator		etc.)
519	.Material supply distributor		
520	Rotatable		
521	.Superposed compartments or baffles, e.g., parallel plate type		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

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MISCELLANEOUS SPECIFIC TECHNIQUES
           .Oil spill cleanup (e.g., bacterial,
              etc.)
 923
           .. Using mechanical means (e.g.,
               skimmers, pump, etc.)
           .. Using physical agent (e.g., sponge,
 924
               mop, etc.)
 925
           .. Using chemical agent
           .Using oxidation ditch (e.g., carousel,
 926
              etc.)
           PAPER MILL WASTE (E.G., WHITE WATER,
 928
             BLACK LIQUOR, ETC.) TREATED
 929
           HEMOULTRAFILTRATE VOLUME MEASUREMENT OR
             CONTROL PROCESSES
           PAINT DETACKIFYING
 930
* 931
           ZEBRA MUSSEL MITIGATION OR TREATMENT
           *********
           FOREIGN ART COLLECTION
           *********
           CLASS-RELATED FOREIGN DOCUMENTS
 FOR 000
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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 (210/153)

* 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

@ Indent Change & Position Change

[#] Title Change
* Newly Established Subclass

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New Classification	Number Of ORs		Number Of ORs
119/246	1	210/169	646
119/260	1	210/169	646
137/215	1	210/167	226
156/73.3	1	210/168	168
202/170	1	210/170	347
209/170	1	210/170	347
210/103	1	210/167	226
210/114	1	210/170	347
210/122	1	210/168	168
210/123	1	210/169	646
210/138	1	210/167	226
	1	210/169	646
210/149	1	210/169	646
210/154	1	210/170	347
210/167.01	68	210/167	226
	1	210/168	168
	4	210/169	646
	1	210/170	347
210/167.02	64	210/168	168

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New Classification	Number Of ORs		
	2	210/172	165
210/167.03	7	210/168	168
210/167.04	1	210/167	226
	36	210/168	168
210/167.05	5	210/168	168
210/167.06	10	210/168	168
210/167.07	6	210/168	168
210/167.08	14	210/168	168
	1	210/172	165
210/167.09	7	210/168	168
210/167.1	46	210/169	646
210/167.11	8	210/167	226
	54	210/169	646
210/167.12	2	210/167	226
	71	210/169	646
	2	210/170	347
210/167.13	38	210/169	646
210/167.14	16	210/169	646
	1	210/170	347

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Project No. C-4579

New Classification	Number Of ORs	Source Classification	Number Of ORs
210/167.15	6	210/169	646
210/167.16	1	210/167	226
	15	210/169	646
210/167.17	1	210/167	226
	13	210/169	646
210/167.18	24	210/169	646
210/167.19	20	210/169	646
210/167.2	22	210/169	646
210/167.21	38	210/169	646
210/167.22	45	210/169	646
210/167.23	53	210/169	646
210/167.24	17	210/169	646
210/167.25	46	210/169	646
210/167.26	34	210/169	646
210/167.27	35	210/169	646
210/167.28	27	210/167	226
	2	210/168	168
210/167.29	6	210/167	226
210/167.3	26	210/167	226
	1	210/169	646
210/167.31	46	210/167	226

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Project No. C-4579

New Classification	Number Of ORs	Source Classification	Number Of ORs
	1	210/169	646
210/167.32	30	210/167	226
210/170.01	43	210/170	347
210/170.02	1	210/167	226
	3	210/169	646
	8	210/170	347
210/170.03	27	210/170	347
210/170.04	12	210/170	347
210/170.05	23	210/170	347
210/170.06	1	210/169	646
	27	210/170	347
210/170.07	1	210/167	226
	43	210/170	347
210/170.08	46	210/170	347
210/170.09	1	210/167	226
	45	210/170	347
210/170.1	30	210/170	347
210/170.11	21	210/170	347
210/171	1	210/168	168
210/172.1	48	210/172	165

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New Classification	Number Of ORs	Source Classification	Number Of ORs
210/172.2	45	210/172	165
210/172.3	29	210/172	165
210/172.4	18	210/172	165
210/172.5	5	210/172	165
210/172.6	14	210/172	165
210/206	1	210/168	168
210/232	2	210/168	168
	5	210/169	646
210/233	1	210/169	646
210/235	1	210/169	646
210/237	1	210/169	646
210/238	10	210/169	646
210/243	1	210/168	168
210/259	1	210/170	347
210/282	1	210/169	646
210/315	1	210/168	168
210/316	1	210/168	168
210/333.1	1	210/169	646
210/342	1	210/169	646
210/446	1	210/169	646

