# CPC COOPERATIVE PATENT CLASSIFICATION

# C CHEMISTRY; METALLURGY

(NOTES omitted)

### **CHEMISTRY**

## C07 ORGANIC CHEMISTRY

(NOTES omitted)

# C07F ACYCLIC, CARBOCYCLIC OR HETEROCYCLIC COMPOUNDS CONTAINING ELEMENTS OTHER THAN CARBON, HYDROGEN, HALOGEN, OXYGEN, NITROGEN, SULFUR, SELENIUM OR TELLURIUM (metal-containing porphyrins C07D 487/22)

### NOTES

- 1. Attention is drawn to Note (3) after class <u>C07</u>, which defines the last place priority rule applied in the range of subclasses <u>C07C-C07K</u> and within these subclasses.
- 2. Attention is drawn to Note (6) following the title of class CO7.
- 3. Therapeutic activity of compounds is further classified in subclass A61P.
- 4. In this subclass, organic acid salts, alcoholates, phenates, chelates or mercaptides are classified as the parent compounds.
- 5. {Compounds containing Se or Te are classified with their sulfur homologues.}
- 6. {A hydrocarbon chain is considered to be terminated by a heteroatom or by a carbon atom having three bonds to heteroatoms with at the most one to halogen.}
- 7. {When groups, e.g. aromatic or aliphatic groups, are mentioned without further indications, it means that the group concerned can be further substituted. Otherwise it will be indicated, e.g. <a href="C07F 9/11">C07F 9/11</a> with hydroxyalkyl compounds without further substituents on alkyl.}

### **WARNINGS**

of the Periodic Table

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
 C07F 9/6593
 covered by
 C07F 9/65815

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Compounds containing elements of Groups 1 or 11	5/003	• {without C-Metal linkages}
	of the Periodic Table	5/02	Boron compounds
1/005	• {without C-Metal linkages}	5/022	• • {without C-boron linkages}
1/02	. Lithium compounds	5/025	• • {Boronic and borinic acid compounds}
1/04	Sodium compounds	5/027	• • {Organoboranes and organoborohydrides}
1/06	Potassium compounds	5/04	. Esters of boric acids
1/08	. Copper compounds	5/05	Cyclic compounds having at least one ring
1/10	Silver compounds		containing boron but no carbon in the ring
1/12	. Gold compounds	5/06	Aluminium compounds
3/00	Compounds containing elements of Groups 2 or 12 of the Periodic Table	5/061 5/062	<ul><li>• { with C-aluminium linkage }</li><li>• • { Al linked exclusively to C }</li></ul>
3/003	• {without C-Metal linkages}	5/064	• • • {compounds with an Al-Halogen linkage}
3/006	• {Beryllium compounds}	5/065	• • • {compounds with an Al-H linkage}
3/02 3/04	<ul><li>Magnesium compounds</li><li>Calcium compounds</li></ul>	5/066	<ul> <li>. • {compounds with Al linked to an element other than Al, C, H or halogen (this includes Al- cyanide linkage)}</li> </ul>
3/06 3/08	<ul><li>Zinc compounds</li><li>Cadmium compounds</li></ul>	5/067	• • • {compounds with Al also linked to H or halogen}
3/10	Mercury compounds	5/068	• • • {preparation of alum(in)oxanes}
3/103	• • {without C-Mercury linkages}	5/069	• • {without C-aluminium linkages}
3/12	<ul> <li>Aromatic substances containing mercury</li> </ul>		
3/14	. Heterocyclic substances containing mercury	7/00	Compounds containing elements of Groups 4 or 14 of the Periodic Table
5/00	Compounds containing elements of Groups 3 or 13	7/003	• {without C-Metal linkages}

7/02	Silicon compounds	7/122	• • • • {by reactions involving the formation of
7/025	• • {without C-silicon linkages}		Si-C linkages (hydrosilylation reactions
7/04	Esters of silicic acids		<u>C07F 7/14</u> ; direct synthesis <u>C07F 7/16</u> )}
7/06	• • • with hydroxyaryl compounds	7/123	• • • • {by reactions involving the formation of
7/07	Cyclic esters		Si-halogen linkages}
7/08	Compounds having one or more C—Si linkages	7/125	• • • • {by reactions involving both Si-C and Si-
7/0801			halogen linkages, the Si-C and Si-halogen
7/0803			linkages can be to the same or to different
7/0805			Si atoms, e.g. redistribution reactions}
		7/126	• • • • {by reactions involving the formation of
7/0807	· • • • • • • • • • • • • • • • • • • •		Si-Y linkages, where Y is not a carbon or
7/081	{comprising at least one atom selected from		halogen atom}
<b>5</b> /001 <b>3</b>	the elements N, O, halogen, S, Se or Te}	7/127	• • • • {by reactions not affecting the linkages to
7/0812			the silicon atom}
7/0814		7/128	• • • • {by reactions covered by more than one of
	by Si}		the groups <u>C07F 7/122</u> - <u>C07F 7/127</u> and
7/0816			of which the starting material is unknown
7/0825	{Preparations of compounds not comprising		or insufficiently determined}
	Si-Si or Si-cyano linkages}	7/14	Preparation thereof from {optionally
7/0827	{Syntheses with formation of a Si-C bond}		substituted} halogenated silanes and
7/0829			hydrocarbons {hydrosilylation reactions}
7/083	• • • • {Syntheses without formation of a Si-C	7/16	Preparation thereof from silicon and
7,000	bond}	7710	halogenated hydrocarbons {direct synthesis}
7/0832	,	7/18	Compounds having one or more C—Si
7/0834		7/10	linkages as well as one or more C—O—Si
7/0034	(for compounds with C-O-Si linkages see		linkages
	(101 compounds with C-0-51 linkages <u>sec</u> <u>C07F 7/18</u> )}	7/1804	{Compounds having Si-O-C linkages (Si-O-
7/0926		//1004	acyl linkages <u>C07F 7/1896</u> )}
7/0836	•	7/1070	
7/0020	O-metal linkage}	7/1872	{Preparation; Treatments not provided for
7/0838	•	<b>5</b> 40 <b>5</b> 6	in <u>C07F 7/20</u> }
	Si sequences (compounds with a ring	7/1876	• • • • • {by reactions involving the formation of
	containing only alternating Si and O atoms,		Si-C linkages}
<b>5</b> /00 <b>5</b>	i.e. cyclosilanes CO7F 7/21)}	7/188	• • • • • • • • • • • • • • • • • • •
7/087	{Compounds of unknown structure		Si-O linkages}
	containing a Si-O-Si sequence}	7/1884	• • • • {by dismutation}
7/0872	,	7/1888	• • • • • {by reactions involving the formation of
7/0874			other Si-linkages, e.g. Si-N}
	O-Si linkage}	7/1892	• • • • • {by reactions not provided for in
7/0876	ξ		<u>C07F 7/1876</u> - <u>C07F 7/1888</u> }
	of bonds to a Si atom of a Si-O-Si	7/1896	• • • {Compounds having one or more Si-O-acyl
	sequence other than a bond of the Si-O-		linkages}
	Si linkage}	7/20	Purification, separation
7/0878	S {Si-C bond}	7/21	Cyclic compounds having at least one ring
7/0879	• • • • • • {Hydrosilylation reactions}		containing silicon, but no carbon in the ring
7/0889	{Reactions not involving the Si atom of	7/22	. Tin compounds
	the Si-O-Si sequence}	7/2204	• • {Not belonging to the groups
7/089	• • • • {Treatments not covered by a preceding	772201	<u>C07F 7/2208</u> - <u>C07F 7/2296</u> }
	group}	7/2208	• • {Compounds having tin linked only to carbon,
7/0892	{Compounds with a Si-O-N linkage}	772200	hydrogen and/or halogen}
7/0894		7/2224	{Compounds having one or more tin-oxygen}
7/0896		112224	linkages}
7/0898		7/226	<u> </u>
	The state of the s	7/226	• • {Compounds with one or more Sn-S linkages}
7/10	containing nitrogen {having a Si-N linkage}	7/2284	• • {Compounds with one or more Sn-N linkages}
7/12	Organo silicon halides	7/2288	• • {Compounds with one or more Sn-metal
7/121	• • • • {Preparation or treatment not provided for in		linkages}
	<u>C07F 7/14, C07F 7/16</u> or <u>C07F 7/20</u> }	7/2296	• • {Purification, stabilisation, isolation}
	NOTE	7/24	<ul> <li>Lead compounds</li> </ul>
		7/26	Tetra-alkyl lead compounds
	{The silicon atom involved in the reaction	7/28	Titanium compounds
	that is attached or becomes attached	7/30	Germanium compounds
	to the highest number of halide atoms		•
	determines classification.}	9/00	Compounds containing elements of Groups 5 or 15
			of the Periodic Table

