U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1908

APRIL 5, 2011

PROJECT C-A210

The following classification changes will be effected by this order:

	Class	Subclass	Art Unit	Ex'r Search <u>Room</u>
Abolished:	210	747	1776	RND0000B15
Established:	210	747.1-747.9	1776	RND0000B15
Title Change:	210	170.08	1776	RND0000B15

The following classes are also impacted by this order.

405

This order includes the following:

- A. CLASSIFICATION MANUAL CHANGES
- B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES
- C. CHANGES TO THE USPC-TO-IPC CONCORDANCE
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

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600	PROCESSES	629	And internally circulating the
601	.Treatment by living organism		liquid
602	Including plant or animal of	630	And anaerobic treatment
002	higher order	631	And additional treating agent
603	Including collecting or storing		other than mere mechanical
	gas (e.g., fuel, carbon		manipulation (e.g., chemical,
	monoxide, etc.)		sorption, etc.)
604	And reusing oxidant	632	.Treating by enzyme
605	Anaerobically, with	633	.Extracting utilizing solid
	subsequently aerobically		solute
	treating liquid	634	.Liquid/liquid solvent or
606	Adding enzyme or releasing same		colloidal extraction or
	by treating microorganism		diffusing or passing through
607	Dividing, treating, and		septum selective as to material of a component of
	recombining liquid		liquid; such diffusing or
608	Regulating floating constituent		passing being effected by
609	Including dewatering sludge		other than only an ion
610	Including adding ancillary		exchange or sorption process
	growth medium for	635	Liquid/liquid or gel type
<i>c</i> 1 1	microorganism		(i.e., jellylike)
611	For or with specific		chromatography
C10	microorganism	636	Including cleaning or
612	And regulating temperature		sterilizing of apparatus
613	during biological stepDigesting sludge	637	Including regulating pressure
614	Controlling process in response		to control constituent
014	to stream constituent or		gradient at membrane or to
	reactant concentration		prevent rupture of membrane
615	Utilizing contact surfaces	638	Including ion exchange or other
	supporting microorganism	620	chemical reaction
	(e.g., trickling filter, etc.)	639	Including prior use of additive
616	Particulate media	640	(e.g., changing pH, etc.)Passing through membrane in
617	In bed form	040	vapor phase
618	And rehabilitating or	641	Utilizing plural diverse
	regenerating same	041	membranes
619	Rotating contactor	642	Extracting water from brine
620	Aerobic treatment	012	utilizing liquid/liquid
621	Recirculating to prior step		solvent or colloidal
622	Of separated liquid		extraction
623	Of sludge or separated solid	643	Utilizing liquid membrane
624	And returning to or		(e.g., emulsion) in liquid/
	withdrawing from diverse		liquid solvent or colloidal
	treating zones		extraction
625	Treating outside mainstream	644	Diffusing or passing through
626	To mainstream oxygenation		septum selective as to
	(e.g., activated sludge, etc.)		material of a component in
627	Utilizing specific oxidant,		liquid/liquid solvent or
	other than air alone (e.g.,	C 1 F	colloidal extraction
	<pre>oxygen-enriched air, ozone, peroxide, etc.)</pre>	645	Biological fluid (e.g., blood,
628	Utilizing mechanical	616	urine, etc.)
020	aeration means	646 647	Hemodialysis
	actacton means	04/	Maintaining critical concentration(s)
			CONCENTED ACTOM (B)

648	Including regenerating or rehabilitating the extracting	675	Rehabilitating or regenerating in diverse zone or chamber
	liquid in liquid/liquid	676	Continuous cyclic process
	solvent or colloidal	677	Using conserved or
	extraction	677	recirculated fluid
649	Diffusing or passing through	678	Including liquid flow
	septum selective as to		direction change
	material of a component of	679	Utilizing exchange or sorbent
	liquid		material associated with inert
650	Filtering through membrane		material
	(e.g., ultrafiltration)	680	Including oil sorbent
651	Removing specified material	681	Removing ions
652	Hyperfiltration (e.g.,	682	Radioactive
CEO	reverse osmosis, etc.)	683	Anions
653	Utilizing specified membrane material	684	Metal complexed (e.g.,
654			chromate, ferricyanide,
655	Synthetic resin	605	chlorplatinate, etc.)
656	.Chromatography	685	Including cation
657	Utilizing rotating column	686	Utilizing mixed bed or
658	Utilizing paper or thin layer	607	amphoteric material
0.50	plate	687	Calcium or magnesium (e.g.,
659	Including liquid flow diversion		<pre>hardness, water softening, etc.)</pre>
660	.Including riquid from diversion .Ion exchange or selective	688	Heavy metal
	sorption	689	Sorbing water from diverse
661	By passing through suspended	000	liquid
001	bed	690	Sorbing organic constituent
662	And liquid testing or volume	691	From aqueous material
	measuring	692	Utilizing synthetic resin
663	Including diverse separating or	693	Oil removed
	treating of liquid	694	Utilizing activated carbon
664	By distilling or degassing	695	.Using magnetic force
665	By making an insoluble	696	.Preventing, decreasing, or
	substance or accreting		delaying precipitation,
	suspended constituents		coagulation or flocculation
666	Utilizing organic agent	697	Utilizing inorganic phosphorus
667	Utilizing aluminum, calcium,		agent
	or iron containing agent	698	Utilizing organic agent
668	By chemically modifying or	699	Phosphorus containing
	inhibiting dispersed	700	Nitrogen containing
	constituent	701	Acrylic polymer
669	Prior to ion exchange or	702	.Making an insoluble substance or
670	sorption		accreting suspended
670	Including rehabilitating or		constituents
	regenerating exchange material or sorbent	703	Effecting flotation
671	Of oil sorbent material	704	Including chemical addition
672	Fractional, selective, or		(with or without bouyancy gas)
0 / 4	partial type	705	Chemically specified
673	Utilizing gas, water, or		precipitant, coagulant, or
5,5	chemical oxidizing or reducing	706	flocculant
	agent	706	And significant
674	Utilizing organic regenerant		characteristic of the bouyancy gas, other than mere addition
	J - J		of same
			or bame

