This Class 534 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.

ORGANIC COMPOUNDS (CLASS 532, SUBCLASS 1)

7 .Noble gas containing (i.e., He, Ne, Ar, Kr, Xe, or Rn containing)
10 .RADIOACTIVE METAL CONTAINING (At. No. 43, 61 or 84+; or radioactive isotope of another metal)
11 ..Actinide series metal (At. No. 89+)
12 ...Containing -C(=X)-, wherein X is chalcogen (e.g., carbonyl containing, etc.)
13 ....The -C(=X)- is part of a -C(=X)X- group, wherein the X's are the same or diverse chalcogens
14 ..Technetium containing (At. No. 43; Tc)
15 .RARE EARTH METAL CONTAINING (At. No. 21, 39, 57-60 or 62-71)
16 ..Containing -C(=X)X-, wherein the X's are the same or diverse chalcogens
550 .Diazoamino (e.g., triazenes, etc.)
551 ..Hetero ring containing
552 ..Chalcogen or additional nitrogen bonded directly to the diazoamino group
553 ..Noncarbon atom double or triple bonded and the diazoamino group bonded directly to the same acyclic carbon
554 ..Plural benzene rings bonded directly to the diazoamino group
555 ..Processes
556 .Diazooxide or diazotate (e.g., -N=N-0-, etc.)
557 ..Sulfur attached directly to a ring by nonionic bonding
558 .Diazo or diazonium (e.g., -N=N-C, etc.)
559 ..With preservative or stabilizer
560 ..Hetero ring containing
561 ..Plural diazo or diazonium groups
562 ..Heavy metal or aluminum containing
563 ..Polycyclo ring system having at least three cyclos
564 ..Aldehyde or ketone group containing
565 ..Formation of diazonium group
566 .Azoxy
567 ..Hetero ring containing
568 ..Azodioxy
569 ..Heavy metal or aluminum containing
570 ..Sulfonic acid group containing (-(0=)S(=O)-OH, wherein H of -OH may be replaced by a substituted or unsubstituted ammonium ion or metal)
571 ...Stilbene containing
572 ..Formation of azoxy group
573 .Azo
574 ..Quaternary azo group containing
575 ..Specified crystalline form
576 ..With preservative or stabilizer
577 ..Liquid crystal (e.g., pleochroic, etc.)
578 ..Formation of azo group by oxidative coupling
579 ..Formation of azo group by simultaneous diazotization and coupling
580 ..Formation of azo group from diazoamino group
581 ..Formation of azo group by coupling diazonium compound with coupling component in presence of an additional organic compound
582 ..Formation of azo group by coupling diazonium compound with coupling component at a specified pH range
583 ..Formation of azo group by coupling diazonium compound with coupling component in presence of ammonia, a Group IIA light metal hydroxide or a Group IA or IIA light metal phosphate