Prospheres consensually (sugar phesphanes   19142   with hydroxyalkyl compounds without process calls   19152   with hydroxyalkyl compounds   19143   with the substitutents on alkyl   19153   with unsaturated acyclic talechols   19144   with cycloallyhatic alcohols   19145   with cycloallyhatic alcohols   19157   with cycloallyhatic alcohols   19158   with hydroxyalkyl compounds with interest and the cyclic compounds   19158   with hydroxyalkyl compounds with interest and the cyclic compounds   19159   191	9/005	• {Compounds of elements of Group 5 of the Periodic Table without metal-carbon linkages}	9/1418 {Compounds containing the structure P-O-N}
nucleic acids (COTI 2.100)  Pul25   Purification, Separation, Stabilisation; Deadorisation of organo-phosphorus cumpounds (of aniural phosphatides (COTI 9.103) phosphines (COTI 9.10505)   9/145   with hydroxyard (compounds of COTI 9.10505)   9/146   containing the shalled groups   9/148   Esters of thiophosphoric acide or thiophosph	9/02	Phosphorus compounds (sugar phosphates	9/142 with hydroxyalkyl compounds without
Purifications, Separations, Subilisations			
Desodorisation of organo-phosphorus compounds (Orin study allosphaides COTF 9105) shoughines (OTF 9105) shou	9/025		· · · · · · · · · · · · · · · · · · ·
cof natural phosphatides COTF 9/103; phosphines COTF 9/105; phosphorus suffer compounds with hydrocarbons         9/16         Esters of thiophosphoric acids or thiophosphoric acids or thiophosphorus acids           9/16         without P − C bonds         9/165         Esters of thiophosphoric acids           9/165         (Organo-phosphoranes without P ⊂ Donds)         9/165         (with hydroxyally compounds with further substituents on alkyl)           9/165         (Phosphophoranes containing the structure P − N−1         (Phosphophoranes containing the structure by thiophosphoric acid groups)           9/167         (Phyliphosphoranes containing the structure containing the structure prevails of phosphoral (COTF 9/082 takes precedency)         9/1653         (Visit anylalkanols)         (Visit anylalkanols)         (Visit anylalkanols)         (Visit anylalkanols)         (Visit anylalkanols)         (Visit anylalkanols)         (PicNin X-C(X-X) CA - O, S, Se; n = 0, 1)         (Compounds containing the structure p(∞X) - S, Se; n = 0, 1)         (Visit anylalkanols)         (Visit anylal	)/O23		
COFF 9-5055    One   Reaction protoles of plusphorus sulfur compounds with hydrocarbons   9/165   Esters of thiophosphoric acids or thiophosphoric acids   9/165   (with hydrocyally) compounds with hydrocarbons   9/165   (with hydrocyally) compounds with hydrocarbons   9/165   (with hydrocyally) compounds with further substituents on alky)   9/165   (Phosphoranes containing the structure   P=N-1   (cyclic compounds   9/1652   Photyo derivatives esterified at least twice by thiophosphoric acid groups   9/1653   (with arylaikanols)   9/1654   (Compounds containing the structure   P=N-1   (cyclic compounds   9/1653   (with arylaikanols)   P(=N) = N-2   (Compounds orbitating the structure   P=N-1   (cyclic compounds   9/1654   (Compounds containing the structure   P(=N) = N-2   (Compounds containing the structure   P(=O) = O, CN)   9/1658   (Esters of thiophosphoric acid groups   9/1659   (Compounds containing the structure   P(=N) = N-2   (Compounds containing the structure   P(=N) = N-2   (Compounds containing the structure   P(=O) = O, CN)   (Compou			
Reaction products of phosphorus suffur compounds with hydrocarbons			
compounds with hydrocarbons 906 without P—C bonds 9062 (Ognano-phosphoraes without P-C bonds) 9065 (Phosphoraes containing the structure P—N-1 9066 (Phosphoraes containing the structure P—N-1 9067 (Phosphoraes containing the structure (P—N-n) (cyclic compounds COTP-085(12)) 9068 (Posphoraes containing the structure (P—N-n) (cyclic compounds COTP-085(12)) 9070 (Posphoraes containing the structure (P—N-n) (cyclic compounds COTP-085(12)) 908 (Palaybosphazenes containing the structure (P—N-n) (cyclic compounds COTP-085(12)) 909 (Posphoraes (P—N-n) (cyclic compounds COTP-085(12)) 909 (Posphorae cids 909 (With hydroxyally) compounds with further substituents on alky1) 909 (With hydroxyally) compounds with further substituents on alky1) 9090 (with hydroxyally) compounds with further substituents on alky1) 9090 (Polyo derivative sesterified at least twice by phosphoric acid groups) 9091 (with hydroxyally) compounds with further substituents on alky1) 9092 (substituted by B, Si or a metal) 9093 (Polyo) derivatives sesterified at least twice by phosphoric acids 9094 (with arylalkanols) 9095 (Compounds containing the structure P(=X)n-X-C(X-O, S, Se, n=0, 1) 9096 (Compounds containing the structure P(=O)-O-CC X) P(=O)-O-CC X) 9097 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se, p) 9098 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se, p) 9099 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se, p) 9090 (Polyo) (Polyonophoric acids or anhydrides) 9091 (Polyonophoric acids or anhydrides) 9092 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se, p) 9093 (Polyonophoric acids or anhydrides) 9094 (Polyonophoric acids or anhydrides) 9095 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se, p) 9096 (Polyonophoric acids or anhydrides) 9097 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se, p) 9098 (Polyonophoric acids or anhydrides) 9099 (Perpendiction to purification by physical or chemical reatment of natural phosphatics (Perpendiction of compositions containin	9/04	Reaction products of phosphorus sulfur	
9060   Organo-phosphoranes without P-C bonds   9065   (Phosphoranes containing the structure P=N-1   19thosphoranes containing the structure P=N-1   19thosphorane caid groups   19thosphorane caid gr		compounds with hydrocarbons	
Organo-phosphoranes without P-C bonds   Phosphoranes containing the structure   P-N-  Phosphoranes   P-N-	9/06	without P—C bonds	
Pince   Pinc	9/062	• • {Organo-phosphoranes without P-C bonds}	
Polyphosphazenes containing the structure   P-N-1 (cyclic compounds   9/1654   Compounds containing the structure   P(-X)n X-acyl, P(-X)n X-heteroatom, P(-X)n X-CX (X - O, S, Se, n = 0, 1)	9/065	· · · · · · · · · · · · · · · · · · ·	9/1652 {Polyol derivatives esterified at least twice
structure [P-Nn] (cyclic compounds COTP 9/063 12)  9.08	9/067		
Selars of coyacids of phosphorus (COTF 9.062 takes precedence)			
takes precedence    9/1655   (Compounds containing the structure   P(=X)n-S-(S)x (X = O, S, Se n=0.1; x=1)	9/08		P(=X)n-X-acyl, $P(=X)n-X-heteroatom$ ,
9/09         Esters of phosphoric acids         P(=X)n-S-(S)x- (X = O, S, Se; n=0,1; x>=1)           9/091         {with hydroxyalkyl compounds with further substituted by B, Si or a metal   yellow derivatives esterified at least twice by phosphoric acid groups   9/1657         {Compounds containing the structure P(=X)n-X-C(=X) (X = O, S, Se; n = 0, 1)}           9/093         {Polyol derivatives esterified at least twice by phosphoric acid groups   9/1657         {Compounds containing the structure P(=O)-0-acyl, P(=O)-O-beteroatom, P(=O)-0-Acyl, P(=O)-O-beteroatom, P(=O)-O-C(=X). (X = O, S, Se))         9/1657         {Esters of thiopolyphosphoric acids or anhydrides} anhydrides   9/1678           9/096         {Compounds containing the structure P(=O)-O-C(=X). (X = O, S, Se))         9/17         with hydroxyalkyl compounds without further substituents on alkyl with unsaturated acyclic alcohols P(=O)-O-N)         9/17         with hydroxyalkyl compounds without further substituents on alkyl with unsaturated acyclic alcohols 9/20         yill with hydroxyalkyl compounds without further substituents on purification by physical or chemical treatment of natural phosphatides, e.g. lecithin         9/200         containing the structure Hal-P-X-arryl phosphoric acids or phosphatides; Preparation of compositions containing phosphatides of unknown structure}         9/200         Esters of thiophosphorus acids or leave the substituents on alkyl with hydroxyalkyl compounds with further substituents on alkyl with hydroxyalkyl compounds with further substituents on alkyl with hydroxyalkyl compounds without further substituents on alkyl with unsaturated acyclic alcohols         9/201         Esters of thiophosphorus acids without further subst			
	9/09	Esters of phosphoric acids	
further substituents on alkyl   9/1656   (Compounds containing the structure   9/1093   (Polyol derivatives esterified at least twice by phosphoric acid groups)   9/1657   (Compounds containing the structure   P(-N)n-X-N(X = O, S, Se; n = 0, 1)   1)   9/105   (Compounds containing the structure   P(-O)-O-acyl, P(-O)-O-heteroattom, P(-O)-O-acyl, P(-O)-O-heteroattom, P(-O)-O-CN)   9/1658   (Esters of thiopolyphosphoric acids or anhydrides)   9/167   with hydroxyalkyl compounds without further substituents on alkyl   1/17   with cycloaliphatic alcohols   9/17   with cycloaliphatic alcohols   9/17   with cycloaliphatic alcohols   9/18   with unsaturated acyclic group   9/108   (Esters of polyphosphoric acids or anhydrides)   9/200   containing P-halide groups   9/200   containing P-halide groups   9/200   containing the structure Hal-P-X-anyl physical or chemical treatment of natural phosphatides of unknown structure   9/201   (Extraction or purification by phospharides)   9/201   (Esters of thiophosphorius acids or anhydrides)   9/201   (Esters of thiophosphorius acids or anhydrides)   9/201   (Esters of polyphosphoric acids or anhydrides)   9/200   (Containing the structure Hal-P-X-anyl)   9/201   (Esters of thiophosphorius acids or anhydrides)   9/201   (Esters of thiophosphorius acids or anhydrides)   9/201   (Esters of thiophosphorius acids or anhydrides)   9/201   (Esters of thiophosphorius acids   9/201   (Esters of t	9/091	• • • • { with hydroxyalkyl compounds with	
9/902         {substituted by B, Si or a metal}         P(-X)n.X-C(=X)- (X = 0, S, Se; n = 0, 1)}           9/093         {Polyod derivatives esterified at least twice by phosphoric acid groups}         9/1657         (Compounds containing the structure P-A)n.X-N (X = 0, S, Se; n = 0, 1)}           9/094         {with arylalkanols}         P(-X)n.X-N (X = 0, S, Se; n = 0, 1)}           9/095         {Compounds containing the structure P(-O)-O-CN}         9/1658         {Esters of inpolyphosphoric acids or anhydrides}           9/096         {Compounds containing the structure P(-O)-O-CN}         9/17         with hydroxyalkyl compounds without further substituents on alkyl           9/097         {Compounds containing the structure P(-O)-O-N}         9/17         with unsaturated acyclic alcohols           9/098         {Esters of polyphosphoric acids or anhydrides}         9/18         with hydroxyalkyl compounds           9/108         {Esters of polyphosphoric acids or anhydrides}         9/20         containing P-halide groups           9/109         {Esters of polyphosphoric acids or anhydrides}         9/200         containing P-halide groups           9/109         {Esters of polyphosphoric acids or anhydrides}         9/200         containing the structure Hal-P-X-aryl}           9/101         Phosphatides}         9/200         containing the structure Hal-P-X-aryl}           9/102         (Adducts, complexes, salt		further substituents on alkyl}	
Polysis   Poly	9/092	• • • • {substituted by B, Si or a metal}	
9/094 (with arylalkanols) 9/095 (Compounds containing the structure P(=0)-O-acyl, P(=0)-O-heteroatom, P(=0)-O-Cx) (X = O, S, Se) (P(=0)-O-Cx) (X = O, S, Se)) 9/096 (Compounds containing the structure P(=0)-O-C(=X) (X = O, S, Se)) 9/097 (Compounds containing the structure P(=0)-O-C(=X) (X = O, S, Se)) 9/098 (Esters of polyphosphoric acids or anhydrides) 9/098 (Esters of polyphosphoric acids or anhydrides) 9/10 (Pophatides, e.g. lecithin 9/10 (Phosphatides, e.g. lecithin 9/10 (Phosphatides, e.g. lecithin 9/10 (Phosphatides, e.g. lecithin 9/10 (Phosphatides) 9/10	9/093	{Polyol derivatives esterified at least twice	
9,094 (with arylalkanols) 9,095 (Compounds containing the structure P(-O)-O-acyl, P(-O)-O-heteroatom, P(-O)-O-acyl, P(-O)-O-heteroatom, P(-O)-O-acyl, P(-O)-O-heteroatom, P(-O)-O-Cacyl, P(-O)-O-heteroatom, P(-O)-O-Cacyl, P(-O)-O-heteroatom, P(-O)-O-Cacyl, P(-O)-O-heteroatom, P(-O)-O-Cacyl, P(-O)-O-Keroatom, P(-O)-O-Cacyl, V(-O)-Keroatom, P(-O)-O-Keroatom, P(-O)-Co-Keroatom, P(-O)-Co-Keroatom, P(-O)-Co-Keroatom, P(-O)-Co-Keroatom, P(-O)-Co-Ke		by phosphoric acid groups}	9/1657 {Compounds containing the structure
P(=O)-O-CN} P(=O)-O-CN] 9/096  . {Compounds containing the structure P(=O)-O-C(=X)-(X = O. S. Se)} 9/097  . {Compounds containing the structure P(=O)-O-C(=X)-(X = O. S. Se)} 9/097  . {Compounds containing the structure P(=O)-O-N} 9/107  . {Compounds containing the structure P(=O)-O-N} 9/108  . {Esters of polyphosphoric acids or anhydrides} 9/10  . Phosphatides, e.g. lecithin 9/200  . {Extraction or purification by physical or chemical treatment of natural phosphatides; Preparation of compositions containing phosphatides of unknown structure P(=O)-O-N) 9/106  . {Adducts, complexes, salts of phosphatides} 9/111  . with hydroxyalkyl compounds without further substituents on alkyl 9/113  . with unsaturated acyclic alcohols 9/117  . with cycloaliphatic alcohols 9/117  . with cycloaliphatic alcohols 9/118  . containing the structure Hal-P(=O)-Ounsaturated acyclic group) 9/1406  . {Containing the structure Hal-P(=O)-Ounsaturated acyclic group) 9/1406  . {Containing the structure Hal-P(=O)-Ounsaturated acyclic group) 9/1416  . {Polyol derivatives esterified at least twice by phosphorous acids groups 9/1411  . {With hydroxyalkyl compounds with further substituents on alkyl 9/141  . {With hydroxyalkyl compounds with further substituents on alkyl 9/141  . {Polyol derivatives esterified at least twice by phosphorous acids groups 9/1414  . {With aylalkanols} 9/1415  . {Compounds containing the structure P-Oundaylalkyl compounds} 9/1416  . {Compounds containing the structure P-Oundaylalkyl compounds} 9/1417  . {Compounds containing the structure P-Oundaylalkyl compounds} 9/1418  . {Compounds containing the structure P-Oundaylalkyl compounds} 9/1419  . {Compounds containing the structure P-Oundaylalkyl compounds} 9/1411  . {Compounds containing the structure P-Oundaylalkyl compounds} 9/1415  . {Compounds containing the structure P-Oundaylalkyl compounds} 9/1417  . {Compounds containing the structure P-Oundaylalkyl compo	9/094	• • • • { with arylalkanols }	
P(=O)-O-CN) P(096   Compounds containing the structure P(=O)-O-C(=X)- (X = O, S, Se)) P(097   Compounds containing the structure P(=O)-O-C(=X)- (X = O, S, Se)) P(098   Esters of polyphosphoric acids or anhydrides) P(=O)-O-R) P(098   Esters of polyphosphoric acids or anhydrides) P(099   Phosphatides) P(099   Phosphatides) P(099   Phosphatides) P(090   Phosphatides, e.g. lecithin P(090   Phosphatides, e.g.	9/095		
Position			
P(=0) -0-N   9/18   with hydroxyaryl compounds	9/096		
Proposition		P(=O)-O-C(=X)-(X=O, S, Se)	9/173 with unsaturated acyclic alcohols
P(=O)-O-N    9/18   with hydroxyaryl compounds   9/20   containing P-halide groups   9/10   Phosphatides, e.g. lecithin   9/2003   (containing P-halide groups   9/2003   (containing the structure Hal-P-X-aryl)   9/2004   (containing the structure Hal-P-X-aryl)   9/2004   (containing the structure Hal-P-X-aryl)   9/2005   (containing the structure Hal-P-X-aryl)   9/2015   (containing the structure Hal-P-X-aryl)   9/2016   (containing the structure Hal-P-X-aryl)   9/202   (containing the structure Hal-P-X-aryl)   9/203   (containing the structure Hal-P-X-aryl)   9/204   (containing the structure Hal-P-X-aryl)   9/205   (containing P-halide groups   9/206   (containing He structure P-N-N, e.g. azides, hydrazides)   9/240   (containing He structure P-N-N, e.g. azides, hydrazides)	9/097		9/177 with cycloaliphatic alcohols
Sesters of polyphosphoric acids or anhydrides   9/200   9/2003   (containing P-halide groups anhydrides)   9/2003   (containing the structure Hal-P-X-unsaturated acyclic group)   9/2006   (containing the structure Hal-P-X-aryl)   Physical or chemical treatment of natural phosphatides; Preparation of compositions containing phosphatides of unknown structure   9/201   Esters of thiophosphorus acids   9/2015   (with hydroxyalkyl compounds with further substituents on alkyl)   9/2016   (Adducts, complexes, salts of phosphatides)   9/202   with hydroxyal compounds without further substituents on alkyl)   9/203   with unsaturated acyclic alcohols   9/204   with unsaturated acyclic alcohols   9/205   with hydroxyaryl compounds   9/206   containing P-halide groups   9/204   with unsaturated acyclic alcohols   9/205   with unsaturated acyclic alcohols   9/206   containing P-halide groups   9/206   with unsaturated acyclic alcohols   9/206   containing P-halide groups   9/206   containing the structure P-IN-N, e.g. azides, hydrazides   9/206   containing the structure P-IN-			
anhydrides} 9/103 Phosphatides, e.g. lecithin 9/2006 Containing the structure Hal-P-X-unsaturated acyclic group} 9/103 Esters of thiophosphorus acids physical or chemical treatment of natural phosphatides; Preparation of compositions containing phosphatides of unknown structure}  9/106 Adducts, complexes, salts of phosphatides of unknown structure}  9/107 With hydroxyalkyl compounds without further substituents on alkyl phosphatides}  9/108 Adducts, complexes, salts of phosphatides of unknown structure}  9/109 With hydroxyalkyl compounds without further substituents on alkyl phosphatides}  9/109 With hydroxyalkyl compounds without further substituents on alkyl phosphatides}  9/109 With unsaturated acyclic alcohols place with unsaturated acyclic alcohols place with hydroxyaryl compounds place of containing Phallide groups place of containing place of phosphorus acids place of place of place of pla	9/098		
9/10 Phosphatides, e.g. lecithin 9/103			
physical or chemical treatment of natural phosphatides; Preparation of compositions containing phosphatides of unknown structure}  9/106			
natural phosphatides; Preparation of compositions containing phosphatides of unknown structure}  9/106	9/103	*	9/2006 {containing the structure Hal-P-X-aryl}
compositions containing phosphatides of unknown structure}  9/106			9/201 Esters of thiophosphorus acids
unknown structure}  9/106			9/2015 { with hydroxyalkyl compounds with
9/106			further substituents on alkyl}
phosphatides} 9/11 with hydroxyalkyl compounds without further substituents on alkyl 9/13 with unsaturated acyclic alcohols 9/117 with cycloaliphatic alcohols 9/118 with unsaturated acyclic alcohols 9/119 with cycloaliphatic alcohols 9/110 with cycloaliphatic alcohols 9/111 with cycloaliphatic alcohols 9/111 with cycloaliphatic alcohols 9/12 with hydroxyaryl compounds 9/12 with hydroxyaryl compounds 9/14 containing P(-O)-halide groups 9/14 containing the structure Hal-P(-O)-O- unsaturated acyclic group) 9/140 containing the structure Hal-P(-O)-O- aryl} 9/140 Esters of phosphorous acids 9/141 Esters of phosphorous acids 9/141 (With hydroxyalkyl compounds with further substituents on alkyl 9/141 {Phosphorus triamides} 9/142 {Containing the structure Hal-P(-O)-O- aryl} 9/143 {With hydroxyalkyl compounds with further substituents on alkyl 9/144 {With arylalkanols} 9/145 {Polyol derivatives esterified at least twice by phosphorous acid groups} 9/1414 {With arylalkanols} 9/1415 {Compounds containing the structure P-O- acyl, P-O-heteroatom, P-O-CN} 9/1417 {Compounds containing the structure P- 9/1418 {Compounds containing the structure P- 9/1419 {Compounds containing the structure P- 9/1410 {Compounds containing the structure P- 9/1411 {Compounds containing the structure P- 9/1412 {Compounds containing the structure P- 9/1415 {Compounds containing the structure P- 9/1416 {Compounds containing the structure P- 9/1417 {Compounds containing the structure P- 9/1418 {Compounds cont	0/106		
9/11 with hydroxyalkyl compounds without further substituents on alkyl  9/204 with cycloaliphatic alcohols  9/105 with hydroxyaryl compounds  9/107 with cycloaliphatic alcohols  9/108 with hydroxyaryl compounds  9/109 containing P-halide groups  9/22 containing the structure Hal-P(=O)-O- unsaturated acyclic group}  9/109 containing the structure Hal-P(=O)-O- aryl}  9/109 containing the structure P-N-N, e.g. azides, hydrazides}  9/1	9/100	· · · · · · · · · · · · · · · · · · ·	substituents on alkyl
further substituents on alkyl  9/204	0/11		9/203 with unsaturated acyclic alcohols
9/113	9/11		• •
9/117 with cycloaliphatic alcohols 9/12 with hydroxyaryl compounds 9/14 containing P(=O)-halide groups 9/14 containing P(=O)-halide groups 9/1403 {containing the structure Hal-P(=O)-O-	9/113	· · · · · · · · · · · · · · · · · · ·	9/205 with hydroxyaryl compounds
9/12		•	9/206 containing P-halide groups
9/14 containing P(=O)-halide groups 9/1403 {containing the structure Hal-P(=O)-O-unsaturated acyclic group} 9/1406 {containing the structure Hal-P(=O)-O-aryl} 9/141 Esters of phosphorous acids 9/1411 {with hydroxyalkyl compounds with further substituents on alkyl} 9/1412 {Polyol derivatives esterified at least twice by phosphorous acid groups} 9/1414 {with arylalkanols} 9/1415 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN} 9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN} 9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, processed and			9/22 Amides of acids of phosphorus
9/1403 {containing the structure Hal-P(=O)-O-			9/222 {Amides of phosphoric acids}
unsaturated acyclic group}  9/1406 {containing the structure Hal-P(=O)-O-aryl}  9/141 Esters of phosphorous acids  9/1411 {with hydroxyalkyl compounds with further substituents on alkyl}  9/1412 {Polyol derivatives esterified at least twice by phosphorous acid groups}  9/1414 {with arylalkanols}  9/1415 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1416 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}			9/224 {Phosphorus triamides}
9/1406 {containing the structure Hal-P(=O)-O-aryl}  9/141 Esters of phosphorous acids  9/1411 {with hydroxyalkyl compounds with further substituents on alkyl}  9/1412 {Polyol derivatives esterified at least twice by phosphorous acid groups}  9/1414 {with arylalkanols}  9/1415 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-O-aryl, P-O-heteroatom, P-O-CN}  9/1416 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1418 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1419 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}	9/1403		9/226 {containing the structure P-isocyanates}
9/141	9/1406		
9/1411 {with hydroxyalkyl compounds with further substituents on alkyl}  9/1412 {Polyol derivatives esterified at least twice by phosphorous acid groups}  9/1414 {with arylalkanols}  9/1415 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}		• •	
further substituents on alkyl}  9/1412 {Polyol derivatives esterified at least twice by phosphorous acid groups}  9/1414 {with arylalkanols}  9/1415 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1418 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}  9/1419 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN}			
by phosphorous acid groups}  9/1414 {with arylalkanols}  9/1415 {Compounds containing the structure P-Oacyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-Oacyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-Oacyl, P-O-heteroatom, P-O-CN}  9/1417 {Compounds containing the structure P-Oacyl, P-O-heteroatom, P-O-CN}  9/1418 {Compounds containing the structure P-Oacyl, P-O-heteroatom, P-O-CN}  9/1419 {Compounds containing the structure P-Oacyl, P-O-heteroatom, P-O-CN}  9/1419 {Compounds containing the structure P-Oacyl, P-O-heteroatom, P-O-CN}  9/1419 {Compounds containing the structure P-Oacyl, P-O-heteroatom, P-O-CN}	9/1411	further substituents on alkyl}	or a structure which is considered as
9/1414 {with arylalkanols} 9/2412 {of unsaturated acyclic alcohols} 9/1415 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN} 9/2416 {of cycloaliphatic alcohols} 9/2417 {Compounds containing the structure P-	9/1412		
9/1415 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN} 9/2416 {of cycloaliphatic alcohols} 9/242 {of hydroxyaryl compounds}			
acyl, P-O-heteroatom, P-O-CN}  9/242 {of hydroxyaryl compounds}  9/1417 {Compounds containing the structure P-	9/1414		
9/1417 {Compounds containing the structure P-	9/1415		
		· · · · · · · · · · · · · · · · · · ·	9/242 {of hydroxyaryl compounds}
	9/1417		

