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. C07F 9/11 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	• {with C-aluminium linkage}• • {Al linked exclusively to C}
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	Magnesium compounds Calcium compounds	5/066	 . (compounds with Al linked to an element other than Al, C, H or halogen (this includes Al- cyanide linkage)
3/06 3/08	Zinc compoundsCadmium compounds	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	 Aromatic substances containing mercury 		
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
	Cyclic esters		Si-halogen linkages}
7/07	•	7/125	• • • • {by reactions involving both Si-C and Si-
7/08	Compounds having one or more C—Si linkages	7/123	halogen linkages, the Si-C and Si-halogen
7/0801	• • • {General processes}		
7/0803	• • • {Compounds with Si-C or Si-Si linkages}		linkages can be to the same or to different
7/0805	{comprising only Si, C or H atoms}		Si atoms, e.g. redistribution reactions}
7/0807	{comprising Si as a ring atom}	7/126	• • • • {by reactions involving the formation of
			Si-Y linkages, where Y is not a carbon or
7/081	{comprising at least one atom selected from		halogen atom}
	the elements N, O, halogen, S, Se or Te}	7/127	• • • • {by reactions not affecting the linkages to
7/0812	• • • • {comprising a heterocyclic ring}		the silicon atom}
7/0814	• • • • • { said ring is substituted at a C ring atom	7/128	{by reactions covered by more than one of
	by Si}	7/120	the groups $\underline{\text{CO7F 7/122}}$ - $\underline{\text{C07F 7/127}}$ and
7/0816	{said ring comprising Si as a ring atom}		
7/0825	{Preparations of compounds not comprising		of which the starting material is unknown
1/0623			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	• • • • • {Hydrosilylation reactions}		hydrocarbons {hydrosilylation reactions}
7/083	• • • • {Syntheses without formation of a Si-C	7/16	Preparation thereof from silicon and
	bond}		halogenated hydrocarbons {direct synthesis}
7/0832	• • • • {Other preparations}	7/18	Compounds having one or more C—Si
	{Compounds having one or more O-Si linkage	//10	linkages as well as one or more C—O—Si
7/0834			
	(for compounds with C-O-Si linkages see		linkages
	<u>C07F 7/18</u>)}	7/1804	• • • • {Compounds having Si-O-C linkages (Si-O-
7/0836	• • • • {Compounds with one or more Si-OH or Si-		acyl linkages <u>C07F 7/1896</u>)}
	O-metal linkage }	7/1872	{Preparation; Treatments not provided for
7/0838	{Compounds with one or more Si-O-		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}
	i.e. cyclosilanes <u>C07F 7/21</u>)}	7/188	• • • • {by reactions involving the formation of
7/087	{Compounds of unknown structure	//100	Si-O linkages}
7/087		= 4004	- · · · · · · · · · · · · · · · · · · ·
5 /0.55	containing a Si-O-Si sequence}	7/1884	• • • • • {by dismutation}
7/0872	• • • • {Preparation and treatment thereof}	7/1888	• • • • • {by reactions involving the formation of
7/0874	• • • • • {Reactions involving a bond of the Si-		other Si-linkages, e.g. Si-N}
	O-Si linkage}	7/1892	• • • • • {by reactions not provided for in
7/0876	• • • • • {Reactions involving the formation		<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-	771070	linkages}
	Si linkage}	7/20	Purification, separation
7/0878	{Si-C bond}	7/20	• •
		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		<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	{Compounds with a Si-O-O linkage}	T/2224	
	` .	7/2224	• • {Compounds having one or more tin-oxygen
7/0896	{Compounds with a Si-H linkage}		linkages}
7/0898	• • • {Compounds with a Si-S linkage}	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	2200	linkages}
,,121	C07F 7/14, C07F 7/16 or C07F 7/20}	7/2296	• {Purification, stabilisation, isolation}
	<u>NOTE</u>	7/24	. Lead compounds
	The silicon atom involved in the reaction	7/26	Tetra-alkyl lead compounds
		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 replacibly tale alcohols 19145 with hydroxyalkyl compounds 19145 with hydroxyalkyl compounds 19157 with hydroxyalkyl compounds with further substituents on alkyl 19158 Proceedings 19159 Proceed	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) 1/1653 (with arylaikanols) 1/1654 (Compounds containing the structure [P=N-1] (cyclic compounds 9/1654 (Compounds containing the structure P=N-1] 9/1655 (Compounds containing the structure P=N-1) 9/1655 (Compounds containing the structure P=N-1) 9/1655 (Compounds containing the structure P=N-1) 9/1656 (Compounds containing the structure P=N-1) 9/1657 (Compounds containing the structure P=N-1) 9/1657 (Compounds containing the structure P=N-1) 9/1659 (Compounds containing the structure P=N-1) 9			
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) 9097 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se) 9098 (Esters of ployphosphoric acids or anhydrides) 9099 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se) 9090 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se) 9091 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se) 9091 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se) 9092 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se) 9093 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se) 9094 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se) 9095 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se) 9096 (Compounds containing the structure P(=O)-O-CC X) (X=O, S, Se) 9097 (Compou	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-(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 thiophosphorus acids or anhydrides) 9/201 (Esters of thiophosphorus acids 9/201 (Esters of polyphosphoric acids or anhydrides) 9/200 (Containing the structure Hal-P-X-anyl) 9/201 (Esters of thiophosphorus acids 9/202 (Esters of thiophosphorus acids 9/203 (Esters of thiophosphorus acids 9/204 (Esters of thiophosphorus acids 9/205 (Esters of thiophosphorus acids 9/206 (Esters of thiophosphorus 9/206 (Esters of thiophosphorus 9/206 (Esters of thiophosp	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 hydroxyalyl 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 {Anhydroxyl compounds with		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) 9/1406 . {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 9/1414 . {With hydroxyalkyl compounds with further substituents on alkyl 9/1414 . {With hydroxyalkyl compounds with further substituents on alkyl 9/1416 . {Polyol derivatives esterified at least twice by phosphorous acids groups 9/1416 . {Polyol derivatives esterified at least twice by phosphorous acids groups 9/1417 . {Polyol derivatives esterified at least twice by phosphorous acids groups 9/1418 . {Polyol derivatives esterified at least twice by phosphorous acids groups 9/1419 . {Polyol derivatives esterified at least twice by phosphorous acids groups 9/1416 . {Polyol derivatives esterified at least twice by phosphorous acids groups 9/1417 . {Polyol derivatives	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-unsaturated acyclic group) 9/2016 (containing the structure Hal-P-X-aryl) 9/2016 (does not be according to the substituents on alkyl) 9/2016 (does not be according to the substituents on alkyl) 9/2017 (does not be according to the substituents on alkyl) 9/2018 (does not be according to the substituents on alkyl) 9/2018 (does not be according to the substituents on alkyl) 9/2019 (does not be according to the substituents on alkyl) 9/2019 (does not be according to the substituents on alkyl) 9/2019 (does not be according to the substituents on alkyl) 9/2019 (does not be according to the substituents on alkyl) 9/2019 (does not be according to the substituents on alkyl) 9/2019 (does not be according to the substituents on alkyl) 9/2019 (does not be according to the substituents on alkyl) 9/2019 (does not be according to the substituents on alkyl) (does not be according to the substituents on alkyl) (does not be according to the substituents on alkyl) (does not be according to the substituents on alkyl) (does not be according to the substituents on alkyl) (does not be according to the substituents on alkyl) (does not be according to the substituents on alkyl) (does not be according to the substituent on accor			
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	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 9/12 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} 9/22 {Containing the structure P-N-N, e.g. azides, hydrazides} 9/24 {Containing the structure P-N-N, e.g. azides, hydrazides} 9/240 Esteramides 9/240 {Phosphorus triamides} 9/240 {Containing the structure P-N-N, e.g. azides, hydrazides} 9/240 {Containing the structure P-N-N, e.g. azides, hydrazides} 9/240 {Containing the structure P-N-N, e.g. azides, hydrazides} 9/2404 {Containing the structure which is considered as characteristic} 9/2408 {Polyol derivatives esterified at least twice by phosphorous acid groups} 9/2412 {Polyol derivatives esterified at least twice by phosphorous acid groups} 9/2412 {Folyonds containing the structure P-O- acyl, P-O-heteroatom, P-O-CN} 9/2410 {Folydroxyaryl compounds} 9/2411 {Compounds containing the structure P-O- acyl, P-O-heteroatom, P-O-CN} 9/2412 {Folydroxyaryl compounds} 9/2413 {Compounds containing the structure P-O- acyl, P-O-heteroatom, P-O-CN} 9/2410 {Folydroxyaryl compounds} 9/2411 {Compounds containing the structure P-O- acyl, P-O-heteroatom, P-O-CN} 9/2412 {Folydroxyaryl compounds} 9/2413 {Folydroxyaryl compounds} 9/2414 {Folydroxyaryl compounds} 9/2415 {Folydroxyaryl compounds}	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} 9/100 containing the structure Hal-P(=O)-O- aryl} 9/101 containing the structure Hal-P(=O)-O- aryl} 9/102 containing the structure Hal-P(=O)-O- aryl} 9/103 containing the structure Hal-P(=O)-O- aryl} 9/104 containing the structure Hal-P(=O)-O- aryl} 9/105 containing the structure P-In-N, e.g. azides, hydrazides} 9/108 containing the structure P-In-N, e.g. azides, hydrazides} 9/109 containing the structure P-In-N, e.g. azide	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}			9/22 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} 9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, pro-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, pro-O-CN} 9/1417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, pro-O-CN} 9/1418 {Compounds containing the structure P-O-acyl, P-O-heteroatom, pro-O-CN} 9/1419 {Compounds containing the structure P-O-acyl, pro-O-heteroatom, pro-O-CN} 9/1410	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} 9/2408 {of hydroxyalkyl compounds} 9/2408 {of hydroxyalkyl compounds} 9/2412 {of unsaturated acyclic alcohols} 9/2415 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN} 9/2417 {Compounds containing the structure P-O-acyl, P-O-heteroatom, P-O-CN} 9/2417 {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	_
9/2429	0, 5, 2 = 0, 5	9/3235 {Esters of poly(thio)phosphinic acids}
		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	
)/2 4 3/	N-P(= X)n-S-(S) x -(X = O, S, Se;	P(=X)(R)(XR), (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 = 0, S, Se; n = 0, 1)	9/3264 {Esters with hydroxyalkyl compounds}
9/2445	$\cdot \cdot $	9/327 {Esters with unsaturated acyclic
	X-N (X = 0, S, Se; n = 0, 1)	alcohols}
9/245	• • • • • {containing the structure N-P(=X)n-	
7/2-13	X-P (X = 0, S, Se; n = 0, 1)	9/3276 {Esters with cycloaliphatic alcohols}
0/0454		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	9/3294 {Compounds containing the structure
	characteristic }	R2P(=X)-X-acyl, R2P(=X)-X-
9/2458	{of aliphatic amines}	
9/2462	{of unsaturated acyclic amines}	heteroatom, $R2P(=X)-X-CN$ (X = O, S,
9/2466	•	Se)}
	{of cycloaliphatic amines}	9/34 Halides thereof
9/247	• • • • • { of aromatic amines (N-C aromatic	9/36 Amides thereof
	linkage)}	9/38 Phosphonic acids [RP(=O)(OH) ₂];