584 ..Formation of azo group by coupling diazonium compound with coupling component in other than stoichiometric proportions
585 ..Formation of azo group by reduction of nitro group
586 ..Formation of azo group from group having nitrogen single bonded to nitrogen
587 ..Formation of azo group directly from nitrogen containing compound by process other than diazotization and coupling
588 ..Process utilizing azo compound as reactant
589 ...Formation of quaternary ammonium or hydrazinium group
590 ...Ring formation
591 ...Formation of -C(=X)HNH group, wherein X is chalcogen (substitution may be made for hydrogen only)
592 ...Formation of sulfonamide group
593 ...Additional reactant containing phosphorus or sulfur
594 ....Sulfonic acid group formed or added to the azo reactant (-(0=)S(=0)-OH, wherein H of -0H may be replaced by a substituted or unsubstituted ammonium ion or metal)
595 ...Formation of -C(=X)X- ester group, wherein the X's may be the same or diverse chalcogens
596 ...Etherification of hydroxy group
597 ...Replacement of halogen by cyano group
598 ...Replacement of halogen by amino nitrogen
599 ...Hydrolysis
600 ...Reduction of nitro or nitrogen oxide group
601 ...Nitration
602 ...Metallization of the azo reactant in presence of an additional organic compound
603 ..Quaternary ammonium or hydrazinium attached indirectly to an azo group by nonionic bonding
604 ...Hetero ring containing
605 ....The pentavalent nitrogen is a ring member
606 .....Azo bonded directly to a hetero ring or to a polycyclo ring system having a hetero ring as one of the cyclos
607 ......The hetero ring contains the pentavalent nitrogen
608 ....Plural azo groups in the same azo moiety attached indirectly to each other by nonionic bonding
609 ....Acyclic carbon bonded directly to the azo group
610 ....Additional hetero ring or polycyclo ring system having a hetero ring as one of the cyclos bonded directly to the azo group
611 ....The hetero ring is one of the cyclos in a polycyclo ring system
612 .....Acyclic -C(=X)-, wherein X is chalcogen, attached directly or indirectly to the hetero ring by nonionic bonding
613 ...Heavy metal or aluminum containing
614 ...Plural azo groups attached indirectly to each other by nonionic bonding
615 ...Plural nitrogens bonded directly to the same alkylene chain (e.g., diamino alkylene, etc.)
616 ..Nitrogen oxide, other than as nitro or nitroso, containing
617 ..Fiber- or substrate-reactive azo compound
618 ...Formazan containing (i.e., HNH-N=CH-N=NH, wherein substitution may be made for hydrogen only)
619 ...Heavy metal or aluminum containing
620 ....Halogen attached directly to a hetero ring or to an alicyclic ring by nonionic bonding
621 .....Stilbene containing
622 .....The hetero ring is six-membered and contains at least two nitrogens

623 .....Diverse azo moieties bonded to the same metal
624 .....At least two such hetero rings attached indirectly to each other by nonionic bonding
625 .....Plural azo groups in the same azo moiety attached indirectly to each other by nonionic bonding
626 .....Chalcogen or carbon bonded directly to the six-membered hetero ring and is between the hetero ring and the azo group
627 .....Plural halogens attached directly to the hetero ring by nonionic bonding
628 .....Diverse hetero ring containing
629 ....Alkylene, alkenyl or alkenylene bonded directly to sulfonyl or sulfonamide, which sulfonyl or sulfonamide is between a ring and the alkylene, alkenyl or alkenylene
630 ...Halogen attached directly to a hetero ring or to an alicyclic ring by nonionic bonding
631 ....Stilbene containing
632 ....The hetero ring is six-membered and contains at least two nitrogens
633 .....Polycyclo ring system having the hetero ring as one of the cyclos
634 .....At least two such hetero rings attached indirectly to each other by nonionic bonding
635 .....Additional hetero ring containing
636 .....Pyrazole containing (including hydrogenated)
637 .....Plural azo groups attached indirectly to each other by nonionic bonding
638 .....The hetero ring and benzene ring, to which an azo group is bonded directly, bonded directly to the same nitrogen
639 ...Aziridine containing (including unsaturated)
640 ...Alkylene, alkenyl, alkenylene, alkynyl or alkynylene attached directly or indirectlyto a ring by nonionic bonding
641 ....Alkylene, alkenyl or alkenylene bonded directly to sulfonyl or sulfonamido, which sulfonyl or sulfonamido is between a ring and the alkylene, alkenyl or alkenylene
642 .....The alkylene, alkenyl or alkenylene and the ring are both bonded directly to the same sulfonyl group
643 ....Alkylene, alkenyl or alkenylene bonded directly to carboxamido, urea or -C(=X)-, wherein X is chalcogen, which group is between a ring and the alkylene, alkenyl or alkenylene
644 ....Alkylene, alkenyl or alkenylene and a ring bonded directly to the same chalcogen or to plural chalcogens which are bonded directly to each other
645 ..Plural sulfonyl groups bonded directly to same amino nitrogen (e.g., sulfonylaminosulfonyl, etc.)
646 ..Sulfonyl and carbonyl bonded directly to the same amino nitrogen (e.g., sulfonylaminocarbonyl, etc.)
647 ..Plural amino nitrogens bonded directly to the same sulfonyl (e.g., aminosulfonylamino, etc.)
648 ..Alkyl, having at least eight carbons specified, or plural alkyl chains, each having at least five carbons specified, bonded directly to a ring, which ring is attached directly or indirectly to an acyclic carbon chain, which chain is bonded directly to a urea or carboxamide nitrogen that is between the chain and an additional ring
649 ..Alkyl chain having at least eight carbons specified bonded directly to a ring
650 ..Sulfonyl or -C(=X)-, wherein X is chalcogen, between a ring and an alkyl chain having at least eight carbons specified

