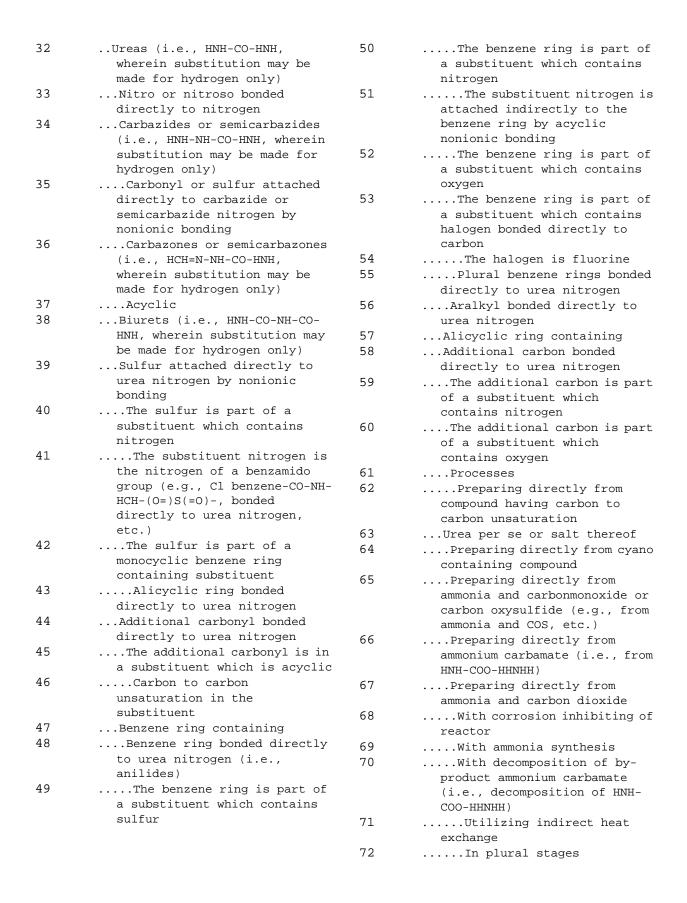
	ss 564 is considered to be an part of Class 260 (see the Class	15	Phosphorus attached indirectly to amino nitrogen by nonionic bonding
260 schedule for the position of this Class in schedule hierarchy). This Class		16	The phosphorus is a ring member
retains all pertinent definitions and class lines of Class 260.		17	<pre>Thioureas (i.e., HNH-C(=S)-HNH, wherein substitution may be made for hydrogen only)</pre>
		18	Thiocarbazides or thiosemicarbazides (i.e. HNH-
1	ORGANIC COMPOUNDS (CLASS 532, SUBCLASS 1) .AMINO NITROGEN CONTAINING (E.G., UREA, SULFONAMIDES, NITROSAMINES, OXYAMINES, ETC.,	19	NH-C(=S)-HNH, wherein the N bonded directly to the thiourea N is an amino N and substitution may be made for hydrogen only)Thiocarbazones or
1.5	AND SALTS THEREOF) Adducts or inclusion compounds of urea per se or of of thiourea per se with organic compounds (e.g., urea-alkane		thiosemicarbazones (i.e., HCH=N-NH-C(=S)-HNH, wherein substitution may be made for hydrogen only)
	inclusion compounds, etc.)	20	Benzene ring containing
2	With preservative or stabilizer	21	Additional nitrogen
3	Ureas or thioureas with preservative or stabilizer		attached indirectly to the thiocarbonyl by nonionic
4	Carboxamides with preservative or stabilizer	22	bondingThiobiurets (i.e., HNH-C(=S)-
5	Benzene ring containing compound with preservative or stabilizer		NH-C(=X)-HNH, wherein X is S or O and substitution may be made for hydrogen only)
6	Inorganic preservative or stabilizer	23	Carbonyl, sulfur, or cyano attached directly to thiourea
7	Sulfur or phenol containing preservative or stabilizer	24	nitrogen by nonionic bondingProcesses utilizing carbon disulfide
8	Boron containing (e.g., boron containing complexes, salts,	25	Processes utilizing cyano containing compound
9	etc.)Boron attached directly to	26	Benzene ring containing
9	amino nitrogen by nonionic bonding	27	Nitrogen attached indirectly to the thiocarbonyl by
10	The boron and amino nitrogen are members of the same ring	28	nonionic bondingHydroxy, bonded directly to
11	Polycyclo ring system having the nitrogen and boron containing ring as one of the cyclos		carbon, or ether containing (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or
12	Phosphorus attached directly to amino nitrogen by nonionic bonding	29	<pre>IIA light metal)Halogen attached indirectly to the thiocarbonyl by nonionic bonding</pre>
13	The phosphorus and nitrogen	30	Acyclic
14	<pre>are members of the same ringChalcogen and plural nitrogens bonded directly to the same phosphorus</pre>	31	Thiourea per se or salt thereof



73	Purification or recovery	93	Hydroxy, bonded directly to
74	Thiocarboxamides (i.e.,		carbon, or ether in a
	compounds containing -C(=S)-		substituent E (H of -OH may be
	HNH, wherein substitution may		replaced by a substituted or
	be made for hydrogen only)		unsubstituted ammonium ion or
75	Sulfur bonded directly to the		a Group IA or IIA light metal)
	thiocarbonyl	94	Nitrogen in an acyclic
76	Thiuram sulfides (e.g., HNH-		substituent E
70		95	Substituent Q is acyclic
	C(=S)-S-S-C(=S)-HN-alkyl,	96	
	etc.)	96	Halogen in substituent Q
77	Thiooxamides (i.e., HNH-C(=S)-		attached indirectly to the
	C(=X)-HNH, wherein X is S or O		sulfonamide sulfur by nonionic
	and substitution may be made		bonding
	for hydrogen only)	97	Benzene ring in a
78	Acyclic		substituent E
79	Sulfamides (i.e., HNH-	98	Substituent Q is alkyl
	(O=)S(=O)-HNH, wherein	99	Benzene ring in a
	substitution may be made for		substituent E
	hydrogen only)	100	Sulfur and amino nitrogen
80	Sulfonamides (i.e., Q-	100	attached directly to the same
80			
	(O=)S(=O)-HNH, wherein Q is a	101	sulfur by nonionic bonding
	substituent and wherein any	101	Plural amino nitrogens attached
	substituent replacing one or		directly to the same sulfur,
	both hydrogens shown will be		or oxygen double bonded and
	referred to as E)		amino nitrogen attached
81	Hydrazine containing		directly to the same sulfur,
82	Plural sulfonamide groups		all by nonionic bonding (e.g.,
	containing or containing		sulfinamides, etc.)
