CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

CHEMISTRY

C07 ORGANIC CHEMISTRY

(NOTES omitted)

C07D HETEROCYCLIC COMPOUNDS (macromolecular compounds <u>C08</u>)

NOTES

- 1. This subclass <u>does not cover</u> compounds containing saccharide radicals as defined in Note (3) following the title of subclass <u>C07H</u>, which are covered by subclass <u>C07H</u>.
- 2. In this subclass, in compounds containing a hetero ring covered by group C07D 295/00 and at least one other hetero ring, the hetero ring covered by group C07D 295/00 is considered as an acyclic chain containing nitrogen atoms.
- 3. In this subclass, the following terms or expressions are used with the meaning indicated:
 - "hetero ring" is a ring having at least one halogen, nitrogen, oxygen, sulfur, selenium or tellurium atom as a ring member;
 - "bridged" means the presence of at least one fusion other than ortho, peri or spiro;
 - · two rings are "condensed" if they share at least one ring member, i.e. "spiro" and "bridged" are considered as condensed;
 - "condensed ring system" is a ring system in which all rings are condensed among themselves;
 - "number of relevant rings" in a condensed ring system equals the number of scissions necessary to convert the ring system into one acyclic chain;
 - "relevant rings" in a condensed ring system, i.e. the rings which taken together describe all the links between every atom of the ring system, are chosen according to the following criteria consecutively:
 - a. lowest number of ring members;
 - b. highest number of hetero atoms as ring members;
 - c. lowest number of members shared with other rings;
 - d. last place in the classification scheme.
- 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</u> - <u>C07K</u> and within these subclasses.
- 5. Therapeutic activity of compounds is further classified in subclass A61P.
- 6. In this subclass, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary:
 - a. compounds having only one hetero ring are classified in the last appropriate place in one of the groups
 C07D 203/00 C07D 347/00. The same applies for compounds having more hetero rings covered by the same main group, neither condensed among themselves nor condensed with a common carbocyclic ring system;
 - compounds having two or more hetero rings covered by different main groups neither condensed among themselves nor condensed with a common carbocyclic ring system are classified in the last appropriate place in one of the groups C07D 401/00 - C07D 421/00;
 - c. compounds having two or more relevant hetero rings, covered by the same or by different main groups, which are condensed among themselves or condensed with a common carbocyclic ring system, are classified in the last appropriate place in one of the groups C07D 451/00 C07D 519/00.
- 7. In this subclass:
 - where a compound may exist in tautomeric forms, it is classified as though existing in the form which is classified last
 in the system. Therefore, double bonds between ring members and non-ring members and double bonds between ring
 members themselves are considered equivalent in determining the degree of hydrogenation of the ring. Formulae are
 considered to be written in Kekule form;
 - hydrocarbon radicals containing a carbocyclic ring and an acyclic chain by which it is linked to the hetero ring and being
 substituted on both the carbocyclic ring and the acyclic chain by hetero atoms or by carbon atoms having three bonds to
 hetero atoms with at the most one bond to halogen, are classified according to the substituents on the acyclic chain. For
 example, the compound

is classified in group C07D 233/22,

and the compound

C07D

(continued) is classified in groups C07D 233/24 and C07D 233/26, where X —NH₂, —NHCOCH₃, or —COOCH₃.

eterocyclic	c compounds having only nitrogen as ring hetero atom	205/10	• having two double bonds between ring members or between ring members and non-ring members
201/00	Preparation, separation, purification or stabilisation of unsubstituted lactams	205/12	condensed with carbocyclic rings or ring systems
201/02	Preparation of lactams	207/00	Heterocyclic compounds containing five-
201/04	from or via oximes by Beckmann rearrangement		membered rings not condensed with other rings,
201/06	• • • from ketones by simultaneous oxime formation and rearrangement		with one nitrogen atom as the only ring hetero atom
201/08	from carboxylic acids or derivatives thereof, e.g. hydroxy carboxylic acids, lactones or nitriles		<u>NOTE</u>
201/10	 from cycloaliphatic compounds by simultaneous nitrosylation and rearrangement 		Pyrrolidines having only hydrogen atoms attached to the ring carbon atoms are classified in C07D 295/00
201/12	by depolymerising polyamidesPreparation of salts or adducts of lactams	207/02	
201/14 201/16	Separation or purification	207/02	with only hydrogen or carbon atoms directly
201/18	Stabilisation	207/04	attached to the ring nitrogen atom . having no double bonds between ring members of hattached ring members and non ring members.
		207/06	between ring members and non-ring members with radicals, containing only hydrogen and
203/00	Heterocyclic compounds containing three-	207/08	carbon atoms, attached to ring carbon atoms with hydrocarbon radicals, substituted by
	membered rings with one nitrogen atom as the	207700	hetero atoms, attached to ring carbon atoms
	only ring hetero atom	207/09	Radicals substituted by nitrogen atoms, not
203/02	Preparation by ring-closure		forming part of a nitro radical
203/04	not condensed with other rings	207/10	with hetero atoms or with carbon atoms having
203/06	having no double bonds between ring members or		three bonds to hetero atoms with at the most
202/00	between ring members and non-ring members		one bond to halogen, e.g. ester or nitrile
203/08	 with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly 		radicals, directly attached to ring carbon atoms
	attached to the ring nitrogen atom	207/12	Oxygen or sulfur atoms
203/10	Radicals substituted by singly bound oxygen atoms	207/14	• • • Nitrogen atoms not forming part of a nitro radical
203/12	Radicals substituted by nitrogen atoms not forming part of a nitro radical	207/16	 Carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals
203/14	• • • • with carbocyclic rings directly attached to the ring nitrogen atom	207/18	having one double bond between ring members of between a ring member and a non-ring member.
203/16	with acylated ring nitrogen atoms	207/20	with only hydrogen atoms, hydrocarbon or
203/18	• • • by carboxylic acids, or by sulfur or nitrogen analogues thereof		substituted hydrocarbon radicals, directly attached to ring carbon atoms
203/20	• • • by carbonic acid, or by sulfur or nitrogen analogues thereof, e.g. carbamates	207/22	• • • with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most
203/22	• • • with hetero atoms directly attached to the ring nitrogen atom		one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms
203/24	Sulfur atoms	207/24	Oxygen or sulfur atoms
203/26	 condensed with carbocyclic rings or ring systems 	207/26	2-Pyrrolidones
205/00	Heterocyclic compounds containing four- membered rings with one nitrogen atom as the only ring hetero atom	207/263	with only hydrogen atoms or radicals containing only hydrogen and carbon atoms directly attached to other ring carbon atoms
205/02	 not condensed with other rings 	207/267	with only hydrogen atoms or radicals
205/04	having no double bonds between ring members or between ring members and non-ring members	2011201	containing only hydrogen and carbon atoms directly attached to the ring
205/06	having one double bond between ring members or between a ring member and a non-ring member	207/27	nitrogen atom with substituted hydrocarbon radicals
205/08	• • • with one oxygen atom directly attached in position 2, e.g. beta-lactams	, <u></u>	directly attached to the ring nitrogen atom
205/085	• • • with a nitrogen atom directly attached in position 3	207/273	with hetero atoms or with carbon atoms having three bonds to hetero atoms with
205/09	• • • with a sulfur atom directly attached in position 4		at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached
205/095	• • • • and with a nitrogen atom directly attached in position 3		to other ring carbon atoms

207/277	Carbon atoms having three bonds to hetero atoms with at the most one	207/456	• • • • with hetero atoms or with carbon atoms having three bonds to hetero atoms with at
207/28	bond to halogen, e.g. ester or nitrile radicals 2-Pyrrolidone-5- carboxylic acids;		the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to other ring carbon atoms
2011/20	Functional derivatives thereof, e.g. esters, nitriles	207/46	with hetero atoms directly attached to the ring nitrogen atom
207/30	 having two double bonds between ring members 	207/48	Sulfur atoms
207750	or between ring members and non-ring members	207/50	Nitrogen atoms
207/32	with only hydrogen atoms, hydrocarbon or		-
	substituted hydrocarbon radicals, directly	209/00	Heterocyclic compounds containing five-
	attached to ring carbon atoms		membered rings, condensed with other rings, with
207/323	• • • with only hydrogen atoms or radicals	200/02	one nitrogen atom as the only ring hetero atom
	containing only hydrogen and carbon atoms	209/02	. condensed with one carbocyclic ring
	directly attached to the ring nitrogen atoms	209/04	. Indoles; Hydrogenated indoles
207/325	• • • with substituted hydrocarbon radicals	209/06	Preparation of indole from coal-tar
	directly attached to the ring nitrogen atom	209/08	with only hydrogen atoms or radicals
207/327	Radicals substituted by carbon atoms		containing only hydrogen and carbon atoms, directly attached to carbon atoms of the hetero
	having three bonds to hetero atoms with at		ring
	the most one bond to halogen, e.g. ester or	209/10	• • • with substituted hydrocarbon radicals attached
207/22	nitrile radicals	207/10	to carbon atoms of the hetero ring
207/33	with substituted hydrocarbon radicals, directly attached to ring carbon atoms	209/12	Radicals substituted by oxygen atoms
207/333	Radicals substituted by oxygen or sulfur	209/14	Radicals substituted by nitrogen atoms, not
201/333	atoms	200/11	forming part of a nitro radical
207/335	Radicals substituted by nitrogen atoms not	209/16	Tryptamines
201/333	forming part of a nitro radical	209/18	Radicals substituted by carbon atoms having
207/337	Radicals substituted by carbon atoms	20)/10	three bonds to hetero atoms with at the most
201/331	having three bonds to hetero atoms with at		one bond to halogen, e.g. ester or nitrile
	the most one bond to halogen, e.g. ester or		radicals
	nitrile radicals	209/20	substituted additionally by nitrogen atoms,
207/34	with hetero atoms or with carbon atoms having		e.g. tryptophane
	three bonds to hetero atoms with at the most	209/22	with an aralkyl radical attached to the ring
	one bond to halogen, e.g. ester or nitrile		nitrogen atom
	radicals, directly attached to ring carbon atoms	209/24	with an alkyl or cycloalkyl radical attached
207/36	Oxygen or sulfur atoms		to the ring nitrogen atom
207/38	2-Pyrrolones	209/26	with an acyl radical attached to the ring
207/40	2,5-Pyrrolidine-diones	200/20	nitrogen atom
207/404	with only hydrogen atoms or radicals	209/28	1-(4-Chlorobenzoyl)-2-methyl-
	containing only hydrogen and carbon		indolyl-3-acetic acid, substituted in
	atoms directly attached to other ring		position 5 by an oxygen or nitrogen atom; Esters thereof
207/400	carbon atoms, e.g. succinimide	209/30	• • • with hetero atoms or with carbon atoms having
207/408	Radicals containing only hydrogen	207/30	three bonds to hetero atoms with at the most
	and carbon atoms attached to ring carbon atoms		one bond to halogen, directly attached to
207/412	Acyclic radicals containing more		carbon atoms of the hetero ring
2011712	than six carbon atoms	209/32	Oxygen atoms
207/416	with hetero atoms or with carbon atoms	209/34	in position 2
	having three bonds to hetero atoms with	209/36	in position 3, e.g. adrenochrome
	at the most one bond to halogen, e.g.	209/38	in positions 2 and 3, e.g. isatin
	ester or nitrile radicals, directly attached	209/40	Nitrogen atoms, not forming part of a nitro
	to other ring carbon atoms	-	radical, e.g. isatin semicarbazone
207/42	Nitro radicals	209/42	Carbon atoms having three bonds to hetero
207/44	having three double bonds between ring members		atoms with at the most one bond to halogen,
	or between ring members and non-ring members		e.g. ester or nitrile radicals
207/444	having two doubly-bound oxygen atoms	209/43	with an —OCH $_2$ CH(OH)CH $_2$ NH $_2$ radical,
	directly attached in positions 2 and 5		which may be further substituted, attached in
207/448	• • • with only hydrogen atoms or radicals		positions 4, 5, 6 or 7
	containing only hydrogen and carbon atoms	209/44	Iso-indoles; Hydrogenated iso-indoles
	directly attached to other ring carbon atoms,	209/46	with an oxygen atom in position 1
207/452	e.g. maleimide	209/48	• • • with oxygen atoms in positions 1 and 3, e.g.
207/452	 with hydrocarbon radicals, substituted by hetero atoms, directly attached to the ring 	200/10	phthalimide
	netero atoms, directly attached to the ring nitrogen atom	209/49	and having in the molecule an acyl radical
	ma ogen atom		containing a saturated three-membered ring, e.g. chrysanthemumic acid esters
			e.g. cm ysanthemuniic acid esters

