

This Class 568 is considered to be an integral part of Class 260 (see the Class 260 schedule for the position of this Class in schedule hierarchy). This Class retains all pertinent definitions and class lines of Class 260.

<b>ORGANIC COMPOUNDS (CLASS 532, SUBCLASS 1)</b>	
1	..BORON CONTAINING
2	..Phosphorus containing
3	..Plural borons containing
4	...Ten or more borons containing (e.g., decaborane, etc.)
5	....Sulfur, oxygen, halogen or Group IA or IIA light metal containing
6	..Sulfur, oxygen, halogen or Group IA or IIA light metal containing
7	..Tri-acyclic-hydrocarbyl boron
8	..PHOSPHORUS CONTAINING
9	..Phosphonium derivative
10	...Plural phosphori containing
11	...Sulfur or oxygen containing
12	..Ring phosphorus containing
13	..Sulfur or oxygen containing
14	...Sulfur or oxygen bonded directly to phosphorus
15	....And sulfur or oxygen bonded indirectly to phosphorus
16	..Halogen containing
17	..Benzene ring containing
18	..SULFUR CONTAINING
19	..With preservative or stabilizer
20	..Thiocarbonyl containing (e.g., thioketone containing, etc.)
21	..Sulfur bonded directly to sulfur (e.g., disulfides, etc.)
22	...Oxygen containing
23	....Sulfur or oxygen bonded directly to a ring
24	...Halogen containing
25	...Benzene ring containing
26	...Preparing by reacting a thiol or mercaptide (i.e., reactant contains -SH or -SM where M is a Group IA or IIA light metal)

27	..Oxygen bonded directly to sulfur (e.g., sulfoxides, etc.)
28	...Plural oxygens bonded directly to the same sulfur (e.g., sulfones, etc.)
29	....Thiol or thioether containing
30	....Nitrogen containing
31	....Carbonyl containing (e.g., ketone containing, etc.)
32	....Oxy containing
33	.....Oxy bonded directly to a ring
34	....Plural rings containing
35	....Plural halogens containing
36	..Nitrogen or plural sulfurs containing
37	...Carbonyl or oxy containing (e.g., ketone containing, etc.)
38	..Thioethers
39	...Oxygen containing
40	....Group IA or IIA light metal containing
41	....Carbonyl containing (e.g., aldehyde containing, etc.)
42	.....Ketone containing
43	.....Oxy or halogen containing
44	...Nitrogen containing
45	...Plural oxygens containing
46	.....Polyhydroxy
47	.....Plural rings containing
48	.....Plural rings bonded directly to the same sulfur
49	....Plural rings containing
50	....Thiol or plural thioethers containing
51	...Oxygen bonded directly to a ring
52	.....Plural rings containing
53	.....Plural rings bonded directly to the same sulfur
54	.....Sulfur bonded directly to a ring
55	...Hydroxy containing
56	...Halogen containing
57	...Thiol or plural thioethers containing
58	...Plural rings containing
59	...Acyclic
60	...Symmetrical (e.g., dimethyl sulfide, etc.)