	plural sulfonyls bonded	102	Sulfur attached directly to
	directly to the same nitrogen		amino nitrogen by nonionic
83	Two sulfonamido sulfonvls		bonding (e.g., sulfenamides,
83	Two sulfonamido sulfonyls having no sulfonamido nitrogen		<pre>bonding (e.g., sulfenamides, etc.)</pre>
83	having no sulfonamido nitrogen	103	etc.)
	having no sulfonamido nitrogen between the sulfonyls	103	etc.)Cyanamides (i.e., compounds
83	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene	103	<pre>etc.)Cyanamides (i.e., compounds containing cyano bonded</pre>
84	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ring		<pre>etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)</pre>
84	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent Q	103	etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-
84 85 86	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent Q		etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is
84	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent Q		etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the
84 85 86	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent Q		etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may
84 85 86	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in		etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining
84 85 86 87	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent Q		etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may
84 85 86 87 88	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QCarbonyl in substituent QHydroxy, bonded directly to		etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining
84 85 86 87 88	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in	104	etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only)
84 85 86 87 88	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be	104	etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only)Benzene ring containingAcyclic
84 85 86 87 88	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or	104 105 106	etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only)Benzene ring containingAcyclicNitramines (i.e., compounds
84 85 86 87 88	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or	104 105 106	etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only)Benzene ring containingAcyclicNitramines (i.e., compounds containing nitro bonded
84 85 86 87 88 89	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)	104 105 106 107	etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only)Benzene ring containingAcyclicNitramines (i.e., compounds containing nitro bonded directly to amino nitrogen)
84 85 86 87 88 89	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)Substituent Q is monocyclic	104 105 106	etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only)Benzene ring containingAcyclicNitramines (i.e., compounds containing nitro bonded directly to amino nitrogen)Containing nitrogen double
84 85 86 87 88 89	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)Substituent Q is monocyclicCarbonyl, cyano, nitro,	104 105 106 107	etc.)Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen)Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only)Benzene ring containingAcyclicNitramines (i.e., compounds containing nitro bonded directly to amino nitrogen)Containing nitrogen double bonded directly to carbon
84 85 86 87 88 89	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)Substituent Q is monocyclicCarbonyl, cyano, nitro, nitroso, halogen, or sulfur	104 105 106 107	etc.) Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen) Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only) Benzene ring containing Acyclic Nitramines (i.e., compounds containing nitro bonded directly to amino nitrogen) Containing nitrogen double bonded directly to carbon (e.g., nitroguanidines, etc.)
84 85 86 87 88 89	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)Substituent Q is monocyclicCarbonyl, cyano, nitro, nitroso, halogen, or sulfur attached directly to the	104 105 106 107 108	etc.) Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen) Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only) Benzene ring containing Acyclic Nitramines (i.e., compounds containing nitro bonded directly to amino nitrogen) Containing nitrogen double bonded directly to carbon (e.g., nitroguanidines, etc.) Acyclic
84 85 86 87 88 89	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)Substituent Q is monocyclicCarbonyl, cyano, nitro, nitroso, halogen, or sulfur attached directly to the sulfonamide nitrogen or to an	104 105 106 107	etc.) Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen) Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only) Benzene ring containing Acyclic Nitramines (i.e., compounds containing nitro bonded directly to amino nitrogen) Containing nitrogen double bonded directly to carbon (e.g., nitroguanidines, etc.) Acyclic Containing nitro bonded