9/2475	{of aralkylamines}	Thiophosphonic acids $\{; [RP(=X_1)(X_2H)_2(X_1, X_2H)_2(X_1, X_2H)_2($
9/2479	• • • • • {Compounds containing the structure	X_2 are each independently O, S or Se)]}
2,21,7	P(=X)n-N-acyl, $P(=X)$ n-N-heteroatom,	
	P(=X)n-N-CN (X = 0, S, Se; n = 0, 1)	9/3804 {not used, see subgroups}
0/2/02		9/3808 {Acyclic saturated acids which can have
9/2483	• • • • • • {containing the structure $P(=X)n-N-S$	further substituents on alkyl}
	(X = O, S, Se; n = 0, 1)	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 $	
2,2.21	(X = O, S, Se; n = 0, 1)	(RX)2P(=X)-alk-NP(X = O, S, Se)
0/2405		9/3821 (substituted by B, Si, P or a metal
9/2495	{containing the structure P(=X)n-N-P	$(\underline{\text{C07F 9/3839}} \text{ takes precedence})$
	(X = O, S, Se; n = 0, 1)	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 $[R_2P(=O)(OH)]$;	
	Thiophosphinic acids $\{; [R_2P(=X_1)(X_2H)(X_1, X_2H)(X_1, X_2H)(X_2H)(X_2, X_2H)(X_2, $	9/3839 {Polyphosphonic acids}
	X_2 are each independently O, S or Se)]}	9/3843 {containing no further substituents than
0/201		-PO ₃ H ₂ 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;	9/3869 {containing carboxylic acid or
	n>=1)	carboxylic acid derivative substituents
9/307	• • • {Acids containing the structure $-C(=X)$ -	· · · · · · · · · · · · · · · · · · ·
	P(=X)(R)(XH) or $NC-P(=X)(R)(XH)$, $(X =$	9/3873 (containing nitrogen substituent,
	(-1)(R)(R)(R) of the $(-1)(R)(R)(R)$, $(R - 1)(R)(R)$	e.g. NH or N-hydrocarbon group
0/200		which can be substituted by halogen or
9/308	• • • • {Pyrophosphinic acids; Phosphinic acid	nitro(so), NO, NS, NC(=X)-
	anhydrides}	(X = O, S), NN, NC(=X)N (X = O,
9/32	Esters thereof	S)}
9/3205	• • • • { the acid moiety containing a substituent	9/3878 {containing substituents selected from
	or a structure which is considered as	B, Si, P (other than -PO ₃ H ₂ groups) or a
	characteristic}	
9/3211	{Esters of acyclic saturated acids which	metal}
1/3411	can have further substituents on alkyl	9/3882 {Arylalkanephosphonic acids
	can have infiner substillents on alkvi}	(C07F 9/3839 takes precedence)
9/3217	{Esters of acyclic unsaturated acids}	$\frac{(2071.7/3832)}{(2071.2012)}$ 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}
0/2001	S, Se)}	9/4087 {Esters with arylalkanols}
9/3891	{Acids containing the structure $-C(=X)$ - $P(=X)(XH)2$, $(X = O, S, Se)$ }	9/409 {Compounds containing the structure
0/2905	• • • {Pyrophosphonic acids; phosphonic acid	P(=X)-X-acyl, $P(=X)-X$ -heteroatom,
9/3895	anhydrides}	P(=X)-X-CN (X = O, S, Se)
9/40	Esters thereof	9/4093 {Compounds containing the structure $P(=X)-X-C(=X)-(X=O,S,Se)$ }
9/4003	{the acid moiety containing a substituent	9/4096 {Compounds containing the structure
<i>)</i> / 1 00 <i>3</i>	or a structure which is considered as	$P(=X)$ -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.
	further substituents on alkyl}	RP(= X)(YR)(Hal) (X, Y = O, S; R = H, or
9/4009	• • • • • {Esters containing the structure	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}
0/4007	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 ₃ H ₂ groups in free or	aromatic linkage)}
9/4031	esterified form} {Acyclic unsaturated derivatives}	9/4423 {Amides of poly (thio)phosphonic
9/4031	{Acyclic unsaturated derivatives}	acids}
9/4034		9/4426 {Amides of arylalkanephosphonic acids}
7/4037	substituents}	9/443 {Amides of acids containing the
9/404	• • • • • {containing hydroxy substituents in	structure -C(=Y)-P(=X)(XR)-N or NC-
2/ 10 1	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
	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 = O, S)}	9/4453 {Esters with arylalkanols}
9/4053	• • • • • • {containing substituents selected from	9/4457 {Compounds containing the structure
)/ 4 033	B, Si, P (other than -PO ₃ H ₂ groups in	C-P(=X)(X-acyl)-N, C-P(=X)(X-
	free or esterified form), or a metal}	heteroatom)-N or C-P(= X)(X -CN)-N (X , Y = X O, X)
9/4056	{Esters of arylalkanephosphonic acids	9/4461 {the amide moiety containing a substituent
	(C07F 9/4025 takes precedence)	or a structure which is considered as
9/4059	{Compounds containing the structure	characteristic}
	$(RY)2P(=X)-(CH_2)n-C(=O)-(CH_2)m-$	9/4465 {of aliphatic amines}
	Ar, $(X, Y = 0, S, Se; n>=1, m>=0)$	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 aromatic amines (N-C aromatic
0/4065	(XR)2, (X = O, S, Se)	linkage)}
9/4065	{Esters of acids containing the $C(X)$ $R(X)$ $Y(X)$ $Y(X)$	9/448 { of aralkylamines }
	structure $-C(=X)-P(=X)(XR)2$, $(X = O, S, Se)$	9/4484 {Compounds containing the structure
9/4068	• • • • {Esters of pyrophosphonic acids; Esters of	C-P(=X)(N-acyl)-X, $C-P(=X)(N-acyl)-X$
<i>3</i> /4000	phosphonic acid anhydrides}	heteroatom)- X or $C-P(=X)(N-CN)-X$ (X
9/4071	• • • • { the ester moiety containing a substituent	= O, S, Se)
)/TU/1	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 $P(-Y) \setminus P(-Y) \setminus (Y - Q, S, S_2)$ }
9/4078	{Esters with unsaturated acyclic	P(=X)(N-C(=X)-) (X = 0, S, Se) (Compounds containing the structure
	alcohols}	9/4496 {Compounds containing the structure $P(=X)(N-N-)(X=O, S, Se)$ }
		1 (-11)(11 11) (11 - 0, 0, 00)

9/46	• • Phosphinous acids [R ₂ POH], [R ₂ P(= O)H]: Thiophosphinous acids {including[R ₂ PSH]; [R ₂ P(=S)H]; Aminophosphines [R ₂ PNH ₂];	9/5081 {from starting materials having the structure >P-Het, Het being an heteroatom different from Hal or Metal}
9/48	Derivatives thereof} Phosphonous acids [RP(OH) ₂] {including	9/5086 {from phosphonium salts as starting materials}
	[RHP(=O)(OH)]}; Thiophosphonous acids {including [RP(SH) ₂], [RHP(=S)(SH)]; Derivatives thereof}	9/509 {by reduction of pentavalent phosphorus derivatives, e.g. $-P=X$ with $X=O$, S, Se or $-P-Hal2$ }
9/4808	• • • { the acid moiety containing a substituent or structure which is considered as	9/5095 {Separation; Purification; Stabilisation} 9/52 Halophosphines
	characteristic}	9/53 Organo-phosphine oxides; Organo-
9/4816	{Acyclic saturated acids or derivatices	phosphine thioxides