209/50	• • • with oxygen and nitrogen atoms in positions 1 and 3	211/14	with hydrocarbon or substituted hydrocarbon radicals attached to the ring
209/52	condensed with a ring other than six-membered		nitrogen atom
209/54	Spiro-condensed	211/16	with acylated ring nitrogen atom
209/56	• Ring systems containing three or more rings	211/18	with substituted hydrocarbon radicals
209/58	[b]- or [c]-condensed		attached to ring carbon atoms
209/60	Naphtho [b] pyrroles; Hydrogenated naphtho	211/20	with hydrocarbon radicals, substituted by
209/00	[b] pyrroles	211/20	singly bound oxygen or sulphur atoms
209/62	Naphtho [c] pyrroles; Hydrogenated naphtho	211/22	• • • • by oxygen atoms
	[c] pyrroles	211/24	by sulfur atoms to which a second
209/64	with an oxygen atom in position 1		hetero atom is attached
209/66	• • • with oxygen atoms in positions 1 and 3	211/26	with hydrocarbon radicals, substituted by
209/68	with oxygen and nitrogen atoms in positions		nitrogen atoms
207/00	1 and 3	211/28	to which a second hetero atom is
209/70	containing carbocyclic rings other than six-		attached
209/70	membered	211/30	with hydrocarbon radicals, substituted
200/72		211/30	by doubly bound oxygen or sulfur atoms
209/72	• • 4,7-Endo-alkylene-iso-indoles		or by two oxygen or sulfur atoms singly
209/74	with an oxygen atom in position 1		bound to the same carbon atom
209/76	• • • with oxygen atoms in positions 1 and 3	211/32	by oxygen atoms
209/78	• • • with oxygen and nitrogen atoms in positions		
	1 and 3	211/34	with hydrocarbon radicals, substituted
209/80	[b, c]- or [b, d]-condensed		by carbon atoms having three bonds to
209/82	Carbazoles; Hydrogenated carbazoles		hetero atoms with at the most one bond to
209/84	Separation, e.g. from tar; Purification		halogen, e.g. ester or nitrile radicals
209/86	with only hydrogen atoms, hydrocarbon or	211/36	with hetero atoms or with carbon atoms having
207/00	substituted hydrocarbon radicals, directly		three bonds to hetero atoms with at the most
	attached to carbon atoms of the ring system		one bond to halogen, e.g. ester or nitrile
200/00			radicals, directly attached to ring carbon atoms
209/88	with hetero atoms or with carbon atoms	211/38	• • • Halogen atoms or nitro radicals
	having three bonds to hetero atoms with at	211/40	Oxygen atoms
	the most one bond to halogen, e.g. ester or	211/42	attached in position 3 or 5
	nitrile radicals, directly attached to carbon	211/44	attached in position 4
• • • • • • •	atoms of the ring system	211/46	having a hydrogen atom as the second
209/90	• • • Benzo [c, d] indoles; Hydrogenated benzo [c, d] indoles		substituent in position 4
209/92	Naphthostyrils	211/48	having an acyclic carbon atom attached
209/94	containing carbocyclic rings other than six-	211/50	in position 4 Aroyl radical
200/04	membered	211/52	having an aryl radical as the second
209/96	Spiro-condensed ring systems		substituent in position 4
211/00	Heterocyclic compounds containing hydrogenated	211/54	Sulfur atoms
	pyridine rings, not condensed with other rings	211/56	• • • Nitrogen atoms (nitro radicals <u>C07D 211/38</u>)
	NOTES	211/58	• • • attached in position 4
		211/60	Carbon atoms having three bonds to hetero
	1. In this group, the following term is used with the		atoms with at the most one bond to halogen,
	meaning indicated:		e.g. ester or nitrile radicals
	"hydrogenated" means having less than three	211/62	attached in position 4
	double bonds between ring members or	211/64	having an aryl radical as the second
	between ring members and non-ring members.	211,0.	substituent in position 4
	2. Piperidines having only hydrogen atoms attached	211/66	having a hetero atom as the second
	to the ring carbon atoms are classified in	211/00	substituent in position 4
	<u>C07D 295/00</u>	211/60	
211/02		211/68	• having one double bond between ring members or
211/02	Preparation by ring-closure or hydrogenation	211/50	between a ring member and a non-ring member
211/04	 with only hydrogen or carbon atoms directly 	211/70	• • • with only hydrogen atoms, hydrocarbon or
	attached to the ring nitrogen atom		substituted hydrocarbon radicals, directly
211/06	having no double bonds between ring members or		attached to ring carbon atoms
	between ring members and non-ring members	211/72	with hetero atoms or with carbon atoms having
211/08	• • • with hydrocarbon or substituted hydrocarbon		three bonds to hetero atoms, with at the most
	radicals directly attached to ring carbon atoms		one bond to halogen, directly attached to ring
211/10	with radicals containing only carbon and		carbon atoms
	hydrogen atoms attached to ring carbon	211/74	Oxygen atoms
	atoms	211/76	attached in position 2 or 6
211/12			
	• • • • with only hydrogen atoms attached to the	211/78	Carbon atoms having three bonds to hetero
	with only hydrogen atoms attached to the ring nitrogen atom	211//8	Carbon atoms having three bonds to hetero atoms with at the most one bond to halogen

211/80	 having two double bonds between ring members or between ring members and non-ring members 	213/38	• • • • having only hydrogen or hydrocarbon radicals attached to the substituent
211/82	with only hydrogen atoms, hydrocarbon or		nitrogen atom
	substituted hydrocarbon radicals, directly	213/40	• • • • Acylated substituent nitrogen atom
	attached to ring carbon atoms	213/42	• • • having hetero atoms attached to the
211/84	• • • with hetero atoms or with carbon atoms having three bonds to hetero atoms, with at the most		substituent nitrogen atom (nitro radicals C07D 213/26)
	one bond to halogen directly attached to ring	213/44	Radicals substituted by doubly-bound
	carbon atoms	213/ 11	oxygen, sulfur, or nitrogen atoms, or by two
211/86	Oxygen atoms		such atoms singly-bound to the same carbon
211/88	attached in positions 2 and 6, e.g.		atom
	glutarimide	213/46	Oxygen atoms
211/90	Carbon atoms having three bonds to hetero	213/48	Aldehydo radicals
211,70	atoms with at the most one bond to halogen	213/50	Ketonic radicals
211/92	• with a hetero atom directly attached to the ring	213/51	Acetal radicals
11,,,	nitrogen atom	213/52	Sulfur atoms
211/94	Oxygen atom, e.g. piperidine N-oxide	213/52	
211/96	Sulfur atom		Nitrogen atoms
211/98	Nitrogen atom	213/54	Radicals substituted by carbon atoms having
211/96	• • Nitrogen atom		three bonds to hetero atoms with at the most
213/00	Heterocyclic compounds containing six-membered		one bond to halogen, e.g. ester or nitrile radicals
	rings, not condensed with other rings, with one	212/55	
	nitrogen atom as the only ring hetero atom and	213/55	Acids; Esters
	three or more double bonds between ring members	213/56	Amides
	or between ring members and non-ring members	213/57	Nitriles
213/02	 having three double bonds between ring members or 	213/58	Amidines
	between ring members and non-ring members	213/59	with at least one of the bonds being to
213/04	 having no bond between the ring nitrogen atom 		sulfur
	and a non-ring member or having only hydrogen	213/60	with hetero atoms or with carbon atoms having
	or carbon atoms directly attached to the ring		three bonds to hetero atoms with at the most
	nitrogen atom		one bond to halogen, e.g. ester or nitrile
213/06	containing only hydrogen and carbon atoms in		radicals, directly attached to ring carbon atoms
	addition to the ring nitrogen atom	213/61	Halogen atoms or nitro radicals
213/08	Preparation by ring-closure	213/62	Oxygen or sulfur atoms
213/09	involving the use of ammonia, amines,	213/63	One oxygen atom
	amine salts, or nitriles	213/64	attached in position 2 or 6
213/10	• • • • • from acetaldehyde or cyclic polymers	213/643	2-Phenoxypyridines; Derivatives
010/10	thereof	212/647	thereof
213/12	from unsaturated compounds	213/647	and having in the molecule an acyl
213/127	Preparation from compounds containing		radical containing a saturated three-
212/122	pyridine rings		membered ring, e.g. chrysanthemumic acid esters
213/133	Preparation by dehydrogenation of	213/65	attached in position 3 or 5
212/11	hydrogenated pyridine compounds	213/66	
213/14	Preparation from compounds containing	213/00	atom and in each of the positions
	heterocyclic oxygen		4 and 5 a carbon atom bound to an
213/16	containing only one pyridine ring		oxygen, sulphur, or nitrogen atom,
213/18	Salts thereof		e.g. pyridoxal
213/20	Quaternary compounds thereof	213/67	2-Methyl-3-hydroxy-4,5-
213/22	containing two or more pyridine rings	213/01	bis(hydroxy-methyl)pyridine, i.e.
	directly linked together, e.g. bipyridyl		pyridoxine
213/24	with substituted hydrocarbon radicals attached	213/68	attached in position 4
	to ring carbon atoms	213/69	Two or more oxygen atoms
213/26	Radicals substituted by halogen atoms or	213/70	Sulfur atoms
	nitro radicals	213/70	to which a second hetero atom is
213/28	Radicals substituted by singly-bound oxygen	413/11	attached
	or sulphur atoms	213/72	Nitrogen atoms (nitro radicals <u>C07D 213/61</u>)
213/30	Oxygen atoms	213/72	Unsubstituted amino or imino radicals
213/32	Sulfur atoms	213/73	Amino or imino radicals substituted by
213/34	to which a second hetero atom is	213/74	hydrocarbon or substituted hydrocarbon
	attached		radicals
213/36	Radicals substituted by singly-bound	213/75	Amino or imino radicals, acylated by
	nitrogen atoms (nitro radicals <u>C07D 213/26</u>)	213/13	carboxylic or carbonic acids, or by
			sulfur or nitrogen analogues thereof, e.g.
			carbamates

212/76		215/40	
213/76	to which a second hetero atom is attached	215/40	• • • attached in position 8
212/77	(nitro radicals <u>C07D 213/61</u>)	215/42	attached in position 4
213/77		215/44	with aryl radicals attached to said nitrogen
213/78	Carbon atoms having three bonds to hetero	215/46	atoms
	atoms, with at the most one bond to halogen, e.g. ester or nitrile radicals	215/46	with hydrocarbon radicals, substituted by nitrogen atoms, attached to said nitrogen
213/79	Acids; Esters		atoms
213/79		215/48	
	in position 3	213/46	Carbon atoms having three bonds to hetero atoms with at the most one bond to halogen
213/803	Processes of preparation	215/50	attached in position 4
213/807	by oxidation of pyridines or condensed pyridines	215/50	with aryl radicals attached in position 2
213/81	Amides; Imides	215/54	attached in position 3
213/81			
	in position 3	215/56	• • • • with oxygen atoms in position 4
213/83	Thioacids; Thioesters; Thioamides; Thioimides	215/58	with hetero atoms directly attached to the ring pitrogen etem.
213/84	· · · · Nitriles	215/60	nitrogen atom . N-oxides
		213/00	· · N-oxides
213/85	in position 3	217/00	Heterocyclic compounds containing isoquinoline
213/86	Hydrazides; Thio or imino analogues thereof		or hydrogenated isoquinoline ring systems
213/87		217/02	 with only hydrogen atoms or radicals containing
	in position 3		only carbon and hydrogen atoms, directly attached
213/88	Nicotinoylhydrazones		to carbon atoms of the nitrogen-containing ring;
213/89	with hetero atoms directly attached to the ring		Alkylene-bis-isoquinolines
212/00	nitrogen atom	217/04	• with hydrocarbon or substituted hydrocarbon
213/90	 having more than three double bonds between ring members or between ring members and non-ring 		radicals attached to the ring nitrogen atom
	members of between ring members and non-ring	217/06	• with the ring nitrogen atom acylated by
	members		carboxylic or carbonic acids, or with sulfur or
215/00	Heterocyclic compounds containing quinoline or		nitrogen analogues thereof, e.g. carbamates
	hydrogenated quinoline ring systems	217/08	• • with a hetero atom directly attached to the ring
215/02	 having no bond between the ring nitrogen atom 	21-110	nitrogen atom
	and a non-ring member or having only hydrogen	217/10	Quaternary compounds
	atoms or carbon atoms directly attached to the ring	217/12	• with radicals, substituted by hetero atoms, attached
	nitrogen atom		to carbon atoms of the nitrogen-containing ring
215/04	• with only hydrogen atoms or radicals containing	217/14	• other than aralkyl radicals
	only hydrogen and carbon atoms, directly	217/16	substituted by oxygen atoms
	attached to the ring carbon atoms	217/18	Aralkyl radicals
215/06	having only hydrogen atoms, hydrocarbon or	217/20	with oxygen atoms directly attached to the
	substituted hydrocarbon radicals, attached to		aromatic ring of said aralkyl radical, e.g.
215/00	the ring nitrogen atom	21-122	papaverine
215/08	• • • with acylated ring nitrogen atom	217/22	• with hetero atoms or with carbon atoms having
215/10	Quaternary compounds		three bonds to hetero atoms with at the most one
215/12	with substituted hydrocarbon radicals attached to		bond to halogen, e.g. ester or nitrile radicals, directly attached to carbon atoms of the nitrogen-
215/14	ring carbon atoms		containing ring
215/14	Radicals substituted by oxygen atoms	217/24	Oxygen atoms
215/16	with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one	217/24	Carbon atoms having three bonds to hetero atoms
	bond to halogen, e.g. ester or nitrile radicals,	217/20	with at the most one bond to halogen
	directly attached to ring carbon atoms		
215/18	Halogen atoms or nitro radicals	219/00	Heterocyclic compounds containing acridine or
215/20	Oxygen atoms Oxygen atoms		hydrogenated acridine ring systems
215/22	attached in position 2 or 4	219/02	 with only hydrogen, hydrocarbon or substituted
215/227	only one oxygen atom which is attached in		hydrocarbon radicals, directly attached to carbon
213/221	position 2		atoms of the ring system
215/233	• • • • only one oxygen atom which is attached in	219/04	 with hetero atoms or with carbon atoms having
213/233	position 4		three bonds to hetero atoms with at the most one
215/24	• • • attached in position 8		bond to halogen, e.g. ester or nitrile radicals,
215/24	Alcohols; Ethers thereof	210/06	directly attached to carbon atoms of the ring system
215/28	with halogen atoms or nitro radicals in	219/06	. Oxygen atoms
213/20	positions 5, 6 or 7	219/08	. Nitrogen atoms
215/30	Metal salts; Chelates	219/10	attached in position 9
215/30	Esters	219/12	Amino-alkylamino radicals attached in
413/34	and the second of the second o		
215/24		010/11	position 9
215/34	Carbamates	219/14	• with hydrocarbon radicals, substituted by nitrogen
215/34 215/36 215/38		219/14	•