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New Classification	Number Of ORs	Source Classification	Number Of ORs
210/460	1	210/168	168
210/470	2	210/169	646
210/471	2	210/169	646
210/474	1	210/170	347
210/501	1	210/169	646
210/616	1	210/169	646
210/634	1	210/168	168
210/695	1	210/172	165
210/696	2	210/168	168
210/697	1	210/168	168
210/712	1	210/167	226
210/747	2	210/170	347
210/774	1	210/168	168
210/805	1	210/167	226
	1	210/169	646
210/85	1	210/169	646
210/87	1	10/167	226
	1	210/169	646
210/90	1	210/168	168
	1	210/169	646

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New Classification	Of ORs	Source Classification	Number Of ORs
210/94	3	210/169	646
	1	210/172	165
210/95	1	210/169	646
210/97	1	210/169	646
239/602	1	210/170	347
239/93	1	210/169	646
299/5	1	210/170	347
383/100	1	210/172	165
405/52	3	210/170	347
422/140	1	210/170	347
423/560	1	210/170	347
435/290.1	1	210/170	347
435/290.2	1	210/170	347
507/216	1	210/170	347
96/237	1	210/167	226

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Source Classification	Number of ORs	New Classification	Number of ORs
210/167	226	137/215	1
		210/103	1
		210/138	1
		210/167.01	68
		210/167.04	1
		210/167.11	8
		210/167.12	2
		210/167.16	1
		210/167.17	1
		210/167.28	27
		210/167.29	6
		210/167.3	26
		210/167.31	46
		210/167.32	30
		210/170.02	1
		210/170.07	1
		210/170.09	1
		210/712	1

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Source Classification	Number of ORs	New Classification	Number of ORs
		210/805	1
		210/87	1
		96/237	1
210/168	168	156/73.3	1
		210/122	1
		210/167.01	1
		210/167.02	64
		210/167.03	7
		210/167.04	36
		210/167.05	5
		210/167.06	10
		210/167.07	6
		210/167.08	14
		210/167.09	7
		210/167.28	2
		210/171	1
		210/206	1
		210/232	2
		210/243	1
		210/315	1

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Source Classification	Number of ORs	New Classification	Number of ORs
		210/316	1
		210/460	1
		210/634	1
		210/696	2
		210/697	1
		210/774	1
		210/90	1
210/169	646	119/246	1
210/169	646	119/260	1
		210/123	1
		210/138	
		210/149	1
		210/167.01	4
		210/167.1	46
		210/167.11	54
		210/167.12	71
		210/167.13	38
		210/167.14	16
		210/167.15	6

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Source Classification	Number of ORs	New Classification	Number of ORs
		210/167.16	15
		210/167.17	13
		210/167.18	24
		210/167.19	20
		210/167.2	22
		210/167.21	38
		210/167.22	45
		210/167.23	53
		210/167.24	17
		210/167.25	46
		210/167.26	34
		210/167.27	35
		210/167.3	1
		210/167.31	1
		210/170.02	3
		210/170.06	1
		210/232	5
		210/233	1
		210/235	1
		210/237	1

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Source Classification	Number of ORs	New Classification	Number of ORs
		210/238	10
		210/282	1
		210/333.1	1
		210/342	1
		210/446	1
		210/470	2
		210/471	2
		210/501	1
		210/616	1
		210/805	1
		210/85	1
		210/87	1
		210/90	1
		210/94	3
		210/95	1
210/169	646	210/97	1
		239/93	1
210/170	347	202/170	1
		209/170	1

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Source Classification	Number of ORs	New Classification	Number of ORs
		210/114	1
		210/154	1
		210/167.01	1
		210/167.12	2
		210/167.14	1
		210/170.01	43
		210/170.02	8
		210/170.03	27
		210/170.04	12
		210/170.05	23
		210/170.06	27
		210/170.07	43
		210/170.08	46
		210/170.09	45
		210/170.1	30
		210/170.11	21
		210/259	1
		210/474	1
		210/747	2

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Source Classification	Number of ORs	New Classification	Number of ORs
		239/602	1
		299/5	1
		405/52	3
		422/140	1
		423/560	1
		435/290.1	1
		435/290.2	1
		507/216	1
210/172	165	210/167.02	2
		210/167.08	1
		210/172.1	48
		210/172.2	45
		210/172.3	29
		210/172.4	18
		210/172.5	5
		210/172.6	14
		210/695	1
		210/94	1
		383/100	1