707	Generating gas in situ	746	Electrical property sensing
708	Including emulsion breaking	747.1	.Including geographic feature
709	Controlling process in response	747.2	Stormwater treatment
	to stream condition	747.3	Filtering
710	Treating the insoluble substance	747.4	Dredging sediments/water mixture from underwater beds
711	For recovery of a treating		treated
	agent	747.5	Body of freshwater, surface
712	Including recycling		flowing freshwater, or body of
713	Of separated solids		saltwater
714	Seeding	747.6	Utilizing floating treating
715	Utilizing sludge or floc	242 2	means
	blanket	747.7	Groundwater treatment
716	Including step of manufacturing	747.8	By chemical treatment
	inorganic treating agent	747.9	Utilizing artificial waste pond
717	In situ		or pit (e.g., waste lagoon,
718	Including degassing	740 01	wastewater pond, etc.)
719	Including chemical reduction	748.01	.Utilizing electrical or wave
720	Of chromium material		<pre>energy directly applied to liquid or material being</pre>
721	Including oxidation		treated
722	Of iron or manganese material	748.02	Sound waves
723	Utilizing precipitant,	748.02	Destroying living organisms
	flocculant, or coagulant, each	748.04	Destroying/degradation of
	with accelerator or with each	740.04	chemical contaminant
	other or plural precipitants,	748.05	Separating particles
724	flocculants, or coagulants	748.06	Laser
724	Regulating pHUtilizing organic precipitant	748.07	Microwaves
725 726	Sequential introduction	748.08	Infrared radiation
727	Including organic agent	748.09	Visible light
727	Including organic agent	748.1	Ultraviolet radiation
729	Utilizing organic precipitant	748.11	Destroying living organisms
730	From natural source or	748.12	Including generation of
750	chemical modification thereof		treatment chemical
731	Starch	748.13	Destroying/degradation of
732	Synthetic polymer		chemical contaminant
733	Acrylic	748.14	Photocatalytic
734	Nitrogen containing (e.g.,	748.15	Utilizing hydrogen peroxide,
751	amine, azo, etc.)		ozone, or oxygen
735	Nitrogen containing (e.g.,	748.16	Including chemical treatment
	amine, azo, etc.)	748.17	Generating treatment chemical
736	Derived from alkyl halide or		by electrical energy
	epihalophydrin reactant	748.18	Metal ion or metal
737	Including temperature change	748.19	Ozone
738	Including agitation	748.2	Chlorine or chlorine compound
739	.Including controlling process in	749	.Chemical treatment
	response to a sensed condition	750	Including degassing
740	Density or specific gravity	752	Plural spaced feedings
	sensing	753	Utilizing halogen or halogen
741	Pressure sensing		containing material
742	Temperature sensing	754	Chlorine or bromine containing
743	pH sensing	755	Organic
744	Level sensing	756	Hypochlorite
745	Turbidity or optically sensing	757	By chemical reduction
		758	By oxidation

	1-1 1		
759	Utilizing peroxy compound	795	Expanded bed
	(e.g., hydrogen peroxide,	796	Includng mechanical agitation
	peracid, etc.)	797	By diverse fluid
760	Utilizing ozone	798	Reverse flow
761	Liquid phase high temperature	799	Filtering immiscible liquids
	and pressure (e.g., "wet air",	800	Utilizing gravitational force
	etc.)	801	Including change of mainstream
762	Catalytic		flow direction
763	Catalytic	802	Utilizing parallel separation
764	Destroying microorganisms		passages
765	Including liquid recirculation	803	Including specified feature of
766	Including temperature change		settled solids removal
767	.Separating	804	And additional diverse
768	Including treating separated		separation
	solids	805	And recirculating liquid
769	Destroying cake or solid	806	Plural separating
	component	807	Utilizing particulate bed
770	Including drying (e.g., by	808	Including specified pressure
	squeezing or heating, etc.)		change
771	By gas contact	85	WITH ALARM, INDICATOR, REGISTER,
772	Washing with a fluid other		RECORDER, SIGNAL OR INSPECTION
	than the prefilt		MEANS
773	Including preliminary	86	.Material level or thickness
	conversion to liquid state		responsive
774	Including temperature change	87	Responsive to fluid flow
775	Thermal diffusion	88	Meter-controlled cyclic systems
776	Skimming	89	With time control
777	Including precoating filter	90	.Fluid pressure responsive
	medium with filter aid	91	.Position or extent of motion
778	With or by addition to prefilt	92	.Test valve
779	Discharging residue to prefilt	93	.In effluent conduit
780	Including movement of filter	94	.Transparent
, 0 0	during filtration	95	Sight glass
781	Centrifugally extracting	96.1	CONSTITUENT MIXTURE VARIATION
782	Blood	90.1	RESPONSIVE
783	Rotating belt	96.2	.With membrane
784	Rotating drum	90.2	FLOW, FLUID PRESSURE OR MATERIAL
785	Cleaning filter utilizing wave	91	-
703	energy (e.g., vibrating,	98	LEVEL, RESPONSIVE
	pulsating, etc.)	98	.Fluid current controlled cyclic
786	Of particulate bed (e.g.,	0.0	system
700	fluidized or moving bed, etc.)	99	.Prefilt deverting to drain by
787	Cyclonic, or centrifugal (e.g.,	100	prefilt accumulation
707	whirling or helical motion or	100	.Flow cut-off requiring reset
	by vortex, etc.)	101	.Proportionate feed means
788	Introducing liquid	102	.Programming plural units
700	tangentially	103	.Diverse sensing means
700	Isolating layer	104	Responsive to material level
789		105	With control for auxiliary
790 701	Dividing and recombining		liquid inlet
791	Rehabilitating or regenerating	106	.Filter cleaning
700	filter medium	107	Rotary movement of filter or
792	Particulate bed		mechanical cleaner
793	Reverse flow	108	Backwash or blowback
794	Including addition of	109	.Discharge of treated material
	diverse fluid		

110	With separator inlet control	146	Controlled cover latch
111	Responsive to prefilt	147	Controlled discharge means
	accumulation or filter	148	.Container movement operated
110	clogging	149	.Thermal
112	Heavier constituent	150	WITH GAS-LIQUID SURFACE CONTACT
113	By weight of solids		MEANS
114	By treated liquid accumulation	151	.With separator
115	With lighter constituent	153	STRUCTURAL INSTALLATION
116	outlet control	154	.Flume stream type
116	Permitted by filtrate accumulation	155	Plural or diverse screens
117	Check valve controlled	156	Fluid stream or residue
118		1 - 7	operated
119	Non-closing, e.g., sand valve	157	Revolving cylindrical strainer
120	Float type .Vent control	158	With cleaner for movable
121	.Float	150	strainer
121	Controls movable separator	159	With cleaner and means to remove residue therefrom
123	Controls walve	160	Endless belt strainer
123	Controls valve	161	Revolving strainer
124	separators	162	Fixed strainer
125	Separator between float and	163	
123	valve	163	Flat grating at surface level
126	Float in separate	165	With subsurface weep means
120	rehabilitating fluid tank	166	Concentric quard ring or rib
127	Additional fluid inlet control	167.01	concentric guard ring of rib
128	Float in receptacle other than	167.01	For lubrication system
120	that of separator	167.02	Having magnetic treating means
129	In flow between inlet and	167.03	Plural separators
	separator	167.04	Having bypass line
130	.Fluid pressure responsive by-	167.05	With heating or cooling means
	pass	167.00	Evaporator
131	By movement of separation	167.07	Separator for transmission
	medium	107.00	system
132	With additional separation or	167.09	With separator cleaning means
	treating means	167.1	For swimming pool or spa (e.g.,
133	In inlet and outlet closure	10,11	skimmer, etc.)
	header	167.11	With means to add treating
134	.Plural elements controlled		material
135	Including manually controlled	167.12	Separator external to swimming
	element		pool or spa
136	.Check valve	167.13	Particulate solid filter
137	.Maintaining stream pressure or	167.14	With separator cleaning means
	flow		(e.g., backwash means, etc.)
138	WITH TIME CONTROL	167.15	Separator for use on swimming
139	.Of additional fluid		pool or spa bottom and
140	Preparation for treating		separator for use at water
	operation		surface
141	WITH PROGRAM ACTUATOR	167.16	Separator for use on swimming
142	.Plural treating units or		pool or spa bottom
	sections sequentially	167.17	Debris collecting bag
1.40	controlled	167.18	Skimmer arm at skimmer opening
143	AUTOMATIC CONTROL		at water surface
144	Responsive to vibration or	167.19	Mesh or screen filter at or
1/5	unbalance		near water surface
145	.Responsive to rotation		