219/16	 with acyl radicals, substituted by nitrogen atoms, attached to the ring nitrogen atom 	225/00	Heterocyclic compounds containing rings of more than seven members having one nitrogen atom as the only ring hetero atom
221/00	Heterocyclic compounds containing six-membered		NOTE
	rings having one nitrogen atom as the only ring hetero atom, not provided for by groups		Polymethyleneimines with at least five ring
221/02	<u>C07D 211/00</u> - <u>C07D 219/00</u>		members and having only hydrogen atoms
221/02	. condensed with carbocyclic rings or ring systems		attached to the ring carbon atoms are classified in
221/04	• Ortho- or peri-condensed ring systems		group <u>C07D 295/00</u> .
221/06	Ring systems of three rings	225/02	 not condensed with other rings
221/08	Aza-anthracenes	225/04	• condensed with carbocyclic rings or ring systems
221/10	Aza-phenanthrenes	225/06	condensed with one six-membered ring
221/12	Phenanthridines	225/08	condensed with two six-membered rings
221/14	Aza-phenalenes, e.g. 1,8-naphthalimide	223/00	• • condensed with two six membered rings
221/16	• • • containing carbocyclic rings other than six- membered	227/00	Heterocyclic compounds containing rings having one nitrogen atom as the only ring hetero
221/18	Ring systems of four or more rings		atom, according to more than one of groups
221/20	 Spiro-condensed ring systems 		<u>C07D 203/00</u> - <u>C07D 225/00</u>
221/22	Bridged ring systems		<u>NOTE</u>
221/24	Camphidines		
221/26	Benzomorphans		Polymethyleneimines with at least five ring
221/28	Morphinans		members and having only hydrogen atoms
223/00	Heterocyclic compounds containing seven-		attached to the ring carbon atoms are classified in group C07D 295/00.
	membered rings having one nitrogen atom as the	227/02	• with only hydrogen or carbon atoms directly
	only ring hetero atom	227702	attached to the ring nitrogen atom
	<u>NOTE</u>	227/04	• with only hydrogen atoms, hydrocarbon or
	Hexamethylene imines or 3-azabicyclo [3.2.2]	227701	substituted hydrocarbon radicals, attached to ring
	nonanes, having only hydrogen atoms attached		carbon atoms
	to the ring carbon atoms, are classified in group C07D 295/00.	227/06	• • with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one
			bond to halogen, e.g. ester or nitrile radicals,
223/02	 not condensed with other rings 		directly attached to ring carbon atoms
223/04	 with only hydrogen atoms, halogen atoms, 	227/08	Oxygen atoms
	hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms	227/087	• • • One doubly-bound oxygen atom in position 2, e.g. lactams
223/06	with hetero atoms or with carbon atoms having	227/093	Two doubly-bound oxygen atoms attached
	three bonds to hetero atoms with at the most one		to the carbon atoms adjacent to the ring
	bond to halogen, e.g. ester or nitrile radicals,		nitrogen atom, e.g. dicarboxylic acid imides
	directly attached to ring carbon atoms (halogen	227/10	Nitrogen atoms not forming part of a nitro
	atoms <u>C07D 223/04</u>)		radical
223/08	Oxygen atoms	227/12	 with hetero atoms directly attached to the ring
223/10	attached in position 2		nitrogen atom
223/12	Nitrogen atoms not forming part of a nitro	220/00	TT.4
	radical	229/00	Heterocyclic compounds containing rings of less
223/14	 condensed with carbocyclic rings or ring systems 		than five members having two nitrogen atoms as the only ring hetero atoms
223/16	Benzazepines; Hydrogenated benzazepines	229/02	• containing three-membered rings
223/18	Dibenzazepines; Hydrogenated dibenzazepines	229/02	• Containing three-membered rings
223/20	Dibenz [b, e] azepines; Hydrogenated dibenz [b, e] azepines	231/00	Heterocyclic compounds containing 1,2-diazole or hydrogenated 1,2-diazole rings
223/22	Dibenz [b, f] azepines; Hydrogenated dibenz	231/02	 not condensed with other rings
	[b, f] azepines	231/04	having no double bonds between ring members or
223/24	• • • with hydrocarbon radicals, substituted by		between ring members and non-ring members
	nitrogen atoms, attached to the ring nitrogen atom	231/06	• having one double bond between ring members or between a ring member and a non-ring member
223/26	• • • • having a double bond between positions 10 and 11	231/08	with oxygen or sulfur atoms directly attached to ring carbon atoms
223/28	• • • • having a single bond between positions 10 and 11	231/10	having two or three double bonds between ring
223/30	• • • • with hetero atoms directly attached to the ring nitrogen atom	001/50	members or between ring members and non-ring members
223/32	containing carbocyclic rings other than six-	231/12	with only hydrogen atoms, hydrocarbon or
223132	membered		substituted hydrocarbon radicals, directly attached to ring carbon atoms

221/14			
231/14	with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most	233/20	 with substituted hydrocarbon radicals, directly attached to ring carbon atoms
	one bond to halogen, e.g. ester or nitrile	233/22	Radicals substituted by oxygen atoms
	radicals, directly attached to ring carbon atoms	233/24	Radicals substituted by nitrogen atoms not
231/16	Halogen atoms or nitro radicals	233/24	forming part of a nitro radical
231/18	One oxygen or sulfur atom	233/26	Radicals substituted by carbon atoms having
231/20	One oxygen atom attached in position 3 or	200,20	three bonds to hetero atoms
	5	233/28	with hetero atoms or with carbon atoms having
231/22	with aryl radicals attached to ring		three bonds to hetero atoms with at the most one
	nitrogen atoms		bond to halogen, e.g. ester or nitrile radicals,
231/24	having sulfone or sulfonic acid		directly attached to ring carbon atoms
	radicals in the molecule	233/30	Oxygen or sulfur atoms
231/26	1-Phenyl-3-methyl-5- pyrazolones,	233/32	One oxygen atom
	unsubstituted or substituted on the	233/34	Ethylene-urea
	phenyl ring	233/36	with hydrocarbon radicals, substituted by
231/28	Two oxygen or sulfur atoms		nitrogen atoms, attached to ring nitrogen
231/30	• • • • attached in positions 3 and 5		atoms
231/32	Oxygen atoms	233/38	• • • • with acyl radicals or hetero atoms directly
231/34	• • • • • with only hydrogen atoms or radicals		attached to ring nitrogen atoms
	containing only hydrogen and carbon	233/40	Two or more oxygen atoms
	atoms, attached in position 4	233/42	Sulfur atoms
231/36	• • • • • with hydrocarbon radicals, substituted	233/44	• • Nitrogen atoms not forming part of a nitro
	by hetero atoms, attached in position		radical
	4	233/46	• • • with only hydrogen atoms attached to said
231/38	Nitrogen atoms (nitro radicals <u>C07D 231/16</u>)		nitrogen atoms
231/40	Acylated on said nitrogen atom	233/48	with acyclic hydrocarbon or substituted
231/42	Benzene-sulfonamido pyrazoles		acyclic hydrocarbon radicals, attached to said
231/44	Oxygen and nitrogen or sulfur and nitrogen		nitrogen atoms
224/44	atoms	233/50	• • • with carbocyclic radicals directly attached to
231/46	Oxygen atom in position 3 or 5 and	222/52	said nitrogen atoms
221/40	nitrogen atom in position 4	233/52	• • • • with hetero atoms directly attached to said
231/48	with hydrocarbon radicals attached to	222/54	nitrogen atoms
	said nitrogen atom	233/54	 having two double bonds between ring members or
221/50	A 1.4 1		
231/50	Acylated on said nitrogen atom	222/56	between ring members and non-ring members
231/50 231/52	Oxygen atom in position 3 and nitrogen	233/56	between ring members and non-ring members . with only hydrogen atoms or radicals containing
231/52	• • • • • Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa	233/56	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring
231/52 231/54	 Oxygen atom in position 3 and nitrogen atom in position 5, or <u>vice versa</u> condensed with carbocyclic rings or ring systems 		 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms
231/52	• • • • • Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa	233/56 233/58	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals
231/52 231/54	 Oxygen atom in position 3 and nitrogen atom in position 5, or <u>vice versa</u> condensed with carbocyclic rings or ring systems 		 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms,
231/52 231/54 231/56	 Oxygen atom in position 3 and nitrogen atom in position 5, or <u>vice versa</u> condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles 		 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms
231/52 231/54 231/56	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa . condensed with carbocyclic rings or ring systems . Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole 	233/58	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms,
231/52 231/54 231/56	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa . condensed with carbocyclic rings or ring systems . Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings . having no double bonds between ring members or 	233/58	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by
231/52 231/54 231/56 233/00 233/02	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa . condensed with carbocyclic rings or ring systems . Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings . having no double bonds between ring members or between ring members and non-ring members 	233/58	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring
231/52 231/54 231/56 233/00	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa . condensed with carbocyclic rings or ring systems . Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings . having no double bonds between ring members or between ring members and non-ring members . having one double bond between ring members or 	233/58 233/60	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro
231/52 231/54 231/56 233/00 233/02 233/04	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa . condensed with carbocyclic rings or ring systems . Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings . having no double bonds between ring members or between ring members and non-ring members . having one double bond between ring members or between a ring member and a non-ring member 	233/58 233/60	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms
231/52 231/54 231/56 233/00 233/02	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa . condensed with carbocyclic rings or ring systems . Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings . having no double bonds between ring members or between ring members and non-ring members . having one double bond between ring members or between a ring member and a non-ring member . with only hydrogen atoms or radicals containing 	233/58 233/60	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring
231/52 231/54 231/56 233/00 233/02 233/04	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly 	233/58 233/60 233/61 233/62	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms
231/52 231/54 231/56 233/00 233/02 233/04 233/06	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms 	233/58 233/60 233/61	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to
231/52 231/54 231/56 233/00 233/02 233/04	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms with alkyl radicals, containing more than four 	233/58 233/60 233/61 233/62 233/64	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine
231/52 231/54 231/56 233/00 233/02 233/04 233/06	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa . condensed with carbocyclic rings or ring systems . Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings . having no double bonds between ring members or between ring members and non-ring members . having one double bond between ring members or between a ring member and a non-ring member . with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms . with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon 	233/58 233/60 233/61 233/62	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having
231/52 231/54 231/56 233/00 233/02 233/04 233/06 233/08	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon atoms 	233/58 233/60 233/61 233/62 233/64	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one
231/52 231/54 231/56 233/00 233/02 233/04 233/06	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon atoms with only hydrogen atoms or radicals 	233/58 233/60 233/61 233/62 233/64	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals,
231/52 231/54 231/56 233/00 233/02 233/04 233/06 233/08	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen atoms or radicals containing only hydrogen and carbon atoms, 	233/58 233/60 233/61 233/62 233/64 233/66	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms
231/52 231/54 231/56 233/00 233/02 233/04 233/06 233/08 233/10	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring nitrogen atoms, directly attached to ring nitrogen atoms 	233/58 233/60 233/61 233/62 233/64 233/66	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms Halogen atoms Halogen atoms
231/52 231/54 231/56 233/00 233/02 233/04 233/06 233/08	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring nitrogen atoms, directly attached to ring nitrogen atoms with substituted hydrocarbon radicals 	233/60 233/61 233/62 233/64 233/66 233/68 233/70	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms Halogen atoms One oxygen atom
231/52 231/54 231/56 233/00 233/02 233/04 233/06 233/08 233/10	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring nitrogen atoms 	233/58 233/60 233/61 233/62 233/64 233/66 233/68 233/70 233/72	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms Halogen atoms One oxygen atom Two oxygen atoms, e.g. hydantoin
231/52 231/54 231/56 233/00 233/02 233/04 233/06 233/08 233/10 233/12 233/14	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems . Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring nitrogen atoms Radicals substituted by oxygen atoms 	233/60 233/61 233/62 233/64 233/66 233/68 233/70	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms Halogen atoms One oxygen atoms Two oxygen atoms, e.g. hydantoin with only hydrogen atoms or radicals
231/52 231/54 231/56 233/00 233/02 233/04 233/06 233/10 233/10 233/12 233/14 233/16	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring nitrogen atoms Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms 	233/58 233/60 233/61 233/62 233/64 233/66 233/68 233/70 233/72	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms Halogen atoms One oxygen atoms Two oxygen atoms, e.g. hydantoin with only hydrogen atoms or radicals containing only hydrogen and carbon atoms,
231/52 231/54 231/56 233/00 233/02 233/04 233/06 233/08 233/10 233/12 233/14	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems . Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring nitrogen atoms Radicals substituted by oxygen atoms Radicals substituted by carbon atoms Radicals substituted by carbon atoms 	233/58 233/60 233/61 233/62 233/64 233/66 233/70 233/72 233/74	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms Halogen atoms One oxygen atom Two oxygen atoms, e.g. hydantoin with only hydrogen and carbon atoms, attached to other ring members
231/52 231/54 231/56 233/00 233/02 233/04 233/06 233/10 233/10 233/12 233/14 233/16	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring nitrogen atoms Radicals substituted by oxygen atoms Radicals substituted by carbon atoms having three bonds to hetero atoms with at 	233/58 233/60 233/61 233/62 233/64 233/66 233/68 233/70 233/72	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms Halogen atoms One oxygen atoms Two oxygen atoms, e.g. hydantoin with only hydrogen and carbon atoms, attached to other ring members with substituted hydrocarbon radicals
231/52 231/54 231/56 233/00 233/02 233/04 233/06 233/10 233/10 233/12 233/14 233/16	 Oxygen atom in position 3 and nitrogen atom in position 5, or vice versa condensed with carbocyclic rings or ring systems . Benzopyrazoles; Hydrogenated benzopyrazoles Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed with other rings having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring carbon atoms with alkyl radicals, containing more than four carbon atoms, directly attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, directly attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring nitrogen atoms Radicals substituted by oxygen atoms Radicals substituted by carbon atoms Radicals substituted by carbon atoms 	233/58 233/60 233/61 233/62 233/64 233/66 233/70 233/72 233/74	 between ring members and non-ring members with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring carbon atoms with only hydrogen atoms or radicals containing only hydrogen and carbon atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by oxygen or sulfur atoms, attached to ring nitrogen atoms with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro radical, attached to ring nitrogen atoms with triarylmethyl radicals attached to ring nitrogen atoms with substituted hydrocarbon radicals attached to ring carbon atoms, e.g. histidine with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms Halogen atoms One oxygen atom Two oxygen atoms, e.g. hydantoin with only hydrogen and carbon atoms, attached to other ring members