84 85 86 87 88 89	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)Substituent Q is monocyclicCarbonyl, cyano, nitro, nitroso, halogen, or sulfur attached directly to the sulfonamide nitrogen or to an amino nitrogen in a	104 105 106 107 108	etc.) Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen) Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only) Benzene ring containing Acyclic Nitramines (i.e., compounds containing nitro bonded directly to amino nitrogen) Containing nitrogen double bonded directly to carbon (e.g., nitroguanidines, etc.) Acyclic Containing nitro bonded directly to carbon (i.e.,
84 85 86 87 88 89	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)Substituent Q is monocyclicCarbonyl, cyano, nitro, nitroso, halogen, or sulfur attached directly to the sulfonamide nitrogen or to an amino nitrogen in a substituent E by nonionic	104 105 106 107 108	etc.) Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen) Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only) Benzene ring containing Acyclic Nitramines (i.e., compounds containing nitro bonded directly to amino nitrogen) Containing nitrogen double bonded directly to carbon (e.g., nitroguanidines, etc.) Acyclic Acyclic Containing nitro bonded directly to carbon (e.g., nitroguanidines, etc.) Acyclic
84 85 86 87 88 89	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)Substituent Q is monocyclicCarbonyl, cyano, nitro, nitroso, halogen, or sulfur attached directly to the sulfonamide nitrogen or to an amino nitrogen in a	104 105 106 107 108	etc.) Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen) Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only) Benzene ring containing Acyclic Nitramines (i.e., compounds containing nitro bonded directly to amino nitrogen) Containing nitrogen double bonded directly to carbon (e.g., nitroguanidines, etc.) Acyclic Containing nitro bonded directly to carbon (i.e.,
84 85 86 87 88 89	having no sulfonamido nitrogen between the sulfonylsSubstituent Q contains benzene ringSulfur in substituent QNitrogen in substituent QNitro or nitroso in substituent QCarbonyl in substituent QHydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)Substituent Q is monocyclicCarbonyl, cyano, nitro, nitroso, halogen, or sulfur attached directly to the sulfonamide nitrogen or to an amino nitrogen in a substituent E by nonionic	104 105 106 107 108	etc.) Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen) Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only) Benzene ring containing Acyclic Nitramines (i.e., compounds containing nitro bonded directly to amino nitrogen) Containing nitrogen double bonded directly to carbon (e.g., nitroguanidines, etc.) Acyclic Acyclic Containing nitro bonded directly to carbon (e.g., nitroguanidines, etc.) Acyclic
84 85 86 87 88 89	having no sulfonamido nitrogen between the sulfonyls Substituent Q contains benzene ring Sulfur in substituent Q Nitrogen in substituent Q Nitro or nitroso in substituent Q Carbonyl in substituent Q Hydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal) Substituent Q is monocyclic Carbonyl, cyano, nitro, nitroso, halogen, or sulfur attached directly to the sulfonamide nitrogen or to an amino nitrogen in a substituent E by nonionic bonding	104 105 106 107 108	etc.) Cyanamides (i.e., compounds containing cyano bonded directly to amino nitrogen) Cyanoguanidines (i.e., HNH-C(=NH)-HNH, wherein -CN is substituted for one of the hydrogens and substitution may be made for the remaining hydrogens only) Benzene ring containing Acyclic Nitramines (i.e., compounds containing nitro bonded directly to amino nitrogen) Containing nitrogen double bonded directly to carbon (e.g., nitroguanidines, etc.) Acyclic Acyclic Containing nitro bonded directly to carbon (e.g., nitroguanidines, etc.) Acyclic

111	Hydroxy, bonded directly to carbon, or ether containing (H	132	Preparing directly from carbon monoxide or carbon dioxide
	of -OH may be replaced by a substituted or unsubstituted	133	<pre>Preparing directly by amidation of -C(=0)X group,</pre>
	ammonium ion or a Group IA or		where X is O- or halogen
	IIA light metal)	134	Of carboxylic acid ester
112	Nitrosamines (i.e., compounds	135	Having acyclic acid moiety
	containing nitroso bonded	136	Additional oxygen in the
110	directly to amino nitrogen)	130	acid moiety
113	Acyclic	137	Lower fatty acid
114	Haloamines (i.e., compounds	138	Of carboxylic acid
	containing halogen attached	139	Benzene ring containing
	directly to amino nitrogen by	140	Hydroxy naphthoic
	nonionic bonding)	141	Lower fatty acid
115	Containing nitrogen double	142	Of carboxylic acid halide
	bonded directly to carbon	143	Acyclic
116	Amidine containing (i.e.,	_	-
	containing -C(=N)-HNH, wherein	144	<pre>0f acyclic carboxylic acid anhydride</pre>
	substitution may be made for	145	Preparing directly by reacting
	hydrogen only)		sulfur or sulfur containing
117	Alicyclic ring containing		compound with ammonia; or
118	Acyclic		directly from ammonium
119	Hydroxy, bonded directly to		polysulfide
	carbon, or ether containing (H	146	Preparing directly by
	of -OH may be replaced by a	110	nitration
	substituted or unsubstituted	147	
	ammonium ion or a Group IA or		Aminimine containing
	IIA light metal)	148	Hydrazine containing
120	Carbon to carbon unsaturation	149	Substituent Q contains
	containing		benzene ring