	which can have further substituents on 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)}
9/485	aromatic linkage)} {Polyphosphonous acids or derivatives}	9/5316 {Unsaturated acyclic phosphine oxides or
9/4858	{Acids or derivatives containing the	thioxides } 9/532 {Cycloaliphatic phosphine oxides or
	structure $-C(=X)-P(XR)2$ or $NC-P(XR)2$	thioxides}
9/4866	(X = O, S, Se)} {the ester moiety containing a substituent	9/5325 {Aromatic phosphine oxides or thioxides
<i>7/</i> 4000	or structure which is considered as	(P-C aromatic linkage)}
	characteristic }	9/5329 {Polyphosphine oxides or thioxides} 9/5333 {Arylalkane phosphine oxides or thioxides
9/4875	• • • • {Esters with hydroxy aryl compounds}	(C07F 9/5329 takes precedence)
9/4883	• • • • {Amides or esteramides thereof, e.g.	9/5337 {Phosphine oxides or thioxides containing
0/4004	$RP(NR'2)2 \text{ or } RP(XR')(NR"2) (X = O, S)\}$	the structure $-C(=X)-P(=X)$ or $NC-P(=X)$
9/4891	{Monohalide derivatives RP (XR') (Hal) (X	$(X = O, S, Se)\}$
9/50	= O, S, N) (dihalide derivatives <u>C07F 9/52</u>)} Organo-phosphines	9/5341 {Organo-phosphine oxides or thioxides
9/5004	{Acyclic saturated phosphines}	containing a P-P bond} 9/5345 {Complexes or chelates of phosphine-
9/5009	• • • {substituted by B, Si, P or a metal	9/5345 {Complexes or chelates of phosphine-oxides or thioxides with metallic
	(<u>C07F 9/5027</u> 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-}
0/5027	linkage)}	9/5355 {Phosphoranes containing the structure
9/5027 9/5031	 {Polyphosphines} {Arylalkane phosphines (<u>C07F 9/5027</u> takes	P=N-} 9/5357 {Polyphosphazenes containing the
7/3031	precedence)}	structure [P=N-]n (cyclic phosphazenes
9/5036	• • • • (Phosphines containing the structure $-C(=X)$ -	<u>C07F 9/65812</u>)}
0/504	P or NC-P}	9/54 Quaternary phosphonium compounds
9/504	 {Organo-phosphines containing a P-P bond} {Complexes or chelates of phosphines with	9/5407 {Acyclic saturated phosphonium compounds}
9/5045	{Complexes or chelates of phosphines with 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
	Stabilisation}	(C07F 9/5449 takes precedence)}
9/5054	• • • • {by a process in which the phosphorus atom is not involved}	9/5428 {Acyclic unsaturated phosphonium compounds}
9/5059	• • • • {by addition of phosphorus compounds to	9/5435 {Cycloaliphatic phosphonium compounds}
0/5062	alkenes or alkynes}	9/5442 {Aromatic phosphonium compounds (P-C
9/5063	P-H or P-Heteroatom, in which one or	aromatic linkage)} 9/5449 {Polyphosphonium compounds}
	more of such bonds are converted into P-C	9/5456 {Arylalkanephosphonium compounds}
	bonds (C07F 9/5059 takes precedence)}	9/5463 {Compounds of the type "quasi-
9/5068	• • • • • {from starting materials having the structure >P-Hal}	phosphonium", e.g. (C)a-P-(Y)b wherein a +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
0/5055	precedence)}	phosphorus as a ring hetero atom
9/5077	• • • • • • • • • • • • • • • • • • •	

nirrogan and rellurium with or without oxygen 9/553 having one nitrogen atoms as the only ring hetero atoms 19/553 having one nitrogen atoms as the only ring hetero atom 9/5532 (Seven-for more) membered rings) 9/5535 (condensed with carbocycle rings or ring 9/5535 (condensed with carbocycle rings or ring 9/5537 (Inha heteroring containing the structure CC-(9)-N CC-(-0)- (both carbon atoms belong to the heteroring) 9/554 (Three membered rings 9/558 (**) Four-membered rings 9/558 (**) Four-membered rings 9/558 (**) Four-membered rings 9/558 (**) Condensed with carbocyclic rings or ring 9/558 (**) Condensed with carbocyclic rings or ring 9/558 (**) Condensed with carbocyclic rings or ring 9/558 (**) Condensed with carbocyclic rings or 9/570 (**) Condensed with carbocyclic rings or 9/571 (**) Four-membered rings 9/572 (**) Four-membered rings 9/573 (**) Condensed with carbocyclic rings or 9/574 (**) Condensed with carbocyclic rings or 9/575 (**) Condensed with carbocyclic rings or 9/576 (**) Condensed with carbocyclic rings or 9/577 (**) Condensed with carbocyclic rings or 9/578 (**) Priviline rings 9/579 (**) Priv	9/5475	{having nitrogen and selenium with or without	9/6527 having nitrogen and oxygen atoms as the only
or sulfur as fing hetero atoms 9/65306 (containing two nitrogen atoms hetero atom hetero atom hetero atom hetero atom hetero atom 9/65312 (passing the two nitrogen atoms in positions 1 and 2) 9/65335 (condensed with carbocyclic rings or ring systems) 9/65337 (the heteroring) (the heteroring) 9/65337 (the heteroring) (the heteroring) 9/65337 (the heteroring) 9/65335 (condensed with carbocyclic rings or carbocyclic ring containing the structure - (CLO)+X-CLO) (call-) (call-		oxygen or sulfur as ring hetero atoms; having	ring hetero atoms
having one nitrogen atoms as the only ring hetero atom positions and 2 positions and 3 positions and 2 positio			
hetero atom yesters 95535 condensed with carbocyclic rings or ring systems 95537 (the heteroring containing the structure - CC-Q)-X-C(-Q) (both carbon atoms belong to the heteroring) 95537 (the heteroring containing the structure - CC-Q)-X-C(-Q) (both carbon atoms belong to the heteroring) 95537 (the heteroring) 95537 (the heteroring) 95538 (CC-Q)-X-C(-Q) (both carbon atoms belong to the heteroring) 9564 Three-membered rings	0.47.70		
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(in the heteroring containing the structure CC=ON-CO-O-both arbon atoms belong to the heteroring) 9(6533 Six-membered rings 9(6534 Three membered rings 9(6535 Condensed with carbocyclic ring systems 9(6536 Condensed with carbocyclic rings or ring systems 9(6536 Condensed with carbocyclic rings or ring systems 9(6539 Five-membered rings 9(6530 Five-membered rings 9(6540 Five-membered rings 9(6541 Five-membered rings 9(6550 Five-membered rings Five-membered rings 9(6550 Five-membered rings 9(6550 Five-m	9/5535	• • • • {condensed with carbocyclic rings or ring	positions 1 and 3}