233/80	with hetero atoms or acyl radicals directly	237/04	having less than three double bonds between ring
	attached to ring nitrogen atoms		members or between ring members and non-ring
233/82	Halogen atoms		members
233/84	Sulfur atoms	237/06	 having three double bonds between ring members
233/86	Oxygen and sulfur atoms, e.g. thiohydantoin		or between ring members and non-ring members
233/88	Nitrogen atoms, e.g. allantoin	237/08	• • • with only hydrogen atoms, hydrocarbon or
233/90	Carbon atoms having three bonds to hetero		substituted hydrocarbon radicals, directly
	atoms with at the most one bond to halogen,		attached to ring carbon atoms
	e.g. ester or nitrile radicals	237/10	with hetero atoms or with carbon atoms having
233/91	Nitro radicals		three bonds to hetero atoms with at the most
233/92	attached in position 4 or 5		one bond to halogen, e.g. ester or nitrile
233/93	with hydrocarbon radicals, substituted		radicals, directly attached to ring carbon atoms
233/73	by halogen atoms, attached to other ring	237/12	Halogen atoms or nitro radicals
	members	237/14	Oxygen atoms
233/94	• • • • with hydrocarbon radicals, substituted by	237/16	Two oxygen atoms
233/74	oxygen or sulfur atoms, attached to other	237/18	Sulfur atoms
	ring members	237/20	Nitrogen atoms (nitro radicals <u>C07D 237/12</u>)
233/95	• • • • with hydrocarbon radicals, substituted	237/22	Nitrogen and oxygen atoms
233/73	by nitrogen atoms, attached to other ring	237/24	Carbon atoms having three bonds to hetero
	members	231/24	atoms with at the most one bond to halogen
233/96	 having three double bonds between ring members or 	237/26	condensed with carbocyclic rings or ring systems
233/70	between ring members and non-ring members	237/28	Cinnolines
	between ring members and non ring members	237/20	Phthalazines
235/00	Heterocyclic compounds containing 1,3-diazole or	237/30	
	hydrogenated 1,3-diazole rings, condensed with	231/32	with oxygen atoms directly attached to carbon
	other rings	227/24	atoms of the nitrogen-containing ring
235/02	 condensed with carbocyclic rings or ring systems 	237/34	• • • with nitrogen atoms directly attached to carbon
235/04	Benzimidazoles; Hydrogenated benzimidazoles		atoms of the nitrogen-containing ring, e.g.
235/06	with only hydrogen atoms, hydrocarbon or	227/26	hydrazine radicals
	substituted hydrocarbon radicals, directly	237/36	Benzo-cinnolines
	attached in position 2	239/00	Heterocyclic compounds containing 1,3-diazine or
235/08	Radicals containing only hydrogen and		hydrogenated 1,3-diazine rings
	carbon atoms	239/02	 not condensed with other rings
		237/02	. Hot condensed with other rings
235/10	Radicals substituted by halogen atoms or		_
235/10		239/04	having no double bonds between ring members or
235/10 235/12	Radicals substituted by halogen atoms or	239/04	• • having no double bonds between ring members or between ring members and non-ring members
	Radicals substituted by halogen atoms or nitro radicals		 having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or
235/12	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms	239/04	 having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member
235/12	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by 	239/04 239/06	 having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or
235/12 235/14	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) 	239/04 239/06 239/08	 having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with hetero atoms directly attached in position
235/12 235/14	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having 	239/04 239/06 239/08 239/10	 having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms
235/12 235/14	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most 	239/04 239/06 239/08	 having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro
235/12 235/14	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile 	239/04 239/06 239/08 239/10 239/12	 having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical
235/12 235/14 235/16	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals 	239/04 239/06 239/08 239/10	 having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or
235/12 235/14 235/16 235/18	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals CO7D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together 	239/04 239/06 239/08 239/10 239/12	 having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached
235/12 235/14 235/16 235/18	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 	239/04 239/06 239/08 239/10 239/12 239/14	 having no double bonds between ring members or between ring members and non-ring members having one double bond between ring members or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms
235/12 235/14 235/16 235/18	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted 	239/04 239/06 239/08 239/10 239/12 239/14	 having no double bonds between ring members or between ring members and non-ring members. having one double bond between ring members or between a ring member and a non-ring member. with hetero atoms directly attached in position 2 Oxygen or sulfur atoms. Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms
235/12 235/14 235/16 235/18 235/20	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical 	239/04 239/06 239/08 239/10 239/12 239/14	 having no double bonds between ring members or between ring members and non-ring members. having one double bond between ring members or between a ring member and a non-ring member. with hetero atoms directly attached in position 2 Oxygen or sulfur atoms. Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen
235/12 235/14 235/16 235/18 235/20	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to 	239/04 239/06 239/08 239/10 239/12 239/14	 having no double bonds between ring members or between ring members and non-ring members. having one double bond between ring members or between a ring member and a non-ring member. with hetero atoms directly attached in position 2 Oxygen or sulfur atoms. Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine
235/12 235/14 235/16 235/18 235/20	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18	 having no double bonds between ring members or between ring members and non-ring members. having one double bond between ring members or between a ring member and a non-ring member. with hetero atoms directly attached in position 2 Oxygen or sulfur atoms. Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals
235/12 235/14 235/16 235/18 235/20 235/22	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) 	239/04 239/06 239/08 239/10 239/12 239/14	 having no double bonds between ring members or between ring members and non-ring members. having one double bond between ring members or between a ring member and a non-ring member. with hetero atoms directly attached in position 2 Oxygen or sulfur atoms. Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members
235/12 235/14 235/16 235/18 235/20 235/22	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members
235/12 235/14 235/16 235/18 235/20 235/22	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring
235/12 235/14 235/16 235/18 235/20 235/22	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals CO7D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (CO7D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring carbon atoms
235/12 235/14 235/16 235/18 235/20 235/22 235/24	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 2 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring carbon atoms having three or more double bonds between ring
235/12 235/14 235/16 235/18 235/20 235/22 235/24	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 2 Oxygen atoms 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring carbon atoms having three or more double bonds between ring members or between ring members and non-ring
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/24	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 2 Oxygen atoms Sulfur atoms 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring carbon atoms having three or more double bonds between ring members or between ring members and non-ring members
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/24	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 2 Oxygen atoms Sulfur atoms Nitrogen atoms not forming part of a nitro 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring carbon atoms having three or more double bonds between ring members or between ring members and non-ring members with only hydrogen atoms, hydrocarbon or
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/26 235/28 235/30	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 2 Oxygen atoms Sulfur atoms Nitrogen atoms not forming part of a nitro radical 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring carbon atoms having three or more double bonds between ring members with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/26 235/28 235/30	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 2 Oxygen atoms Sulfur atoms Nitrogen atoms not forming part of a nitro radical Benzimidazole-2-carbamic acids, 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24 239/26	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring carbon atoms having three or more double bonds between ring members with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/24 235/28 235/28 235/30 235/32	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 2 Oxygen atoms Sulfur atoms Nitrogen atoms not forming part of a nitro radical Benzimidazole-2-carbamic acids, unsubstituted or substituted; Esters thereof; Thio-analogues thereof 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring carbon atoms having three or more double bonds between ring members or between ring members and non-ring members with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms with hetero atoms or with carbon atoms having
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/26 235/28 235/30	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 2 Oxygen atoms Sulfur atoms Nitrogen atoms not forming part of a nitro radical Benzimidazole-2-carbamic acids, unsubstituted or substituted; Esters thereof; Thio-analogues thereof Heterocyclic compounds containing 1,2-diazine or 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24 239/26	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring carbon atoms having three or more double bonds between ring members or between ring members and non-ring members with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/26 235/28 235/30 235/32 237/00	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 2 Oxygen atoms Sulfur atoms Nitrogen atoms not forming part of a nitro radical Benzimidazole-2-carbamic acids, unsubstituted or substituted; Esters thereof; Thio-analogues thereof Heterocyclic compounds containing 1,2-diazine or hydrogenated 1,2-diazine rings 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24 239/26	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring carbon atoms having three or more double bonds between ring members with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, directly attached to ring
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/24 235/28 235/28 235/30 235/32	 Radicals substituted by halogen atoms or nitro radicals Radicals substituted by oxygen atoms Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10) Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals with aryl radicals directly attached in position 2 Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence) with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 2 Oxygen atoms Sulfur atoms Nitrogen atoms not forming part of a nitro radical Benzimidazole-2-carbamic acids, unsubstituted or substituted; Esters thereof; Thio-analogues thereof Heterocyclic compounds containing 1,2-diazine or 	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24 239/26	 having no double bonds between ring members or between ring members and non-ring members or between a ring member and a non-ring member or between a ring member and a non-ring member with hetero atoms directly attached in position 2 Oxygen or sulfur atoms Nitrogen atoms not forming part of a nitro radical with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms acylated on said nitrogen atoms with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals having two double bonds between ring members or between ring members and non-ring members with hetero atoms directly attached to ring carbon atoms having three or more double bonds between ring members or between ring members and non-ring members with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most

220/22	0 10 10	220/02	0.16
239/32	One oxygen, sulfur or nitrogen atom	239/93	Sulfur atoms
239/34	One oxygen atom	239/94	Nitrogen atoms
239/36	as doubly bound oxygen atom or as	239/95	with hetero atoms directly attached in positions
	unsubstituted hydroxy radical	220/04	2 and 4
239/38	One sulfur atom	239/96	Two oxygen atoms
239/40	as doubly bound sulfur atom or as unsubstituted mercapto radical	241/00	Heterocyclic compounds containing 1,4-diazine or hydrogenated 1,4-diazine rings
239/42	One nitrogen atom (nitro radicals		
	<u>C07D 239/30</u>)		<u>NOTE</u>
239/46	Two or more oxygen, sulphur or nitrogen		Piperazines with only hydrogen atoms directly
	atoms		attached to ring carbon atoms are classified in
239/47	One nitrogen atom and one oxygen or		group <u>C07D 295/00</u> .
	sulfur atom, e.g. cytosine	241/02	
239/48	Two nitrogen atoms	241/02	not condensed with other rings
239/49	with an aralkyl radical, or substituted	241/04	having no double bonds between ring members or
	aralkyl radical, attached in position 5,	24402	between ring members and non-ring members
	e.g. trimethoprim	241/06	having one or two double bonds between ring
239/50	Three nitrogen atoms		members or between ring members and non-ring
239/52	Two oxygen atoms	244/00	members
239/54	as doubly bound oxygen atoms or as	241/08	with oxygen atoms directly attached to ring
	unsubstituted hydroxy radicals	24440	carbon atoms
239/545	• • • • • with other hetero atoms or with	241/10	• having three double bonds between ring members
	carbon atoms having three bonds to		or between ring members and non-ring members
	hetero atoms with at the most one	241/12	• • • with only hydrogen atoms, hydrocarbon or
	bond to halogen, directly attached to		substituted hydrocarbon radicals, directly
	ring carbon atoms		attached to ring carbon atoms
239/553	with halogen atoms or nitro radicals	241/14	with hetero atoms or with carbon atoms having
	directly attached to ring carbon		three bonds to hetero atoms with at the most
	atoms, e.g. fluorouracil		one bond to halogen, e.g. ester or nitrile
239/557	with carbon atoms having three	241/16	radicals, directly attached to ring carbon atoms
	bonds to hetero atoms with at the	241/16	Halogen atoms; Nitro radicals
	most one bond to halogen, directly	241/18	Oxygen or sulfur atoms
	attached to ring carbon atoms, e.g.	241/20	Nitrogen atoms (nitro radicals <u>C07D 241/16</u>)
220/54	orotic acid	241/22	Benzenesulfonamido pyrazines
239/56	One oxygen atom and one sulfur atom	241/24	Carbon atoms having three bonds to hetero
239/58	Two sulfur atoms		atoms with at the most one bond to halogen,
239/60	Three or more oxygen or sulfur atoms		e.g. ester or nitrile radicals
239/62	Barbituric acids	241/26	with nitrogen atoms directly attached to
239/64	Salts of organic bases; Organic double		ring carbon atoms
	compounds	241/28	in which said hetero-bound carbon
239/66	Thiobarbituric acids		atoms have double bonds to oxygen,
239/68	Salts of organic bases; Organic double	244/20	sulfur or nitrogen atoms
	compounds	241/30	in which said hetero-bound carbon
239/69	Benzenesulfonamido-pyrimidines		atoms are part of a substructure —
239/70	 condensed with carbocyclic rings or ring systems 		C(=X)— X — $C(=X)$ — X — in which
239/72	 Quinazolines; Hydrogenated quinazolines 		X is an oxygen or sulphur atom or an
239/74	with only hydrogen atoms, hydrocarbon or	241/32	imino radical, e.g. imidoylguanidines (Amino-pyrazinoyl) guanidines
	substituted hydrocarbon radicals, attached to		
	ring carbon atoms of the hetero ring	241/34	(Amino-pyrazine carbonamido)
239/76	N-oxides	241/26	guanidines
239/78	with hetero atoms directly attached in position	241/36	condensed with carbocyclic rings or ring systems
	2	241/38	• with only hydrogen or carbon atoms directly
239/80	Oxygen atoms	241/40	attached to the ring nitrogen atoms
239/82	with an aryl radical attached in position 4	241/40	Benzopyrazines
239/84	Nitrogen atoms	241/42	with only hydrogen atoms, hydrocarbon or
239/86	• • • with hetero atoms directly attached in position		substituted hydrocarbon radicals, directly attached to carbon atoms of the hetero ring
	4	241/44	with hetero atoms or with carbon atoms
239/88	Oxygen atoms	∠ + 1/ + 4	having three bonds to hetero atoms with at
239/90	• • • • with acyclic radicals attached in position 2		the most one bond to halogen, e.g. ester or
	or 3		nitrile radicals, directly attached to carbon
239/91	with aryl or aralkyl radicals attached in		atoms of the hetero ring
	position 2 or 3	241/46	Phenazines
239/92	with hetero atoms directly attached to		
	nitrogen atoms of the hetero ring		