9/2425	• • • • {containing the structure (RX)	9/3223 • • • • • {Esters of cycloaliphatic acids}
	(RR'N)P(=Y)-Z-(C)n-Z'-P(=Y)(XR)2(X	9/3229 {Esters of aromatic acids (P-C aromatic
	= O, S, NR; Y = O, S, electron pair; $Z =$	linkage)}
	O, S; Z' = O, S)	9/3235 {Esters of poly(thio)phosphinic acids}
9/2429	$\cdot \cdot \cdot \cdot \cdot \cdot \{ \text{ of arylalkanols} \}$	
		9/3241 {Esters of arylalkanephosphinic acids}
9/2433	• • • • • {Compounds containing the structure	9/3247 {Esters of acids containing the structure
	N-P(=X)n-X-acyl, $N-P(=X)n-X-$	-C(=X)-P(=X)(R)(XH) or $NC-P(=X)(R)$
	heteroatom, $N-P(=X)n-X-CN$ ( $X = O, S,$	(XH), (X = O, S, Se)
	Se; $n = 0, 1$ )	9/3252 {containing the structure $-C(=X)$ -
9/2437	• • • • • • Compounds containing the structure	
7/2431		P(=X)(R)(XR), (X = O, S, Se)
	N-P(=X)n-S-(S)x-(X = O, S, Se;	9/3258 {the ester moiety containing a substituent
	n=0,1; x>=1)	or a structure which is considered as
9/2441	• • • • • • { containing the structure $N-P(=X)n-$	characteristic}
	$X-C(=X)$ (X = O, S, Se; n = 0, 1)}	9/3264 {Esters with hydroxyalkyl compounds}
9/2445	• • • • • {containing the structure N-P(=X)n-	
	X-N (X = 0, S, Se; n = 0, 1)	`
0/245		alcohols}
9/245	{containing the structure N-P(=X)n-	9/3276 {Esters with cycloaliphatic alcohols}
	X-P(X = O, S, Se; n = 0, 1)	9/3282 {Esters with hydroxyaryl compounds}
9/2454	• • • • { the amide moiety containing a substituent	9/3288 {Esters with arylalkanols}
	or a structure which is considered as	
	characteristic }	9/3294 (Compounds containing the structure
9/2458	• • • • { of aliphatic amines }	R2P(=X)-X-acyl, R2P(=X)-X-
		heteroatom, $R2P(=X)-X-CN$ (X = O, S,
9/2462	• • • • • {of unsaturated acyclic amines}	Se)}
9/2466	• • • • • {of cycloaliphatic amines}	9/34 Halides thereof
9/247	• • • • • { of aromatic amines (N-C aromatic	9/36 Amides thereof
	linkage)}	
9/2475	· · · · · { of aralkylamines}	9/38 Phosphonic acids $[RP(=O)(OH)_2]$ ;
		Thiophosphonic acids $\{; [RP(=X_1)(X_2H)_2(X_1,$
9/2479	• • • • • {Compounds containing the structure	$X_2$ are each independently O, S or Se)]}
	P(=X)n-N-acyl, P(=X)n-N-heteroatom,	9/3804 {not used, see subgroups}
	P(=X)n-N-CN (X = O, S, Se; n = 0, 1)	9/3808 {Acyclic saturated acids which can have
9/2483	• • • • • {containing the structure P(=X)n-N-S	
212100	(X = O, S, Se; n = 0, 1)	further substituents on alkyl}
0/2/197		9/3813 (N-Phosphonomethylglycine; Salts or
9/2487	{containing the structure P(=X)n-N-	complexes thereof}
	C(=X) (X = 0, S, Se; n = 0, 1)	9/3817 {Acids containing the structure
9/2491	$\cdot \cdot $	(RX)2P(=X)-alk-NP(X = O, S, Se)
	(X = O, S, Se; n = 0, 1)	9/3821 {substituted by B, Si, P or a metal
9/2495	• • • • • • {containing the structure $P(=X)n-N-P$	
J, <b>2</b> . J C	(X = O, S, Se; n = 0, 1)	(C07F 9/3839  takes precedence)
0/26		9/3826 {Acyclic unsaturated acids}
9/26	containing P-halide groups	9/383 {Cycloaliphatic acids}
9/28	• • with one or more P—C bonds	9/3834 { Aromatic acids (P-C aromatic linkage)}
9/30	• • Phosphinic acids [R <sub>2</sub> P(=O)(OH)];	9/3839 {Polyphosphonic acids}
	Thiophosphinic acids $\{; [R_2P(=X_1)(X_2H) (X_1, \dots, X_n]\} \}$	* ** *
	X <sub>2</sub> are each independently O, S or Se)]}	9/3843 {containing no further substituents than
0/201		-PO <sub>3</sub> H <sub>2</sub> groups}
9/301	{Acyclic saturated acids which can have	9/3847 {Acyclic unsaturated derivatives}
	further substituents on alkyl}	9/3852 {Cycloaliphatic derivatives}
9/302	{Acyclic unsaturated acids}	9/3856 {containing halogen or nitro(so)
9/303	{Cycloaliphatic acids}	
9/304	• • • • {Aromatic acids (P-C aromatic linkage)}	substituents}
		9/386 (containing hydroxy substituents in the
9/305	• • • {Poly(thio)phosphinic acids}	hydrocarbon radicals}
9/306	• • • • {Arylalkanephosphinic acids, e.g. Ar-	9/3865 {containing sulfur substituents}
	(CH2)n-P(=X)(R)(XH), (X = O,S, Se;	· · · · · · · · · · · · · · · · · · ·
	n>=1)}	9/3869 {containing carboxylic acid or
9/307	• • • • {Acids containing the structure -C(=X)-	carboxylic acid derivative substituents}
7,301	P(=X)(R)(XH) or $NC-P(=X)(R)(XH)$ , $(X =$	9/3873 {containing nitrogen substituent,
		e.g. NH or N-hydrocarbon group
	O, S, Se)}	which can be substituted by halogen or
9/308	• • • • {Pyrophosphinic acids; Phosphinic acid	nitro(so), NO, NS, NC(=X)-
	anhydrides}	(X = 0, S), N, N, N, C(=X), N (X = 0, S)
9/32	Esters thereof	
9/3205	• • • • { the acid moiety containing a substituent	S)}
113403	or a structure which is considered as	9/3878 {containing substituents selected from
		B, Si, P (other than -PO <sub>3</sub> H <sub>2</sub> groups) or a
	characteristic }	metal }
9/3211	{Esters of acyclic saturated acids which	9/3882 { Arylalkanephosphonic acids
9/3211		
9/3211 9/3217	{Esters of acyclic saturated acids which	9/3882 {Arylalkanephosphonic acids (C07F 9/3839 takes precedence)}