121	Plural difluoramine groups	150	Hydroxy, bonded directly to
121	containing		carbon, or ether in
122	_		substituent Q (H of -OH may be
122	Plural difluoramine groups		replaced by a substituted or
	bonded directly to the same		unsubstituted ammonium ion or
	carbon		a Group IA or IIA light metal)
123	Carboxamides (i.e., Q-CO-HNH,	151	Substituent Q is acyclic
	wherein Q is a substituent	152	Plural carboxamide groups
	having carbon bonded directly	132	containing or containing
	to the carbonyl or is hydrogen		plural carbonyls bonded
	and wherein any substituent		directly to the same nitrogen
	replacing one or both	1 5 2	_
	hydrogens shown will be	153	Three or more carboxamide
	referred to as E)		groups
124		154	Culfum containing
	Preparing directly from cyano		Sulfur containing
	Preparing directly from cyano containing compound	155	Benzene ring containing
125	containing compound		
125	containing compoundFrom HCN or cyanogen	155	Benzene ring containing
125 126	containing compoundFrom HCN or cyanogenCatalytic hydration only of	155	Benzene ring containingTwo carboxamido carbonyls
126	<pre>containing compoundFrom HCN or cyanogenCatalytic hydration only of nitrile</pre>	155	<pre>Benzene ring containingTwo carboxamido carbonyls having benzene ring between</pre>
	<pre>containing compoundFrom HCN or cyanogenCatalytic hydration only of nitrileCopper containing catalyst</pre>	155	<pre>Benzene ring containingTwo carboxamido carbonyls having benzene ring between the carbonyls and no</pre>
126 127	<pre>containing compoundFrom HCN or cyanogenCatalytic hydration only of nitrileCopper containing catalyst utilized</pre>	155	Benzene ring containingTwo carboxamido carbonyls having benzene ring between the carbonyls and no carboxamido nitrogen between the carbonyls
126 127 128	containing compoundFrom HCN or cyanogenCatalytic hydration only of nitrileCopper containing catalyst utilizedOf acrylonitriles	155 156	Benzene ring containingTwo carboxamido carbonyls having benzene ring between the carbonyls and no carboxamido nitrogen between the carbonylsAmino nitrogen, not bonded
126 127	<pre>containing compoundFrom HCN or cyanogenCatalytic hydration only of nitrileCopper containing catalyst utilized</pre>	155 156	Benzene ring containingTwo carboxamido carbonyls having benzene ring between the carbonyls and no carboxamido nitrogen between the carbonylsAmino nitrogen, not bonded directly to carbonyl,
126 127 128	containing compoundFrom HCN or cyanogenCatalytic hydration only of nitrileCopper containing catalyst utilizedOf acrylonitriles	155 156	Benzene ring containingTwo carboxamido carbonyls having benzene ring between the carbonyls and no carboxamido nitrogen between the carbonylsAmino nitrogen, not bonded
126 127 128	containing compoundFrom HCN or cyanogenCatalytic hydration only of nitrileCopper containing catalyst utilizedOf acrylonitrilesAcid hydrolysis only of nitrileFrom acyclic nitrile	155 156	Benzene ring containingTwo carboxamido carbonyls having benzene ring between the carbonyls and no carboxamido nitrogen between the carbonylsAmino nitrogen, not bonded directly to carbonyl,
126 127 128 129	containing compoundFrom HCN or cyanogenCatalytic hydration only of nitrileCopper containing catalyst utilizedOf acrylonitrilesAcid hydrolysis only of nitrile	155 156	Benzene ring containingTwo carboxamido carbonyls having benzene ring between the carbonyls and no carboxamido nitrogen between the carbonylsAmino nitrogen, not bonded directly to carbonyl,

158	Hydroxy, bonded directly to carbon, or ether containing (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or	175 176	Oxygen, bonded directly to the benzene ring, is part of an acyclic chain between the benzene ring and the carbonylBenzene ring bonded directly
1.50	IIA light metal)		to the carbonyl
159	Acyclic	177	Hydroxy bonded directly to
160	Two carboxamido carbonyls having no carboxamido nitrogen between the carbonyls		the benzene ring (H of -OH may be replaced by a substituted or unsubstituted ammonium ion
161	Substituent Q contains benzene ring		or a Group IA or IIA light metal)
162	Sulfur in substituent Q	178	Preparing directly by
163	Nitrogen in substituent Q		halogenation
		179	Benzene ring in a
164	The substituent nitrogen is an amino nitrogen attached		substituent E
	<pre>indirectly to a ring by acyclic nonionic bonding</pre>	180	Polycyclo ring system in substituent Q
165	Hydroxy, bonded directly to	181	Two rings bonded directly to
105	carbon, or ether in	101	the same carbon in substituent
	substituent Q (H of -OH may be		Q
	replaced by a substituted or	182	Substituent Q is monocyclic
	unsubstituted ammonium ion or a Group IA or IIA light metal)	183	<pre>The ring is bonded directly to the carbonyl</pre>
166	Nitro in substituent Q	184	Benzene ring in a
167	Hydroxy, bonded directly to		substituent E
	carbon, or ether in substituent Q (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)	185	Ring or polycyclo ring system in substituent E is attached indirectly to the carboxamide nitrogen or to an amino nitrogen in substituent
168	Ring in a substituent E		E by acyclic nonionic bonding