241/48	with hydrocarbon radicals, substituted by	249/06	with aryl radicals directly attached to ring
2.17.10	nitrogen atoms, directly attached to the ring	2.5700	atoms
	nitrogen atoms	249/08	1,2,4-Triazoles; Hydrogenated 1,2,4-triazoles
241/50	with hetero atoms directly attached to ring	249/10	• • with hetero atoms or with carbon atoms having
	nitrogen atoms		three bonds to hetero atoms with at the most
241/52	Oxygen atoms		one bond to halogen, e.g. ester or nitrile
241/54	Nitrogen atoms		radicals, directly attached to ring carbon atoms
242/00	77 / 1	249/12	Oxygen or sulfur atoms
243/00	Heterocyclic compounds containing seven-	249/14	Nitrogen atoms
	membered rings having two nitrogen atoms as the only ring hetero atoms	249/16	 condensed with carbocyclic rings or ring systems
243/02	 having the nitrogen atoms in positions 1 and 2 	249/18	Benzotriazoles
243/02	 having the introgen atoms in positions 1 and 2 having the nitrogen atoms in positions 1 and 3 	249/20	• • • with aryl radicals directly attached in position 2
243/04	 having the nitrogen atoms in positions 1 and 3 having the nitrogen atoms in positions 1 and 4 	249/22	Naphthotriazoles
243/08	 naving the introgen atoms in positions 1 and 4 not condensed with other rings 	249/24	with stilbene radicals directly attached in
243/08	. not condensed with other rings . condensed with carbocyclic rings or ring systems		position 2
		251/00	Heteneovelie compounds containing 1.2.5 twiczine
243/12	• • 1,5-Benzodiazepines; Hydrogenated 1,5-benzodiazepines	251/00	Heterocyclic compounds containing 1,3,5-triazine rings
243/14	• • • 1,4-Benzodiazepines; Hydrogenated 1,4-	251/02	 not condensed with other rings
243/14	benzodiazepines	251/02	 hot condensed with other rings having no double bonds between ring members or
243/16	• • • substituted in position 5 by aryl radicals	231/04	between ring members and non-ring members
243/18	substituted in position 2 by nitrogen,	251/06	with hetero atoms directly attached to ring
243/10	oxygen or sulfur atoms	231/00	nitrogen atoms
243/20	Nitrogen atoms	251/08	having one double bond between ring members or
243/22	Sulfur atoms	231,00	between a ring member and a non-ring member
243/24	Oxygen atoms	251/10	having two double bonds between ring members
243/26	Preparation from compounds already	201,10	or between ring members and non-ring members
243/20	containing the benzodiazepine	251/12	• having three double bonds between ring members
	skeleton		or between ring members and non-ring members
243/28	Preparation including building-up	251/14	with hydrogen or carbon atoms directly
	the benzodiazepine skeleton from		attached to at least one ring carbon atom
	compounds containing no hetero rings	251/16	to only one ring carbon atom
243/30	Preparation including building-up	251/18	with nitrogen atoms directly attached
	the benzodiazepine skeleton from		to the two other ring carbon atoms, e.g.
	compounds already containing hetero		guanamines
	rings	251/20	• • • • with no nitrogen atoms directly attached to
243/32	containing a phthalimide or		a ring carbon atom
	hydrogenated phthalimide ring	251/22	to two ring carbon atoms
	system	251/24	to three ring carbon atoms
243/34	containing a quinazoline or	251/26	with only hetero atoms directly attached to ring
	hydrogenated quinazoline ring		carbon atoms
243/36	system containing an indole or	251/28	Only halogen atoms, e.g. cyanuric chloride
243/30	containing an indole or hydrogenated indole ring system	251/30	Only oxygen atoms
243/38	[b, e]- or [b, f]-condensed with six-membered	251/32	Cyanuric acid; Isocyanuric acid
243/38	rings	251/34	Cyanuric or isocyanuric esters
	111180	251/36	• • • having halogen atoms directly attached to
245/00	Heterocyclic compounds containing rings of more		ring nitrogen atoms
	than seven members having two nitrogen atoms as	251/38	Sulfur atoms
	the only ring hetero atoms	251/40	Nitrogen atoms
245/02	• not condensed with other rings	251/42	One nitrogen atom
245/04	 condensed with carbocyclic rings or ring systems 	251/44	• • • • with halogen atoms attached to the two
245/06	condensed with one six-membered ring	051/45	other ring carbon atoms
247/00	Heterocyclic compounds containing rings having	251/46	with oxygen or sulfur atoms attached to
	two nitrogen atoms as the only ring hetero	251/40	the two other ring carbon atoms
	atoms, according to more than one of groups	251/48	Two nitrogen atoms
	<u>C07D 229/00</u> - <u>C07D 245/00</u>	251/50	with a halogen atom attached to the third ring carbon atom
247/02	 having the nitrogen atoms in positions 1 and 3 	251/52	with an oxygen or sulfur atom attached
240/00	Hotorogyalia compounds containing fire	231/32	to the third ring carbon atom
249/00	Heterocyclic compounds containing five- membered rings having three nitrogen atoms as	251/54	Three nitrogen atoms
	the only ring hetero atoms	251/54	Preparation of melamine
249/02	• not condensed with other rings	251/58	from cyanamide, dicyanamide or
249/02	 not condensed with other rings 1,2,3-Triazoles; Hydrogenated 1,2,3-triazoles 	231/30	calcium cyanamide
2-77/UT	• • 1,2,5 111a20105, 11, drogenated 1,2,5-drazotes		Calcium Cyanamiac

251/60	• • • • • from urea or from carbon dioxide and ammonia	261/08	• • • with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly
251/62	Purification of melamine		attached to ring carbon atoms
251/64	Condensation products of melamine	261/10	with hetero atoms or with carbon atoms having
	with aldehydes; Derivatives thereof		three bonds to hetero atoms with at the most
	(polycondensation products <u>C08G</u>)		one bond to halogen, e.g. ester or nitrile
251/66	Derivatives of melamine in which a		radicals, directly attached to ring carbon atoms
	hetero atom is directly attached to a	261/12	Oxygen atoms
	nitrogen atom of melamine	261/14	Nitrogen atoms
251/68	Triazinylamino stilbenes	261/16	Benzene-sulfonamido isoxazoles
251/70	Other substituted melamines	261/18	Carbon atoms having three bonds to hetero
251/70	condensed with carbocyclic rings or ring systems		atoms, with at the most one bond to halogen
253/00	Heterocyclic compounds containing six-membered	261/20	 condensed with carbocyclic rings or ring systems
	rings having three nitrogen atoms as the only	263/00	Heterocyclic compounds containing 1,3-oxazole or
	ring hetero atoms, not provided for by group		hydrogenated 1,3-oxazole rings
	C07D 251/00	263/02	 not condensed with other rings
253/02	 not condensed with other rings 	263/04	• having no double bonds between ring members or
253/04	• • 1,2,3-Triazines	203701	between ring members and non-ring members
253/06	. 1,2,4-Triazines	263/06	• • • with hydrocarbon radicals, substituted by
253/065	 i. 1,2,4-111azines i. having three double bonds between ring 	203/00	oxygen atoms, attached to ring carbon atoms
253/005	members or between ring members and non-	263/08	having one double bond between ring members or
	ring members	203/08	between a ring member and a non-ring member
253/07	• • • with hetero atoms, or with carbon atoms	263/10	with only hydrogen atoms, hydrocarbon or
	having three bonds to hetero atoms with		substituted hydrocarbon radicals, directly
	at the most one bond to halogen, e.g. ester		attached to ring carbon atoms
	or nitrile radicals, directly attached to ring	263/12	with radicals containing only hydrogen and
	carbon atoms		carbon atoms
253/075	Two hetero atoms, in positions 3 and 5	263/14	with radicals substituted by oxygen atoms
253/08	condensed with carbocyclic rings or ring systems	263/16	with hetero atoms or with carbon atoms having
253/10	• Condensed 1,2,4-triazines; Hydrogenated	203/10	three bonds to hetero atoms with at the most
200,10	condensed 1,2,4-triazines		one bond to halogen, e.g. ester or nitrile
			radicals, directly attached to ring carbon atoms
255/00	Heterocyclic compounds containing rings	263/18	Oxygen atoms
	having three nitrogen atoms as the only ring	263/20	attached in position 2
	hetero atoms, not provided for by groups	263/22	with only hydrogen atoms or radicals
	<u>C07D 249/00</u> - <u>C07D 253/00</u>	203/22	containing only hydrogen and carbon
255/02	 not condensed with other rings 		atoms, directly attached to other ring
255/04	condensed with carbocyclic rings or ring systems		carbon atoms
257/00	Heterocyclic compounds containing rings having	263/24	with hydrocarbon radicals, substituted
	four nitrogen atoms as the only ring hetero atoms		by oxygen atoms, attached to other ring
257/02	 not condensed with other rings 		carbon atoms
257/04	Five-membered rings	263/26	• • • • • with hetero atoms or acyl radicals
257/06	with nitrogen atoms directly attached to the		directly attached to the ring nitrogen
	ring carbon atom		atom
257/08	Six-membered rings	263/28	Nitrogen atoms not forming part of a nitro
257/10	condensed with carbocyclic rings or ring systems		radical
257/12	Six-membered rings having four nitrogen atoms	263/30	having two or three double bonds between ring
			members or between ring members and non-ring
259/00	Heterocyclic compounds containing rings having		members
	more than four nitrogen atoms as the only ring	263/32	• • with only hydrogen atoms, hydrocarbon or
	hetero atoms		substituted hydrocarbon radicals, directly
TT.4 **			attached to ring carbon atoms
	compounds having nitrogen and oxygen as the only	263/34	• • • with hetero atoms or with carbon atoms having
ring hetero a	ntoms .		three bonds to hetero atoms with at the most
261/00	Heterocyclic compounds containing 1,2-oxazole or		one bond to halogen, e.g. ester or nitrile
	hydrogenated 1,2-oxazole rings		radicals, directly attached to ring carbon atoms
261/02	• not condensed with other rings	263/36	One oxygen atom
261/02	 having one double bond between ring members or 	263/38	attached in position 2
201/07	between a ring member and a non-ring member	263/40	attached in position 4
261/06	having two or more double bonds between ring	263/42	attached in position 5
201/00	members or between ring members and non-ring	263/44	Two oxygen atoms
	members	263/46	Sulfur atoms
	momoors		