61	..Thiol or mercaptide containing (i.e., -SH or -SM containing where M is a Group IA or IIA light metal)	316	.....Halogen containing reactant
		317	.....Alicyclic unsaturated or acyclic unsaturated hydrocarbon reactant
62	...Oxygen containing	318	.....Gaseous hydrogen reactant or Group IA or IIA light metal containing material utilized
63	....Carbonyl containing (e.g., ketone containing, etc.)		....Reactant contains -COO- group
64	....Oxygen bonded directly to a ring	319	....Oxidation of organic compound utilizing gaseous oxygen
65	...Halogen containing	320	.....Plural rings in ketone prepared
66	...Polythiol		....Oxy containing reactant
67	...Benzene ring containing		....Halogen containing reactant (e.g., dehydrohalogenation, etc.)
68	....Preparing by utilizing halogen, heavy metal, or aluminum containing material	321	....Purification or recovery
69	...Acyclic	322	....Plural rings containing
70	....Preparing by reacting hydrogen sulfide or a metal hydrosulfide	323	....Polycyclo ring system
71	.....And an organic hydroxy containing reactant (H of -OH may be replaced by a Group IA or IIA light metal)	324	.....Bicyclo ring system
		325	.....Naphthyl ring system
		326	....Alicyclic ring containing
		327	.....Five-membered alicyclic ring
		328	....Carbonyl bonded directly to benzene ring
72	.....And a reactant having carbon to carbon unsaturation	329	.....Two benzene rings bonded directly to the same carbonyl (i.e., benzophenones)
73	.....Boron, phosphorus, or silicon containing material utilized	330	.....Oxy containing
74	..Halogen containing	331	.....Chalcones
75	..Oxygen containing	332	....Carbonyl bonded directly to benzene ring (i.e., acetophenones)
76	...Nitro or nitroso containing		....Oxy containing
77	..Ring containing	333	.....Oxy bonded directly to benzene ring
300	..OXYGEN CONTAINING (E.G., PERCHLORYLBENZENE, ETC.)	334	...Processes of preparing, purifying, or recovering alicyclic ring containing ketones
301	..Ketenes (e.g., halogenated ketenes, etc.)	335	....Camphor per se or salt thereof
302	..Ketene per se (i.e., HCH=C=O)	336	.....Purification or recovery
303	..Ketones	337	....Isomerization
304	...With preservative or stabilizer	338	....Carbon monoxide or peroxy containing reactant
305	...Nitrogen containing		....Aldehyde or ketone reactant
306	....Benzene ring containing		.....Oxidation utilizing gaseous oxygen
307	....Acyclic		....Aldehyde reacted with ketone
308	...Benzene ring containing	339	.....Reactant contains -COO- group
309	....Processes		.....Oxy containing reactant
310	.....Isomerization	340	
311	.....Carbon monoxide or peroxy containing reactant	341	
312	.....Aldehyde or ketone reactant	342	
313	.....Aldehyde reacted with ketone	343	
314	.....Reactant contains -COO- group	344	
315	.....Oxy containing reactant	345	

346	.....Reactant contains -COO- group	375	...Containing alicyclic ring having at least seven members
347	.....Oxy containing reactant	376	...Six-membered alicyclic ring containing
348	.....Halogen containing reactant	377	...Unsaturation in the ring
349	.....Acyclic unsaturated hydrocarbon reactant	378	.....2,6,6-Trialkylcyclohexenyl (e.g., vitamin A derivatives, etc.)
350	.....Gaseous hydrogen reactant or Group IA or IIA light metal containing material utilized	379	...Five-membered alicyclic ring containing
351	.....Nitrogen containing material utilized	380	...Halogen containing
352	.....Boron, phosphorus, or sulfur containing material utilized	381	...Four-membered alicyclic ring containing
353	.....Ketone reacted with ketone	382	...Acyclic
354	....Reactant contains -COO- group	383	....Processes
355	.....Plural -COO- groups in the reactant	384	.....Isomerization
356	.....Carbon to carbon unsaturation in the reactant	385	.....Peroxy containing reactant
357	....Oxidation of organic compound utilizing gaseous oxygen	386	.....Ring containing reactant
358	.....Plural stages each having oxidation	387	.....Carbon monoxide reactant
359	.....Boron containing material utilized	388	.....Aldehyde or ketone reactant
360	.....Heavy metal containing material utilized	389	.....Oxidation of organic compound utilizing gaseous oxygen
361	....Oxy containing reactant	390	.....Aldehyde reacted with ketone
362	.....Phenol containing reactant	391	.....Oxy containing reactant
363	.....Inorganic oxygen containing reactant	392	.....The oxy and the aldehyde or ketone are in the same reactant
364	....Halogen containing reactant	393	.....Halogen containing reactant
365	....Unsaturated hydrocarbon reactant	394	.....The halogen and the aldehyde or ketone are in the same reactant
366	....Purification or recovery	395	.....Acyclic unsaturated hydrocarbon reactant
367	...Plural alicyclic rings containing	396	.....Gaseous hydrogen reactant or Group IA or IIA light metal containing material utilized
368	....Polycyclo ring system	397	....Reactant contains -COO- group
369	.....Tetracyclo ring system (e.g., homo steroids, etc.)	398	.....Carbon to carbon unsaturation in the reactant
370	.....The tetracyclo ring system consists of two five-membered and two six membered cyclos (e.g., B-nor-testosterone, etc.)	398.8	....Oxidation of hydrocarbon mixtures
371	.....The six-membered rings are fused to each other (e.g., A-nor-progesterone, etc.)	399	....Oxidation of organic compound utilizing gaseous oxygen
372	.....The tetracyclo ring system consists of four six-membered cyclos (e.g., D homo-androstane, etc.)	400	.....Unsaturated acyclic hydrocarbon reactant
373	.....Tricyclo ring system	401	.....Ag, Au, Pd, Pt, Rh, Ir, Ru, or Os containing catalyst utilized
374	.....Bicyclo ring system	402	.....Hydroxy containing reactant
		403	.....Oxy containing reactant