9/3886	• • • • {Acids containing the structure $-C(=X)$ -	9/4081 {Esters with cycloaliphatic alcohols}
	P(=X)(XH)2  or NC-P(=X)(XH)2, (X = O,	9/4084 {Esters with hydroxyaryl compounds}
	S, Se)}	9/4087 {Esters with arylalkanols}
9/3891	{Acids containing the structure -C(=X)-	9/409 {Compounds containing the structure
0/2005	P(=X)(XH)2, (X = O, S, Se)	P(=X)-X-acyl, $P(=X)-X-heteroatom$ ,
9/3895	{Pyrophosphonic acids; phosphonic acid	P(=X)-X-CN (X = O, S, Se)
0/40	anhydrides}	9/4093 {Compounds containing the structure
9/40 9/4003	<ul><li>Esters thereof</li><li>(the acid moiety containing a substituent)</li></ul>	P(=X)-X-C(=X)-(X=O, S, Se)
9/4003	or a structure which is considered as	9/4096 {Compounds containing the structure $P(=X)-X-N$ ( $X=O,S,Se$ )}
	characteristic}	9/42 Halides thereof
9/4006	• • • • {Esters of acyclic acids which can have	9/425 {Acid or estermonohalides thereof, e.g.
<i>37</i> 1000	further substituents on alkyl}	RP(=X)(YR)(Hal) (X, Y = 0, S; R = H, or
9/4009	{Esters containing the structure	(X, Y = 0, S, K = 1), of hydrocarbon group)
	(RX)2P(=X)-alk-NP(X = O, S,	9/44 Amides thereof
	Se)}	9/4403 {the acid moiety containing a substituent
9/4012	• • • • • {substituted by B, Si, P or a metal	or a structure which is considered as
	$(\underline{\text{C07F 9/4025}} \text{ takes precedence})$	characteristic}
9/4015	• • • • {Esters of acyclic unsaturated acids}	9/4407 {Amides of acyclic saturated acids
9/4018	• • • • • {Esters of cycloaliphatic acids}	which can have further substituents on
9/4021	• • • • • Esters of aromatic acids (P-C aromatic	alkyl}
	linkage)}	9/4411 {Amides of acyclic unsaturated acids}
9/4025	• • • • {Esters of poly(thio)phosphonic acids}	9/4415 {Amides of cycloaliphatic acids}
9/4028	{containing no further substituents	9/4419 {Amides of aromatic acids (P-C
	than -PO <sub>3</sub> H <sub>2</sub> groups in free or	aromatic linkage)}
0/4001	esterified form}	9/4423 {Amides of poly (thio)phosphonic
9/4031	{Acyclic unsaturated derivatives}	acids}
9/4034	{Cycloaliphatic derivatives}	9/4426 {Amides of arylalkanephosphonic
9/4037	{ containing halogen or nitro(so) substituents }	acids}
9/404	• • • • • • {containing hydroxy substituents in	9/443 {Amides of acids containing the structure $-C(=Y)-P(=X)(XR)-N$ or NC-
J/ <del>+</del> 0+	the hydrocarbon radicals}	$\{P(=X)(XR)-N\}$
9/4043	{containing sulfur substituents}	9/4434 {the ester moiety containing a substituent
9/4046	(containing carboxylic acid	or a structure which is considered as
<i>&gt;7</i> .0.0	or carboxylic acid derivative	characteristic}
	substituents}	9/4438 {Ester with hydroxyalkyl compounds}
9/405	{containing nitrogen substituent, e.g.	9/4442 {Esters with unsaturated acyclic
	NH or N-hydrocarbon group which	alcohols}
	can be substituted by halogen or	9/4446 {Esters with cycloaliphatic alcohols}
	nitro(so), NO, NS, NC(=X)-	9/4449 {Esters with hydroxyaryl compounds}
	(X = O, S), NN, NC(=X)N (X	9/4453 {Esters with arylalkanols}
0/4052	=O, S)}	9/4457 {Compounds containing the structure
9/4053	B, Si, P (other than -PO <sub>3</sub> H <sub>2</sub> groups in	C-P(=X)(X-acyl)-N, C-P(=X)(X-acyl)-N
	free or esterified form), or a metal }	heteroatom)-N or $C-P(=X)(X-CN)-N$
9/4056	{Esters of arylalkanephosphonic acids	(X, Y = O, S)
7/4030	(C07F 9/4025 takes precedence)	9/4461 {the amide moiety containing a substituent or a structure which is considered as
9/4059	{Compounds containing the structure	characteristic }
	(RY)2P(=X)-(CH <sub>2</sub> )n-C(=O)-(CH <sub>2</sub> )m-	9/4465 {of aliphatic amines}
	Ar, $(X, Y = O, S, Se; n \ge 1, m \ge 0)$	9/4469 {of unsaturated acyclic amines}
9/4062	• • • • • {Esters of acids containing the structure	9/4473 {of cycloaliphatic amines}
	-C(=X)-P(=X)(XR)2 or NC-P(=X)	9/4476 (of eyerodarphatic arrines)
	(XR)2, (X = O, S, Se)	linkage)}
9/4065	{Esters of acids containing the	9/448 {of aralkylamines}
	structure $-C(=X)-P(=X)(XR)2$ , $(X =$	9/4484 {Compounds containing the structure
0/40/0	O, S, Se)}	C-P(=X)(N-acyl)-X, C-P(=X)(N-
9/4068	{Esters of pyrophosphonic acids; Esters of	heteroatom)-X or C-P(=X)(N-CN)-X (X
0/4071	phosphonic acid anhydrides}	= O, S, Se)
9/4071	• • • • { the ester moiety containing a substituent or a structure which is considered as	9/4488 {Compounds containing the structure
	characteristic}	P(=X)(N-S-) (X = O, S, Se)
9/4075	• • • • • {Esters with hydroxyalkyl compounds}	9/4492 {Compounds containing the structure
9/4078	{Esters with insaturated acyclic	P(=X)(N-C(=X)-)(X=O, S, Se)
	alcohols}	9/4496 {Compounds containing the structure $P(-Y)(N,N) \cdot (Y-O,S,S_0)$ }
	•	P(=X)(N-N-) (X = O, S, Se)