C(=O)-N-C(=O)- toth carbon atoms belong to the heteroring) 9:6514 Three-membred rings 9:6534 C(condensed with carbocyclic rings or carbocyclic ring systems) 9:6586 C(condensed with carbocyclic rings or ring systems) 9:6586 Pour-membred rings 9:6536 having introgen and sulfur atoms with or without systems 9:6539 Five-membred rings 9:6539	9/5537	• •	
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9.564 . Three-membered rings 9.568		to the heteroring)}	_
9.5686 Four-membered rings 9.6536 having nitrogen and sulfur atoms with or 9.5686 (condensed with carbocyclic rings or carbocyclic rings or carbocyclic rings or carbocyclic rings or carbocyclic ring systems) 9.6539 Five-membered rings 9.6539 (condansing two nitrogen atoms in positions 9.6539 (condansing two nitrogen atoms in positions 9.6539 (condensed with carbocyclic rings or carbocyclic ring systems) 9.65397 (having the two nitrogen atoms in positions 1 and 2) (carbocyclic rings or carbocyclic ring systems) 9.65510 (the oxygen atom being part of a five-membered ring) 9.65590 (becondensed with carbocyclic rings or carbocyclic ring systems) 9.65512 (condensed with carbocyclic rings or carbocyclic ring systems) 9.65512 (condensed with carbocyclic rings or carbocyclic ring systems) 9.65512 (becondensed with carbocyclic rings or carbocyclic ring systems) 9.65512 (becondensed with carbocyclic rings or carbocyclic ring systems) 9.65512 (becondensed with carbocyclic rings or carbocyclic ring systems) 9.65512 (becondensed with carbocyclic rings or carbocyclic ring systems) 9.65513 (becondensed with carbocy	9/564	Three-membered rings	
Second Condensed with carbocyclic rings or ring systems Syst	9/568	Four-membered rings	
Secondarised with carbocyclic rings or carbocyclic rings or carbocyclic ring systems 9/65395 Condarising two nitrogen atoms in positions I and 2 9/65397 Condensed with carbocyclic rings or carbocyclic ring systems 9/6551 (the oxygen atom being part of a five-membered ring) 9/65904 (condensed with carbocyclic rings or carbocyclic ring systems) 9/65904 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6552 (five oxygen atom being part of a six-membered ring) 9/65904 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6553 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6554 (condensed with car	9/5686		without oxygen atoms, as the only ring hetero
Secondarised with carbocyclic rings or carbocyclic rings ystems 9/65392 Condarining two nitrogen atoms in positions 1 and 2	9/572	Five-membered rings	9/6539 Five-membered rings
carbocyclic ring systems 9/65395	9/5728		
9.5766 Six-membered rings carbocyclic ring systems 9/65397		carbocyclic ring systems}	
9/5765 (condensed with carbocyclic rings or carbocyclic ring systems) 9/58 Pryidine rings 9/59 Hydrogenated pyridine rings 9/60 Quinoline or hydrogenated quinoline ring systems 9/62 Isoquinoline or hydrogenated isoquinoline ring systems 9/62 Isoquinoline or hydrogenated acridine ring systems 9/64 Acridine or hydrogenated acridine ring systems 9/65 having two nitrogen atoms as the only ring hetero atoms 9/655 having two nitrogen atoms in the positions 1 and 2 9/65503 (having the nitrogen atoms in the positions 1 and 2) 9/6506 having the nitrogen atoms in the positions 1 and 2 9/6506 having the nitrogen atoms in the positions 1 and 2 9/6506 having the nitrogen atoms in the positions 1 and 2 9/6507 (condensed with carbocyclic rings or carbocyclic ring systems) 9/65515 (the oxygen atom being part of a fure-membered ring) 9/65096 having the nitrogen atoms in the positions 1 and 2 9/65507 (condensed with carbocyclic rings or carbocyclic ring systems) 9/65515 (the oxygen atom being part of a fure-membered ring) 9/65096 having the nitrogen atoms in the positions 1 and 2 9/65505 (having the nitrogen atoms in the positions 1 and 2 9/65515 (the oxygen atom being part of a fure-membered ring) 9/650947 (condensed with carbocyclic rings or carbocyclic ring systems) 9/65516 (the oxygen atom being part of a five-membered ring) 9/650947 (condensed with carbocyclic rings or carbocyclic ring systems) 9/65520 (the oxygen atom being part of a six-membered ring) 9/65094 (condensed with carbocyclic rings or carbocyclic ring systems) 9/65521 (the oxygen atom being part of a six-membered ring) 9/65094 (condensed with carbocyclic rings or carbocyclic ring systems) 9/65521 (the oxygen atom being part of a six-membered ring) 9/65094 (condensed with carbocyclic rings or carbocyclic ring systems) 9/65522 (the oxygen atom being part of a six-membered ring) 9/65528 (the oxygen atom being part of a four-membered ring) 9/65528 (the oxygen atom being part of a	9/576	Six-membered rings	
carbocyclic ring systems 9/6511 condensed with carbocyclic rings or (carbocyclic) ring systems 9/6541 condensed with carbocyclic rings or (carbocyclic) ring systems 9/6542 condensed with carbocyclic rings or (carbocyclic) ring systems 9/6543 condensed with carbocyclic rings or (carbocyclic) ring systems 9/6544 Six-membered rings 9/6545 condensed with carbocyclic rings or (carbocyclic) ring systems 9/6546 condensed with carbocyclic rings or (carbocyclic) ring systems 9/6550 the oxygen atoms with or without sulfur, selenium, or tellurium atoms, as the only ring hetero atoms 9/65501 (the oxygen atom being part of a three-membered ring) 9/65031 (having the nitrogen atoms in the positions 1 and 2) 9/65505 (condensed with carbocyclic ring systems) 9/65512 (condensed with carbocyclic rings or carbocyclic ring systems) 9/65515 (the oxygen atom being part of a four-membered ring) 9/6509 (condensed with carbocyclic rings or carbocyclic rings systems) 9/6516 (condensed with carbocyclic rings or carbocyclic rings or carbocyclic rings systems) 9/6509 (condensed with carbocyclic rings or carbocyclic rings or carbocyclic rings systems) 9/6509 (condensed with carbocyclic rings or carbocyclic rings systems) 9/6509 (condensed with carbocyclic rings or carbocyclic rings systems) 9/6509 (condensed with carbocyclic rings or carbocyclic rings systems) 9/6509 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6509 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6509 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6509 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6509 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6500 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6500 (condensed with carbocyclic rings or carbocyclic ring sys	9/5765	{condensed with carbocyclic rings or	