404	.....Phosphorus, sulfur, or halogen containing material utilized	438	.....Purification or recovery
405	.....Ether or polyhydroxy containing compound utilized	439	....Polycyclo ring system
406	.....Aluminum or silicon containing material utilized	440	.....Bicyclo ring system
407	....Halogen containing reactant	441	.....Oxy containing
408	....Carbon to carbon unsaturation in reactant	442	....Oxy containing
409	.....Acetylenic unsaturation in the reactant	443	...Preparing alicyclic ring containing aldehyde by isomerization
410	....Purification or recovery	444	...Preparing alicyclic ring containing aldehyde by hydroformylation by reacting ethylenically unsaturated compound, carbon monoxide, and gaseous hydrogen only
411	.....Acetone or haloacetone purified or recovered	445	...Polycyclo-alicyclic ring system
412	....Plural carbonyls containing	446	...Unsaturated alicyclic ring containing
413	.....Oxy containing	447	....2,6,6-Trialkylcyclohexenyl (e.g., vitamin A derivatives, etc.)
414	....Oxy or peroxy containing	448	...Acyclic
415	....Carbon to carbon unsaturation containing	449	....Processes
416	.....Halogen containing	450	.....Isomerization
417	....Carbon to carbon unsaturation containing	451	....Hydroformylation by reacting ethylenically unsaturated compound, carbon monoxide, and gaseous hydrogen
418	.....Halogen containing	452	.....Dimer produced
419	....Halogen containing	453	.....Plural stages each having hydroformylation
420	..Aldehydes	454	.....Group VA element (N, P, As, Sb, or Bi) containing material utilized (e.g., arsenic containing ligand utilized, etc.)
421	...With preservative or stabilizer	455	.....Nitrogen containing material utilized
422	....Formaldehyde with preservative or stabilizer	456	.....Metal or metal containing compound filtered, precipitated, or deposited
423	...Nitrogen containing	457	....Formaldehyde polymer reactant
424	....Benzene ring containing	458	.....Aldehyde reactant
425	...Benzene ring containing	459	.....Carbon to carbon unsaturation in the aldehyde prepared
426	....Processes	460	.....Oxy or -COO- containing reactant
427	.....Isomerization	461	.....Aldehyde reacted with aldehyde
428	.....Carbon monoxide reactant (e.g., carbonylation, etc.)	462	.....Gaseous hydrogen reactant
429	.....Hydroformylation by reacting ethylenically unsaturated compound, carbon monoxide and gaseous hydrogen	463	.....Aldehyde reacted with aldehyde (e.g., aldol condensation, etc.)
430	.....Ozone reactant or peroxy containing reactant		
431	.....Oxidation of organic compound utilizing gaseous oxygen		
432	.....Oxy containing aldehyde formed		
433	....Aldehyde reactant		
434	.....Gaseous hydrogen reactant		
435	....Reactant contains -COO- group		
436	.....Nitrogen containing material utilized		
437	.....Halogen containing reactant		