9/46	• • • Phosphinous acids $[R_2POH]$ , $[R_2P(=O)H]$ :	9/5081 {from starting materials having
	Thiophosphinous acids {including[R <sub>2</sub> PSH];	the structure >P-Het, Het being an
	$[R_2P(=S)H]$ ; Aminophosphines $[R_2PNH_2]$ ;	heteroatom different from Hal or Metal}
	Derivatives thereof}	9/5086 {from phosphonium salts as starting
9/48	• • • Phosphonous acids [RP(OH) <sub>2</sub> ] {including	materials}
	[RHP(=O)(OH)]}; Thiophosphonous acids	9/509 {by reduction of pentavalent phosphorus
	{including [RP(SH) <sub>2</sub> ], [RHP(=S)(SH)];	derivatives, e.g. $-P=X$ with $X = O$ , S, Se or
0/4000	Derivatives thereof}	-P-Hal2}
9/4808	• • • { the acid moiety containing a substituent or structure which is considered as	9/5095 {Separation; Purification; Stabilisation}
	characteristic }	9/52 Halophosphines
9/4816	{Acyclic saturated acids or derivatices	9/53 Organo-phosphine oxides; Organo-
<i>)</i> /4010	which can have further substituents on	phosphine thioxides
	alkyl}	9/5304 {Acyclic saturated phosphine oxides or
9/4825	• • • • {Acyclic unsaturated acids or derivatives}	thioxides }  9/5308 {substituted by B, Si, P or a metal}
9/4833	• • • • {Cycloaliphatic acids or derivatives}	9/5312 {substituted by B, SI, F of a filetal}
9/4841	• • • • • • (Aromatic acids or derivatives (P-C	( <u>C07F 9/5329</u> takes precedence)
	aromatic linkage)}	9/5316 {Unsaturated acyclic phosphine oxides or
9/485	• • • • {Polyphosphonous acids or derivatives}	thioxides }
9/4858	• • • • • {Acids or derivatives containing the	9/532 {Cycloaliphatic phosphine oxides or
	structure $-C(=X)-P(XR)2$ or NC-P(XR)2	thioxides}
	(X = O, S, Se)	9/5325 {Aromatic phosphine oxides or thioxides
9/4866	• • • { the ester moiety containing a substituent	(P-C aromatic linkage)}
	or structure which is considered as	9/5329 {Polyphosphine oxides or thioxides}
	characteristic}	9/5333 {Arylalkane phosphine oxides or thioxides
9/4875	• • • • {Esters with hydroxy aryl compounds}	( <u>C07F 9/5329</u> takes precedence)}
9/4883	• • • {Amides or esteramides thereof, e.g.	9/5337 {Phosphine oxides or thioxides containing
	RP(NR'2)2  or  RP(XR')(NR''2) (X = O, S)	the structure $-C(=X)-P(=X)$ or $NC-P(=X)$
9/4891	• • • • {Monohalide derivatives RP (XR') (Hal) (X	(X = O, S, Se)
	= O, S, N) (dihalide derivatives <u>C07F 9/52</u> )}	9/5341 (Organo-phosphine oxides or thioxides
9/50	Organo-phosphines	containing a P-P bond}
9/5004	• • • • {Acyclic saturated phosphines}	9/5345 (Complexes or chelates of phosphine-
9/5009	• • • • {substituted by B, Si, P or a metal	oxides or thioxides with metallic
	(C07F 9/5027 takes precedence)	compounds or metals}
9/5013	• • • {Acyclic unsaturated phosphines}	9/535 Organo-phosphoranes
9/5018	{Cycloaliphatic phosphines}	9/5352 {Phosphoranes containing the structure
9/5022	{Aromatic phosphines (P-C aromatic	P=C-}
0/5007	linkage)}	9/5355 {Phosphoranes containing the structure
9/5027	{Polyphosphines}	P=N-}
9/5031	• • • {Arylalkane phosphines ( <u>C07F 9/5027</u> takes precedence)}	9/5357 {Polyphosphazenes containing the structure [P=N-]n (cyclic phosphazenes
0/5026		C07F 9/65812)}
9/5036	Por NC-P	9/54 Quaternary phosphonium compounds
9/504	• • • {Organo-phosphines containing a P-P bond}	9/5407 {Acyclic saturated phosphonium
9/5045	{Complexes or chelates of phosphines with	compounds}
7/3043	metallic compounds or metals}	9/5414 {substituted by B, Si, P or a metal}
9/505	• • • {Preparation; Separation; Purification;	9/5421 {substituted by a phosphorus atom
7/303	Stabilisation}	(C07F 9/5449 takes precedence)
9/5054	• • • • {by a process in which the phosphorus	9/5428 {Acyclic unsaturated phosphonium
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	atom is not involved}	compounds}
9/5059	• • • • {by addition of phosphorus compounds to	9/5435 {Cycloaliphatic phosphonium compounds}
	alkenes or alkynes}	9/5442 {Aromatic phosphonium compounds (P-C
9/5063	• • • • {from compounds having the structure	aromatic linkage)}
	P-H or P-Heteroatom, in which one or	9/5449 {Polyphosphonium compounds}
	more of such bonds are converted into P-C	9/5456 {Arylalkanephosphonium compounds}
	bonds ( <u>C07F 9/5059</u> takes precedence)}	9/5463 {Compounds of the type "quasi-
9/5068	• • • • • {from starting materials having the	phosphonium", e.g. (C)a-P-(Y)b wherein a
	structure >P-Hal}	+b=4, b>=1 and Y=heteroatom, generally N
9/5072	{from starting materials having the	or O}
	structure P-H ( <u>C07F 9/5059</u> takes	9/547 Heterocyclic compounds, e.g. containing
9/5077	precedence)}	phosphorus as a ring hetero atom
7/JU11	• • • • • • {from starting materials having the structure P-Metal, including $R_2P^*M^+$ }	
	su detaile i -ivietai, meiuding ivii j	