167.2	Having floating means	178	With mechanical agitator or
167.21	For aquarium		movable separator
167.22	Separator using living organism	179	.With mechanical agitator or movable separator
167.23	Separator or part thereof	180	.Vapor or gas removal
	associated with bottom of	181	.Flow line connected in series
	aquarium (e.g., means		with distinct separator
	positioned under gravel, etc.)	182	.Diverse separators
167.24	Having solid sorbent	183	Common casing coaxial with
167.25	Particulate filter or		heater
	particulate sorbent	184	.For filter
167.26	Separator with aerator	185	Imbedded or between filter
167.27	Separator mounted on top edge		media
	of aquarium wall	186	External of casing
167.28	For cooking oil system	187	.Within gravitational separator
167.29	Having magnetic treating means	188	WITH GAS SEPARATOR
167.3	With means to add treating	189	PLURAL CHAMBERS WITH MOVEMENT OF
	material		GRANULES THEREBETWEEN
167.31	Plural separators	190	WITH EXTERNAL SUPPLY MEANS FOR
167.32	With heating or cooling means		REGENERATING MEDIUM, E.G.,
170.01	.Geographic		WATER SOFTENING SYSTEM
170.02	For fishpond	191	.With pump, injector or siphon
170.03	For stormwater treatment (e.g.,	192	WITH PRELIMINARY CHEMICAL
	rainwater runoff, stormsewer		MANUFACTURE
	treatment, etc.)	193	WITH PRECOAT ADDING OR APPLYING
170.04	For excavating means		MEANS
170.05	Floating means	194	RECIRCULATION
170.06	Separator with aerator	195.1	.Serially connected distinct
	<u> -</u>		.berrarry connected dibernet
170.07	Groundwater		treating or storage units
		195.2	
170.07	Groundwater		treating or storage units
170.07	Groundwater Septic system including drain		treating or storage unitsWith semipermeable membrane,
170.07	GroundwaterSeptic system including drain field or leach field or waste	195.2	<pre>treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etc.</pre>
170.07 170.08	GroundwaterSeptic system including drain field or leach field or waste liquid treatment system	195.2	<pre>treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means</pre>
170.07 170.08	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond,	195.2 195.3	<pre>treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main stream</pre>
170.07 170.08	 Groundwater Septic system including drain field or leach field or waste liquid treatment system Body of freshwater (e.g., pond, lake, reservoir, etc.) Surface flowing freshwater (e.g., stream, river, ditch, 	195.2 195.3 195.4	<pre>treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot</pre>
170.07 170.08	 Groundwater Septic system including drain field or leach field or waste liquid treatment system Body of freshwater (e.g., pond, lake, reservoir, etc.) Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.) 	195.2 195.3 195.4 196	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate
170.07 170.08	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea,	195.2 195.3 195.4 196 197	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator
170.07 170.08 170.09 170.1	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.)	195.2 195.3 195.4 196 197	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING
170.07 170.08 170.09 170.1 170.11	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.) .Machinery	195.2 195.3 195.4 196 197 198.1	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL
170.07 170.08 170.09 170.1	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.)	195.2 195.3 195.4 196 197 198.1	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .Chromatography
170.07 170.08 170.09 170.1 170.11 171 172.1	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.) .Machinery .Separator ancillary to storage tank	195.2 195.3 195.4 196 197 198.1 198.2 198.3	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etc.
170.07 170.08 170.09 170.1 170.11 171 172.1 172.2	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.) .Machinery .Separator ancillary to storage tankSubmerged separator	195.2 195.3 195.4 196 197 198.1 198.2 198.3	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etcSpaced along flow path
170.07 170.08 170.09 170.1 170.11 171 172.1 172.2 172.3	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.)MachinerySeparator ancillary to storage tankSubmerged separatorOn pump suction intake	195.2 195.3 195.4 196 197 198.1 198.2 198.3 199 200	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etcSpaced along flow path .Plural distinct separators
170.07 170.08 170.09 170.1 170.11 171 172.1 172.2	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.) .Machinery .Separator ancillary to storage tankSubmerged separatorOn pump suction intakeFilter supported by frame	195.2 195.3 195.4 196 197 198.1 198.2 198.3 199 200 201	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etcSpaced along flow path .Plural distinct separatorsSerially connected
170.07 170.08 170.09 170.1 170.11 171 172.1 172.2 172.3	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.) .Machinery .Separator ancillary to storage tankSubmerged separatorOn pump suction intakeFilter supported by frame (e.g., bag shaped filter in	195.2 195.3 195.4 196 197 198.1 198.2 198.3 199 200 201 202	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etcSpaced along flow path .Plural distinct separatorsSerially connectedDiverse type
170.07 170.08 170.09 170.1 170.11 171 172.1 172.2 172.3 172.4	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.) .Machinery .Separator ancillary to storage tankSubmerged separatorOn pump suction intakeFilter supported by frame (e.g., bag shaped filter in fuel tank for engine, etc.)	195.2 195.3 195.4 196 197 198.1 198.2 198.3 199 200 201 202 203	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etcSpaced along flow path .Plural distinct separatorsSerially connectedDiverse typeFilters
170.07 170.08 170.09 170.1 170.11 171 172.1 172.2 172.3 172.4	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.) .Machinery .Separator ancillary to storage tankSubmerged separatorOn pump suction intakeFilter supported by frame (e.g., bag shaped filter in fuel tank for engine, etc.)Having tethering means	195.2 195.3 195.4 196 197 198.1 198.2 198.3 199 200 201 202 203 204	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etcSpaced along flow path .Plural distinct separatorsSerially connectedDiverse typeFiltersSectional chamber press type
170.07 170.08 170.09 170.1 170.11 171 172.1 172.2 172.3 172.4	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.) .Machinery .Separator ancillary to storage tankSubmerged separatorOn pump suction intakeFilter supported by frame (e.g., bag shaped filter in fuel tank for engine, etc.)Having tethering meansIn tank inlet	195.2 195.3 195.4 196 197 198.1 198.2 198.3 199 200 201 202 203 204	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etcSpaced along flow path .Plural distinct separatorsSerially connectedDiverse typeFiltersSectional chamber press type .With distinct reactor tank,
170.07 170.08 170.09 170.1 170.11 171 172.1 172.2 172.3 172.4 172.5 172.6 173	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.) .Machinery .Separator ancillary to storage tankSubmerged separatorOn pump suction intakeFilter supported by frame (e.g., bag shaped filter in fuel tank for engine, etc.)Having tethering meansIn tank inlet COMMINUTING	195.2 195.3 195.4 196 197 198.1 198.2 198.3 199 200 201 202 203 204 205	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etcSpaced along flow path .Plural distinct separatorsSerially connectedDiverse typeFiltersSectional chamber press type .With distinct reactor tank, trough or compartment
170.07 170.08 170.09 170.1 170.11 171 172.1 172.2 172.3 172.4 172.5 172.6 173 174	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.) .Machinery .Separator ancillary to storage tankSubmerged separatorOn pump suction intakeFilter supported by frame (e.g., bag shaped filter in fuel tank for engine, etc.)Having tethering meansIn tank inlet COMMINUTING .Cylindrical strainer	195.2 195.3 195.4 196 197 198.1 198.2 198.3 199 200 201 202 203 204 205	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etcSpaced along flow path .Plural distinct separatorsSerially connectedDiverse typeFiltersSectional chamber press type .With distinct reactor tank, trough or compartmentChemical holder in series with
170.07 170.08 170.09 170.1 170.11 171 172.1 172.2 172.3 172.4 172.5 172.6 173 174 175	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.)Machinery .Separator ancillary to storage tankSubmerged separatorOn pump suction intakeFilter supported by frame (e.g., bag shaped filter in fuel tank for engine, etc.)Having tethering meansIn tank inlet COMMINUTING .Cylindrical strainer WITH HEATER OR HEAT EXCHANGER	195.2 195.3 195.4 196 197 198.1 198.2 198.3 199 200 201 202 203 204 205	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etcSpaced along flow path .Plural distinct separatorsSerially connectedDiverse typeFiltersSectional chamber press type .With distinct reactor tank, trough or compartmentChemical holder in series with separator
170.07 170.08 170.09 170.1 170.11 171 172.1 172.2 172.3 172.4 172.5 172.6 173 174	GroundwaterSeptic system including drain field or leach field or waste liquid treatment systemBody of freshwater (e.g., pond, lake, reservoir, etc.)Surface flowing freshwater (e.g., stream, river, ditch, canal, etc.)Body of saltwater (e.g., sea, ocean, etc.) .Machinery .Separator ancillary to storage tankSubmerged separatorOn pump suction intakeFilter supported by frame (e.g., bag shaped filter in fuel tank for engine, etc.)Having tethering meansIn tank inlet COMMINUTING .Cylindrical strainer	195.2 195.3 195.4 196 197 198.1 198.2 198.3 199 200 201 202 203 204 205 206 207	treating or storage unitsWith semipermeable membrane, e.g., dialyzer, etcWith sediment recycle means directly to main streamMeans is baffle slot .Of filtrate .From bottom of separator WITH MEANS TO ADD TREATING MATERIAL .ChromatographyThin layer, e.g., plate, etcSpaced along flow path .Plural distinct separatorsSerially connectedDiverse typeFiltersSectional chamber press type .With distinct reactor tank, trough or compartmentChemical holder in series with separatorWithin gravitational separator