464	.....Aldehyde reacted with diverse aldehyde	493	.....Of formaldehyde per se
465	.....Oxy or -COO- containing reactant	494	....Plural carbonyls containing
466	.....Hydrogen halide or elemental halogen reactant	495	....Halogen containing
467	.....Acetylene reactant	496	....Oxy containing
468	.....Mercury containing catalyst utilized	497	.....Polyoxy
469	.....Ozone reactant	557	..Oxonium (e.g., beryllium hydride etherate, etc.)
469.9	.....Oxidation of hydrocarbon mixtures	558	..Peroxy bonded directly to carbon
470	.....Oxidation of organic compound utilizing gaseous oxygen	559	...With preservative or stabilizer
471	.....Organic hydroxy containing reactant	560	...Halogen containing
472	.....Methanol reactant	561	...Plural peroxy groups
473	.....Silver containing catalyst utilized	562	....Purification or recovery
474	.....Molybdenum containing catalyst utilized	563	....Additional oxygen containing
475	.....Acyclic hydrocarbon reactant	564	....Hydroperoxy containing
476	.....Carbon to carbon unsaturation in the reactant and in the aldehyde prepared	565	.....Preparing by oxidation utilizing gaseous oxygen
477	.....Antimony or tin containing catalyst utilized	566	..Plural carbonyl groups bonded directly to the peroxy group (e.g., acetyl peroxide, etc.)
478	.....Ag, Au, Pd, Pt, Rh, Ir, Ru, or Os containing catalyst utilized	567	...Oxy containing
479	.....Molybdenum containing catalyst utilized	568	...Hydroperoxy containing
480	.....Catalyst contains phosphorus	569	....Preparing by oxidation utilizing gaseous oxygen
481	.....Selenium or tellurium containing material utilized	570	....Alicyclic hydroperoxide produced
482	.....Methane reactant	571	....Acyclic hydroperoxide produced
483	....Hetero ring containing reactant	572	....Pretreatment of material oxidized
484	....Reactant contains -COO- group	573	.....Initiator, accelerator, or catalyst utilized
485	....Oxy or peroxy containing reactant	574	.....Metal containing
486	.....Polyoxy containing reactant	575	.....Heavy metal
487	.....Methanol or ethanol reactant	576	....Purification or recovery
488	.....Halogen containing reactant	577	...Preparing by oxidation utilizing gaseous oxygen
489	.....Ag, Au, Pd, Pt, Rh, Ir, Ru, or Os containing material utilized	578	...Preparing by reacting an organic hydroperoxide and an organic hydroxy containing compound (H of -OH may be replaced by a Group IA or IIA light metal)
490	....Halogen containing reactant	579	..Ethers
491	....Water utilized as reactant	580	...With preservative or stabilizer
492	....Purification or recovery	581	....Acyclic ether preserved or stabilized
		582	....Nitrogen containing preservative or stabilizer
		583	...Nitrogen containing
		584	...Ether oxygen bonded directly to benzene ring
		585	.....Plural rings containing

586	.....Polyoxy	610	.....Halogen containing
587	.....Polyoxy	611	.....Plural rings containing
588	.....Halogen containing	612	....Polycyclo alicyclic ring system
589	....Acyclic	613	....Acyclic
590	.....Plural oxygens bonded directly to the same carbon (e.g., acetals, ketals, orthoesters, orthocarbonates, etc.)	614	.....Halogen containing
591	...Plural oxygens bonded directly to the same carbon (e.g., acetals, ketals, orthoesters, orthocarbonates, etc.)	615	.....Fluorine
592	....Benzene ring containing	616	.....Carbon to carbon unsaturation containing
593	.....Plural oxyalkylene groups bonded directly to each other	617	.....Polytetramethylene glycols
594	....Acyclic	618	.....Preparing from organic hydroxy containing compound (H of -OH may be replaced by a Group IA or IIA light metal)
595	.....At least three oxygens bonded directly to the same carbon ( e.g., orthoesters, etc.)	619	.....From polyhydroxy containing compound
596	.....Carbon to carbon unsaturation containing	620	.....And cyclic ether
597	.....Acetylenic unsaturation	621	.....Purification or recovery
598	.....At least three oxygens containing	622	.....Hydroxy containing (H of -OH may be replaced by a Group IA or IIA light metal)
599	.....One of the plural oxygens is in a hydroxy group (i.e., hemiacetals and hemiketals, wherein H of -OH may be replaced by a Group IA or IIA light metal)	623	.....Polyhydroxy containing
600	.....At least three oxygens containing	624	.....Plural diverse oxyalkylene groups containing
601	.....Plural oxyalkylene groups bonded directly to each other	625	.....Plural diverse oxyalkylene groups containing
602	.....Hydroxy bonded directly to each end of a chain which is polyoxymethylene only (e.g., paraformaldehyde, etc., wherein H of -OH may be replaced by a Group IA or IIA light metal)	626	...Benzene ring containing
603	.....Plural acetal or ketal groups (e.g., tetraacetals, etc.)	627	....Preparing by isomerization
604	.....Halogen containing	628	....Preparing by alkylation of benzene ring
605	.....Ion exchange resin or sulfuric acid utilized	629	....Preparing by hydroxylation of benzene ring
606	...Plural oxyalkylene groups bonded directly to each other	630	....Ether oxygen bonded directly to benzene ring
607	....Benzene ring containing	631	....Plural rings containing
608	.....Ether oxygen bonded directly to a benzene ring	632	.....Polycyclo ring system
609	.....Plural rings containing	633	.....Polyoxy
		634	.....Halogen containing
		635	.....Plural benzene rings bonded directly to the same oxygen
		636	.....Polyoxy
		637	.....Halogen containing
		638	.....Hydroxy containing (H of -OH may be replaced by a Group IA or IIA light metal)
		639	.....Halogen containing
		640	.....Plural benzene rings bonded directly to the same carbon
		641	.....Polyoxy and halogen containing
		642	.....Plural benzene rings bonded directly to each other
		643	.....Polyoxy
		644	.....Polyoxy
		645	.....Halogen containing