651 ...The sulfonyl or -C(=X)- is bonded directly to the ring
652 ..Formazan containing (i.e., HNH-N=CH-N=NH, wherein substitution may be made for hydrogen only)
653 ..Polycyclo carbocyclic ring system having at least three cyclos
654 ...The polycyclo ring system consists of three six-membered cyclos and has plural oxygens bonded directly thereto
655 ....Hetero ring containing
656 ....At least two such ring systems having plural oxygens bonded directly thereto
657 ...The polycyclo ring system has no azo group bonded directly thereto
658 ...Chalcogen double bonded directly to the polycyclo ring system
659 ..Bicyclo carbocyclic ring system consisting of a six-membered ring and a five-membered ring (e.g., indane, etc.
660 ..Hydroxy and carbonyl of -C00- bonded directly to a monocyclic benzene ring (H or hydroxy may be replaced by a substituted or unsubstituted ammonium ion or a metal)
661 ...Heavy metal or aluminum containing
662 ....Hetero ring containing
663 ....Plural azo groups in the same azo moiety attached indirectly to each other by nonionic bonding
664 ...Hetero ring containing
665 ....Azo bonded directly to the hetero ring or to a polycyclo ring system which contains the hetero ring as one of the cyclos
666 ...At least three azo groups attached indirectly to each other by nonionic bonding
667 ....Plural monocyclic benzene rings, each having hydroxy and carbonyl of -COO- bonded directly thereto
668 ....Additional monocyclic benzene ring having plural hydroxy groups, hydroxy and nitrogen, or plural nitrogens bonded directly thereto, wherein the nitrogen is other than as nitro, nitroso or azo
669 ....Additional -C(=X)-, wherein X is chalcogen
670 ...Two azo groups attached indirectly to each other by nonionic bonding
671 ....Sulfonic acid group containing (-(0=)S(=0)-OH, wherein H of -OH may be replaced by a substituted or unsubstituted ammonium ion or metal)
672 .....Plural monocyclic benzene rings, each having hydroxy and carbonyl of -COO- bonded directly thereto
673 .....Additional -C(=X)-, wherein X is chalcogen
674 ...Sulfonic acid group containing (-(0=)S(=0)-OH, wherein H of -OH may be replaced by a substituted or unsubstituted ammonium ion or metal)
675 ....Azo attached indirectly to the monocyclic benzene ring by nonionic bonding
676 ..Plural -HNH groups or -OH and -HNH bonded directly to a monocyclic benzene ring (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or metal)
677 ...Plural azo groups in the same azo moiety attached indirectly to each other by nonionic bonding
678 ....Sulfonic acid group containing (-(0=)S(=0)-OH, wherein H of -OH may be replaced by a substituted or unsubstituted ammonium ion or metal)
679 .....Plural monocyclic benzene rings, each having -OH and -HNH or plural -HNH groups bonded directly thereto
680 .....Exactly three azo groups attached indirectly to each other by nonionic bonding