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

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Project No. C4579

C. CHANGES TO THE U.S.-I.P.C. CONCORDANCE

	U.S.		I.P.C.	
Class		Subclass	Subclass	Notation
210		167.01	B01D	
			C02F	
			C02F	1/00
		167.02-167.09	B01D	
			F01M	
			F01M	11/03
		167.1-167.2	B01D	
			C02F	
			C02F	1/00
			E04H	4/16
		167.21-167.27	B01D	
			C02F	
			A01K	63/04
		167.28	B01D	
			A47J	37/12
		167.29	B01D	35/06
			B03C	1/00
		167.3-167.32	B01D	
			C02F	
			C02F	1/00
		170.01-170.11	B01D	
			C02F	
			C02F	1/00
			E02B	15/00
		171-172.6	B01D	
			C02F	
			C02F	1/00

CLASS 4 – BATHS, CLOSETS, SINKS, AND SPITTOONS

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 490: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclasses 167.1 and 167.2 for liquid purification or separation means in a structural installation with a closed circulating system for a swimming pool or spa.

CLASS 37 – EXCAVATING

 $\underline{Definitions\ Modified:}\ (Place\ modifications\ in\ numerical\ sequence,\ where\ applicable):$

Class Definition: Under Section III – References to Other Classes

Insert:

210, Liquid Purification or Separation, subclass 170.04 for liquid purification or separation means for excavating means.

CLASS 52 – STATIC STRUCTURES (E.G., BUILDINGS)

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 169.1: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclasses 170.01-170.11 for liquid purification or separation means installed in a geographic feature.

CLASS 62 - REFRIGERATION

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 470: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclasses 167.02-167.09 for liquid purification or separation means in a structural installation with a closed circulating system for a lubrication system.

CLASS 99 - FOODS AND BEVERAGES: APPARATUS

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 408: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclass 167.28 for liquid purification or separation means in a structural installation with a closed circulating system for a cooking oil system.

CLASS 119 – ANIMAL HUSBANDRY

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 211: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclasses 167.21-167.27 for liquid purification or separation means in a structural installation with a closed circulating system for an aquarium.

Subclass 226: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclasses 167.21-167.27 for liquid purification or separation means in a structural installation with a closed circulating system for an aquarium, subclass 170.02 for liquid purification or separation means for a fishpond, and subclass 416.2 for a filter with a cooperating pump adapted for use in an aquarium.

Subclass 259: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

<u>Insert:</u>

210, Liquid Purification or Separation, subclasses 167.21-167.27 for liquid purification or separation means in a structural installation with a closed circulating system for an aquarium.

CLASS 123 – INTERNAL-COMBUSTION ENGINES

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 196: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclasses 153+ for liquid purification or separation means in a structural installation, especially subclasses 167.02-167.09 for a closed circulating system for a lubrication system and subclass 171 for machinery wherein an internal-combustion engine may be broadly recited as the source of the material to be treated.

CLASS 137 - FLUID HANDLING

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 234.6: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclasses 170.01-170.11 for liquid purification or separation means installed in a geographic feature.

CLASS 174 – ELECTRICITY: CONDUCTORS AND INSULATORS

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 14: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclasses 167.01-167.32 for liquid purification or separation means in a structural installation with a closed circulating system and subclass 243 for liquid purification or separation means with electrical insulation or electricity discharge.

CLASS 184 - LUBRICATION

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 6: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, appropriate subclasses for processes and apparatus for separating a component from a liquid, particularly subclasses 167.02-167.09 for liquid purification or separation means in a structural installation with a closed circulating system for a lubrication system.

Subclass 6.24: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, appropriate subclasses for processes and apparatus for separating a component from a liquid, particularly subclasses 167.02-167.09 for liquid purification or separation means in a structural installation with a closed circulating system for a lubrication system.

CLASS 209 – CLASSIFYING, SEPARATING, AND ASSORTING SOLIDS

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 501: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclasses 167.01-167.32 for liquid purification or separation means in a structural installation with a closed circulating system and subclasses 194+ for liquid purification or separation means having recirculation means.

CLASS 210 - LIQUID PURIFICATION OR SEPARATION

Definitions Abolished:

Subclasses

167-170, 172

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 171: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

The reference to subclass 168

Insert:

167.02-167.09, for a closed circulating system for a lubrication system.

Subclass 175: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Insert:

167.06, for liquid purification or separation apparatus comprising a closed circulating system for a lubrication system with heating or cooling means.

167.32, for liquid purification or separation apparatus comprising a closed circulating system with heating or cooling means.

Subclass 194: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

The reference to subclass 167+

Insert:

167.01-167.32, for a structural installation with a closed circulating system.

Subclass 198.1: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Insert:

- 167.11, for liquid purification or separation apparatus comprising a closed circulating system for a swimming pool or spa with means to add a treating material.
- 167.3, for liquid purification or separation apparatus comprising a closed circulating system with means to add a treating material.