9/5475	{having nitrogen and selenium with or without	9/6527 having nitrogen and oxygen atoms as the only
	oxygen or sulfur as ring hetero atoms; having	ring hetero atoms
	nitrogen and tellurium with or without oxygen	9/653 Five-membered rings
0/552	or sulfur as ring hetero atoms}	9/65306 {containing two nitrogen atoms}
9/553	• • • having one nitrogen atom as the only ring hetero atom	9/65312 {having the two nitrogen atoms in positions 1 and 2}
9/5532	{Seven-(or more) membered rings}	9/65318 {having the two nitrogen atoms in
9/5535	• • • • {condensed with carbocyclic rings or ring	positions 1 and 3}
9/5537	systems} {the heteroring containing the structure -	9/65324 {condensed with carbocyclic rings or carbocyclic ring systems}
	C(=O)-N-C(=O)- (both carbon atoms belong	9/6533 Six-membered rings
	to the heteroring)}	9/65335 {condensed with carbocyclic rings or
9/564	Three-membered rings	carbocyclic ring systems}
9/568	Four-membered rings	9/6536 having nitrogen and sulfur atoms with or
9/5686	• • • • {condensed with carbocyclic rings or ring systems}	without oxygen atoms, as the only ring hetero atoms
9/572	Five-membered rings	9/6539 Five-membered rings
9/5728	{condensed with carbocyclic rings or	9/65392 {containing two nitrogen atoms}
	carbocyclic ring systems}	9/65395 {having the two nitrogen atoms in
9/576	Six-membered rings	positions 1 and 2}
9/5765	{condensed with carbocyclic rings or	9/65397 {having the two nitrogen atoms in
	carbocyclic ring systems}	positions 1 and 3}
9/58	Pyridine rings	9/6541 condensed with carbocyclic rings or
9/59	Hydrogenated pyridine rings	{carbocyclic} ring systems
9/60	Quinoline or hydrogenated quinoline ring	9/6544 Six-membered rings
	systems	9/6547 condensed with carbocyclic rings or
9/62	Isoquinoline or hydrogenated isoquinoline	{carbocyclic} ring systems
	ring systems	9/655 having oxygen atoms, with or without sulfur,
9/64	Acridine or hydrogenated acridine ring	selenium, or tellurium atoms, as the only ring
	systems	hetero atoms
9/645	having two nitrogen atoms as the only ring	9/65502 { the oxygen atom being part of a three-
0/6500	hetero atoms	membered ring}
9/6503	Five-membered rings	9/65505 {Phosphonic acids containing oxirane
9/65031	• • • • • {having the nitrogen atoms in the positions	groups; esters thereof} 9/65507 {condensed with carbocyclic rings or
9/65038	1 and 2} {condensed with carbocyclic rings or	9/65507 {condensed with carbocyclic rings or carbocyclic ring systems}
9/03038	carbocyclic ring systems}	9/6551 { the oxygen atom being part of a four-
9/6506	• • • • having the nitrogen atoms in positions 1	membered ring}
2/0300	and 3	9/65512 {condensed with carbocyclic rings or
9/65068	• • • • • {condensed with carbocyclic rings or	carbocyclic ring systems}
2703000	carbocyclic ring systems}	9/65515 { the oxygen atom being part of a five-
9/6509		membered ring}
	5 {having the nitrogen atoms in the positions	9/65517 {condensed with carbocyclic rings or
	1 and 2}	carbocyclic ring systems}
9/650947	7 {condensed with carbocyclic rings or	9/6552 { the oxygen atom being part of a six-
	carbocyclic ring systems}	membered ring}
9/650952	2 {having the nitrogen atoms in the positions	9/65522 {condensed with carbocyclic rings or
	1 and 4}	carbocyclic ring systems}
9/650994	4 {condensed with carbocyclic rings or	9/65525 { the oxygen atom being part of a seven-(or
	carbocyclic ring systems}	more) membered ring}
9/6512	having the nitrogen atoms in positions 1	9/65527 (condensed with carbocyclic rings or
	and 3	carbocyclic ring systems}
9/65128	{condensed with carbocyclic rings or	9/6553 • • • having sulfur atoms, with or without selenium
	carbocyclic ring systems}	or tellurium atoms, as the only ring hetero
9/6515	• • having three nitrogen atoms as the only ring	atoms
	hetero atoms	9/655309 { the sulfur atom being part of a three-
9/6518	Five-membered rings	membered ring}
9/65188	• • • • {condensed with carbocyclic rings or	9/655318 {condensed with carbocyclic rings or
0.45===	carbocyclic ring systems}	carbocyclic ring systems}
9/6521	Six-membered rings	9/655327 • • • { the sulfur atom being part of a fourmembered ring }
9/65218	{condensed with carbocyclic rings or	9/655336 • • • • {condensed with carbocyclic rings or
0/6504	carbocyclic ring systems}	carbocyclic ring systems}
9/6524	<ul> <li>having four or more nitrogen atoms as the only ring hetero atoms</li> </ul>	outself one ring affecting
	ing neces acoms	