210	To interior of moving filter, e.g., drum	244	PORTABLE RECEPTACLE WITH HOOD OR CLOSURE
211	Through separator supporting rotary shaft	245	.Attached variable flow controller
212	With stationary casing closure	246	.Limited opening cover
	feature	247	FILTRATE SPLASH PLATE AND/OR
213	With coaxial rotary impeller		DEFLECTOR
	or distributor	248	WITH DRIP, OVERFLOW OR CONTENT
214	With stationary mount for		DRAINING FEATURE
	movable distributor	249	BRACKET OR LEG SUPPORT FOR STATIC
215	With effluent dividing means		SEPARATOR ASSEMBLY
216	Moving filter medium	250	.Leg
217	Drum	251	COMBINED
218	Gas removed from closed tank	252	SERIALLY CONNECTED DISTINCT
219	With mechanical agitator		TREATING WITH OR WITHOUT
220	Submerged fluid inlet		STORAGE UNITS
221.1	With outlet at surface, e.g.,	253	.Parallel
	froth flotation, etc.	254	.With by-pass
221.2	And gas injecting means other	255	.Cascade
	than by mechanical agitation	256	.One unit inside another
222	MAGNETIC	257.1	.With storage unit
223	.With additional separator	257.2	Having membrane
224	SECTIONAL CHAMBER PRESS TYPE	258	.With pump, gas pressure or
225	.With residue removal or liquid		vacuum source
	agitation	259	.Diverse
226	.With porous filler	260	Including multiple operation
227	.Medium clamped in joint		unit
228	With spacing frame	261	One unit supports another
229	Imperforate base recess in	262	On different levels
	plate	263	PARTICULATE MATERIAL TYPE
230	.With repair or assembling means		SEPARATOR, E.G., ION EXCHANGE
231	.Plates or frames	0.64	OR SAND BED
232	WITH REPAIR OR ASSEMBLING MEANS	264	Selective units or compartments
233	.Piercing or closure knock out	265	.With gravitational separator
	means	266	.With spaced non-particulate
234	.Removable treatment part with	267	separating means
	normally disabled flow	267	.Trunnion mounted casing
025	controller	268	.Gravity flow of particles type .With rehabilitation means
235	.Placement of container opens flow controller	269 270	
226		270	Movable means for particle
236	.Sliding or rolling on guide	271	pickup and redeposit
237	means .Hoist or handle means	271	Surface traversing typeRotating on stationary axis
237		272	-
239	Hand manipulable CONVERTIBLE	273	Moving fluid distributorIncluding means to apply gas to
240	Filter having selectively usable	2/4	bed
240	flow connector means	275	Backwash or blowback means
241	WITH MOVABLE SUPPORT	275	With mechanical agitator or
241.1	.Float	2,0	residue remover
242.1	With aerating means	277	Flow controller external of
242.2	With oil water skimmer	_ , ,	closed casing
242.3	With oil water sorption means	278	Multi-way valve unit
242.4	ELECTRICAL INSULATING OR	279	With embedded fluid
219	ELECTRICATE INSULATING OR ELECTRICITY DISCHARGING		distributor