646	.....Acyclic carbon to carbon unsaturation containing	677	.....Fluorine
647	.....Halogen containing	678	.....Hydroxy containing (H of -OH may be replaced by a Group IA or IIA light metal)
648	.....Polyoxy	679	.....Polyether
649	.....Halogen containing	680	.....Polyhydroxy
650	.....Hydroxy bonded directly to the benzene ring (H of -OH may be replaced by a Group IA or IIA light metal)	681	...Halogen containing
651	.....Plural ether oxygens bonded directly to the benzene ring	682	.....Purification or recovery
652	.....Ether oxygen is ortho to the hydroxy	683	.....Fluorine
653	.....Guaiacol per se or salt thereof	684	.....Additional diverse halogen containing
654	.....Acyclic carbon to carbon unsaturation containing	685	.....Carbon to carbon unsaturation containing
655	.....Halogen containing	686	.....Carbon to carbon unsaturation containing
656	.....Halogen bonded directly to the benzene ring	687	...Carbon to carbon unsaturation containing
657	.....Aryl-oxy-alkenyl or aryl-oxy-alkynyl	688	.....Preparing by reacting an acyclic acetylenically unsaturated compound and an organic hydroxy containing compound (H of -OH may be replaced by a Group IA or IIA light metal)
658	.....Acyclic hydrocarbonyl group bonded directly to the benzene ring	689	.....Preparing by reacting an acyclic ethylenically unsaturated compound and an organic hydroxy containing compound (H of -OH may be replaced by a Group IA or IIA light metal)
659	...Plural rings containing	690	.....Noble metal containing catalyst utilized
660	.....Polyoxy	691	.....Preparing from an acetal or ketal
661	.....Halogen containing	692	.....Preparing by dehydrohalogenation
662	.....Polyoxy	693	.....Purification or recovery
663	...Halogen containing	694	...Preparing by hydration of an olefin
664	...Plural alicyclic rings containing	695	.....Metal containing catalyst utilized
665	...Polycyclo ring system	696	.....Sulfuric acid utilized
666	...Alicyclic terpenic wherein the number of carbons is a multiple of five	697	...Preparing by reacting an olefin and an organic hydroxy containing compound (H of -OH may be replaced by a Group IA or IIA light metal)
667	...Unsaturated alicyclic ring containing	698	...Preparing by dehydration of an organic hydroxy containing compound (H of -OH may be replaced by a Group IA or IIA light metal)
668	...2,6,6-trialkylcyclohexenyl (e.g., vitamin A derivatives, etc.)	699	...Purification or recovery
669	...Alicyclic ring and halogen containing		
670	...Alicyclic ring and polyoxy containing		
671	...Acyclic		
672	.....Polyoxy		
673	.....Carbon to carbon unsaturation containing		
674	.....Halogen containing		
675	.....Hydroxy containing (H of -OH may be replaced by a Group IA or IIA light metal)		
676	.....Halogen containing		