681 ...Sulfonic acid group containing (-(0=)S(=0)-OH, wherein H of -OH may be replaced by a substituted or unsubstituted ammonium ion or metal)
682 ..Plural hydroxy groups or esters thereof bonded directly to a monocyclic benzene ring (H of hydroxy may be replaced by a substituted or unsubstituted ammonium ion or metal)
683 ...Azo bonded directly to the benzene ring
684 ....Heavy metal or aluminum containing
685 ....At least three azo groups attached indirectly to each other by nonionic bonding
686 .....Hetero ring containing
687 .....Plural monocyclic benzene rings, each having plural hydroxy groups or esters thereof bonded directly thereto
688 ....Two azo groups attached indirectly to each other by nonionic bonding
689 ..Stilbene containing
690 ...Heavy metal or aluminum containing
691 ...Hetero ring containing
692 ..Heavy metal or aluminum containing
693 ...Amine salt
694 ...Arsenic containing
695 ...Azo moiety and moiety which contains acyclic -CH=N- group bonded to the same metal
696 ...Diverse azo moieties bonded to the same metal
697 ....Hetero ring containing
698 .....Hetero ring in each azo moiety
699 ....Plural azo groups in the same azo moiety attached indirectly to each other by nonionic bonding
700 ...Azo bonded directly to an acyclic carbon which is bonded directly to two acyclic carbons, each of which is double or triple bonded to an atom
701 ...Hetero ring containing
702 ....Polycyclo ring system containing the hetero ring as one of the cyclos
703 .....Azo bonded directly to the polycyclo ring system
704 ......The azo group is attached indirectly in the same azo moiety to an additional azo group or to an acyclic chain which contains a -CH=N- group by nonionic bonding
705 ......Plural ring nitrogens in the polycyclo ring system
706 ......Quinoline or isoquinoline containing (including hydrogenated)
707 ....Azo bonded directly to the hetero ring
708 .....At least three azo groups in the same azo moiety attached indirectly to each other by nonionic bonding
709 .....Two azo groups in the same azo moiety attached indirectly to each other by nonionic bonding
710 .....Pyrazole (including hydrogenated)
711 ......Sulfonyl bonded directly to a ring
712 ....Additional chalcogen bonded directly to the sulfonyl
713 ...Benzene ring containing
714 ....At least three azo groups in the same azo moiety attached indirectly to each other by nonionic bonding
715 .....Plural monocyclic benzene rings attached directly to each other by nonionic bonding and are between azo groups
716 ....Two azo groups in the same azo moiety attached indirectly to each other by nonionic bonding
717 .....Containing -C(=X)-, wherein X is chalcogen (e.g., carbonyl, etc.)
718 ......Plural monocyclic benzene rings attached directly or indirectly to each other by acyclic nonionic bonding and are between the azo groups