280	With agitator	316	One adjacent inlet or outlet
281	With access opening to normally		conduit
	closed casing	317	Including non-self-supporting
282	.Removable cartridge or hand-		medium
	manipulated container	318	Incompatible shapes
283	.Pervious divider between and	319	.With agitator
	contacting beds	320	.With baffle perpendicular to
284	.Spaced beds		flow direction
285	.Embedded baffle	321.6	CASING DIVIDED BY MEMBRANE INTO
286	Vertical		SECTIONS HAVING INLET(S) AND/
287	.Within flow line or flow line		OR OUTLET(S)
	connected closed casing	321.61	.Membrane secured with adhesive
288	Conduit through bed, inlet and		of specified composition
	outlet at same end of casing	321.62	.Antithrombogenic membrane
289	With particular liquid	321.63	.Rotating mechanical agitator
	receiving means or foraminous		adjacent membrane
	bed retainer	321.64	.Plural diverse structured
290	.With multi-layer beds		membranes within a single
291	.Particular liquid receiving	201 (5	casing
	means or foraminous bed	321.65	.Permeated liquid quantity
202	retainer	201 66	measurement or control
292	Hood or top protector type	321.66	.Energy recovery from treated
293	Floor type, e.g., false bottom	321.67	liquid
294	DIVERSE DISTINCT SEPARATORS	321.67	.Membrane movement during purification
295	.Including a filter	321.68	Nontranslatory rotary
296	Including liquid as a	321.69	Noncranslatory rotary .With membrane cleaning or
207	separating mediumMoving filter medium	321.69	sterlizing means (other than
297 298	With mechanical residue or		by filter movement or rotating
298	sediment mover		agitator)
299	Including constituent trapping	321.7	Solid cleaning material (e.g.,
299	feature	02211	balls)
300	Alternate filters and traps in	321.71	.Dialyzer with dialysate
300	series		proportioning means
301	Plural traps	321.72	.Each section having inlet(s) and
302	Flow-line valve upstream of		outlet(s)
302	separator	321.73	Noncoiled nonannular cross
303	Cut-off sediment trap		section tube
304	Tangential flow, spiral or	321.74	Coiled membrane
3 3 1	convolute baffle	321.75	Planar membrane
305	Baffle preceding or within	321.76	Spiral flow
	sediment trap	321.77	Pleated membrane
306	Deflecting prefilt from	321.78	Cylindrical membrane
	filter medium	321.79	Plural cylindrical membranes
307	Downstream of filter medium		all connected for parallel
308	Directly communicating with		flow
	tubular filter interior	321.8	All cylindrical membranes are
309	Attached to filter element		parallel
310	Lateral trap	321.81	With embedded baffle
311	Downflow inlet, upflow through	321.82	.Noncoiled nonannular cross
	filter medium		section tube
312	Sediment discharge means	321.83	.Coiled membrane
313	Valve controlled	321.84	.Planar membrane
314	Spaced filters	321.85	Spiral flow
315	One within another	321.86	.Pleated membrane

321.87	.Cylindrical membrane	353	.Free cleaning means, e.g., loose
321.88	Plural cylindrical membranes		abrading particles
	all connected for parallel flow	354	<pre>.Medium, cleaner or agitator moved by fluid</pre>
321.89	All cylindrical membranes are	355	Cleaner
	parallel	356	Medium flexed
321.9	With embedded baffle	357	.Relatively movable members
322	PLURAL DISTINCT SEPARATORS	337	interleaved for cleaning
323.1	Filters	358	.Imperforate drum, medium on arc,
323.2	Tubular		chord or end
324	Movable separating elements	359	.Movable medium
325	Planetary	360.1	Centrifugal extractor
326	Drum type on parallel axis	360.2	With inward flow of feed
327	Plural cleaners and plural	300.2	component
32,	movable elements	361	With individual article
328	Pivotally mounted sections	332	container or support
329	Relatively movable	362	Container or support
330	Connected for group operation	332	reversible
331	Spaced filter wall type,	363	With adjustable rotation
331	e.g., multiple hollow leaves		stabilizer
332	With residue removal or liquid	364	Casing, shaft and filter unit
332	agitation		gyratorily mounted
333.01	Backwash or blowback	365	Shaft and filter unit
333.1	Sequential backwash		gyratorily mounted
334	Alternating filter and residue	366	Gyratory mounting above
331	remover		filter
335	In series for prefilt flow	367	Filter gyratorily mounted on
336	Tortuous path		shaft
337	Nested units	368	With rotation brake
338	Concentric filter elements	369	Discharging residue
339	Internal flange supporting	370	Secondary motion of filter
333	filter element		medium
340	Parallel filters with flow	371	With variable flow controller
	controller	372	By residue engaging means
341	Individually controlled for	373	Fixed
	removal with common receiver	374	Rotatable
342	One element within another	375	Pivoted
343	Alternating oppositely opening	376	Axially reciprocable
	liquid distributors	377	Internal work distributor
344	Abutted alternating medium and pan type receiver	378	Including filtrate receiving means having plural filtrate
345	Radial or radially connected to		outlets
313	central header	379	Including filtrate receiving
346	Spaced wall-type filters	3,3	trough adjacent top discharge
347	Central header	380.1	Rotating element construction
348	FILTER	380.2	Laundry
349	.Pulsation dampener or gas	380.3	Horizontal axis
343	trapping	381	Inwardly extending partitions
350	.With movable means to compress	382	Top filtrate discharge
330	medium	383	Separate agitator
351	Actuating means external of	384	Vibrator and unidirectional
201	closed casing	304	motion filter medium
352	Internal spring	385	With plural motion
J J Z	Spring	386	Rolls or confining members
		300	contacting residue

387	Unrollable	420	Selective directive flow
388	Vibrating or longitudinally		relative to filter
	reciprocating	421	Pivoted prefilt deflector
389	Longitudinally moving prefilt type	422	Plural outlets from filter casing
390	Mounted on movable valve	423	Attached unitary plural
	element		passage header
391	With cleaning means	424	Multi-way valve
392	Fixed position or attached	425	Backwash
	valve blocking means	426	Encased
393	Backwash or blowback and	427	Backwash
	additional cleaner	428	Combining or dividing flow
394	Discharging inside, e.g.,		passages with filter in
	internal-type drum		combined passage
395	With filter-driven valve means	429	Filter coaxial with valve seat
396	Solid cleaner, e.g., scraper		or valve stem
397	With plural outlets from	430	Filter surrounds valve
	filter casing	431	Filter fixed to valve seat,
398	Within sealed enclosure		opposed to valve head
399	Movable casing	432	Filter in valve body recess
400	Belt type	433.1	.Divided filtered, and unfiltered
401	Superimposed on additional		liquid passages
	moving support	434	Recombining
402	Drum type	435	.Within flow line or flow line
403	Internal feed		connected close casing
404	Annular segmented compartment	436	Vented
405	.Movable prefilt distributor	437	Central internal liquid
406	.Vacuumized filtrate receiver		receiver, e.g., tube
407	.With residue removing means or agitation of liquid	438	Imperforate central liquid tube
408	Diverse, e.g., combined	439	Axial flow through filter
	agitators, scrapers, aeration		element
	blowback	440	Inlet and outlet at same end
409	Fluid cleaning	441	Attached to casing
410	Air pump type	442	Head and base connected
411	Backwash or blowback	443	Inlet and outlet at same end
412	Liquid pulsator	444	Filter suspended from head
413	Fixed filter medium and movable	445	Clamped in casing joint
	stirrer or cleaner	446	Axially aligned inlet and
414	With plural outlets from		outlet
	filter casing	447	Laterally removable
415	Nontranslatory rotary	448	Single open-end-type filter
416.1	.With pump, gas pressure, or		element
	suction source	449	Pipe end attached closed
416.2	For aquarium or swimming pool		casing, e.g., faucet
416.3	For drinking water	450	Gasket within casing or spaced
416.4	For fuel system		removable end members
416.5	For lubricating or oil treating	451	Internal fixed shoulder
	system		supporting filter element
417	.Alternating oppositely opening	452	Single open-end-type filter
	liquid distributors		element
418	.With flow controller for	453	Filter element clamped between
	material being treated		closure and end wall
419	Attached to or within portable	454	Filter element attached to
	prefilt receiver		closure