9/60		carbocyclic ring systems}	
9/60 Quinoline or hydrogenated quinoline ring systems 9/62 Isoquinoline or hydrogenated isoquinoline ring systems 9/64 Isoquinoline or hydrogenated isoquinoline ring systems 9/64 Acridine or hydrogenated isoquinoline ring systems 9/64 Acridine or hydrogenated acridine ring systems 9/64 Acridine or hydrogenated acridine ring systems 9/645 having two nitrogen atoms as the only ring hetero atoms 9/6503 Five-membered rings 9/6503 Five-membered rings 9/6503 Picture atoms 9/6503 Picture atoms 9/6503 Picture atoms as the only ring hetero atoms 1 and 2] 9/6503 Picture atoms 9/6504 Phosphonic acids containing oxirane groups; esters thereof) 9/6506 Picture atoms or carbocyclic ring systems 9/6506 Picture atoms in the positions 1 and 3 9/6506 Picture atoms or carbocyclic ring systems 9/6509 Picture atoms in the positions 1 and 2 9/6509 Picture atoms in the positions 1 and 2 9/6509 Picture atoms in the positions 1 and 2 9/6509 Picture atoms in the positions 1 and 2 9/6509 Picture atoms in the positions 1 and 2 9/6509 Picture atoms in the positions 1 and 2 9/6509 Picture atoms in the positions 1 and 2 9/6509 Picture atoms in the positions 1 and 2 9/6509 Picture atoms in the positions 1 and 3 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 3 9/6509 Picture atoms in the positions 1 and 3 9/6509 Picture atoms in the positions 1 and 3 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 3 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 3 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms in the positions 1 and 4 9/6509 Picture atoms	9/58	Pyridine rings	9/6541 condensed with carbocyclic rings or
systems Note Sequinoline or hydrogenated isoquinoline ring systems Sequinoline or hydrogenated isoquinoline ring systems Selentum, or tellurium atoms, as the only ring hetero atoms Selentum, or tellurium atoms, as the only ring hetero at	9/59	Hydrogenated pyridine rings	{carbocyclic} ring systems
Soquinoline or hydrogenated isoquinoline ring systems 9/651 having oxygen atoms, with or without sulfur, selenium, or tellurium atoms, as the only ring hetero atoms 9/6503 having two nitrogen atoms as the only ring hetero atoms 9/6503 Five-membered rings 9/6503 (the oxygen atom being part of a three-membered ring) 9/6503 (though the nitrogen atoms in the positions 1 and 2) 9/65038 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6506 having the nitrogen atoms in positions 1 and 3 9/6508 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6509 (the oxygen atom being part of a four-membered ring) 9/6509 (condensed with carbocyclic rings or carbocyclic ring systems) 9/6511 (the oxygen atom being part of a four-membered ring) 9/6509 (the oxygen atom being part of a four-membered ring) 9/6509 (the oxygen atom being part of a four-membered ring) 9/6509 (the oxygen atom being part of a five-membered ring) 9/65090 (thaving the nitrogen atoms in the positions 1 and 2) 9/650947 (condensed with carbocyclic rings or carbocyclic ring systems) 9/650952 (thaving the nitrogen atoms in the positions 1 and 4) 9/650952 (thaving the nitrogen atoms in the positions 1 and 4) 9/65094 (condensed with carbocyclic rings or carbocyclic ring systems) 9/650952 (thaving the nitrogen atoms in the positions 1 and 4) 9/650952 (thaving the nitrogen atoms in the positions 1 and 3) 9/650952 (thaving the nitrogen atoms in the positions 1 and 3) 9/650953 (the oxygen atom being part of a six-membered ring) 9/650954 (the oxygen atom being part of a six-membered ring) 9/650954 (the oxygen atom being part of a six-membered ring) 9/650955 (the oxygen atom being part of a six-membered ring) 9/650955 (the oxygen atom being part of a six-membered ring) 9/65095 (the oxygen atom being part of a six-membered ring) (the oxygen atom being part of a four-membered ring) (the oxygen atom being part of a four-membered ri	9/60	Quinoline or hydrogenated quinoline ring	9/6544 Six-membered rings
ring systems 9/642 . Acridine or hydrogenated acridine ring systems 9/645 . having two nitrogen atoms as the only ring hetero atoms 9/6503 . Five-membered rings 9/6503 . [Pive-membered rings 9/6503 . [An aving the nitrogen atoms in the positions I and 2] 9/6504 . having the nitrogen atoms in positions I and 3 9/6505 . [An aving the nitrogen atoms in positions I and 3 9/6506 . [Condensed with carbocyclic rings or carbocyclic ring systems] 9/6506 . [Condensed with carbocyclic rings or carbocyclic ring systems] 9/6506 . [Condensed with carbocyclic rings or carbocyclic ring systems] 9/6509 . [Six-membered rings 9/6509 . [An aving the nitrogen atoms in the positions I and 2] 9/65090 . [An aving the nitrogen atoms in the positions I and 2] 9/65091 . [Condensed with carbocyclic rings or carbocyclic ring systems] 9/65092 . [An aving the nitrogen atoms in the positions I and 2] 9/65094 . [Condensed with carbocyclic rings or carbocyclic ring systems] 9/65095 . [An aving the nitrogen atoms in the positions I and 2] 9/65095 . [An aving the nitrogen atoms in the positions I and 4] 9/65096 . [An aving the nitrogen atoms in the positions I and 4] 9/65096 . [An aving the nitrogen atoms in the positions I and 2] 9/65097 . [Condensed with carbocyclic rings or carbocyclic ring systems] 9/65098 . [An aving the nitrogen atoms in the positions I and 2] 9/650994 . [Condensed with carbocyclic rings or carbocyclic ring systems] 9/6512 . [An aving the nitrogen atoms in positions I and 3] 9/6513 . [An aving the nitrogen atoms in positions I and 3] 9/6514 . [An aving the nitrogen atoms as the only ring hetero atoms 9/6515 . [An aving the nitrogen atoms as the only ring hetero atoms 9/6516 . [An aving the nitrogen atoms as the only ring hetero atoms 9/6517 . [Condensed with carbocyclic rings or carbocyclic ring systems] 9/6518 . [An aving the nitrogen atoms as the only ring hetero atoms 9/6519 . [An aving the nitrogen atoms as the only ring hetero atoms 1 and 2] 9/6510 . [An aving the nitrogen atoms as the		systems	9/6547 condensed with carbocyclic rings or