719 .....Plural monocyclic benzene rings attached directly or indirectly to each other by acyclic nonionic bonding and are between the azo groups
720 ....Containing -C(=X)-, wherein X is chalcogen (e.g., carbonyl, etc.)
721 .....Nitrogen bonded directly to the -C(=X)- group (e.g., carboxamide, etc.)
722 ....Plural bicyclo carbocyclic ring systems bonded directly to the azo group
723 ....Sulfonyl bonded directly to amino nitrogen (e.g., sulfonamide, etc.)
724 ....Sulfonic acid group containing (-(0=)S(=0)-OH, wherein H of -OH may be replaced by the ammonium ion or a metal)
725 .....Amino nitrogen containing
726 ..Boron or silicon containing
727 ..Phosphorus attached indirectly to an azo group by nonionic bonding
728 ..Amine salt
729 ..Chain containing at least fifteen alkylene oxide groups
730 ..Sulfonic acid ester group containing
731 ...Hetero ring containing
732 ..Nitrogen, other than as azo, and chalcogen or -C(=X)X- bonded directly to a -C(=X)- group, wherein the X's may be the same or diverse chalcogens (e.g., carbamic, allophanic, etc.)
733 ...Hetero ring cntaining
734 ..Halogen bonded directly to sulfur or to a -C(=X)- group, wherein X is chalcogen
735 ..Containing acyclic -XCN or -NCX, wherein X is chalcogen (e.g., thiocyanato, isocyanato, etc.)
736 ..Thiosulfuric acid group containing (-S-(0=)S(=0)-OH, wherein H of the -OH may be replaced by the ammonium ion or Group IA or IIA light metal)
737 ..Cyano and carbon bonded directly to acyclic nitrogen
738 ..Acyclic chain which contains -CH=N- (substitution may be made for hydrogen only)
739 ..Azo bonded directly to an acylic carbon which is bonded directly to two acyclic carbons, each of which is double or triple bonded to an atom
740 ...Hetero ring or polycyclo ring system which contains a hetero ring as one of the cyclos bonded directly to an azo group
741 ...Hetero ring attached indirectly to an azo group by nonionic bonding
742 ....The acyclic carbon, to which the other two acyclic carbons are bonded, is between the hetero ring and the azo group
743 ...At least three azo groups attached indirectly to each other by nonionic bonding
744 ...Two azo groups attached indirectly to each other by nonionic bonding
745 ....Each azo group is bonded directly to an acyclic carbon which is bonded directly to two acyclic carbons, each of which is double or triple bonded to an atom
746 .....Plural benzene rings bonded directly to each other and are between the azo groups
747 ......Each benzene ring is bonded directly to an azo group
748 .....Plural amino nitrogens bonded directly to a benzene ring which is between the azo groups
749 ...Sulfonyl bonded directly to nitrogen
750 ...Having -C(=X)-, wherein X is chalcogen, attached indirectly by nonionic bonding to the acyclic carbon to which the other two acyclic carbons are bonded
751 ..Hetero ring containing
752 ...Polycyclo ring system having a hetero atom shared by at least two rings or at least two hetero atoms which are not members of the same ring

753 ...Azo bonded directly to the hetero ring or to a polycyclo ring system which contains the hetero ring as one of the cyclos
754 ....At least three azo groups attached indirectly to each other by nonionic bonding
755 .....Additional hetero ring or polycyclo ring system which contains a hetero ring as one of the cyclos bonded directly to an azo group
756 ....Two azo groups attached indirectly to each other by nonionic bonding
757 .....Additional hetero ring or polycyclo ring system which contains a hetero ring as one of the cyclos bonded directly to an azo group
758 ......Both hetero rings or polycyclo ring systems are between the azo groups
759 ......Plural monocyclic benzene rings, each bonded directly to an azo group, are between the azo groups
760 ....The benzene rings are bonded directly to each other
761 .....Both azo groups are bonded directly to the hetero ring or to the polycyclo ring system
762 .....Polycyclo ring system having at least three cyclos, at least one of which is a hetero ring
763 .....Bicyclo carbocyclic ring system
764 .....Additional ring bonded directly to the hetero ring or to the polycyclo ring system
765 ....Additional hetero ring or polycyclo ring system which contains a hetero ring as one of the cyclos bonded directly to the azo group
766 .....The hetero ring is six-membered and contains nitrogen (e.g., pyridine, etc.)
767 ......The hetero ring contains at least two nitrogens (e.g., pyrimidine, etc.)
768 ......The hetero ring is in a bicyclo ring system (e.g., quinoline, benzomorpholine, etc.)
769 .....Pyrazole (including hydrogenated)
770 ....The hetero ring is six-membered and consists of one nitrogen and five carbons (e.g., pyridine, etc.)
771 .....Acyclic oxygen bonded directly to the hetero ring
772 ......Plural acyclic chalcogens bonded directly to the hetero ring at the two positions adjacent to the ring nitrogen
773 .....Plural acyclic nitrogens, other than as nitro, nitroso or azo, bonded directly to the hetero ring at the two positions adjacent to the ring nitrogen
774 ....Additional hetero ring attached indirectly to the azo group by nonionic bonding
775 .....The additional hetero ring or a polycyclo ring system which contains the additional hetero ring as one of the cyclos is bonded directly to a ring, which ring is between the azo group and the additional hetero ring
776 .....A ring and the additional hetero ring or a polycyclo ring system which contains the additional hetero ring as one of the cyclos are bonded directly to the same nitrogen
777 .....The additional hetero ring or a polycyclo ring system which contains the additional hetero ring as one of the cyclos is bonded directly to an alkylene chain, which chain is between the azo group and the additional hetero ring
778 ....Bicyclo carbocyclic ring system bonded directly to the azo group
779 .....The bicyclo carbocyclic ring system is between the azo group and an additional carbocyclic ring