455	.Receptacle and modified spacing	490	Integral or coated layers
	surface or support for filter	491	All fibrous
	medium	492	Alternating dissimilar
456	.Prefilt flow distributor or	493.1	Pleated
	diverter	493.2	Bonded end caps
457	.With central pervious tubular	493.3	Rectangularly shaped
	receiver	493.4	Spirally formed
458	Plural concentric receivers	493.5	Filter element
459	.Pipe or plate attached type	494.1	Convolute
460	Attached to open end of pipe	494.2	Metal
461	Spaced wall-type element	494.3	With edge spacer
462	Pipe is connection to plate	495	Single ring or closed frame
463	Inserted holder		type
464	.Portable receptacle draining	496	Bound, fused or matted, e.g.,
	type		porous shapes, sponges, etc.
465	Cooperating handles on	497.01	Cylindrical, conical, or trough
	receptacle and drainer		shape
466	Receptacle spout	497.1	Helically wound
467	Within receptacle proper	497.2	Filter blank
468	Spaced from spout discharge	497.3	Conical
469	On or adjacent receptacle upper	498	Perforated or grooved plates
	edge	499	Screens, e.g., woven
470	.Handled	500.1	.Material
471	Ring type	500.21	
472	.Vented	500.21	Isotropically pored
473	Resting on supporting receiver,	500.22	Hollow fiber or cylinder
1,3	e.g., portable	500.23	Antithrombogenic coating or
	9 1 2	300.24	Ancientombogenie coacing of
4.74	At upper edge of filtrate		mambrana
474	At upper edge of filtrate receiver	E00 2E	membrane
	receiver	500.25	Metal containing
475	receiverFilter offset in cover	500.26	Metal containingGlass
	receiverFilter offset in coverTelescoped receivers or	500.26 500.27	Metal containingGlassOrganic
475 476	receiverFilter offset in coverTelescoped receivers or receiver sections	500.26 500.27 500.28	Metal containingGlassOrganicCyclic
475	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or	500.26 500.27 500.28 500.29	Metal containingGlassOrganicCyclicCellulosic
475 476 477	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surface	500.26 500.27 500.28 500.29 500.3	Metal containingGlassOrganicCyclicCellulosicCellulose acetate
475 476	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and	500.26 500.27 500.28 500.29 500.3 500.31	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose diacetate
475 476 477 478	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainer	500.26 500.27 500.28 500.29 500.3 500.31	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetate
475 476 477 478 479	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainer	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetate
475 476 477 478	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetateChomocyclicStyrene
475 476 477 478 479 480	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainer	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.34 500.35	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetateHomocyclicStyreneAcrylate
475 476 477 478 479	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.34 500.35	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetateHomocyclicStyreneAcrylateAlkene other than vinyl
475 476 477 478 479 480	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.34 500.35 500.36	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetateHomocyclicStyreneAcrylateAlkene other than vinylAmine
475 476 477 478 479 480 481	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.35 500.36 500.37	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetateAtyreneAcrylateAkene other than vinylAmineAmide
475 476 477 478 479 480	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.34 500.35 500.36	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetateHomocyclicStyreneAcrylateAlkene other than vinylAmine
475 476 477 478 479 480 481	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt receiver	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.35 500.36 500.37	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetateAtyreneAcrylateAkene other than vinylAmineAmide
475 476 477 478 479 480 481	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt receiver .Supported, shaped or	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.34 500.35 500.36 500.37 500.38	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose diacetateCellulose triacetateThomocyclicStyreneAcrylateAlkene other than vinylAmineAmideImide
475 476 477 478 479 480 481 482 483	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt receiver .Supported, shaped or superimposed formed mediums	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.34 500.35 500.36 500.37 500.38 500.39	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose diacetateCellulose triacetateHomocyclicStyreneAcrylateAlkene other than vinylAmineAmideImideCarbonate
475 476 477 478 479 480 481	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt receiver .Supported, shaped or superimposed formed mediumsMedium within foraminous	500.26 500.27 500.28 500.3 500.31 500.32 500.33 500.35 500.36 500.37 500.38 500.39 500.4 500.41	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetateThomocyclicStyreneAcrylateAlkene other than vinylAmineAmideImideImideCarbonateSulfone
475 476 477 478 479 480 481 482 483	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt receiver .Supported, shaped or superimposed formed mediumsMedium within foraminous supporting container or sheath	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.34 500.35 500.36 500.37 500.38 500.39 500.4 500.41 500.42	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetateHomocyclicStyreneAcrylateAlkene other than vinylAmineAmideImideImideImideSulfoneVinyl
475 476 477 478 479 480 481 482 483 484 485	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt receiver .Supported, shaped or superimposed formed mediumsMedium within foraminous supporting container or sheathExternal cage-type support	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.34 500.35 500.36 500.37 500.38 500.39 500.4 500.41 500.42 500.43	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetateHomocyclicStyreneAcrylateAlkene other than vinylAmineAmideImideCarbonateCarbonateSulfoneVinylAcrylonitrile
475 476 477 478 479 480 481 482 483	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt receiver .Supported, shaped or superimposed formed mediumsMedium within foraminous supporting container or sheathExternal cage-type supportSpaced wall type, e.g., hollow	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.34 500.35 500.36 500.37 500.38 500.39 500.4 500.41 500.42 500.43	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateHomocyclicStyreneAcrylateAlkene other than vinylAmineAmideImideImideCarbonateSulfoneVinylAcrylonitrileSterilizing or neutralizing
475 476 477 478 479 480 481 482 483 484 485 486	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt receiver .Supported, shaped or superimposed formed mediumsMedium within foraminous supporting container or sheathExternal cage-type supportSpaced wall type, e.g., hollow leaf	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.36 500.37 500.38 500.39 500.4 500.41 500.42 500.43 501	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateStyreneAcrylateAlkene other than vinylAmineAmideImideImideSulfoneSulfoneVinylAcrylonitrileSterilizing or neutralizing agent containing
475 476 477 478 479 480 481 482 483 484 485	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt receiver .Supported, shaped or superimposed formed mediumsMedium within foraminous supporting container or sheathExternal cage-type supportSpaced wall type, e.g., hollow leafConcentric, convolute or	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.36 500.37 500.38 500.39 500.4 500.41 500.42 500.43 501	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose diacetateCellulose triacetateStyreneAcrylateAlkene other than vinylAmineAmideImideImideCarbonateSulfoneVinylAcrylonitrileSterilizing or neutralizing agent containingSorptive component containing
475 476 477 478 479 480 481 482 483 484 485 486	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt receiver .Supported, shaped or superimposed formed mediumsMedium within foraminous supporting container or sheathExternal cage-type supportSpaced wall type, e.g., hollow leafConcentric, convolute or pleated	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.36 500.37 500.38 500.39 500.4 500.41 500.42 500.43 500.43 500.43	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose diacetateCellulose triacetateStyreneAcrylateAkene other than vinylAmineAmideImideImideCarbonateSulfoneVinylAcrylonitrileSterilizing or neutralizing agent containingSorptive component containingDiverse granular or fibrous
475 476 477 478 479 480 481 482 483 484 485 486	receiverFilter offset in coverTelescoped receivers or receiver sectionsResting on internal stop or surfaceUnitary filter medium and radially expandable retainerInner separate retainerWith contractor for expandable retainerLongitudinal retainer or guide, (e.g., reflex coffee maker)At lower end or prefilt receiver .Supported, shaped or superimposed formed mediumsMedium within foraminous supporting container or sheathExternal cage-type supportSpaced wall type, e.g., hollow leafConcentric, convolute or	500.26 500.27 500.28 500.29 500.3 500.31 500.32 500.33 500.36 500.37 500.38 500.39 500.4 500.41 500.42 500.43 500.43 500.43	Metal containingGlassOrganicCyclicCellulosicCellulose acetateCellulose triacetateCellulose triacetateHomocyclicStyreneAcrylateAlkene other than vinylAmineImideImideImideCarbonateSulfoneVinylAcrylonitrileSterilizing or neutralizing agent containingSorptive component containingDiverse granular or fibrousWith adhered coating or