263/48	Nitrogen atoms not forming part of a nitro	267/10	not condensed with other rings
262/50	radical	267/12	condensed with carbocyclic rings or ring
263/50	Benzene-sulfonamido oxazoles	267/14	systems
263/52 263/54	condensed with carbocyclic rings or ring systems Pangayaralas Hydroconstad bangayaralas	267/14	condensed with one six-membered ring condensed with two six-membered rings
	Benzoxazoles; Hydrogenated benzoxazoles	267/16	
263/56	with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly	267/18	[b, e]-condensed
	attached in position 2	267/20	[b, f]-condensed
263/57	Aryl or substituted aryl radicals	267/22	• Eight-membered rings
263/58	with hetero atoms or with carbon atoms having	269/00	Heterocyclic compounds containing rings having
203/30	three bonds to hetero atoms with at the most		one nitrogen atom and one oxygen atom as the
	one bond to halogen, e.g. ester or nitrile		only ring hetero atoms according to more than one
	radicals, directly attached in position 2		of groups <u>C07D 261/00</u> - <u>C07D 267/00</u>
263/60	Naphthoxazoles; Hydrogenated naphthoxazoles	269/02	• having the hetero atoms in positions 1 and 3
263/62	having two or more ring systems containing	271/00	Heterocyclic compounds containing five-
	condensed 1,3-oxazole rings	271700	membered rings having two nitrogen atoms and
263/64	linked in positions 2 and 2' by chains		one oxygen atom as the only ring hetero atoms
	containing six-membered aromatic rings or ring	271/02	 not condensed with other rings
	systems containing such rings	271/04	• 1,2,3-Oxadiazoles; Hydrogenated 1,2,3-
265/00	Heterocyclic compounds containing six-membered		oxadiazoles
205/00	rings having one nitrogen atom and one oxygen	271/06	1,2,4-Oxadiazoles; Hydrogenated 1,2,4-
	atom as the only ring hetero atoms		oxadiazoles
		271/07	with oxygen, sulfur or nitrogen atoms, directly
	NOTE		attached to ring carbon atoms, the nitrogen
	Morpholines having only hydrogen atoms attached		atoms not forming part of a nitro radical
	to the ring carbon atoms are classified in group	271/08	• 1,2,5-Oxadiazoles; Hydrogenated 1,2,5-
	<u>C07D 295/00</u> .		oxadiazoles
265/02	• 1,2-Oxazines; Hydrogenated 1,2-oxazines	271/10	• 1,3,4-Oxadiazoles; Hydrogenated 1,3,4-
265/04	 1,3-Oxazines; Hydrogenated 1,3-oxazines 	2-1/10-	oxadiazoles
265/06	 not condensed with other rings 	271/107	• • • with two aryl or substituted aryl radicals
265/08	having one double bond between ring members	271/112	attached in positions 2 and 5
203/00	or between a ring member and a non-ring	271/113	 with oxygen, sulfur or nitrogen atoms, directly attached to ring carbon atoms, the nitrogen
	member		atoms not forming part of a nitro radical
265/10	with oxygen atoms directly attached to ring	271/12	condensed with carbocyclic rings or ring systems
	carbon atoms	271712	
265/12	condensed with carbocyclic rings or ring systems	273/00	Heterocyclic compounds containing rings
265/14	condensed with one six-membered ring		having nitrogen and oxygen atoms as the only
265/16	with only hydrogen or carbon atoms directly		ring hetero atoms, not provided for by groups
	attached in positions 2 and 4	272/01	C07D 261/00 - C07D 271/00
265/18	with hetero atoms directly attached in	273/01	having one nitrogen atom
	position 2	273/02	 having two nitrogen atoms and only one oxygen atom
265/20	with hetero atoms directly attached in	273/04	Six-membered rings
	position 4	273/04	Seven-membered rings Seven-membered rings
265/22	Oxygen atoms	273/08	 having two nitrogen atoms and more than one
265/24	with hetero atoms directly attached in	273/00	oxygen atom
265/26	positions 2 and 4		ong gon atom
265/26	Two oxygen atoms, e.g. isatoic anhydride	Heterocyclic	compounds having nitrogen and sulfur as the only
265/28	• 1,4-Oxazines; Hydrogenated 1,4-oxazines	ring hetero a	atoms
265/30	. not condensed with other rings	275/00	Hotomografic compounds containing 1.2 thiogale on
265/32	with oxygen atoms directly attached to ring carbon atoms	275/00	Heterocyclic compounds containing 1,2-thiazole or hydrogenated 1,2-thiazole rings
265/33	• • • Two oxygen atoms, in positions 3 and 5	275/02	• not condensed with other rings
	 Iwo oxygen atoms, in positions 3 and 3 condensed with carbocyclic rings 	275/02	 with hetero atoms or with carbon atoms having
265/34 265/36	condensed with carbocyche rings condensed with one six-membered ring	213103	three bonds to hetero atoms with at the most one
265/38	Condensed with one six-membered ring [b, e]-condensed with two six-membered rings		bond to halogen, e.g. ester or nitrile radicals,
203/38	• • • [0, c]-condensed with two six-membered imgs		directly attached to ring carbon atoms
267/00	Heterocyclic compounds containing rings of more	275/04	condensed with carbocyclic rings or ring systems
	than six members having one nitrogen atom and	275/06	• • with hetero atoms directly attached to the ring
	one oxygen atom as the only ring hetero atoms		sulfur atom
267/02	Seven-membered rings	277/00	Hotonografia compressed a containing 1.2 data = 1
267/04	• • having the hetero atoms in positions 1 and 2	277/00	Heterocyclic compounds containing 1,3-thiazole or
267/06	• • having the hetero atoms in positions 1 and 3	277/02	hydrogenated 1,3-thiazole rings
267/08	• • having the hetero atoms in positions 1 and 4	277/02	• not condensed with other rings

277/04	 having no double bonds between ring members or between ring members and non-ring members 	277/593	• • • Z being doubly bound oxygen or doubly bound nitrogen, which nitrogen is part of a
277/06	with carbon atoms having three bonds to hetero		possibly substituted oximino radical
	atoms with at the most one bond to halogen,	277/60	 condensed with carbocyclic rings or ring systems
	e.g. ester or nitrile radicals, directly attached to	277/62	Benzothiazoles
	ring carbon atoms	277/64	with only hydrocarbon or substituted
277/08	having one double bond between ring members or		hydrocarbon radicals attached in position 2
	between a ring member and a non-ring member	277/66	with aromatic rings or ring systems directly
277/10	with only hydrogen atoms, hydrocarbon or	277700	attached in position 2
	substituted hydrocarbon radicals, directly	277/68	with hetero atoms or with carbon atoms having
	attached to ring carbon atoms	277766	three bonds to hetero atoms with at the most
277/12	with hetero atoms or with carbon atoms having		one bond to halogen, e.g. ester or nitrile
,,,,	three bonds to hetero atoms with at the most		radicals, directly attached in position 2
	one bond to halogen, e.g. ester or nitrile	277/70	Sulfur atoms
	radicals, directly attached to ring carbon atoms	277/72	2-Mercaptobenzothiazole
277/14	Oxygen atoms		
277/16	Sulfur atoms	277/74	Sulfur atoms substituted by carbon atoms
277/18	Nitrogen atoms	277/76	Sulfur atoms attached to a second hetero
277/20	having two or three double bonds between ring	2	atom
211/20		277/78	to a second sulphur atom
	members or between ring members and non-ring	277/80	to a nitrogen atom
277/22	members	277/82	Nitrogen atoms
277/22	• • • with only hydrogen atoms, hydrocarbon or	277/84	 Naphthothiazoles
	substituted hydrocarbon radicals, directly	270/00	TT-4
277/24	attached to ring carbon atoms	279/00	Heterocyclic compounds containing six-membered
277/24	Radicals substituted by oxygen atoms		rings having one nitrogen atom and one sulfur
277/26	Radicals substituted by sulfur atoms		atom as the only ring hetero atoms
277/28	Radicals substituted by nitrogen atoms		<u>NOTE</u>
277/30	Radicals substituted by carbon atoms having		Thiomorpholines having only hydrogen atoms
	three bonds to hetero atoms with at the most		attached to the ring carbon atoms are classified in
	one bond to halogen, e.g. ester or nitrile		group C07D 295/00.
	radicals		group <u>CO7D 293/00</u> .
277/32	• • with hetero atoms or with carbon atoms having	279/02	• 1,2-Thiazines; Hydrogenated 1,2-thiazines
	three bonds to hetero atoms with at the most	279/04	• 1,3-Thiazines; Hydrogenated 1,3-thiazines
	one bond to halogen, e.g. ester or nitrile	279/06	• not condensed with other rings
	radicals, directly attached to ring carbon atoms	279/08	condensed with carbocyclic rings or ring systems
277/34	Oxygen atoms	279/10	1,4-Thiazines; Hydrogenated 1,4-thiazines
277/36	Sulfur atoms	279/10	 not condensed with other rings
277/38	Nitrogen atoms	279/12	-
277/40	Unsubstituted amino or imino radicals		condensed with carbocyclic rings or ring systems
277/42	Amino or imino radicals substituted by	279/16	condensed with one six-membered ring
	hydrocarbon or substituted hydrocarbon	279/18	[b, e]-condensed with two six-membered rings
	radicals	279/20	with hydrogen atoms directly attached to the
277/44	Acylated amino or imino radicals		ring nitrogen atom
277/46	by carboxylic acids, or sulfur or nitrogen	279/22	with carbon atoms directly attached to the
2,,,,,,	analogues thereof		ring nitrogen atom
277/48	by radicals derived from carbonic acid,	279/24	• • • • with hydrocarbon radicals, substituted
277710	or sulfur or nitrogen analogues thereof,		by amino radicals, attached to the ring
	e.g. carbonylguanidines		nitrogen atom
277/50	Nitrogen atoms bound to hetero atoms	279/26	without other substituents attached to
277/52	to sulfur atoms, e.g. sulfonamides		the ring system
277/54		279/28	with other substituents attached to the
	Nitrogen and either oxygen or sulfur atoms		ring system
277/56	Carbon atoms having three bonds to hetero	279/30	with acyl radicals attached to the ring
277/50	atoms with at the most one bond to halogen		nitrogen atom
277/58	Nitro radicals	279/32	with hetero atoms directly attached to the
277/587	with aliphatic hydrocarbon radicals substituted		ring nitrogen atom
	by carbon atoms having three bonds to hetero	279/34	with hetero atoms directly attached to the
	atoms with at the most one bond to halogen,		ring sulfur atom
	e.g. ester or nitrile radicals, directly attached to	279/36	[b, e]-condensed, at least one with a further
	ring carbon atoms, said aliphatic radicals being		condensed benzene ring
	substituted in the alpha-position to the ring by	004/00	-
	a hetero atom, e.g. + HC-(CH₂) _m -C with m	281/00	Heterocyclic compounds containing rings of more
	`S´ " ` ` ` ' '''		than six members having one nitrogen atom and
	>= 0, Z being a singly or a doubly bound hetero	201/02	one sulfur atom as the only ring hetero atoms
	atom	281/02	Seven-membered rings

281/04	• having the hetero atoms in positions 1 and 4	285/34	1,3,5-Thiadiazines; Hydrogenated 1,3,5-
281/06	• • • not condensed with other rings		thiadiazines
281/08	condensed with carbocyclic rings or ring	285/36	Seven-membered rings
	systems	285/38	Eight-membered rings
281/10	condensed with one six-membered ring	201/00	TT-4
281/12	condensed with two six-membered rings	291/00	Heterocyclic compounds containing rings having
281/14	[b, e]-condensed		nitrogen, oxygen and sulfur atoms as the only ring
281/16	[b, f]-condensed		hetero atoms
281/18	Eight-membered rings	291/02	 not condensed with other rings
201/10	• Light-memocred rings	291/04	Five-membered rings
283/00	Heterocyclic compounds containing rings having	291/06	Six-membered rings
	one nitrogen atom and one sulfur atom as the only	291/08	 condensed with carbocyclic rings or ring systems
	ring hetero atoms, according to more than one of	202/00	Hotomorphic common de contribir e vives hering
	groups <u>C07D 275/00</u> - <u>C07D 281/00</u>	293/00	Heterocyclic compounds containing rings having nitrogen and selenium or nitrogen and tellurium,
283/02	 having the hetero atoms in positions 1 and 3 		with or without oxygen or sulfur atoms, as the ring
205/00	***		hetero atoms
285/00	Heterocyclic compounds containing rings	293/02	
	having nitrogen and sulfur atoms as the only		. not condensed with other rings
	ring hetero atoms, not provided for by groups	293/04	Five-membered rings
207/01	<u>C07D 275/00</u> - <u>C07D 283/00</u>	293/06	Selenazoles; Hydrogenated selenazoles
285/01	• Five-membered rings	293/08	Six-membered rings
285/02	 Thiadiazoles; Hydrogenated thiadiazoles 	293/10	 condensed with carbocyclic rings or ring systems
285/04	 not condensed with other rings 	293/12	Selenazoles; Hydrogenated selenazoles
285/06	1,2,3-Thiadiazoles; Hydrogenated 1,2,3-	205/00	
	thiadiazoles	295/00	Heterocyclic compounds containing
285/08	1,2,4-Thiadiazoles; Hydrogenated 1,2,4-		polymethylene-imine rings with at least five ring
	thiadiazoles		members, 3-azabicyclo [3.2.2] nonane, piperazine,
285/10	1,2,5-Thiadiazoles; Hydrogenated 1,2,5-		morpholine or thiomorpholine rings, having only
	thiadiazoles		hydrogen atoms directly attached to the ring
285/12	1,3,4-Thiadiazoles; Hydrogenated 1,3,4-	205/02	carbon atoms
	thiadiazoles	295/02	containing only hydrogen and carbon atoms in
285/125	with oxygen, sulfur or nitrogen atoms,		addition to the ring hetero elements
200,120	directly attached to ring carbon atoms, the	295/023	Preparation; Separation; Stabilisation; Use of
	nitrogen atoms not forming part of a nitro		additives
	radical	295/027	containing only one hetero ring
285/13	Oxygen atoms	295/03	• • • with the ring nitrogen atoms directly attached
285/135	Nitrogen atoms		to acyclic carbon atoms
285/14	condensed with carbocyclic rings or ring	295/033	• • • with the ring nitrogen atoms directly attached
203/14	systems		to carbocyclic rings
285/15	Six-membered rings	295/037	 with quaternary ring nitrogen atoms
	e	295/04	 with substituted hydrocarbon radicals attached to
285/16	. Thiadiazines; Hydrogenated thiadiazines		ring nitrogen atoms
285/18	1,2,4-Thiadiazines; Hydrogenated 1,2,4-	295/06	substituted by halogen atoms or nitro radicals
207/20	thiadiazines	295/067	with the ring nitrogen atoms and the
285/20	condensed with carbocyclic rings or ring		substituents attached to the same carbon chain,
	systems		which is not interrupted by carbocyclic rings
285/22	condensed with one six-membered ring	295/073	with the ring nitrogen atoms and the
285/24	with oxygen atoms directly attached to		substituents separated by carbocyclic rings or
	the ring sulfur atom		by carbon chains interrupted by carbocyclic
285/26	• • • • • substituted in position 6 or 7 by		rings
	sulfamoyl or substituted sulfamoyl	295/08	substituted by singly bound oxygen or sulfur
	radicals	2,0,00	atoms
285/28	• • • • • • with only hydrogen atoms or	295/084	with the ring nitrogen atoms and the oxygen or
	radicals containing only hydrogen	2,0,00.	sulfur atoms attached to the same carbon chain,
	and carbon atoms, directly attached		which is not interrupted by carbocyclic rings
	in position 3	295/088	to an acyclic saturated chain
285/30	• • • • • • with hydrocarbon radicals,	295/092	with aromatic radicals attached to the chain
	substituted by hetero atoms,		
	attached in position 3	295/096	with the ring nitrogen atoms and the oxygen
285/32	with hetero atoms or with carbon		or sulfur atoms separated by carbocyclic rings or by carbon chains interrupted by carbocyclic
	atoms having three bonds to hetero		
	atoms with at the most one bond	295/10	rings
	to halogen, e.g. ester or nitrile	493/1U	substituted by doubly bound oxygen or sulphur atoms
	radicals, directly attached in		atoms
	position 3		