780 .....Sulfonic acid group containing (-(0=)S(=0)-OH, wherein H of the -OH may be replaced by the ammonium ion or Group IA or IIA light metal)
781 ....Sulfonic acid group containing (-(0=)S(=0)-OH, wherein H of the -OH may be replaced by the ammonium ion or a Group IA or IIA light metal)
782 .....The hetero ring is one of the cyclos in a polycyclo ring system
783 .....Additional sulfonyl containing
784 ......Plural sulfonic acid groups
785 .....Containing acyclic -C(=X)-, wherein X is chalcogen
786 ......The -C(=X)- is bonded directly to nitrogen
787 ....The hetero ring is one of the cyclos in a polycyclo ring system
788 .....The hetero ring consists of sulfur, nitrogen and carbon (e.g., benzothiazole, etc.)
789 .....Chalcogen double bonded directly to the hetero ring
790 .....The hetero ring is five-membered and consists of one nitrogen and four carbons (e.g., indole, etc.)
791 ....Carbocyclic ring bonded directly to the hetero ring or to the polycyclo ring system which contains the hetero ring
792 .....Pyrazole containing (including hydrogenated)
793 ......Sulfonyl containing
794 ....Carbocyclic ring attached indirectly to the azo group by nonionic bonding
795 ....The hetero ring is five-membered and contains at least one atom each of sulfur, nitrogen and carbon
796 ...At least three azo groups attached indirectly to each other by nonionic bonding
797 ...Two azo groups attached indirectly to each other by nonionic bonding
798 ...Plural carbocyclic rings bonded directly to the azo group
799 ....The hetero ring or a polycyclo ring system which contains the hetero ring as one of the cyclos is bonded directly to one of the carbocyclic rings or to a bicyclo ring system which contains the carbocyclic ring as one of the cylcos
800 .....The hetero ring is one of the cyclos in a polycyclo ring system
801 ....The carbocyclic ring or a bicyclo ring system which contains the carbocyclic ring as one of the cyclos and the hetero ring or a polycyclo ring system which contains the hetero ring as one of the cyclos are bonded directly to the same carboxamide group
802 ....The carbocyclic ring or a bicyclo ring system which contains the carbocyclic ring as one of the cyclos and the hetero ring or a polycyclo ring system which contains the hetero ring as one of the cyclos are bonded directly to the same nitrogen atom
803 .....The hetero ring is six-membered and contains at least two nitrogens
804 ....The hetero ring or a polycyclo ring system which contains the hetero ring as one of the cyclos is bonded directly to an alkylene chain, which chain is between the hetero ring and the carbocyclic ring
805 ..Exactly five or exactly six azo groups attached indirectly to each other by nonionic bonding
806 ..Exactly four azo groups attached indirectly to each other by nonionic bonding
807 ...Plural nitrogens bonded directly to the same -C(=X)- group, wherein X is chalcogen (e.g., urea, thiourea, etc.)
808 ...Benzidine containing