ring hetero atoms

9/655345 {the sulfur atom being part of a five- membered ring}	9/65685 { the ring phosphorus atom being part of a phosphine oxide or thioxide }
9/655354 {condensed with carbocyclic rings or	9/65686 {the ring phosphorus atom being part of an
carbocyclic ring systems}	organo-phosphorane}
9/655363 {the sulfur atom being part of a six-membered ring}	9/65688 {the ring phosphorus atom being part of a phosphonium compound}
9/655372 {condensed with carbocyclic rings or	9/6571 having phosphorus and oxygen atoms as the
carbocyclic ring systems}	only ring hetero atoms
9/655381 {the sulfur atom being part of a seven-(or more) membered ring}	9/657109 {esters of oxyacids of phosphorus in which one or more exocyclic oxygen atoms have
9/65539 {condensed with carbocyclic rings or	been replaced by (a) sulfur atom(s)}
carbocyclic ring systems}	9/657118 {non-condensed with carbocyclic rings
9/6558 containing at least two different or differently	or heterocyclic rings or ring systems}
substituted hetero rings neither condensed	9/657127 {condensed with carbocyclic or
among themselves nor condensed with a	heterocyclic rings or ring systems}
common carbocyclic ring or ring system	9/657136 {the molecule containing more than one
9/65583 {each of the hetero rings containing nitrogen	cyclic phosphorus atom}
as ring hetero atom}	9/657145 {the cyclic phosphorus atom belonging
9/65586 {at least one of the hetero rings does not	to more than one ring system}
contain nitrogen as ring hetero atom}	9/657154 {Cyclic esteramides of oxyacids of
9/6561 containing systems of two or more relevant	phosphorus}
hetero rings condensed among themselves or condensed with a common carbocyclic ring	9/657163 {the ring phosphorus atom being bound to
or ring system, with or without other non-	at least one carbon atom}
condensed hetero rings	9/657172 {the ring phosphorus atom and one oxygen atom being part of a
9/65611 {containing the ring system	(thio)phosphinic acid ester:
The state of the s	c—P
0 N	c
$(X = CH_2, O, S, NH)$ optionally with an	$(X = O, S)\}$
additional double bond and/or substituents,	9/657181 {the ring phosphorus atom and, at least,
e.g. penicillins and analogs}	one ring oxygen atom being part of a
9/65613 {containing the ring system	(thio)phosphonic acid derivative}
	9/65719 {the ring phosphorus atom and, at least,
0	one ring oxygen atom being part of a
(X = CH2, O, S, NH) optionally with an	(thio)phosphonous acid derivative} 9/6574 Esters of oxyacids of phosphorus
additional double bond and/or substituents,	$\{(C07F 9/657163 \text{ takes precedence})\}$
e.g. cephalosporins and analogs}	9/65742 {non-condensed with carbocyclic rings
9/65615 {containing a spiro condensed ring system of	or heterocyclic rings or ring systems}
the formula where at least one of the	9/65744 {condensed with carbocyclic or
X Y	heterocyclic rings or ring systems}
	9/65746 {the molecule containing more than one
N—————————————————————————————————————	cyclic phosphorus atom}
atoms X or Y is a hetero atom, e.g. S}	9/65748 {the cyclic phosphorus atom belonging
9/65616 {containing the ring system	to more than one ring system}
N N	9/6578 having phosphorus and sulfur atoms with or
having three or more than three double bonds	without oxygen atoms, as ring hetero atoms
between ring members or between ring	9/65785 {the ring phosphorus atom and, at least,
members and non-ring members, e.g. purine	one ring sulfur atom being part of a
or analogs}	thiophosphonic acid derivative}
9/65618 {containing the ring system,	9/6581 having phosphorus and nitrogen atoms with
e.g. flavins or analogues}	or without oxygen or sulfur atoms, as ring
	hetero atoms
,	9/65811 {having four or more phosphorus atoms as ring hetero atoms}
9/6564 having phosphorus atoms, with or without	9/65812 {Cyclic phosphazenes [P=N-]n, n>=3}
nitrogen, oxygen, sulfur, selenium or tellurium	9/65814 { reyelic phiosphazenes {1 - 1\forall -1\forall -1\foral
atoms, as ring hetero atoms	9/65815 {n = 3}
9/6568 having phosphorus atoms as the only ring	9/65817 {n = 4}
hetero atoms	9/65818 {n > 4}
9/65681 {the ring phosphorus atom being part of a (thio)phosphinic acid or ester thereof}	9/6584 having one phosphorus atom as ring hetero
	atom
9/65683 { the ring phosphorus atom being part of a phosphine }	
phosphine	