506	Coated or imprograted org		
506	<pre>Coated or impregnated, e.g., adhesively bound</pre>		
507	Fabrics		
508	Fibrous	CROSS-	REFERENCE ART COLLECTIONS
509	Inorganic	CRODD	NUI INDICE ANT CONDUCTIONS
510.1	Porous unitary mass	900	ULTRA PURE WATER (E.G.,
511	LIQUID AS SEPARATING MEDIUM	200	CONDUCTIVITY WATER)
512.1	TANGENTIAL FLOW OR CENTRIFUGAL	901	SPECIFIED LAND FILL FEATURE
	FLUID ACTION	J01	(E.G., PREVENTION OF GROUND
512.2	.Multiple cyclone		WATER FOULING)
512.3	.With movable means affecting	902	MATERIALS REMOVED
	flow	903	.Nitrogenous
513	GRAVITATIONAL SEPARATOR	904	CN containing
514	.Portable invertible, e.g., milk	905	Protein
	and cream separator	906	.Phosphorus containing
515	Selective withdrawal of	907	Phosphate slimes
	constituents	908	.Organic
516	Resilient deformable isolator	909	Aromatic compound (e.g., PCB,
517	Hinged to handle		phenol, etc.)
518	Sectional isolator	910	Nonbiodegradable surfacant
519	.Material supply distributor	911	.Cumulative poison
520	Rotatable	912	Heavy metal
521	.Superposed compartments or	913	Chromium
	baffles, e.g., parallel plate	914	Mercury
	type	915	.Fluorine containing
522	Each with lighter constituent	916	Odor (including control or
	discharge		abatement)
523	.Mechanical constituent mover	917	.Color
524	Diverse serial	918	MISCELLANEOUS SPECIFIC TECHNIQUES
525	Scum sediment removal	919	.Using combined systems by
526	Endless belt or chain		merging parallel diverse waste
527	Rectilinearly movable		systems
	supporting means	920	.Using combined systems of
528	Horizontally rotating scraper		sequential local and regional
529	Polygonal container and		or municipal sewage systems
	correlating mover	921	.Flow equalization or time
530	Tank rim-supported carriage		controlled stages or cycles
531	Elevatable scrapers	922	.Oil spill cleanup (e.g.,
532.1	.Heavier constituent trap,		bacterial, etc.)
	chamber, or recess	923	Using mechanical means (e.g.,
532.2	Septic tank		skimmers, pump, etc.)
533	Closure or valve controlled	924	Using physical agent (e.g.,
= 0.4	discharge		sponge, mop, etc.)
534	In sloping recess	925	Using chemical agent
535	Downstream of separator	926	.Using oxidation ditch (e.g.,
536	In side wall of separator		carousel, etc.)
537	With discharge means for two	928	PAPER MILL WASTE (E.G., WHITE
= 0.0	or more lighter constituents		WATER, BLACK LIQUOR, ETC.)
538	.Lighter constituent trap	000	TREATED
539	Gas vent or bypass	929	HEMOULTRAFILTRATE VOLUME
540	With discharge port		MEASUREMENT OR CONTROL PROCESSES
541	ADJUNCTS	930	PAINT DETACKIFYING
542	MISCELLANEOUS	931	ZEBRA MUSSEL MITIGATION OR
		J J I	TREATMENT

FOREIGN ART COLLECTIONS

FOR 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 (210/153)

- FOR 100 .Closed circulating systems (210/
- 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)

PROCESSES (210/600)

- FOR 105 .Utilizing electrical or wave energy (directly applied to liquid or material being treated) (210/748)
- FOR 106 .Including geographic feature (e.g., drainage ditch, septic, pond) (210/747)

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

PROJECT C-A210

SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New	Number	Source	Number
Classification	of ORs	Classification	of ORs
	·		
205/745	1	210/747	236
210/170.03	1	210/747	236
210/170.07	1	210/747	236
210/601	1	210/747	236
210/660	2	210/747	236
210/691	1	210/747	236
210/747.1	1	210/747	236
	33	210/747	236
210/747.2	7	210/747	236
210/747.3	26	210/747	236
210/747.4	9	210/747	236
210/747.5	32	210/747	236
210/747.6	28	210/747	236
210/747.7	21	210/747	236
210/747.8	37	210/747	236
210/747.9	20	210/747	236
210/748.08	1	210/747	236
210/748.14	1	210/747	236
210/776	1	210/747	236
37/338	1	210/747	236
405/128.5	4	210/747	236
423/437.1	1	210/747	236
423/659	1	210/747	236
52/12	2	210/747	236
588/250	1	210/747	236
73/1.07	1	210/747	236
95/263	1	210/747	236

CLASSIFICATION ORDER 1908

APRIL 5, 2011

PROJECT C-A210

DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
210/747	236	210/747.3	26
		210/747.5	32
		210/776	1
		210/170.03	1
		588/250	1
		37/338	1
		405/128.5	4
		423/659	1
		210/601	1
		210/748.14	1
		210/170.07	1
		52/12	2
		210/691	1
		210/747.6	28
		210/748.08	1
		210/747.4	9
		423/437.1	1
		210/660	2
		210/747.9	20
		210/747.2	7
		210/747.1	33
		210/747.8	37
		73/1.07	1
		95/263	1
		205/745	1
		210/747.7	21
		210/747.1	1

PROJECT C-A210

C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

Class	<u>USPC</u>	Subclass	Subclass	<u>IPC</u>	Notation
210		747.1-747.9	C02F		1/00

PROJECT C-A210

D. CHANGES TO THE DEFINITIONS

CLASS	CLASS 210 – LIQUID PURIFICATION OR SEPARATION			
<u>Definiti</u>	Definitions Abolished			
Subclas	<u>usses</u>			
747				
<u>Definiti</u>	ons Mod	<u>ified</u>		
Subclas	s 170.03	:		
	<u>Insert:</u>			
	SEE OR SEARCH CLASS:			
	52,	Static Structures (e. g., Buildings), subclass 12 for a roof with a surface water receiver at an eave with a separator.		
	404,	Road Structure, Process, or Apparatus, subclasses 2 through 5 for roadway drain or gutter structure.		
Subclas	s 170.08			
	Delete:			
		The title and the definition.		
	<u>Insert:</u>			
170.08	Septic system including drain field or leach field 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 and from which liquids overflow through an outlet of the tank into a disposal field where they can leach into the soil or comprises a group of devices including liquid purification or separation means that purify or separate the waste liquid.			