809 ..Exactly three azo groups attached indirectly to each other by nonionic bonding
810 ...Containing -C(=X)-, wherein X, is chalcogen or nitrogen (e.g., carbonyl, etc.)
811 ....Nitrogen single bonded directly to the -C(=X)- group (e.g., carboxamide, guanyl, etc.)
812 .....Plural -C(=X)- groups containing
813 ...Benzidine containing
814 ....Hydroxy and nitrogen, other than as nitro, nitroso or azo, bonded directly to the same bicyclo ring system (H of hydroxy may be replaced by the ammonium ion or a Group IA or IIA light metal)
815 ...Hydroxy bonded directly to a bicyclo ring system (H of hydroxy may be replaced by the ammonium ion or a Group IA or IIA light metal)
816 ..Exactly two azo groups attached indirectly to each other by nonionic bonding
817 ...Plural benzene rings bonded directly to the same urea or thiourea group and are between the azo groups
818 ....Bicyclo ring system containing
819 ...Plural benzene rings bonded directly to the same carboxamide or sulfonamide group and are between the azo groups
820 ....Plural carboxamide groups between the azo groups
821 ...Plural benzene rings bonded directly to the same chalcogen or -C(=X)- group, wherein X is chalcogen, and are between the azo groups
822 ...Plural benzene rings bonded directly to each other and are between the azo groups
823 ....Containing -C(=X)-, wherein X is chalcogen (e.g., carbonyl, etc.)
824 ....Nitrogen, other than as nitro, nitroso or azo, attached indirectly to azo by nonionic bonding
825 .....Plural nitrogens, other than as nitro, nitroso or azo, attached indirectly to azo by nonionic bonding
826 ......Plural sulfonic acid groups bonded directly to the same bicyclo ring system (-(0=)S(=0)-OH, wherein H of the -OH may be replaced by the ammonium ion or a Group IA or IIA light metal)
827 ...Hydroxy bonded directly to a bicyclo ring system which is between the azo groups (H of hydroxy may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)
828 ....Plural bicyclo ring systems, each having hydroxy bonded directly thereto
829 ...Containing -C(=X)-, wherein X is chalcogen (e.g., carbonyl, etc.)
830 ....Hydroxy and the -C(=X)- are bonded directly to the same bicyclo ring system (H of hydroxy may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)
831 ...Plural benzene rings bonded directly to each azo group
832 ....At least one of the benzene rings is part of a bicyclo ring system
833 .....Each of the benzene rings is part of a bicyclo ring system
834 .....Hydroxy bonded directly to the bicyclo ring system (H of hydroxy may be replaced by the ammonium ion or a Group IA or IIA light metal)
835 ......Plural bicyclo ring systems, each having hydroxy bonded directly thereto
836 ......Additional hydroxy or nitrogen, other than as nitro, nitroso or azo, bonded directly to the bicyclo ring system

837 ......Sulfonic acid group bonded directly to the bicyclo ring system (-(0=)S(=0) OH, wherein H of the -OH may be replaced by the ammonium ion or a Group IA or IIA light metal)
838 ..Exactly one azo group containing or azo attached indirectly to an additional azo group by ionic bonding
839 ...Plural benzene rings bonded directly to the azo group
840 ....Each of the benzene rings is part of a bicyclo ring system
841 .....Containing -C(=X)-, wherein X is chalcogen (e.g., carbonyl, etc.)
842 .....Hydroxy bonded directly at the 2-position of the bicyclo ring system (H of hydroxy may be replaced by the ammonium ion or a Group IA or IIA light metal)
843 ....Each of the benzene rings is monocyclic
844 .....Sulfonyl containing
845 ......Oxygen bonded directly to the sulfonyl group (e.g., sulfonic acid, etc.)
846 ....Plural oxygens bonded directly to the sulfonyl group (e.g., sulfuric acid, etc.)
847 ......The sulfonyl is part of a sulfonamide group (-(0=)S(=0)HNH, wherein substitution may be made for hydrogen only)
848 ......Containing -C(=X)-, wherein X is chalcogen
849 ....The -C(=X)- is bonded directly to nitrogen, which nitrogen is bonded directly to a ring
850 .....Containing -C(=X)-, wherein X is chalcogen
851 ......The -C(=X)- is bonded directly to one of the benezene rings
852 ......The -C(=X)- is in a -C(=X)X- group, wherein the X's may be the same or diverse chalcogens
853 ....The -C(=X)X- is in a -C00H group (H of OH may be replaced by the ammonium ion or a Group IA or IIA light metal)
854 ....Additional -C(=X)- bonded directly to nitrogen, which nitrogen is bonded directly to a ring
855 ......Chalcogen, having no direct bond to a ring, attached directly by a single bond to acyclic carbon
856 .....Nitrogen, other than as nitro or nitroso, attached indirectly to the azo group by nonionic bonding
857 ......Hydroxy bonded directly to acyclic carbon or carbon chain (H of hydroxy may be replaced by the ammonium ion or Group IA or IIA light metal)
858 ....Plural chalcogens bonded directly to the acyclic carbon or carbon chain
859 ......Chalcogen bonded directly to a ring
860 ....Acyclic -C(=X)- containing, wherein X is chalcogen (e.g., carbonyl, etc.)
861 .....Hydroxy bonded directly to a bicyclo ring system (H of hydroxy may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)
862 ......Nitrogen bonded directly to the -C(=X)- group (e.g., carboxamide, etc.)
863 ....The -C(=X)- is bonded directly to the bicyclo ring system
864 ....Sulfonyl containing
865 ....Additional acyclic -C(=X)- group
866 ....Additional nitrogen bonded directly to the additional -C(=X)- group
867 ....At least three -C(=X)HNH groups, wherein substitution may be made for hydrogen only
868 ....Additional amino nitrogen
869 ....Plural oxygens bonded directly to the same monocyclic benzene ring
870 ....Halogen, acyclic carbon, the azo group and an additional halogen or acyclic carbon, all bonded directly to the same benzene ring