295/104	with the ring nitrogen atoms and the doubly	301/03	• by oxidation of unsaturated compounds, or of
	bound oxygen or sulfur atoms attached to the	201/04	mixtures of unsaturated and saturated compounds
	same carbon chain, which is not interrupted by carbocyclic rings	301/04	with air or molecular oxygen
295/108	to an acyclic saturated chain	301/06	in the liquid phase
		301/08	in the gaseous phase
295/112	 with the ring nitrogen atoms and the doubly bound oxygen or sulfur atoms separated 	301/10	with catalysts containing silver or gold
	by carbocyclic rings or by carbon chains	301/12	 with hydrogen peroxide or inorganic peroxides or peracids
	interrupted by carbocyclic rings	301/14	-
295/116	with the doubly bound oxygen or sulfur	301/14	with organic peracids, or salts, anhydrides or esters thereof
	atoms directly attached to a carbocyclic ring	301/16	• • • formed in situ, e.g. from carboxylic acids and
295/12	substituted by singly or doubly bound nitrogen	301/10	hydrogen peroxide
	atoms (nitro radicals <u>C07D 295/06</u>)	301/18	from polybasic carboxylic acids
295/125	with the ring nitrogen atoms and the substituent	301/18	with organic hydroperoxides
	nitrogen atoms attached to the same carbon	301/12	 by oxidation of saturated compounds with air or
	chain, which is not interrupted by carbocyclic	301/22	molecular oxygen (of mixtures of unsaturated and
	rings		saturated compounds C07D 301/04)
295/13	• • • to an acyclic saturated chain	301/24	by splitting off HAL—Y from compounds
295/135	• • • with the ring nitrogen atoms and the substituent	301,21	containing the radical HAL—C—OY
	nitrogen atoms separated by carbocyclic rings	301/26	Y being hydrogen
	or by carbon chains interrupted by carbocyclic	301/27	Condensation of epihalohydrins or halohydrins
	rings	301,2.	with compounds containing active hydrogen atoms
295/14	substituted by carbon atoms having three bonds		(macromolecular compounds <u>C08</u>)
	to hetero atoms with at the most one bond to	301/28	by reaction with hydroxyl radicals
205/145	halogen, e.g. ester or nitrile radicals	301/30	by reaction with carboxyl radicals
295/145	with the ring nitrogen atoms and the carbon atoms with three bonds to hetero atoms	301/32	Separation; Purification
	attached to the same carbon chain, which is not	301/36	• Use of additives, e.g. for stabilisation
	interrupted by carbocyclic rings	202100	<u>-</u>
295/15	to an acyclic saturated chain	303/00	Compounds containing three-membered rings
295/155	with the ring nitrogen atoms and the carbon		having one oxygen atom as the only ring hetero
275/155	atoms with three bonds to hetero atoms	303/02	atom
	separated by carbocyclic rings or by carbon	303/02	 Compounds containing oxirane rings containing only hydrogen and carbon atoms in
	chains interrupted by carbocyclic rings	303/04	addition to the ring oxygen atoms
295/16	 acylated on ring nitrogen atoms 	303/06	in which the oxirane rings are condensed with
295/18	by radicals derived from carboxylic acids, or	303/00	a carbocyclic ring system having three or more
	sulfur or nitrogen analogues thereof		relevant rings
295/182	Radicals derived from carboxylic acids	303/08	• with hydrocarbon radicals, substituted by halogen
295/185	• • • from aliphatic carboxylic acids		atoms, nitro radicals or nitroso radicals
295/192	• • • from aromatic carboxylic acids	303/10	in which the oxirane rings are condensed with
295/194	Radicals derived from thio- or thiono		a carbocyclic ring system having three or more
	carboxylic acids		relevant rings
295/195	Radicals derived from nitrogen analogues of	303/12	• with hydrocarbon radicals, substituted by singly
	carboxylic acids		or doubly bound oxygen atoms
295/20	by radicals derived from carbonic acid, or sulfur	303/14	by free hydroxyl radicals
	or nitrogen analogues thereof	303/16	by esterified hydroxyl radicals
295/205	Radicals derived from carbonic acid	303/17	containing oxirane rings condensed with
295/21	Radicals derived from sulfur analogues of carbonic acid		carbocyclic ring systems having three or
205/215		202/10	more relevant rings
295/215	Radicals derived from nitrogen analogues of carbonic acid	303/18	by etherified hydroxyl radicals
295/22	with hetero atoms directly attached to ring nitrogen	303/20	Ethers with hydroxy compounds containing
293/22	atoms	202/22	no oxirane rings
295/24	Oxygen atoms	303/22	with monohydroxy compounds
295/26	Sulfur atoms	303/23	Oxiranylmethyl ethers of compounds
295/28	Nitrogen atoms		having one hydroxy group bound to a six-membered aromatic ring,
	_		the oxiranylmethyl radical not
295/30 295/32	 non-acylated acylated with carboxylic or carbonic acids, or 		being further substituted, i.e.
493/34	their nitrogen or sulfur analogues		
	then muogen of surful analogues		CH ₂ -CH-CH ₂ -O-Aryl
<u>Het</u> erocyclic	compounds having oxygen atoms, with or without		_
	enium, or tellurium atoms, as ring hetero atoms	303/24	with polyhydroxy compounds
201/00	Desponation of originary	303/26	having one or more free hydroxyl
301/00	Preparation of oxiranes		radicals
301/02	Synthesis of the oxirane ring		

303/27	• • • • having all hydroxyl radicals etherified with oxirane containing compounds	307/16	Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most
303/28	Ethers with hydroxy compounds containing oxirane rings		one bond to halogen, e.g. ester or nitrile radicals
303/30	Ethers of oxirane-containing polyhydroxy	307/18	• • • with hetero atoms or with carbon atoms having
303/30	compounds in which all hydroxyl radicals are etherified with oxirane-containing hydroxy compounds	301/10	three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms
303/31	in which the oxirane rings are condensed	307/20	Oxygen atoms
	with a carbocyclic ring system having three or more relevant rings	307/22	• • • Nitrogen atoms not forming part of a nitro radical
303/32	• • • by aldehydo- or ketonic radicals	307/24	• • • Carbon atoms having three bonds to hetero
303/34	 with hydrocarbon radicals, substituted by sulphur, selenium or tellurium atoms 	307/26	atoms with at the most one bond to halogen • having one double bond between ring members or
303/36	• with hydrocarbon radicals, substituted by nitrogen atoms (nitro, nitroso radicals CO7D 303/08)	307/28	between a ring member and a non-ring member • • with only hydrogen atoms, hydrocarbon or
303/38	• • with hydrocarbon radicals, substituted by carbon atoms having three bonds to hetero atoms with at		substituted hydrocarbon radicals, directly attached to ring carbon atoms
	the most one bond to halogen, e.g. ester or nitrile radicals	307/30	• • • with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most
303/40	by ester radicals		one bond to halogen, e.g. ester or nitrile
303/42	Acyclic compounds having a chain of seven		radicals, directly attached to ring carbon atoms
	or more carbon atoms, e.g. epoxidised fats	307/32	Oxygen atoms
303/44	Esterified with oxirane-containing hydroxy compounds	307/33	• • • • in position 2, the oxygen atom being in its keto or unsubstituted enol form
303/46	by amide or nitrile radicals	307/34	having two or three double bonds between ring
303/48	with hetero atoms or with carbon atoms having		members or between ring members and non-ring
	three bonds to hetero atoms with at the most one		members
	bond to halogen, directly attached to ring carbon	307/36	with only hydrogen atoms or radicals
	atoms, e.g. ester or nitrile radicals		containing only hydrogen and carbon atoms, directly attached to ring carbon atoms
305/00	Heterocyclic compounds containing four-	307/38	with substituted hydrocarbon radicals attached
	membered rings having one oxygen atom as the		to ring carbon atoms
	only ring hetero atoms	307/40	Radicals substituted by oxygen atoms
305/02	 not condensed with other rings 	307/42	Singly bound oxygen atoms
305/04	having no double bonds between ring members or	307/44	Furfuryl alcohol
	between ring members and non-ring members	307/45	Oxygen atoms acylated by a
305/06	• • • with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly	307743	cyclopropane containing carboxylic acyl radical, e.g. chrysanthemumates
	attached to the ring atoms	307/46	Doubly bound oxygen atoms, or two
305/08	• • • with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most		oxygen atoms singly bound to the same carbon atom
	one bond to halogen, e.g. ester or nitrile	307/48	Furfural
	radicals, directly attached to ring atoms	307/50	Preparation from natural products
305/10	• having one or more double bonds between ring	307/52	Radicals substituted by nitrogen atoms not
	members or between ring members and non-ring members		forming part of a nitro radical
305/12	Beta-lactones	307/54	three bonds to hetero atoms with at the most
305/14	. condensed with carbocyclic rings or ring systems		one bond to halogen, e.g. ester or nitrile radicals
307/00	Heterocyclic compounds containing five- membered rings having one oxygen atom as the	307/56	with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most
207/02	only ring hetero atom		one bond to halogen, e.g. ester or nitrile
307/02	• not condensed with other rings		radicals, directly attached to ring carbon atoms
307/04	. having no double bonds between ring members or	307/58	
207/03	between ring members and non-ring members		One oxygen atom, e.g. butenolide
307/06	with only hydrogen atoms or radicals	307/60	Two oxygen atoms, e.g. succinic anhydride
	containing only hydrogen and carbon atoms,	307/62	Three oxygen atoms, e.g. ascorbic acid
20=10=	directly attached to ring carbon atoms	307/64	Sulfur atoms
307/08	Preparation of tetrahydrofuran	307/66	Nitrogen atoms
307/10	• • • with substituted hydrocarbon radicals attached to ring carbon atoms	307/68	• • • Carbon atoms having three bonds to hetero atoms with at the most one bond to halogen
307/12	Radicals substituted by oxygen atoms	307/70	Nitro radicals
307/14	Radicals substituted by nitrogen atoms not	307/71	attached in position 5
	forming part of a nitro radical		