Subclass 222: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Insert:

- 167.03, for liquid purification or separation apparatus comprising a closed circulating system for a lubrication system having magnetic treating means.
- 167.29, for liquid purification or separation apparatus comprising a closed circulating system having magnetic treating means.

Subclass 252: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

The reference to subclass 172

Insert:

172.1-172.6, for a structural installation in which the separator is ancillary to a storage tank.

Subclass 291: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

The reference to subclass 172

Insert:

172.1-172.6, for a structural installation in which the separator is ancillary to a storage tank.

Subclass 383: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

The reference to subclass 167+ **Insert:** 167.01-167.32, for a structural installation with a closed circulating system. Subclass 416.1: Under SEE OR SEARCH THIS CLASS, SUBCLASS: Delete: The reference to subclass 167 **Insert:** 167.01-167.32, for a structural installation with a closed circulating system. Subclass 416.2: Under SEE OR SEARCH THIS CLASS, SUBCLASS: Delete: The reference to subclass 169 **Insert:** 167.1-167.2, for a closed circulating system for a swimming pool or spa. 167.21-167.27, for a closed circulating system for an aquarium. Subclass 416.5: Under SEE OR SEARCH THIS CLASS, SUBCLASS: Delete: The reference to subclass 168 Insert: 167.02-167.09, for a closed circulating system for a lubrication system. Subclass 459: Under SEE OR SEARCH THIS CLASS, SUBCLASS: Delete:

The reference to subclass 172

Insert:

172.1-172.6, for a structural installation in which the separator is ancillary to a storage tank.

Subclass 532.2: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

The reference to subclass 170

Insert:

170.08, for a septic tank installed in a geographic feature.

Subclass 601: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Insert:

167.22, for a closed circulating system for an aquarium using a living organism.

Subclass 805: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

The reference to subclass 167

Insert:

167.01-167.32, for a structural installation with a closed circulating system.

Definitions Established: (Place established subclasses in numerical sequence:)

167.01 Closed circulating system:

This subclass is indented under subclass 153. Apparatus comprising a group of devices, including liquid purification or separation means, through which the liquid being purified or separated is continuously returned and reused.

SEE OR SEARCH THIS CLASS, SUBCLASS:

194+, for liquid purification or separation apparatus including recirculation means.

SEE OR SEARCH CLASS:

- 68, Textiles: Fluid Treating Apparatus, subclass 18 for textile fluid treating apparatus including recirculation means and liquid purification or separation means for the used solvent.
- 118, Coating Apparatus, subclasses 600+ for coating apparatus with means for treatment of the coating material involving recirculation and liquid purification or separation.

- 123, Internal-Combustion Engines, subclass 41.55 for internal-combustion engine cooling system combined with liquid purification or separation means and subclass 196 for internal-combustion engine lubricator means combined with liquid purification or separation means.
- 134, Cleaning and Liquid Contact With Solids, subclasses 10+ and 109+ for cleaning and liquid contact with solids processes and apparatus including means for purifying or separating the cleaning or contact liquid.

167.02 For lubrication system:

This subclass is indented under subclass 167.01. Apparatus in which the liquid purification or separation means is adapted for use in a closed circulating system that provides lubricant to moving parts of a machine.

SEE OR SEARCH THIS CLASS, SUBCLASS:

416.5, for a filter, with a pump, gas pressure, or suction source, adapted for use in a lubricating or oil treating system.

SEE OR SEARCH CLASS:

- 123, Internal-Combustion Engines, subclass 196 for internal-combustion engine lubricator means combined with liquid purification or separation means.
- 184, Lubrication, subclass 1.5 for automobile crank and gear case service apparatus including liquid purification of separation means and subclasses 6.24+ for lubrication systems combined with liquid purification or separation means.

167.03 Having magnetic treating means:

This subclass is indented under subclass 167.02. Apparatus having means that attract iron and certain other materials because of a surrounding field of force produced by motion of its atomic electrons and alignment of its atoms.

(1) Note. The magnetic treating means generally is used to cause separation of ironcontaining material from the lubricant. However, the magnetic treating means may subject the lubricant to a process that otherwise improves or alters the lubricant (e.g., mixing, etc.).

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 167.29, for liquid purification or separation apparatus comprising a closed circulating system having magnetic treating means not for a lubrication system.
- 222+, for liquid purification or separation apparatus including magnetic treating means not in a closed circulating system.

167.04 Plural separators:

This subclass is indented under subclass 167.02. Apparatus that has two or more means for liquid purification or separation.

167.05 Having bypass line:

This subclass is indented under subclass 167.04. Apparatus that has means to conduct the lubricant around a device in the closed circulating system.