871 .....Acyclic carbon, carboxamide and chalcogen or an additional acyclic carbon, all bonded directly to the same benzene ring
872 .....The nitrogen is additionally bonded directly to the bicyclo ring system
873 .....Additional acyclic -C(=X)- group
874 .....The -C(=X)- is bonded directly to the bicyclo ring system
875 ....Nitrogen, other than as nitro or nitroso, attached indirectly to the azo group by nonionic bonding
876 .....Oxygen bonded directly to carbon
877 .....The nitrogen and the oxygen are bonded directly to the same bicyclo ring system
878 .....Sulfonyl bonded directly to the bicyclo ring system
879 .....Plural sulfonyl groups or plural nitrogens bonded directly to the bicyclo ring system
880 .....Additional sulfonyl which is attached indirectly to the bicyclo ring system by nonionic bonding
881 .....Sulfonyl and the nitrogen bonded directly to the same bicyclo ring system
882 ....Oxygen double bonded directly to sulfur
883 .....Sulfonyl bonded directly to a bicyclo ring system
884 .....Plural sulfonyl groups bonded directly to the same bicyclo ring system
885 ...Benzene ring bonded directly to the azo group
886 ...Containing -C(=X)-, wherein X is chalcogen (e.g., carbonyl, etc.)
887 ..Purification or recovery

DIGESTS

DIG 1 **MIXTURES OF AZO COMPOUNDS**
DIG 2 **AZO COMPOUNDS CONTAINING CHAINS OF EIGHT OR MORE CARBON ATOMS NOT PROVIDED FOR ELSEWHERE IN THIS CLASS**
DIG 3 **POLYMERIC AZO COMPOUNDS OR AZO COMPOUNDS CONTAINING POLYMERIC MOIETIES**
DIG 4 **AZO COMPOUNDS WHICH ARE LAKES**
DIG 5 **AZO COMPOUNDS HAVING UTILITY OTHER THAN AS DYES**
DIG 6 **AZO COMPOUNDS CONTAINING -N(O)-N=, -N=S, OR -SO2N3 GROUPS**
DIG 7 **AUTOMATIC AND/OR CONTINUOUS TEMPERATURE CONTROL IN THE PREPARATION OF AZO COMPOUNDS**
DIG 8 **ELIMINATION OF GROUPS DURING THE PREPARATION OF AZO COMPOUNDS**
DIG 9 **AZO COMPOUNDS CONTAINING TERNARY SULFONIUM GROUPS**
DIG 10 **AZO COMPOUNDS CONTAINING FORMALDEHYDE REACTION PRODUCT AS THE COUPLING COMPONENT**

FOREIGN ART COLLECTIONS

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**