Note. While septic tanks are normally found to be underground, the term septic tank is not considered to be a geographic feature. (1)

PROJECT C-A210

D. CHANGES TO THE DEFINITIONS

SEE OR SEARCH THIS CLASS, SUBCLASS:

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

Definitions Established

747.1 Including geographic feature:

This subclass is indented under subclass 600. Process in which a relationship to a particular feature of the earth's surface (e.g., ground, a body of water, etc.) is positively recited, other than mere discharge to the particular feature of the earth's surface.

- (1) Note. While septic tanks are normally found to be underground, the term septic tank is not considered to be a geographic feature.
- (2) Note. While discharge to the ground or a body of water is not a geographic feature, discharge at a specified depth or in a particular strata or formation, or in a particular location in a body of water is considered to be a geographic feature.
- (3) Note. Included in this subclass is in situ purging of flowing or still liquid (e.g., in drainage ditch, pond, etc.) wherein the method of separating or purifying has (a) at least part of a system installed on natural or modified terrain to convey rain, snow melt, a river, sewage, well water or oil, etc. or (b) a relationship to a particular nonland geographic feature, such as a lake, ocean, sea, etc.

SEE OR SEARCH CLASS:

405, Hydraulic and Earth Engineering, subclasses 36-51 for drainage devices; subclasses 52-127 for fluid control, treatment, or containment; subclasses 128.1-128.9 for soil remediation; and subclasses 129.1-129.95 for subterranean waste disposal, containment, or treatment.

747.2 Stormwater treatment:

This subclass is indented under subclass 747.1. Process in which fallen precipitation is subjected to a chemical or physical process that improves or alters the fallen precipitation (e.g., rainwater runoff, storm sewer treatment, etc.).

SEE OR SEARCH CLASS:

- 52, Static Structures (e. g., Buildings), subclass 12 for a roof with a surface water receiver at an eave with a separator.
- 404, Road Structure, Process, or Apparatus, subclasses 2 through 5 for roadway drain or gutter structure.

PROJECT C-A210

D. CHANGES TO THE DEFINITIONS

747.3 Filtering:

This subclass is indented under subclass 747.2. Process in which the fallen precipitation passes through a foraminous or porous mass which separates solid matter from the fallen precipitation by entrapment and retention while permitting the fallen precipitation to pass through.

747.4 Dredging sediments/water mixture from underwater beds treated:

This subclass is indented under subclass 747.1. Process in which disturbed solids and water at the bottom of a body of water are purified or separated.

SEE OR SEARCH CLASS:

37, Excavating, appropriate subclasses for excavating processes.

747.5 Body of freshwater, surface flowing freshwater, or body of saltwater:

This subclass is indented under subclass 747.1. Process in which the particular feature of the earth's surface that the liquid purification or separation process is related to is a bounded aggregate of still water that is not salty (e.g., pond, lake, reservoir, etc.), a bounded aggregate of nonsalty, running water flowing on the earth's surface (e.g., stream, river, ditch, canal, etc.), or an aggregate of salt water covering most of the earth's surface (e.g., sea, ocean, etc.).

(1) Note. The water may be what is purified or separated or the purification or separation process may include apparatus located in the water for purifying or separating a liquid other than the water itself.

747.6 Utilizing floating treating means:

This subclass is indented under subclass 747.5. Process in which the liquid purification or separation process uses liquid purification or separation means that is buoyed on or in the water.

747.7 Groundwater treatment:

This subclass is indented under subclass 747.1. Process in which water within the earth's surface is purified or separated.

747.8 By chemical treatment:

This subclass is indented under subclass 747.7. Process in which a treating agent chemically reacts with a component in the groundwater.

747.9 Utilizing artificial waste pond or pit (e.g., waste lagoon, wastewater pond, etc.):

This subclass is indented under subclass 747.1. Process in which the particular feature of the earth's surface that the liquid purification or separation process is related to is a man-made body of liquid for processing waste liquids (e.g., waste lagoon, wastewater pond, etc.).

PROJECT C-A210

D. CHANGES TO THE DEFINITIONS

FOREIGN ART COLLECTIONS

FOR 106 Including geographic feature (e.g., drainage ditch, septic, pond) (210/747):

This foreign art collection is indented under unnumbered placeholder 210/600. Process in which a relationship to or a feature of the terrain is positively recited, other than mere discharge to the earth or to a body of water.

- (1) Note. While septic tanks are normally found to be underground, the term septic tank is not considered a geographic feature.
- (2) Note. While discharge to the ground is not a geographic feature, discharge at a specified depth or in a particular strata or formation, or in a particular location in a body of water is considered a geographic feature.
- (3) Note. Included in this subclass is in situ purging of flowing or still liquid (e.g., drainage ditch, septic system, pond) wherein the method of separating or purifying has (a) at least part of a system installed on natural or modified terrain to convey rain, snow melt, a river, sewage, well water or oil, etc. or (b) a relationship to a particular nonland geographic feature, such as a lake, ocean, sea, etc.

PROJECT C-A210

D. CHANGES TO THE DEFINITIONS

CLASS 405 — HYDRAULIC AND EARTH ENGINEERING

Definitions Modified

Subclass 36: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 210.

Insert:

210, Liquid Purification or Separation, subclasses 170.01 through 170.11 for liquid purification or separation means installed in a geographic feature and subclasses 747.1 through 747.9 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 through 170.11 for liquid purification or separation means installed in a geographic feature and subclasses 747.1 through 747.9 for liquid purification or separation processes including a geographic feature.

Subclass 74: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 210.

PROJECT C-A210

D. CHANGES TO THE DEFINITIONS

Insert:

210, Liquid Purification or Separation, subclasses 170.01 through 170.11 for liquid purification or separation means installed in a geographic feature and subclasses 747.1 through 747.9 for liquid purification or separation processes including a geographic feature.

Subclass 128.1: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 210.

Insert:

210, Liquid Purification or Separation, subclass 601 for a chemical treatment process to treat groundwater with the use of microorganisms and subclass 747.8 for a chemical treatment process wherein a material is added to the liquid and chemically reacts with a constituent in the liquid to perfect the liquid for an intended use or render the liquid less noxious, wherein the liquid may be groundwater.