167.06 With heating or cooling means:

This subclass is indented under subclass 167.02. Apparatus that has means to raise or lower the temperature of the lubricant.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 167.32, for liquid purification or separation apparatus comprising a closed circulating system with heating or cooling means not for a lubrication system.
- 175+, for liquid purification or separation apparatus with a heater or a heat exchanger not in a closed circulating system.

167.07 Evaporator:

This subclass is indented under subclass 167.06. Apparatus in which the means to raise the temperature of the lubricant vaporizes a component to be separated.

167.08 Separator for transmission system:

This subclass is indented under subclass 167.02. Apparatus in which the liquid purification or separation means is adapted for use in a closed circulating system that comprises an assembly of parts by which power is transmitted from an engine to a drive axle.

SEE OR SEARCH CLASS:

180, Motor Vehicles, subclasses 337+ for motor vehicle transmission mechanisms.

167.09 With separator cleaning means:

This subclass is indented under subclass 167.02. Apparatus in which means are provided to remove the separated component from the liquid purification or separation means.

167.1 For swimming pool or spa (e.g., skimmer, etc.):

This subclass is indented under subclass 167.01. Apparatus in which the liquid purification or separation means is adapted for use with a tank, made of concrete, plastic, or other materials, for holding water that is open at the top for a user to enter, for swimming, relaxation, or recreation (e.g., swimming pool, spa, hot tub, etc.).

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 416.2, for a filter, with a pump, gas pressure, or suction source, adapted for use with a swimming pool.
- 470, for a filter with a handle.

SEE OR SEARCH CLASS:

4, Baths, Closets, Sinks, and Spittoons, subclasses 488+ for pools for swimming, relaxation, or recreation.

167.11 With means to add treating material:

This subclass is indented under subclass 167.1. Apparatus in which the liquid purification or separation means is combined with means to supply a substance to the water being purified or separated that subjects the water to a chemical or physical process that improves or alters the water.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 167.3, for liquid purification or separation apparatus comprising a closed circulating system with means to add a treating material not for a swimming pool or spa.
- 198.1+, for liquid purification or separation apparatus with means to add a treating material not in a closed circulating system.

SEE OR SEARCH CLASS:

422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 255+ for physical type apparatus having means separating or dissolving a material constituent, particularly subclasses 261+ for liquid-solid contact means and particularly subclass 265 for buoyant holders.

167.12 Separator external to swimming pool or spa:

This subclass is indented under subclass 167.1. Apparatus in which the liquid purification or separation means is located outside of the swimming pool or spa.

(1) Note. The liquid purification or separation means may be attached to the exterior of the swimming pool or spa or may be connected to the swimming pool or spa by a system of pipes.

167.13 Particulate solid filter:

This subclass is indented under subclass 167.12. Apparatus in which the liquid purification or separation means comprises a plurality of small, distinct, separate, nonfilamentous solids in which a component of the water is entrapped and retained while permitting the water to pass through (e.g., sand filter, etc).

167.14 With separator cleaning means (e.g., backwash means, etc.):

This subclass is indented under subclass 167.12. Apparatus in which means are provided to remove the separated component from the liquid purification or separation means.

167.15 Separator for use on swimming pool or spa bottom and separator for use at water surface:

This subclass is indented under subclass 167.1. Apparatus that has two or more means for liquid purification or separation in which one means is located on a surface that is lowest in the swimming pool or spa during operation and another means is located at a surface of the water that is highest in the swimming pool or spa during operation.

167.16 Separator for use on swimming pool or spa bottom:

This subclass is indented under subclass 167.1. Apparatus that has means for liquid purification or separation located on a surface that is lowest in the swimming pool or spa during operation.

167.17 Debris collecting bag:

This subclass is indented under subclass 167.16. Apparatus in which the liquid purification or separation means comprises a usually flexible container that may be closed that is used to gather the component that is separated from the water.

167.18 Skimmer arm at skimmer opening at water surface:

This subclass is indented under subclass 167.1. Apparatus in which the liquid purification or separation means comprises a deflecting device that is positioned at a surface of the water that is highest at an opening of a weir in a wall of the swimming pool or spa and that diverts a portion of the water and debris into the opening.

167.19 Mesh or screen filter at or near water surface:

This subclass is indented under subclass 167.1. Apparatus in which the liquid purification or separation means comprises a material with an open network of interlacing threads or wires in which a component of the water is entrapped and retained while permitting the water to pass through and is located at or near a surface of the water that is highest in the swimming pool or spa.

167.2 Having floating means:

This subclass is indented under subclass 167.19. Apparatus having means to support buoyantly the mesh or screen filter at or near the water surface in the swimming pool or spa.