700	..Hydroxy containing (H of -OH may be replaced by a Group IA or IIA light metal)	736	.....Acyclic hydrocarbyl group bonded directly to the bicyclo ring system
701	...With preservative or stabilizer	737	.....Halogen or polyhydroxy containing
702	....Benzene ring containing compound preserved	738	.....Preparing from aryl sulfonate
703	.....Acyclic polycarbon hydrocarbyl group bonded directly to the benzene ring	739	.....Preparing from compound which includes halogen bonded directly to a benzene ring
704	...Nitrogen containing	740	.....Preparing by dehydrogenation
705	....Benzene ring containing	741	.....Preparing from peroxide or preparing by oxidation
706	.....Phenols (H of -OH may be replaced by a Group IA or IIA light metal)	742	.....Purification or recovery
707	.....Plural rings containing	743	.....The additional ring is six-membered
708	.....Purification or recovery	744	.....The additional ring is benzene
709	.....Halogen containing	745	.....Halogen containing
710	.....Polynitro	746	.....Rings bonded directly to each other
711	.....Dinitro	747	.....Rings bonded directly to each other
712	....Polyhydroxy nitro containing	748	.....Purification or recovery
713	....Halogen containing	749	....Purification or recovery
714	...Hydrophenanthrene containing	750	.....From mixture of phenols
715	...Benzene ring containing	751	.....Plural phenols recovered separately
716	....Phenols (H of -OH may be replaced by a Group IA or IIA light metal)	752	.....Three or more phenols recovered
717	.....Polyphenols	753	.....Of polyhydroxy phenol
718	.....Three or more rings containing	754	.....Of phenol prepared by cleavage of hydroperoxide or other peroxide
719	.....Polycyclo ring system	755	.....Of halogen containing phenol
720	.....Three or more phenols containing	756	.....Of phenol having acyclic polycarbon hydrocarbyl group bonded directly to the benzene ring
721	.....Alicyclic ring containing	757	.....Nitrogen or phosphorus containing compound utilized
722	.....Two phenols bonded directly to the same carbon	758	.....Sorbent material utilized
723	.....Identical phenols	759	.....From substance which includes sulfur or a sulfur containing compound
724	.....Purification or recovery	760	.....From ammoniacal liquor
725	.....Halogen containing	761	.....From oil or tar derived from fossil fuel or wood
726	.....Halogen containing	762	.....Alkali metal hydroxide utilized
727	.....Preparing from a phenol and an aldehyde or ketone	763	....Polyhydroxy (H of -OH may be replaced by a Group IA or IIA light metal)
728	.....Isopropylidene diphenol produced		
729	.....Two phenols bonded directly to two different carbons of an acyclic chain		
730	.....Two phenols bonded directly to each other		
731	....Additional ring containing		
732	.....Polycyclo ring system		
733	.....Tricyclo ring system		
734	.....Bicyclo ring system		
735	.....Naphthols		

764	.....Hydroxymethyl group containing	794	.....Heavy metal or aluminum containing catalyst
765	.....Halogen containing	795	.....Preparing from aryl sulfonate
766	.....Acyclic polycarbon hydrocarbyl group bonded directly to the benzene group	796	.....Preparing from compound which includes halogen bonded directly to a benzene ring
767	.....Preparing from nitrogen containing compound	797	.....Catalyst utilized
768	.....Preparing by cleavage of hydroperoxide or other peroxide	798	.....Preparing by cleavage of hydroperoxide or other peroxide
769	.....Preparing from aryl sulfonate	799	.....Preparing by reduction or dehydrogenation (e.g., by hydrogenation, etc.)
770	.....Preparing from compound which includes halogen bonded directly to a benzene ring	800	.....Preparing by oxidation
771	.....Preparing by oxidation	801	.....Of compound which contains a benzene ring and a -COO- group
772	.....Preparing by reduction or dehydrogenation (e.g., by hydrogenation, etc.)	802	.....Molecular oxygen utilized
773	.....Preparing hydroquinones from an acetylene and carbon monoxide	803	.....Peroxide or peracid utilized
774	.....Halogen containing	804	.....Preparing by methylation
775	.....Fluorine or iodine	805	.....Preparing by dealkylation
776	.....Three or more halogens bonded directly to the ring	806	.....Preparing by pyrolysis (e.g., by cracking, etc.)
777	.....Preparing by hydrolysis	807	...Additional ring containing
778	.....Preparing by hydrolysis	808	.....Polycyclo ring system
779	.....Preparing by halogenation	809	.....Plural benzene rings bonded directly to the same carbon
780	.....Acyclic polycarbon hydrocarbyl group bonded directly to the benzene ring	810	...Purification or recovery
781	.....Isopropyl or isopropenyl group	811	...Polyhydroxy (H of -OH may be replaced by a Group IA or IIA light metal)
782	.....Preparing by reduction (e.g., by hydrogenation, etc.)	812	...Halogen containing
783	.....Preparing by isomerization	813	...Acyclic carbon to carbon unsaturation containing
784	.....Tertiary butyl group	814	...Preparing by reduction (e.g., by hydrogenation, etc.)
785	.....Preparing by catalytic alkylation	815	...Preparing from a peroxide or preparing by oxidation
786	.....Silicon containing catalyst	816	...Plural alicyclic rings containing
787	.....Boron containing catalyst	817	...Polycyclo ring system
788	.....Sulfur containing catalyst	818	.....Adamantane ring system
789	.....Heavy metal or aluminum containing catalyst	819	.....Bicyclo ring system
790	.....Preparing by catalytic alkylation	820	.....The two cyclos share at least three ring carbons (i.e., bridged ring)
791	.....Silicon containing catalyst	821	...Containing alicyclic ring having at least seven members
792	.....Boron containing catalyst	822	...Six-membered alicyclic ring containing
793	.....Sulfur containing catalyst	823	...Unsaturation in the ring
		824	.....2,6,6-trialkylcyclohexenyls (e.g., vitamin A, etc.)