9/65842	• • • • • {Cyclic amide derivatives of acids of phosphorus, in which one nitrogen atom belongs to the ring}
9/65844	• • • • • • • {the phosphorus atom being part of a five-membered ring which may be condensed with another ring system}
9/65846	{the phosphorus atom being part of a six-membered ring which may be condensed with another ring system}
9/65848	• • • • • {Cyclic amide derivatives of acids of phosphorus, in which two nitrogen atoms belong to the ring}
9/6587	• • • • having two phosphorus atoms as ring hetero atoms in the same ring
9/659	• • • • having three phosphorus atoms as ring hetero atoms in the same ring {(C07F 9/65812 takes precedence)}
9/6596	• • • having atoms other than oxygen, sulfur, selenium, tellurium, nitrogen or phosphorus as ring hetero atoms
9/66	Arsenic compounds
9/68	• • without As—C bonds
9/70	Organo-arsenic compounds
9/72	Aliphatic compounds
9/74	Aromatic compounds
9/76	containing hydroxyl groups
9/78	containing amino groups
9/80	Heterocyclic compounds
9/82	Arsenic compounds containing one or more pyridine rings
9/84	Arsenic compounds containing one or more quinoline ring systems
9/86	• • • Arsenic compounds containing one or more isoquinoline ring systems
9/88	Arsenic compounds containing one or more acridine ring systems
9/88 9/90	
	acridine ring systems
9/90	acridine ring systems  Antimony compounds
9/90 9/902	acridine ring systems  Antimony compounds  (Compounds without antimony-carbon linkages)
9/90 9/902 9/92	acridine ring systems  Antimony compounds  (Compounds without antimony-carbon linkages)  Aromatic compounds  Bismuth compounds  Compounds containing elements of Groups 6 or 16
9/90 9/902 9/92 9/94 <b>11/00</b>	acridine ring systems  Antimony compounds  (Compounds without antimony-carbon linkages)  Aromatic compounds  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table
9/90 9/902 9/92 9/94	acridine ring systems  Antimony compounds  (Compounds without antimony-carbon linkages)  Aromatic compounds  Bismuth compounds  Compounds containing elements of Groups 6 or 16
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 7 or 17 of the Periodic Table
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 7 or 17
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b>	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 7 or 17 of the Periodic Table
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b>	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 8, 9, 10
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/00</b>	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/00</b>	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds of the platinum group
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/00</b> 15/0006 15/0013	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds of the platinum group  Without a metal-carbon linkage
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/00</b> 15/0006 15/0013 15/002	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds of the platinum group  Without a metal-carbon linkage  Compounds of the platinum group  Somium compounds
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/00</b> 15/0006 15/0013 15/002 15/0026	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds of the platinum group  Without a metal-carbon linkage  Gosmium compounds  Without a metal-carbon linkage
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/00</b> 15/0006 15/0013 15/002 15/0026 15/0033	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds without a metal-carbon linkage}  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage}  Compounds without a metal-carbon linkage}  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds of the platinum group}  Without a metal-carbon linkage}  Gosmium compounds}  Gosmium compounds  Firidium compounds  Ruthenium compounds}
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/00</b> 15/0006 15/0013 15/002 15/0026 15/0033 15/004	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage}  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds of the platinum group}  Compounds of the platinum group}  Rosmium compounds  Gosmium compounds  Findium compounds  Groups 8, 9, 10 or 18 of the Periodic Table  Formula metal-carbon linkage  Formula metal-carbon linkage  Formula metal-carbon linkage
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/00</b> 15/0006 15/0013 15/002 15/0026 15/0033 15/004 15/0046	acridine ring systems  Antimony compounds  Compounds without antimony-carbon linkages  Bismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds without a metal-carbon linkage}  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage}  Compounds without a metal-carbon linkage}  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds of the platinum group}  Without a metal-carbon linkage}  Gosmium compounds}  Gosmium compounds  Firidium compounds  Ruthenium compounds}
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/000</b> 15/0006 15/0013 15/002 15/0026 15/0033 15/004 15/0046 15/0053	acridine ring systems Antimony compounds  Compounds without antimony-carbon linkages  Rismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage}  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds of the platinum group  Without a metal-carbon linkage  Rithout a metal-carbon linkage  Rithout a metal-carbon linkage  Ruthenium compounds  Ruthenium compounds  Ruthenium compounds  Falladium compounds  Rithout a metal-carbon linkage  Palladium compounds  Rithout a metal-carbon linkage
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/000</b> 15/0006 15/0013 15/002 15/0026 15/0033 15/004 15/0046 15/0053 15/006	acridine ring systems Antimony compounds  Compounds without antimony-carbon linkages  Rismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds of the platinum group  Rithout a metal-carbon linkage  Rithout a metal-carbon linkage  Rithout a metal-carbon linkage  Ruthenium compounds  Ruthenium compounds  Ruthenium compounds  Ruthenium compounds  Ruthenium compounds  Ruthenium compounds  Realladium compounds  Palladium compounds
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/00</b> 15/0006 15/0013 15/002 15/0026 15/0033 15/004 15/0046 15/0053 15/006 15/0066	acridine ring systems Antimony compounds  Compounds without antimony-carbon linkages  Rismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage}  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds of the platinum group  Without a metal-carbon linkage  Rithout a metal-carbon linkage  Rithout a metal-carbon linkage  Ruthenium compounds  Ruthenium compounds  Ruthenium compounds  Falladium compounds  Rithout a metal-carbon linkage  Palladium compounds  Rithout a metal-carbon linkage
9/90 9/902 9/92 9/94 <b>11/00</b> 11/005 <b>13/00</b> 13/005 <b>15/00</b> 15/0006 15/0013 15/002 15/0026 15/0033 15/004 15/0046 15/0053 15/0066 15/0073	acridine ring systems Antimony compounds  Compounds without antimony-carbon linkages  Rismuth compounds  Compounds containing elements of Groups 6 or 16 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds containing elements of Groups 7 or 17 of the Periodic Table  Compounds without a metal-carbon linkage}  Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table  Compounds of the platinum group}  Keithout a metal-carbon linkage}  Keithout a metal-carbon linkage}  Rididium compounds}  Ruthenium compounds}  Ruthenium compounds}  Ruthenium compounds}  Ruthout a metal-carbon linkage}  Ruthenium compounds}  Ruthenium compounds}  Ruthenium compounds}  Ruthout a metal-carbon linkage}  Ruthout a metal-carbon linkage}

15/0093 • • { without a metal-carbon linkage} 15/02 . Iron compounds 15/025 • • {without a metal-carbon linkage} 15/03 . . Sideramines; The corresponding desferri compounds 15/04 . Nickel compounds 15/045 • • { without a metal-carbon linkage } 15/06 . Cobalt compounds 15/065 • • { without a metal-carbon linkage} 17/00 Metallocenes 17/02 • of metals of Groups 8, 9 or 10 of the Periodic Table 19/00 Metal compounds according to more than one of main groups <u>C07F 1/00</u> - <u>C07F 17/00</u> 19/005 • {without metal-C linkages}