167.21 For aquarium:

This subclass is indented under subclass 167.01. Apparatus in which the liquid purification or separation means is adapted for use with a water-filled container in which aquatic animals are kept, with the container having one or more transparent portions so that the aquatic animals therein can be observed from the exterior.

SEE OR SEARCH THIS CLASS, SUBCLASS:

416.2, for a filter, with a pump, gas pressure, or suction source, adapted for use in an aquarium.

SEE OR SEARCH CLASS:

119, Animal Husbandry, subclasses 259+ for specific aquarium structure in combination with liquid purification or separation means.

167.22 Separator using living organism:

This subclass is indented under subclass 167.21. Apparatus in which the liquid purification or separation means includes an agent that has the ability to reproduce itself.

(1) Note. For purposes of this subclass, living organism includes animals, plants, and microorganisms (e.g., bacteria, fungus, algae, etc.), but not enzymes. The organism may reproduce sexually, as exually, or by mechanical division (caused by external agents) and regeneration (e.g., layering or cloning, etc.).

167.23 Separator or part thereof associated with bottom of aquarium (e.g., means positioned under gravel, etc.):

This subclass is indented under subclass 167.21. Apparatus in which the liquid purification or separation means or a portion thereof (e.g., an inlet or an outlet, etc.) is located at or near a surface that is lowest in the aquarium (e.g., means positioned under gravel, etc.).

167.24 Having solid sorbent:

This subclass is indented under subclass 167.23. Apparatus having a solid sorbent that is used to retain on its internal or external surfaces a component of the water passing in contact therewith.

(1) Note. A solid sorbent is a solid material that separates one or more components from a fluid mixture containing such components in a "quasi-chemical" manner. The action in most instances is that of selective retention (i.e., the sorbent removes only that part of the fluid mixture for which it has the greatest affinity). The retained component cannot be removed by shaking, brushing, or similar

mechanical action, but can generally be removed by heating, pressure reduction, or use of a stripping or denuding fluid.

A filter has no particular "chemical" affinity for a component of a fluid mixture. The separation in the case of a filter depends on a mechanical entrapment of solid particles because of their relatively large size compared with the interstices or spaces between individual elements of the filter. The retained particles can be removed by brushing, wiping, shaking, or similar mechanical action.

167.25 Particulate filter or particulate sorbent:

This subclass is indented under subclass 167.21. Apparatus in which the liquid purification or separation means comprises a plurality of small, distinct, separate, nonfilamentous solids in which a component of the water is entrapped and retained while permitting the water to pass through or apparatus having a solid sorbent that is used to retain on its internal or external surfaces a component of the water passing in contact therewith.

(1) Note. A solid sorbent is a solid material that separates one or more components from a fluid mixture containing such components in a "quasi-chemical" manner. The action in most instances is that of selective retention (i.e., the sorbent removes only that part of the fluid mixture for which it has the greatest affinity). The retained component cannot be removed by shaking, brushing, or similar mechanical action, but can generally be removed by heating, pressure reduction, or use of a stripping or denuding fluid.

A filter has no particular "chemical" affinity for a component of a fluid mixture. The separation in the case of a filter depends on a mechanical entrapment of solid particles because of their relatively large size compared with the interstices or spaces between individual elements of the filter. The retained particles can be removed by brushing, wiping, shaking, or similar mechanical action.

167.26 Separator with aerator:

This subclass is indented under subclass 167.21. Apparatus in which the liquid purification or separation means is combined with means to supply the water with a gas (e.g., oxygen, air, etc.).

167.27 Separator mounted on top edge of aquarium wall:

This subclass is indented under subclass 167.21. Apparatus in which the liquid purification or separation means is located on an upper rim of the aquarium.

167.28 For cooking oil system:

This subclass is indented under subclass 167.01. Apparatus in which the liquid purification or separation means is adapted for use with a cooking apparatus in which food articles or materials are supported or manipulated for heat treating by contact with a body of heated oil (e.g., deep fat fryer, etc.).

SEE OR SEARCH CLASS:

99, Foods and Beverages: Apparatus, subclass 408 for a deep fat fryer type cooker with crumb or sediment segregation means.

167.29 Having magnetic treating means:

This subclass is indented under subclass 167.01. Apparatus having means that attract iron and certain other materials because of a surrounding field of force produced by the motion of its atomic electrons and the alignment of its atoms.

(1) Note. The magnetic treating means generally is used to cause separation of ironcontaining material from the liquid. However, the magnetic treating means may subject the liquid to a process that otherwise improves or alters the liquid (e.g., mixing, etc.).

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 167.03, for liquid purification or separation apparatus comprising a closed circulating system having magnetic treating means for a lubrication system.
- 222+, for liquid purification or separation apparatus including magnetic treating means not in a closed circulating system.