169	Carbonyl in substituent Q	186	Oxygen in a substituent E
170	Hydroxy, bonded directly to carbon, or ether in substituent Q (H of -OH may be	187	Acyclic carbon to carbon unsaturation in a substituent
	replaced by a substituted or	188	=
	unsubstituted ammonium ion or	100	Plural alicyclic rings in substituent Q
171	a Group IA or IIA light metal)Plural rings in substituent	189	Five-membered ring in substituent Q
	Q	190	
172	Polycyclo ring system in substituent Q		Three-membered ring in substituent Q
173	Q contains an ortho-	191	Alicyclic ring and an atom other than oxygen, carbon, or
	hydroxy naphthyl bicyclo ring		hydrogen in substituent Q
	system, or its partially	192	Substituent Q is acyclic
	hydrogenated form, bonded		
	directly to the carbonyl (H of	193	Nitrogen in substituent Q
	-OH may be replaced by a	194	Benzene ring in a
	substituted or unsubstituted	405	substituent E
	ammonium ion or a Group IA or	195	Two rings bonded directly
	IIA light metal)		to the same carbon in a
174	Ring in a substituent E		substituent E
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196	system in a substituent E is attached indirectly to the carboxamide nitrogen or to an amino nitrogen in substituent E by acyclic nonionic bonding	213	Nitro and hydroxy, bonded directly to carbon, or ether in the substituent E (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or
197	The compound is acyclic		IIA light metal)
198	The carboxamide nitrogen is	214	The compound is monocyclic
	unsubstituted	215	Q is hydrogen or a lower
199	Carbonyl in substituent Q		saturated alkyl substituent
200	Benzene ring in a	216	Purification or recovery
	substituent E	217	Ring in a substituent E
201	Hydroxy, bonded directly to	218	Benzene ring in a
201	carbon, or ether in	210	substituent E
	substituent Q (H of -OH may be	219	A ring or polycyclo ring
202	replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)		system in a substituent E is attached indirectly to the carboxamide nitrogen or to an
202	Benzene ring in a substituent E		<pre>amino nitrogen in substituent E by acyclic nonionic bonding</pre>
202		220	Amino nitrogen in the
203	Hydroxy, bonded directly to	220	3
	carbon, or ether in an acyclic		substituent E (i.e.,plural
	substituent E (Hof -OH may be		amino nitrogens containing)
	replaced by a substituted or	221	Plural rings in a
	unsubstututed ammonium ion or		substituent E
	a Group IA or IIA light metal)	222	Polycyclo ring system in
204	Carbon to carbon unsaturation		a substituent E
	in substituent Q	223	Hydroxy, bonded directly
205	Process which includes		to carbon, or ether in a
	forming the unsaturation		substituent E (H of -OH may be
206	Purification or recovery		replaced by a substituted or
207	Benzene ring in a		unsubstituted ammonium ion or
207	substituent E		a Group IA or IIA light metal)
200		224	
208	Hydroxy, bonded directly to	224	Hydroxy, bonded directly to
	carbon, or ether in an acyclic		carbon, ether or nitrogen in a
	substituent E (H of -OH may be		substituent E (H of -OH may be
	replaced by a substituted or		replaced by a substituted or
	unsubstituted ammonium ion or		unsubstituted ammonium ion or
	a Group IA or IIA light metal)		a Group IA or IIA light metal)
209	Halogen, bonded directly to	225	Amidines (i.e., HN=CH-HNH,
	carbon, in substituent Q		wherein substition may be made
210	Ring in a substituent E		for hydrogen only)
211	Benzene ring in a	226	Amidino hydrazines or
211	substituent E		hydrazones (i.e., HNH-N=CH-HNH
212			or HN=CH-NH-HNH, wherein
212	A ring or polycyclo ring		substitution may be made for
	system in a substituent E is		hydrogen only)
	attached indirectly to the	007	
	carboxamide nitrogen or to an	227	Guanyl hydrazines or
	amino nitrogen in substituent		hydrozones (i.e., HNH-N=C(-
	E by acyclic nonionic bonding		HNH)-HNH or HN=C(-HNH)-NH HNH,
			wherein substitution may be
			made for hydrogen only)
		228	Benzene ring containing
		229	Amidoximes (i.e., HON=CH-HNH,
			wherein substitution may be
			made for hydrogen only)
			· ·

230	Guanidines (i.e., HN=C(-HNH)- HNH, wherein substitution may be made for hydrogen only)	252	Carbodiimides (i.e., HN=C=NH, wherein substitution may be made for hydrogen only)
231	Preparing from thioureas	253	Oximes (HCH=N-OH, i.e.,
232	Preparing by reacting cyanogen halide with amino	233	wherein substitution may be made for hydrogen only)
	nitrogen containing compound	254	O-esters (i.e., H of oxime -
233	Biguanides (i.e., HN=C(-HNH)- NH-(HNH-)C=NH, wherein		OH replaced by ester forming group)
	substitution may be made for	255	O-carbamoyl
	hydrogen only)	256	O-ethers (i.e., H of oxime -
234		250	
	Benzene ring containing		OH replaced by ether forming
235	Plural rings containing		group)
236	Polyguanidines	257	Polycyclo ring system
237	Benzene ring containing	258	Oxygen double bonded, or
238	Benzene ring bonded directly to guanidine nitrogen		hydroxy or ether oxygen bonded directly to an alpha carbon (H
239	Hydroxy, bonded directly to		of -OH may be replaced by a
	carbon, or ether containing (H		substituted or unsubstituted
	of -OH may be replaced by a		ammonium ion or a Group Ia or
	substituted or unsubstituted		IIA light metal)