825	.....Single hydroxy containing (H of -OH may be replaced by a Group IA or IIA light metal)	853	.....Polyalkylol substituted alkane (e.g., pentaerythritol, trimethylolethane, ect.)
826	.....The hydroxy is attached indirectly to the ring	854	.....Purification or recovery
827	.....Terpineol	855	.....Acetylenically unsaturated
828	....Carbon to carbon unsaturation in substituent	856	.....Purification or recovery
829	...Menthols (H of -OH may be replaced by a Group IA or IIA light metal)	857	.....Ethylenically unsaturated
830	....Preparing by reduction (e.g., by hydrogenation, etc.)	858	....Preparing by alcoholysis, hydrolysis or saponification of an ester
831	...Methylol cyclohexane (H of -OH may be replaced by a Group IA or IIA light metal)	859	....Preparing by hydrolysis or saponification of alkyl polyhalide or halohydrin
832	....Hydroxy bonded directly to the ring (e.g., terpin hydrate, etc.) (H of -OH may be replaced by a Group IA or IIA light metal)	860	....Preparing by hydroxylation at point of ethylenic unsaturation
833	.....Cyclohexane polyol (e.g., inositol, etc.)	861	....Preparing by reduction (e.g., by hydrogenation, etc.)
834	.....Polycarbon alkyl group containing	862	.....Of aldehyde or ketone
835	.....Cyclohexanol per se	863	.....Of polyhydroxy aldehyde or polyhydroxy ketone (e.g., of carbohydrate, glyceraldehyde, etc.)
836	.....Preparing by oxidation	864	.....Of compound containing a -COO- group
837	.....Boron containing material utilized	865	.....Of ether
838	...Five-membered alicyclic ring containing	866	....Preparing from ether
839	...Four-membered alicyclic ring containing	867	.....From alkylene oxide
840	...Acyclic	868	....Purification or recovery
841	...Halogen containing	869	.....Of glycerol
842	.....Fluorine containing	870	.....Ion exchange or sorbent material utilized
843	.....Carbon to carbon unsaturation containing	871	.....Of spent ethylene glycol from polyester production
844	....Polyhydroxy or polyhalogen (H of -OH may be replaced by a Group IA or IIA light metal)	872	.....Ion exchange or sorbent material utilized
845	.....Carbon to carbon unsaturation containing	873	...Acetylenically unsaturated
846	.....Preparing from aldehyde or ketone	874	....Preparing from carbonyl containing compound
847	.....Preparing from alkenyl halide	875	...Terpenic, wherein the number of carbons is a multiple of five (e.g., linalool, farnesol, etc.)
848	.....Preparing from alkenol	876	...Preparing from carbonyl containing compound
849	....Carbon to carbon unsaturation containing	877	....By alcoholysis, hydrolysis, or saponification of an ester
850	....Preparing from ethylenically unsaturated compound	878	....From aldehyde or ketone
851	...Oxy bonded directly to a Group IA or IIA light metal)	879	.....By reaction of aldehyde with olefin (i.e., by Prins reaction)
852	...Polyhydroxy	880	.....By reduction (e.g., by hydrogenation, etc.)
		881	.....Catalyst utilized