167.3 With means to add treating material:

This subclass is indented under subclass 167.01. Apparatus in which the liquid purification or separation means is combined with means to supply a substance to the liquid being purified or separated that subjects the liquid to a chemical or physical process that improves or alters the liquid.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 167.11, for liquid purification or separation apparatus comprising a closed circulating system with means to add a treating material for a swimming pool or spa.
- 198.1+, for liquid purification or separation apparatus with means to add a treating material not in a closed circulating system.

167.31 Plural separators:

This subclass is indented under subclass 167.01. Apparatus that has two or more means for liquid purification or separation.

167.32 With heating or cooling means:

This subclass is indented under subclass 167.01. Apparatus that has means to raise or lower the temperature of the liquid.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 167.06, for liquid purification or separation apparatus comprising a closed circulating system with heating or cooling means for a lubrication system.
- 175+, for liquid purification or separation apparatus with a heater or a heat exchanger not in a closed circulating system.

170.01 Geographic:

This subclass is indented under subclass 153. Apparatus in which liquid purification or separation means are part of a system installed in the ground or related to a particular feature of the earth's surface (e.g., a body of water, etc.).

(1) Note. Included in this subclass is in situ purging of flowing or still liquid (e.g., drainage ditch, septic system, pond, etc.) in a structural installation in which the liquid purification or separation means is (a) part of a system installed on natural

or modified terrain to convey rain, snowmelt, a river, sewage, well water or oil, etc. or (b) related to a particular nonland geographic feature, such as a lake, ocean, sea, etc.

SEE OR SEARCH THIS CLASS, SUBCLASS:

154+, for a flume stream type separator.

SEE OR SEARCH CLASS:

- 137, Fluid Handling, subclass 236.1 for a distribution system involving a geographic feature.
- 405, Hydraulic and Earth Engineering, subclasses 36+ for drainage devices for collecting and removing surplus water from soil and subclasses 52+ for fluid control, treatment, or containment.

170.02 For fishpond:

This subclass is indented under subclass 170.01. Apparatus in which the liquid purification or separation means is adapted for use with a small, still body of clear water stocked with fish.

SEE OR SEARCH CLASS:

119, Animal Husbandry, subclasses 226+ for a fish enclosure of the recirculating type with treatment means and subclasses 228+ for a fish enclosure of the nonrecirculating type with treatment means.

170.03 For stormwater treatment (e.g., rainwater runoff, stormsewer treatment, etc.):

This subclass is indented under subclass 170.01. Apparatus in which the liquid purification or separation means is adapted for use to subject fallen precipitation to a chemical or physical process that improves or alters the fallen precipitation (e.g., rainwater runoff, stormsewer treatment, etc.).

SEE OR SEARCH THIS CLASS, SUBCLASS:

163+, for a grated inlet surface drain.

170.04 For excavating means:

This subclass is indented under subclass 170.01. Apparatus in which the liquid purification or separation means is adapted for use with an apparatus that digs, moves, and handles material either on the earth's surface or beneath a body of water.

SEE OR SEARCH CLASS:

37, Excavating, for excavating apparatus.

170.05 Floating means:

This subclass is indented under subclass 170.01. Apparatus in which the liquid purification or separation means is buoyed on or in the liquid.

170.06 Separator with aerator:

This subclass is indented under subclass 170.01. Apparatus in which the liquid purification or separation means is combined with means to supply the liquid with a gas (e.g., oxygen, air, etc.).

170.07 Groundwater:

This subclass is indented under subclass 170.01. Apparatus in which the liquid purification or separation means purifies or separates water within the earth's surface.

SEE OR SEARCH CLASS:

- 166, Wells, for well apparatus.
- 405, Hydraulic and Earth Engineering, subclasses 128.1+ for soil remediation.

170.08 Septic tank or waste liquid treatment system:

This subclass is indented under subclass 170.01. Apparatus in which the liquid purification or separation means comprises a tank in which a continuous flow of waste material is decomposed by bacteria or comprises a group of devices, including liquid purification or separation means, that purify or separate the waste liquid.

SEE OR SEARCH THIS CLASS, SUBCLASS:

532.2, for a septic tank not associated with a geographic feature.

170.09 Body of freshwater (e.g., pond, lake, reservoir, etc.):

This subclass is indented under subclass 170.01. Apparatus in which the particular feature of the earth's surface that the liquid purification or separation means is related to is a bounded aggregate of still water that is not salty (e.g., pond, lake, reservoir, etc.).