Selenium, or tellurium atoms, as the only ring systems Selenium, or tellurium atoms, as the only ring hetero atoms Sel	9/62	Isoquinoline or hydrogenated isoquinoline	{carbocyclic} ring systems
Systems Syst			
having two nitrogen atoms as the only ring hetero atoms	9/64	Acridine or hydrogenated acridine ring	selenium, or tellurium atoms, as the only ring
hetero atoms		•	
9/6503	9/645		
9/65031			
9/65038 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6506 having the nitrogen atoms in positions 1 and 3 9/6509 Six-membered rings or carbocyclic ring systems} 9/6509 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6509 {having the nitrogen atoms in the positions 1 and 2} 9/650905 {having the nitrogen atoms in the positions 1 and 2} 9/650947 {condensed with carbocyclic rings or carbocyclic ring systems} 9/650952 . {having the nitrogen atoms in the positions 1 and 4} 9/6512 . having the nitrogen atoms in positions 1 and 3} 9/6518 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6518 Five-membered rings 9/6521 Six-membered rings 9/6524 . having four or more nitrogen atoms as the only ring or carbocyclic ring systems} 9/6524 . having four or more nitrogen atoms as the only ring or carbocyclic ring systems} 9/65524 . having four or more nitrogen atoms as the only		——————————————————————————————————————	
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carbocyclic ring systems} 9/6506	0/65000		
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9/65068 {condensed with carbocyclic rings or carbocyclic ring systems}	0/6506		
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carbocyclic ring systems} 9/6509	0/65068		
9/6509 Six-membered rings 9/650905 {having the nitrogen atoms in the positions 1 and 2} 9/650947 {condensed with carbocyclic rings or carbocyclic ring systems} 9/650952 {having the nitrogen atoms in the positions 1 and 4} 9/650994 {condensed with carbocyclic rings or carbocyclic ring systems} 9/650994 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6512 having the nitrogen atoms in positions 1 and 3 9/65128 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6518 Five-membered rings 9/6518 Five-membered rings 9/6518 Five-membered rings 9/6521 Six-membered rings 9/6521 Six-membered rings 9/6522 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6523 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6524 having four or more nitrogen atoms as the only 9/6524 having four or more nitrogen atoms as the only	2/02000		· · · · · · · · · · · · · · · · · · ·
9/650905 {having the nitrogen atoms in the positions 1 and 2} 9/650947 {condensed with carbocyclic rings or carbocyclic ring systems} 9/650952 {having the nitrogen atoms in the positions 1 and 4} 9/650994 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6512 having the nitrogen atoms in positions 1 and 3 9/6512 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6512 having the nitrogen atoms in positions 1 and 3 9/6512 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6512 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6513 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6514 Five-membered rings 9/6515 having three nitrogen atoms as the only ring hetero atoms 9/6516 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6518 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6521 Six-membered rings 9/6521 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6522 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6523 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6524 having four or more nitrogen atoms as the only 9/6524 having four or more nitrogen atoms as the only	9/6509		
1 and 2 carbocyclic ring systems			——————————————————————————————————————
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9/6521 Six-membered rings 9/65327 {the sulfur atom being part of a fourmembered ring} 9/65218 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6524 having four or more nitrogen atoms as the only	9/65188		
9/65218 {condensed with carbocyclic rings or carbocyclic ring systems} 9/6524 having four or more nitrogen atoms as the only membered ring} 9/6524 having four or more nitrogen atoms as the only			
carbocyclic ring systems} 9/655336 {condensed with carbocyclic rings or carbocyclic rings or carbocyclic ring systems}			
9/6524 having four or more nitrogen atoms as the only carbocyclic ring systems}	9/65218		
7/0524 • • • • having four of more introgen atoms as the only			
	9/6524	having four or more nitrogen atoms as the only ring hetero atoms	caroocycne ring systems)

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 carbocyclic ring systems}	9/65686 {the ring phosphorus atom being part of an 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 carbocyclic ring systems}	9/6571 having phosphorus and oxygen atoms as the 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 carbocyclic ring systems}	been replaced by (a) sulfur atom(s)} 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 among themselves nor condensed with a	9/657127 {condensed with carbocyclic or heterocyclic rings or ring systems}
common carbocyclic ring or ring system 9/65583 {each of the hetero rings containing nitrogen	9/657136 { the molecule containing more than one 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} 9/6561 containing systems of two or more relevant	9/657154 {Cyclic esteramides of oxyacids of phosphorus}