	ammonium ion or a Group IA or	259	Preparing directly by
	IIA light metal)	233	reacting carbonyl with
0.4.0			hydroxylamine or salt thereof
240	Acyclic	260	
241	Guanidine per se or salt	200	Preparing directly by
	thereof	0.61	reducing nitronic acid salt
242	Guanidine nitrate	261	Preparing directly by
243	Polyamidines		reducing nitro group
244	Benzene ring containing	262	Preparing directly by
245	N(prime)-aryl formimidines		oxidizing a hydroxyl amine
	(i.e., benzene-N=CH-HNH,	263	Preparing directly by
	wherein substitution may be		nitrosation of olefin
	made for hydrogen, including	264	Purification or recovery
	those bonded directly to the	265	Benzene ring containing
	benzene ring only)	266	The oxime carbon is acyclic
246	Additional nitrogen attached	200	and has two rings bonded
210	indirectly to amidine nitrogen		directly thereto
	<u> </u>	267	=
0.47	by nonionic bonding	267	Six-membered alicyclic ring
247	Hydroxy, bonded directly to		double bonded directly to the
	carbon, or ether containing (H		oxime nitrogen
	of -OH may be replaced by a	268	Acyclic
	substituted or unsubstituted	269	Nitrogen double bonded and two
	ammonium ion or a Group IA or		rings bonded directly to the
	IIA light metal)		same acyclic carbon (e.g.,
248	Containing nitrogen double		auramines, etc.)
	bonded directly to carbon	270	Polycyclo ring system
249	Azines (i.e., HCH=N-N=HCH,	271	Aldimines or ketimines which
	wherein substitution may be		contain benzene ring (i.e.,
	made for hydrogen)		HCH=NH, wherein substitution
250	Hydrazones (i.e., HCH=N-HNH,		may be made for hydrogen only
250	wherein substitution may be		but a hydrogen or carbon must
	made for hydrogen only)		be bonded directly to the
251			carbon)
4 J I	Benzene ring containing		Carbon,

272	<pre>Benzylidene imines (i.e., Q- benzene-CH=NH, wherein Q is a substituent or hydrogen and substitution may be made for hydrogen only)</pre>	292	Hydroxy, bonded directly to carbon, or ether containing (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or
273	Substituent Q contains nitrogen bonded directly to carbon	293	<pre>IIA light metal)Choline, beta-alkylcholines, ethers thereof, and salts</pre>
274	Substituent Q contains		thereof
	hydroxy, bonded directly to	294	Polyoxyalkylene
	carbon, or ether (H of -OH may	295	Polyquaternary ammonium
	be replaced by a substituted	296	Processes
	or unsubstituted ammonium ion	297	Amine oxides
	or a Group IA or IIA light	298	Processes
275	metal)	299	Benzene ring containing
276	Q is hydrogen onlyHydroxy, bonded diretly to carbon, or ether containing (H	300	<pre>Nitroxides, oxyamines or hydroxylamines (i.e., HNH-O or HNH-OH, wherein substitution</pre>
	of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or		<pre>may be made for hydrogen only, including 0-ether and 0-ester derivatives)</pre>
0.55	IIA light metal)	301	Acyclic
277	Unsubstituted phenyl bonded directly to the aldimine or ketimine nitrogen	302	Racemization per se or with resolution of optical isomers
278	Aldimines or ketimines which	303	Resolution per se of optical
270	are acyclic		isomers
279	Carbon to carbon unsaturation containing	304	Of benzene ring containing compounds
280	Phenol or thiophenol addition	305	Benzene ring containing
281	saltsQuaternary ammonium containing	306	Alicyclic ring or ring system, having plural amino nitrogens
282	Benzene ring containing		attached directly or
283	Two rings bonded directly to the same carbon		<pre>indirectly thereto by acyclic nonionic bonding, attached indirectly to an aryl ring or</pre>
284	Nitro or nitroso, bonded directly to carbon containing		ring system by acyclic nonionic bonding
285	Hydroxy, bonded directly to	307	Amino nitrogen and a ring
	carbon, or ether containing (H		bonded directly to the same
	of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal)		ring, and any other amino nitrogen in the compound is bonded directly to one of the rings
286	Polyquaternary ammonium	308	Polycyclo ring system
287	The hydroxy or ether oxygen	309	Benzidines
	is bonded directly to a ring	310	Hydrazines
288	Acyclic carbon to carbon	311	Symmetrical diaryl hydrazines
	unsaturation containing	312	Preparing directly by
289	Halogen attached indirectly to the ammonium nitrogen by nonionic bonding		reducing nitrogen containing group with metal and metallic hydroxide
290	Polyquaternary ammonium	313	Aralkyl hydrazines
291	Acyclic	314	Processes
		315	Two aryl rings or ring systems bonded directly to the same carbon

316	Amino nitrogen attached to the carbon by an acyclic carbon or chain	331	<pre>Preparing by reacting carbonyl containing compound with amino nitrogen containing</pre>
317	Oxygen or sulfur is bonded		compound
	directly to the carbon and is	332	Solid catalyst utilized
	part of the chain	333	Hydrochloric acid utilized
318	Processes	334	Purification or recovery
319	Oxygen, carbonyl or carbon	335	Halogen or sulfur attached
	to carbon unsaturation in the		directly or indirectly to the
	chain; or ether, carbonyl,		carbon by nonionic bonding
	carbon to carbon unsaturation	336	Amino nitrogen attached to
	or hydroxy, bonded directly to	330	aryl ring or ring system by an
	carbon, is part of a		acyclic carbon or chain
	substituent bonded directly to	337	-
	the acyclic carbon or chain (H	337	The aryl ring or ring system
	of -OH may be replaced by a		is bonded directly to another
	substituted or unsubstituted	338	ring
	ammonium ion or a Group IA or		The other ring is alicyclic
	IIA light metal)	339	Double bonded oxygen, ether
320	Hydroxy or ether oxygen		or hydroxy, bonded directly to
	bonded directly to the carbon		carbon, is attached directly
	(H of -OH may be replaced by a		or indirectly to the alicyclic
	substituted or unsubstituted		ring by acyclic nonionic
	ammonium ion or a Group IA or		bonding (H of -OH may be
	IIA light metal)		replaced by a substituted or unsubstituted ammonium ion or
321	Amino nitrogen bonded		a Group IA or IIA light metal)
	directly to the carbon	340	Sulfur is part of the chain
322	The carbon is a ring member	340	or is attached directly or
	of an alicyclic ring or ring		indirectly to the acyclic
	system		carbon or chain by acyclic
323	Amino nitrogen attached to		nonionic bonding with no amino
	aryl ring or ring system by an		nitrogen between the sulfur
	acyclic carbon or chain		and the aryl ring or ring