170.1 Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.):

This subclass is indented under subclass 170.01. Apparatus in which the particular feature of the earth's surface that the liquid purification or separation means is related to is a bounded aggregate of nonsalty, running water flowing on the earth's surface (e.g., stream, river, ditch, canal, etc.).

SEE OR SEARCH THIS CLASS, SUBCLASS:

154+, for a flume stream type separator.

170.11 Body of saltwater (e.g., sea, ocean, etc.):

This subclass is indented under subclass 170.01. Apparatus in which the particular feature of the earth's surface that the liquid purification or separation means is related to is an aggregate of salt water covering most of the earth's surface (e.g., sea, ocean, etc.).

172.1 Separator ancillary to storage tank:

This subclass is indented under subclass 153. Apparatus in which the liquid purification or separation means is auxiliary to a supply container.

172.2 Submerged separator:

This subclass is indented under subclass 172.1. Apparatus in which the liquid purification or separation means is covered with liquid.

172.3 On pump suction intake:

This subclass is indented under subclass 172.2. Apparatus in which the liquid purification or separation means is located on an inlet to a pump.

172.4 Filter supported by frame (e.g., bag shaped filter in fuel tank for engine, etc.):

This subclass is indented under subclass 172.3. Apparatus in which the liquid purification or separation means comprises a medium, in which a component of the liquid is entrapped and retained while permitting the liquid to pass through, that is held up by a skeletal structure (e.g., bag shaped filter in fuel tank for engine, etc.).

172.5 Having tethering means:

This subclass is indented under subclass 172.2. Apparatus in which the liquid purification or separation means is fastened to a part of the supply container by something (e.g., a rope or chain, etc.) with a set radius that allows the liquid purification or separation means to move about.

172.6 In tank inlet:

This subclass is indented under subclass 172.1. Apparatus in which the liquid purification or separation means is located at the opening to the supply container.

931 ZEBRA MUSSEL MITIGATION OR TREATMENT

Collection of disclosures directed to apparatus used to remove or kill a freshwater Eurasian lamellibranch mollusk (*Dreissena polymorpha*) or directed to apparatus using a freshwater Eurasian lamellibranch mollusk (*Dreissena polymorpha*) to improve or alter water.

FOREIGN ART COLLECTIONS

The definitions below correspond to abolished subclasses from which these collections were formed. See the Foreign Art Collection Schedule of this Class for specific correspondences. [Note: the titles and definitions for indented art collections include all the details of the one(s) that are hierarchically superior].

FOR 100 Closed circulating systems:

Foreign art collection having apparatus with means to recirculate a liquid therebetween.

FOR 101 Lubrication:

Foreign art collection having systems designed to lubricate moving parts of a machine.

FOR 102 Aquarium or swimming pool:

Foreign art collections having systems designed to accommodate living animals.

FOR 103 Geographic (e.g., drainage ditch, septic, pond):

Foreign art collection having apparatus in which a separator is part of a system installed in the ground or related to a particular geographic feature, as a lake.

FOR 104 Ancillary to storage tank:

Foreign art collection having apparatus including a supply tank for an apparatus or a system having a function external to the subject matter of this class and purification is incidental to the storage of the liquid for use in that system or apparatus.

CLASS 405 – HYDRAULIC AND EARTH ENGINEERING

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 36: Under SEE OR SEARCH CLASS:

Insert:

210, Liquid Purification or Separation, subclasses 170.01-170.11 for liquid purification or separation means installed in a geographic feature and subclass 747 for liquid purification or separation processes including a geographic feature.

Subclass 52: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclasses 170.01-170.11 for liquid purification or separation means installed in a geographic feature and subclass 747 for liquid purification or separation processes including a geographic feature.

Subclass 74: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 210

Insert:

210, Liquid Purification or Separation, subclasses 170.01-170.11 for liquid purification or separation means installed in a geographic feature and subclass 747 for liquid purification or separation processes including a geographic feature.

CLASS 422 – CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING

<u>Definitions Modified:</u> (Place modifications in numerical sequence, where applicable):

Subclass 255: Under SEE OR SEARCH CLASS: In the reference to Class 210, before the period,

Insert:

and subclass 167.11 for liquid purification or separation apparatus comprising a closed circulating system for a swimming pool or spa with means to add a treating material.

Subclass 261: Under SEE OR SEARCH CLASS:

Insert:

210, Liquid Purification or Separation, subclass 167.11 for liquid purification or separation apparatus comprising a closed circulating system for a swimming pool or spa with means to add a treating material.

Subclass 265:

Insert:

SEE OR SEARCH CLASS:

210, Liquid Purification or Separation, subclass 167.11 for liquid purification or separation apparatus comprising a closed circulating system for a swimming pool or spa with means to add a treating material.