hetero rings condensed among themselves or	9/657163 {the ring phosphorus atom being bound to
condensed with a common carbocyclic ring	at least one carbon atom}
or ring system, with or without other non- 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:
	c—P()
$(X = CH_2, O, S, NH)$ 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 (thio)phosphonic acid derivative}
9/65613 {containing the ring system	9/65719 { the ring phosphorus atom and, at least,
$(X = CH_2, O, S, NH)$ optionally with an	one ring oxygen atom being part of a (thio)phosphonous acid derivative}
additional double bond and/or substituents, e.g. cephalosporins and analogs}	9/6574 Esters of oxyacids of phosphorus {(C07F 9/657163 takes precedence)} 9/65742 {non-condensed with carbocyclic rings}
9/65615 {containing a spiro condensed ring system of	9/65742 {non-condensed with carbocyclic rings or heterocyclic rings or ring systems}
the formula where at least one of the	9/65744 {condensed with carbocyclic or
	heterocyclic rings or ring systems} 9/65746 {the molecule containing more than one
atoms X or Y is a hetero atom, e.g. S}	9/65746 { the molecule containing more than one cyclic phosphorus atom}
9/65616 {containing the ring system	9/65748 {the cyclic phosphorus atom belonging
<u>"</u>	to more than one ring system} 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 or analogs}	one ring sulfur atom being part of a 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
0/6564 having phosphorus atoms, with or without	ring hetero atoms}
9/6564 having phosphorus atoms, with or without nitrogen, oxygen, sulfur, selenium or tellurium	9/65812 {Cyclic phosphazenes [P=N-]n, n>=3}
atoms, as ring hetero atoms	9/65814 {n = 3 or 4} 9/65815 {n = 3}
9/6568 having phosphorus atoms as the only ring hetero atoms	9/65817 {n = 3} 9/65817 {n = 4}
9/65681 {the ring phosphorus atom being part of a	9/65818 {n > 4}
(thio)phosphinic acid or ester thereof}	9/6584 having one phosphorus atom as ring hetero
9/65683 { the ring phosphorus atom being part of a phosphine }	atom
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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
9/6596	{(C07F 9/65812 takes precedence)} 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
9/90	Antimony compounds
9/902	• • {Compounds without antimony-carbon linkages}
9/92	Aromatic compounds
9/94	Bismuth compounds
11/00	Compounds containing elements of Groups 6 or 16 of the Periodic Table
11/005	• {compounds without a metal-carbon linkage}
13/00	Compounds containing elements of Groups 7 or 17
13/005	of the Periodic Table
	•
15/00	of the Periodic Table
15/00 15/0006	of the Periodic Table Compounds without a metal-carbon linkage Compounds containing elements of Groups 8, 9, 10
	of the Periodic Table . {Compounds without a metal-carbon linkage} Compounds containing elements of Groups 8, 9, 10 or 18 of the Periodic Table
15/0006	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 Cosmium compounds
15/0006 15/0013	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}
15/0006 15/0013 15/002	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} {Osmium compounds} {without a metal-carbon linkage} {Iridium compounds}
15/0006 15/0013 15/002 15/0026	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} {Osmium compounds} {without a metal-carbon linkage} {Iridium compounds} {without a metal-carbon linkage}
15/0006 15/0013 15/002 15/0026 15/0033	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} . {Osmium compounds} {without a metal-carbon linkage} {Iridium compounds} {without a metal-carbon linkage} {Ruthenium compounds}
15/0006 15/0013 15/002 15/0026 15/0033 15/004	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} . {Osmium compounds} {without a metal-carbon linkage}
15/0006 15/0013 15/002 15/0026 15/0033 15/004 15/0046	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} {Osmium compounds} {without a metal-carbon linkage} {Iridium compounds} {without a metal-carbon linkage} {Ruthenium compounds} {without a metal-carbon linkage} {without a metal-carbon linkage} {Palladium compounds}
15/0006 15/0013 15/002 15/0026 15/0033 15/004 15/0046 15/0053	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} {Osmium compounds} {without a metal-carbon linkage} {Iridium compounds} {without a metal-carbon linkage} {Ruthenium compounds} {without a metal-carbon linkage}
15/0006 15/0013 15/002 15/0026 15/0033 15/004 15/0046 15/0066 15/0066 15/0073	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} {Osmium compounds} {without a metal-carbon linkage} {Iridium compounds} {without a metal-carbon linkage} {Ruthenium compounds} {without a metal-carbon linkage} {without a metal-carbon linkage} {without a metal-carbon linkage} {Palladium compounds} {without a metal-carbon linkage} {Rhodium compounds}
15/0006 15/0013 15/002 15/0026 15/0033 15/004 15/0046 15/0066	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} {Osmium compounds} {without a metal-carbon linkage} {Iridium compounds} {without a metal-carbon linkage} {Ruthenium compounds} {without a metal-carbon linkage} {Palladium compounds} {without a metal-carbon linkage} {Ruthout a metal-carbon linkage} {Ruthout a metal-carbon linkage} {without a metal-carbon linkage} {without a metal-carbon linkage} {without a metal-carbon linkage} {without a metal-carbon linkage}
15/0006 15/0013 15/002 15/0026 15/0033 15/004 15/0046 15/0066 15/0066 15/0073	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} {Osmium compounds} {without a metal-carbon linkage} {Iridium compounds} {without a metal-carbon linkage} {Ruthenium compounds} {without a metal-carbon linkage} {without a metal-carbon linkage} {without a metal-carbon linkage} {Palladium compounds} {without a metal-carbon linkage} {Rhodium compounds}

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 System 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}