324	Oxygen or sulfur is bonded		system
	directly to the aryl ring or	341	The sulfur is bonded
	ring system and is part of the		directly to the aryl ring or
	chain		ring system
325	Additional similar chain	342	Carbonyl is part of the chain
326	Amino nitrogen is bonded		or is attached directly or
	directly to the aryl ring or		indirectly to the acyclic
	ring system and is part of the		carbon or chain by acyclic
	chain		nonionic bonding with no amino
327	Benzhydrols or benzthiols		nitrogen between the carbonyl
	(i.e., -OH or -SH bonded		and the aryl ring or ring
	directly to the carbon)		system
328	Benzophenones or	343	Processes
	benzothiophenones (i.e., the	344	Hydroxy or ether oxygen
	carbon is part of a carbonyl		bonded directly to the aryl
	or thiocarbonyl)		ring or ring system
329	Processes	345	Halogen bonded directly to
330	Diamino diphenyl methanes		the aryl ring or ring system
	(i.e., two phenyls, each	346	Ether oxygen is part of the
	having amino nitrogen bonded	="	chain
	directly thereto, bonded	347	The ether oxygen is bonded
	directly to the carbon)		directly to the aryl ring or
			ring system
			J

348	Hydroxy, bonded directly to carbon, or ether oxygen is attached directly or indirectly to the chain by acyclic nonionic bonding with no amino nitrogen between the hydroxy or attached ether oxygen and the aryl ring or ring system (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or	360	Additional hydroxy, bonded directly to carbon, or ether oxygen attached directly or indirectly to the acyclic carbon or chain by acyclic nonionic bonding with no amino nitrogen between the additional hydroxy or ether oxygen and the aryl ring or ring system (H of -OH may be replaced by a substituted or
349	a Group IA or IIA light metal)Alkanol group only between the amino nitrogen and the ether oxygen which is bonded directly to the aryl ring or ring system (i.e., aryloxy alkanol amines)	361	unsubstitited ammonium ion or a Group IA or IIA light metal)Plural hydroxy groups bonded directly to the aryl ring or ring system (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or
350	Nitrogen bonded directly		a Group IA or IIA light metal)
	to the aryl ring or ring system	362	Four or more substituents on the aryl ring or ring
351	Halogen bonded directly to the aryl ring oring system	363	systemBeta hydroxy phenethylamines
352	The aryl ring or ring	303	(i.e., hydroxy and the benzene
332	system is polycyclo		ring are bonded directly to
353	Hydrogen or acyclic		the same carbon of the chain
	hydrocarbyl substituents only bonded directly to the part of the chain between the ether oxygen and amino nitrogen		which consists of two carbons; H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or
354	The part of the chain	364	<pre>IIA light metal)Acyclic hydrocarbyl alpha</pre>
	between the ether oxygen and amino nitrogen consists of two	301	substituent
	unsubstituted saturated	365	Hydroxy or ether oxygen
	carbons		bonded directly to the aryl
355	Hydroxy, bonded directly to		ring or ring system (H of -OH
	carbon, or ether oxygen		may be replaced by a
	attached directly or		substituted or unsubstituted ammonium ion or a Group IA or
	indirectly to the acyclic carbon or chain by acyclic		IIA light metal)
	nonionic bonding with no amino	366	Halogen attached directly or
	nitrogen between the hydroxy		indirectly to the acyclic
	or ether oxygen and the aryl		carbon or chain by acyclic
	ring or ring system (H of -OH		nonionic bonding with no amino
	<pre>may be replaced by a substituted or unsubstituted</pre>		nitrogen between the halogen and the aryl ring or ring
	ammonium ion or a Group IA or		system
	IIA light metal)	367	The chain contains nitrogen
356	Preparing directly by		between the aryl ring or ring
	reduction, other than by	2.50	system and amino nitrogen
257	reductive amination	368	Ethylene diamines
357 358	By direct hydrogenation	369 370	Mono ethylene diamines
220	Group VIII noble metal containing catalyst utilized	370	Plural aryl rings, which are not part of the same
359	Preparing directly by		polycyclo ring system, or ring
	hydrolysis		systems containing

371 372	Methylene diaminesAdditional amino nitrogen	389	Benzyl amines having hydroxy or ether oxygen bonded
	attached directly or indirectly to the acyclic carbon or chain by acyclic nonionic bonding		directly to the benzene ring (H of -OH may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or
373	Alpha aralkyl benzyl amines		IIA light metal)
374	The chain consists of two or	390	Ortho hydroxy benzyl amines
	more carbons which are	391	Benzyl amines wherein the
	unsubstituted or have acyclic hydrocarbyl substituents only		benzene ring has no other substituents
375	Forming amine group directly by reduction, other than by	392	Acyclic hydrocarbyl group bonded directly to the
	reductive amination		methylene carbon
376	Forming directly by	393	Preparing directly from ester
	amination which replaces halogen		other than by reduction of nitrile
377	Preparing directly by	394	Preparing directly from
378	hydrolysisThe aryl ring or ring system		organic acid, acid halide or salt
0.0	is polycyclo	395	Preparing directly by
379	Tricyclo ring system		amination
380	The chain contains carbon	396	Of carbonyl containing
300	to carbon unsaturation		compound
381	Phenethylamines having alpha	397	By reductive amination
502	alkyl substituent	398	Group VIII noble metal
382	Phenethylamines having beta		containing catalyst utilized
002	alkyl substituent	399	Of ether or alkylene oxide
383	The chain contains carbon to	400	Of halohydrin
303	carbon unsaturation	401	Of acyclic hydroxy containing
384	The aryl ring or ring system		compound
551	and amino nitrogen are bonded	402	By replacing hydroxy
	directly to the same acyclic	403	In compound having plural
	carbon, which carbon additionally has only hydrogen		hydroxys bonded directly to benzene ring
	or acyclic hydrocarbyl	404	Of halogen containing
	substituents bonded directly thereto		compound
385	Forming amine group directly	405	Which also contains benzene
303	by reduction, other than by	406	ring
	reductive amination	407	And nitro
386	Forming directly by	407	Preparing primary amines
	amination which replaces		Of hydrocarbon
	halogen or forming amine group	409	Preparing directly by ring alkylation or dealkylaton