882	.....Including hydroformylation	909	....Preparing by carbonylation (e.g., by hydroformylation, etc.)
883	.....Supported hydrogenation catalyst utilized	909.5	....Ethylenic unsaturation containing
884	.....By reduction (e.g., by hydrogenation, etc.)	909.8	....Preparing from organic peroxide or organic ozonide
885	.....Catalyst utilized	910	....Preparing by oxidation
886	....Preparing by alcoholysis, hydrolysis, or saponification of ester of polybasic inorganic acid	910.5	....Of hydrocarbon mixtures
887	.....Boric acid	911	....Of metal containing compound
888	.....Hydroxy compound produced has from one to six carbons	912	....Boron containing catalyst utilized
889	.....Isopropanol	913	....Purification or recovery
890	.....Ethanol	914	....By reduction (e.g., by hydrogenation, etc.)
891	....Preparing by hydrolysis of organic halide	915	....By oxidation
892	.....Ethylenically unsaturated hydroxy compound produced	916	....By dehydration
893	.....Including producing the organic halide reactant	917	....By sorption
894	.....Additional organic compound in reaction mixture	918	....By plural liquid phase separation
895	....Preparing by hydration of olefin	919	.....Alkali metal containing compound in one phase
896	.....Supported catalyst utilized	920	....Alkali or alkaline earth metal containing compound utilized
897	.....Aluminum containing catalyst utilized	921	.....Alkali metal hydroxide
898	.....Phosphorus containing catalyst utilized	922	....Heavy metal or aluminum containing compound utilized
899	.....Sulfur containing catalyst utilized	923	....By crystallization of hydroxy compound or by forming hydroxy containing addition compound
900	.....Heavy metal containing catalyst	924	..Nitro containing (including aci forms)
901	.....Chromium, molybdenum, or tungsten	925	...With preservative or stabilizer
902	....Preparing from organic hydroxy containing reactant	926	...Nitronic acid or Group IA or IIA light metal containing (e.g., aci forms, etc.)
902.2	.....By homologation (e.g., forming ethanol from methanol, etc.)	927	...Benzene ring containing
903	.....By reduction, dehydration, or cleavage	928	...Plural rings containing
904	.....Olefin reacted with the hydroxy containing reactant (e.g., preparing by telomerization, etc.)	929	.....Polycyclo ring system
905	.....By condensation (e.g., by Guerbet reaction, etc.)	930	.....Polynitro
906	.....By isomerization	931	.....Polynitro
907	....Preparing from ether	932	....Polynitro
908	.....Ethylenically unsaturated hydroxy compound produced	933	....Halogen containing
		934	....Single methyl and plural nitros only bonded directly to benzene ring (e.g., dinitrotoluene, etc.)
		935	.....Trinitrotoluene
		936	....Halogen containing
		937	....Halogen bonded directly to benzene ring

- 938 .....Plural halogens bonded directly to benzene ring
- 939 ....Nitro bonded directly to benzene ring
- 940 .....Methyl bonded directly to benzene ring (e.g., nitroxylyene, etc.)
- 941 ...Polycyclo-alicyclic ring system
- 942 ..Six-membered alicyclic ring containing
- 943 ...Acyclic
- 944 ....Polynitro
- 945 .....Halogen containing
- 946 ....Halogen containing
- 947 ....Nitroalkanes
- 948 .....Nitromethane
- 949 ..Nitroso containing
- 950 ..Processes of oxidizing nonaromatic hydrocarbons; or purification or recovery of the products of such processes
- 951 ...Peroxy containing material utilized
- 952 ..Nitrogen or silicon containing compound utilized
- 953 ...Plural stages each having oxidation
- 954 ...Liquid phase oxidation
- 955 ...Catalyst utilized
- 956 ....Heavy metal containing catalyst
- 957 .....Manganese containing catalyst
- 958 ..Purification or recovery
- 959 ..Oxidized hydrocarbons of undetermined structure

**FOREIGN ART COLLECTIONS**

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