200	directly by hydrolysis	410	Preparing directly by
387	The aryl ring or ring system		nitrosation
200	is polycyclo	411	Preparing directly by
388	Plural amino methylene		nitration
	groups bonded directly to the	412	Preparing of halogen
	same benzene ring		containing compound directly
			by halogenation or
			dehalogenation
		413	Preparing directly from hetero
			ring containing compound

414	<pre>Preparing directly from an amide (e.g., preparing directly from a sulfenamide, nitrosamine, carboxamide, thiourea, etc.)</pre>	439	<pre>Of compound having amino nitrogen and hydroxy bonded directly to the benzene ring (H of -OH may be replaced by a substituted or unsubstituted</pre>
415	Forming amine group directly by reduction		ammonium ion or a Group IA or IIA light metal)
416	Of nitro or nitroso	440	Sulfur attached indirectly to
417	Preparing compound which		the amino nitrogen by nonionic
1 1 /			bonding
	contains halogen bonded	441	_
	directly to carbon	441	Nitro or nitroso, bonded
418	Preparing compound which		directly to carbon, containing
	contains hydroxy, bonded	442	Halogen, bonded directly to
	directly to carbon, or ether		carbon, containing
419	With initial nitration step	443	Hydroxy, bonded directly to
420	By direct hydrogenation		carbon, or ether containing (H
421	Group VI metal containing		of -OH may be replaced by a
	catalyst utilized		substituted or unsubstituted
422	Group VIII metal containing		ammonium ion or a Group IA or
122	catalyst utilized		IIA light metal)
423	Group VIII noble metal	444	Preparing alicyclic ring
423	-		containing compound directly
404	containing catalyst utilized		by isomerization
424	Separating isomers	445	Preparing alicyclic ring
425	By salt formation	113	containing compound directly
426	Polycyclo ring system		by amination
427	Tricyclo ring system	446	Of aldehyde or ketone
428	Bicyclo ring system	110	containing compound
429	\ldots .Naphthyl ring system and	447	
	benzene ring bonded directly		Of hydroxy containing compound
	to the same nitrogen	448	Forming amine group of
430	Two benzene rings bonded		alicyclic ring containing
	directly to the same oxygen,	4.40	compound directly by reduction
	sulfur, or polysulfide chain	449	Including hydrogenating
431	Two carbocyclic rings, at		benzene ring
	least one of which is benzene,	450	Preparing alicyclic ring
	bonded directly to the same		containing compound directly
	nitrogen		by hydrogenating benzene ring
432	Condensation products and	451	Plural amino nitrogens
	processes of acyclic ketone		containing
	and compound which contains	452	Plural alicyclic rings, which
	two benzene rings bonded		are not part of the same
	directly to the same nitrogen		polycyclo ring system, or ring
433	Two benzene rings bonded		systems bonded directly to the
433	directly to the same nitrogen		same carbon
434	Additional amino nitrogen	453	Alicyclic ring or ring system
コンコ	containing		and amino nitrogen are
42E	3		attached indirectly by an
435	Preparing directly by		acyclic carbon or chain
427	condensing a primary amine	454	The chain consists of two or
437	Purification or recovery		more carbons which are
438	By salt formation		unsubstituted or have acyclic
			hydrocarbyl substituents only

455	The alicyclic ring and amino nitrogen are bonded directly	486	Preparing directly by dealkylation
	to the same acyclic carbon, which carbon additionally has	487	Preparing directly from hetero ring containing compound
45.6	only hydrogen or acyclic hydrocarbyl substituents bonded directly thereto	488	<pre>Preparing directly from an amide (e.g., preparing directly from a carboxamide,</pre>
456	Polycyclo ring system		etc.)
457	Plural alicyclic rings	489	Forming amine group directly
458	Polycyclo ring system		by reduction
459	Tricyclo ring system	490	Of cyano
460	Bicyclo ring system	491	Of plural cyanos
461	Alicyclic ring and plural amino nitrogens containing	492	<pre>Preparing hexamethylene diamine</pre>
462	Cyclohexyl ring containing	493	Preparing a primary
463	Acyclic		monoamine
464	Aminimine or hydrazine	494	Of nitro or nitroso
	containing	495	The nitro or nitroso is in a
465	Preparing directly by		compound which contains
	reducing a nitrosamine		hydroxy, bonded directly to
466	Preparing directly by		carbon, or ether
	condensing a haloamine	496	Preparing directly by
467	Preparing directly utilizing		halogenation
	carbon monoxide	497	Purification or recovery
468	Preparing directly from ester,	498	Of an alkylene polyamine
	organic acid or salt, other than by reduction of nitrile	499	<pre>Separating primary, secondary, or tertiary amines</pre>
469	Preparing directly by		from each other
	amination	500	Sulfur attached indirectly to
470	By transamination		the amino nitrogen by nonionic
471	Of aldehyde or ketone		bonding
	containing compound	501	Thioether containing
472	By reductive amination	502	Aldehyde or ketone containing
473	Of aldehyde containing compound	503	Hydroxy, bonded directly to carbon, or ether containing (H
474	Of ether containing compound		of -OH may be replaced by a
475	Of an alkylene oxide		substituted or unsubstituted
476	Of an epihalohydrin		ammonium ion or a Group IA or
477	Producing monohydroxy alkyl		IIA light metal)
	amines	504	Polyether
478	Of hydroxy containing	505	Polyoxyalkylene
	compound	506	\dots Polyhydroxy (H of -OH may be
479	Catalyst utilized		replaced by a substituted or
480	Group VI or VIII metal		unsubstituted ammonium ion or
	containing catalyst utilized		a Group IA or IIA light metal)
481	Of halogen containing compound	507	Plural hydroxys in the same substituent on the amino
482	Of an alkylene dihalide		nitrogen (H of -OH may be
483	Of compound which contains		replaced by a substituted or unsubstituted ammonium ion or
	an atom other than carbon,		
	hydrogen, and halogen	508	<pre>a Group IA or IIA light metal)Monoether</pre>
484	Of compound which contains	509	Carbon to carbon unsaturation
	carbon to carbon unsaturation	203	containing
485	Of compound which contains carbon to carbon unsaturation		Concarning

564 - 14 CLASS 564 ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES

510 ...Halogen, bonded directly to carbon, containing
511 ...Plural amino nitrogens containing
512Three or more amino nitrogens containing

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