307/72	by nitrogen-containing radicals, attached in position 2	309/08	 with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals,
307/73	by amino or imino, or substituted		directly attached to ring carbon atoms
301113	amino or imino radicals	309/10	Oxygen atoms
307/74	• • • • • by hydrazino or hydrazono or such substituted radicals	309/12	• • • only hydrogen atoms and one oxygen atom directly attached to ring carbon atoms, e.g.
307/75	having carboxylic acyl radicals or		tetrahydropyranyl ethers
	their thio or nitrogen analogues directly attached to the hydrazino or	309/14	Nitrogen atoms not forming part of a nitro radical
307/76	hydrazono radical, e.g. hydrazides having carbonic acyl radicals or	309/16	 having one double bond between ring members or between a ring member and a non-ring member
	their thio or nitrogen analogues directly attached to the hydrazino	309/18	• containing only hydrogen and carbon atoms in addition to the ring hetero atom
207/77	or hydrazono radical, e.g. semicarbazides	309/20	 with hydrogen atoms and substituted hydrocarbon radicals directly attached to ring carbon atoms
307/77	• ortho- or peri-condensed with carbocyclic rings or	309/22	Radicals substituted by oxygen atoms
307/78	ring systems	309/24	Methylol radicals
307/79	. Benzo [b] furans; Hydrogenated benzo [b] furans with only hydrogen atoms, hydrocarbon or	309/26	Carboxaldehyde radicals
	substituted hydrocarbon radicals, directly attached to carbon atoms of the hetero ring	309/28	 with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals,
307/80	Radicals substituted by oxygen atoms		directly attached to ring carbon atoms
307/81	Radicals substituted by nitrogen atoms not	309/30	Oxygen atoms, e.g. delta-lactones
207/02	forming part of a nitro radical	309/32	 having two double bonds between ring members or
307/82	with hetero atoms or with carbon atoms having		between ring members and non-ring members
	three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to carbon atoms of	309/34	 having three or more double bonds between ring members or between ring members and non-ring members
	the hetero ring	309/36	with oxygen atoms directly attached to ring
307/83	Oxygen atoms		carbon atoms
307/84	Carbon atoms having three bonds to hetero atoms with at the most one bond to halogen	309/38	• • • one oxygen atom in position 2 or 4, e.g. pyrones
307/85	attached in position 2	309/40	• • • Oxygen atoms attached in positions 3 and 4,
307/86	• • • with an oxygen atom directly attached in position 7	311/00	e.g. maltol
307/87	Benzo [c] furans; Hydrogenated benzo [c] furans	311/00	Heterocyclic compounds containing six-membered rings having one oxygen atom as the only hetero
307/88	• • • with one oxygen atom directly attached in position 1 or 3	211/02	atom, condensed with other rings
307/885	3,3-Diphenylphthalides	311/02	 ortho- or peri-condensed with carbocyclic rings or ring systems
307/89	• • • with two oxygen atoms directly attached in positions 1 and 3	311/04	Benzo[b]pyrans, not hydrogenated in the carbocyclic ring
307/90	with an oxygen atom in position 1 and a	311/06	with oxygen or sulfur atoms directly attached in
307/91	nitrogen atom in position 3, or <u>vice versa</u> Dibenzofurans; Hydrogenated dibenzofurans 	311/08	position 2
307/92	Naphthofurans; Hydrogenated naphthofurans	311/08	not hydrogenated in the hetero ring unsubstituted
307/93	condensed with a ring other than six-membered		
307/935	• • Not further condensed cyclopenta [b] furans or hydrogenated cyclopenta [b] furans	311/12	substituted in position 3 and unsubstituted in position 7
307/937	with hydrocarbon or substituted hydrocarbon	311/14	substituted in position 6 and unsubstituted in position 7
	radicals directly attached in position 2, e.g.	211/16	-
	prostacyclins	311/16	substituted in position 7
307/94	 spiro-condensed with carbocyclic rings or ring 	311/18	• • • • substituted otherwise than in position 3 or
	systems, e.g. griseofulvins	311/20	hydrogenated in the hetero ring
309/00	Heterocyclic compounds containing six-membered	311/20	with oxygen or sulfur atoms directly attached in
207/00	rings having one oxygen atom as the only ring	511/22	position 4
	hetero atom, not condensed with other rings	311/24	with carbon atoms having three bonds to
309/02	 having no double bonds between ring members or between ring members and non-ring members 	J11/27	hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly
309/04	 with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached 	311/26	attached in position 2 with aromatic rings attached in position 2 or
300/06	to ring carbon atoms		3

309/06

. . . Radicals substituted by oxygen atoms

U			
311/28	• • • • with aromatic rings attached in position 2 only	311/96	 spiro-condensed with carbocyclic rings or ring systems
311/30	• • • • • not hydrogenated in the hetero ring, e.g. flavones	313/00	Heterocyclic compounds containing rings of more
311/32	2,3-Dihydro derivatives, e.g. flavanones		than six members having one oxygen atom as the
311/34	• • • • with aromatic rings attached in position 3		only ring hetero atom
	only	313/02	Seven-membered rings
311/36	not hydrogenated in the hetero ring, e.g.	313/04	• not condensed with other rings
	isoflavones	313/06	condensed with carbocyclic rings or ring systems
311/38	2,3-Dihydro derivatives, e.g.	313/08	condensed with one six-membered ring
	isoflavanones	313/10	condensed with two six-membered rings
311/40	Separation, e.g. from natural material;	313/12	[b,e]-condensed
	Purification	313/14	[b,f]-condensed
311/42	with oxygen or sulfur atoms in positions 2 and	313/16	Eight-membered rings
	4	313/18	not condensed with other rings
311/44	• • • with one hydrogen atom in position 3	313/20	condensed with carbocyclic rings or ring systems
311/46	• • • • unsubstituted in the carbocyclic ring	315/00	Heterocyclic compounds containing rings
311/48	with two such benzopyran radicals linked together by a carbon chain	010,00	having one oxygen atom as the only ring hetero atom according to more than one of groups
311/50	• • • • • with elements other than carbon and hydrogen in position 3		C07D 303/00 - C07D 313/00
311/52	Enol-esters or -ethers, or sulfur analogues thereof	317/00	Heterocyclic compounds containing five- membered rings having two oxygen atoms as the
311/54	substituted in the carbocyclic ring		only ring hetero atoms
311/56	without hydrogen atoms in position 3	317/02	 having the hetero atoms in positions 1 and 2
311/58	other than with oxygen or sulphur atoms in	317/04	 not condensed with other rings
	position 2 or 4	317/06	 condensed with carbocyclic rings or ring systems
311/60	with aryl radicals attached in position 2	317/08	 having the hetero atoms in positions 1 and 3
311/62	with oxygen atoms directly attached in	317/10	 not condensed with other rings
	position 3, e.g. anthocyanidins	317/12	• • • with only hydrogen atoms or radicals
311/64	• • • with oxygen atoms directly attached in position 8		containing only hydrogen and carbon atoms, directly attached to ring carbon atoms
311/66	with carbon atoms having three bonds to	317/14	• • • with substituted hydrocarbon radicals attached
	hetero atoms with at the most one bond to		to ring carbon atoms
	halogen, e.g. ester or nitrile radicals, directly attached in position 2	317/16	 Radicals substituted by halogen atoms or nitro radicals
311/68	• • • with nitrogen atoms directly attached in position 4	317/18	• • • Radicals substituted by singly bound oxygen or sulfur atoms
311/70	with two hydrocarbon radicals attached in	317/20	Free hydroxyl or mercaptan
	position 2 and elements other than carbon	317/22	etherified
	and hydrogen in position 6	317/24	esterified
311/72	3,4-Dihydro derivatives having in	317/26	Radicals substituted by doubly bound oxygen
	position 2 at least one methyl radical		or sulfur atoms or by two such atoms singly
	and in position 6 one oxygen atom, e.g.		bound to the same carbon atom
	tocopherols	317/28	• • • Radicals substituted by nitrogen atoms (nitro
311/74	• Benzo[b]pyrans, hydrogenated in the carbocyclic		radicals <u>C07D 317/16</u>)
	ring	317/30	Radicals substituted by carbon atoms having
311/76	Benzo[c]pyrans		three bonds to hetero atoms with at the most
311/78	Ring systems having three or more relevant rings		one bond to halogen, e.g. ester or nitrile
311/80	Dibenzopyrans; Hydrogenated dibenzopyrans	217/22	radicals
311/82	Xanthenes	317/32	with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most
311/84	• • • • with hetero atoms or with carbon atoms having three bonds to hetero atoms with		one bond to halogen, e.g. ester or nitrile
	at the most one bond to halogen, e.g. ester	217/24	radicals, directly attached to ring carbon atoms
	or nitrile radicals, directly attached in	317/34	Oxygen atoms
311/86	position 9 Oxygen atoms, e.g. xanthones	317/36	Alkylene carbonates; Substituted alkylene carbonates
311/88	Nitrogen atoms	317/38	Ethylene carbonate
311/90	• • • • with hydrocarbon radicals, substituted by amino radicals, directly attached in	317/40	• • • • Vinylene carbonate; Substituted vinylene carbonates
	position 9	317/42	Halogen atoms or nitro radicals
311/92	Naphthopyrans; Hydrogenated naphthopyrans	317/44	• ortho- or peri-condensed with carbocyclic rings or
311/94	condensed with rings other than six-membered or		ring systems
	with ring systems containing such rings	317/46	condensed with one six-membered ring

317/48	Methylenedioxybenzenes or hydrogenated	323/06	Trioxane
	methylenedioxybenzenes, unsubstituted on the hetero ring	325/00	Heterocyclic compounds containing rings
317/50	• • • • with only hydrogen atoms, hydrocarbon or		having oxygen as the only ring hetero atom
317/30	substituted hydrocarbon radicals, directly		according to more than one of groups
	attached to atoms of the carbocyclic ring		<u>C07D 303/00</u> - <u>C07D 323/00</u>
317/52	Radicals substituted by halogen atoms	327/00	Heterocyclic compounds containing rings having
	or nitro radicals		oxygen and sulfur atoms as the only ring hetero
317/54	Radicals substituted by oxygen atoms		atoms
317/56	Radicals substituted by sulfur atoms	327/02	 one oxygen atom and one sulfur atom
317/58	Radicals substituted by nitrogen atoms	327/04	• • Five-membered rings
	(nitro radicals <u>C07D 317/52</u>)	327/06	Six-membered rings
317/60	Radicals substituted by carbon atoms	327/08	[b,e]-condensed with two six-membered
	having three bonds to hetero atoms with	227/10	carbocyclic rings
	at the most one bond to halogen, e.g. ester or nitrile radicals	327/10	• two oxygen atoms and one sulfur atom, e.g. cyclic
317/62	with hetero atoms or with carbon atoms		sulfates
317/02	having three bonds to hetero atoms with at	329/00	Heterocyclic compounds containing rings having
	the most one bond to halogen, e.g. ester or		oxygen and selenium or oxygen and tellurium
	nitrile radicals, directly attached to atoms		atoms as the only ring hetero atoms
	of the carbocyclic ring	TT	1 1 1 10 1 1 1 1
317/64	Oxygen atoms		c compounds having sulfur, selenium or tellurium as g hetero atoms
317/66	Nitrogen atoms not forming part of a	the only rin	g netero atoms
	nitro radical	331/00	Heterocyclic compounds containing rings of less
317/68	Carbon atoms having three bonds to		than five members, having one sulfur atom as the
	hetero atoms with at the most one bond		only ring hetero atom
217/70	to halogen	331/02	• Three-membered rings
317/70	 condensed with ring systems containing two or more relevant rings 	331/04	• Four-membered rings
317/72	spiro-condensed with carbocyclic rings	333/00	Heterocyclic compounds containing five-
			membered rings having one sulfur atom as the
319/00	Heterocyclic compounds containing six-membered		only ring hetero atom
	rings having two oxygen atoms as the only ring	333/02	 not condensed with other rings
210/02	hetero atoms	333/04	not substituted on the ring sulphur atom
319/02	• 1,2-Dioxanes; Hydrogenated 1,2-dioxanes	333/06	with only hydrogen atoms, hydrocarbon or
319/04	• 1,3-Dioxanes; Hydrogenated 1,3-dioxanes		substituted hydrocarbon radicals, directly
319/06	• not condensed with other rings	222/00	attached to the ring carbon atoms
319/08	condensed with carbocyclic rings or ring systems	333/08	Hydrogen atoms or radicals containing only
319/10	• 1,4-Dioxanes; Hydrogenated 1,4-dioxanes	222/10	hydrogen and carbon atoms
319/12	not condensed with other rings	333/10	Thiophene
319/14	• condensed with carbocyclic rings or ring systems	333/12	Radicals substituted by halogen atoms or nitro or nitroso radicals
319/16	condensed with one six-membered ring	333/14	Radicals substituted by singly bound hetero
319/18	• • • Ethylenedioxybenzenes, not substituted on the hetero ring	333/14	atoms other than halogen
319/20	• • • with substituents attached to the hetero ring	333/16	by oxygen atoms
319/22	condensed with one naphthalene or	333/18	by sulfur atoms
317/22	hydrogenated naphthalene ring system	333/20	• • • • by nitrogen atoms (nitro, nitroso radicals
319/24	• • • [b,e]-condensed with two six-membered rings		C07D 333/12)
		333/22	Radicals substituted by doubly bound hetero
321/00	Heterocyclic compounds containing rings		atoms, or by two hetero atoms other than
	having two oxygen atoms as the only ring		halogen singly bound to the same carbon
	hetero atoms, not provided for by groups C07D 317/00 - C07D 319/00		atom
321/02	• Seven-membered rings	333/24	Radicals substituted by carbon atoms having
321/02	 not condensed with other rings 		three bonds to hetero atoms with at the most
321/04	1,3-Dioxepines; Hydrogenated 1,3-dioxepines		one bond to halogen, e.g. ester or nitrile
321/08	1,4-Dioxepines; Hydrogenated 1,4-dioxepines	222/26	radicals
321/08	 1,4-Dioxepines, Hydrogenated 1,4-dioxepines condensed with carbocyclic rings or ring systems 	333/26	• • • with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most
321/10	Eight-membered rings		one bond to halogen, e.g. ester or nitrile
J41/14	· Light-membered fligs		radicals, directly attached to ring carbon atoms
323/00	Heterocyclic compounds containing more than two	333/28	Halogen atoms
	oxygen atoms as the only ring hetero atoms	333/20	Hetero atoms other than halogen
323/02	• Five-membered rings	333/30	Oxygen atoms
323/04	Six-membered rings	333/34	Sulfur atoms
		333,37	Surrar month

222/26	NT.	227/04	
333/36	Nitrogen atoms	337/04	• not condensed with other rings
333/38	Carbon atoms having three bonds to hetero	337/06	condensed with carbocyclic rings or ring systems
	atoms with at the most one bond to halogen,	337/08	condensed with one six-membered ring
222/40	e.g. ester or nitrile radicals	337/10	condensed with two six-membered rings
333/40	Thiophene-2-carboxylic acid	337/12	[b,e]-condensed
333/42	with nitro or nitroso radicals directly attached to ring carbon atoms	337/14	\dots [b,f]-condensed
222/44	_	337/16	Eight-membered rings
333/44	attached in position 5	339/00	Heterocyclic compounds containing rings having
333/46	• substituted on the ring sulfur atom	227700	two sulfur atoms as the only ring hetero atoms
333/48	by oxygen atoms	339/02	• Five-membered rings
333/50	• condensed with carbocyclic rings or ring systems	339/04	• having the hetero atoms in positions 1 and 2, e.g.
333/52	Benzo[b]thiophenes; Hydrogenated benzo[b]thiophenes		lipoic acid
333/54	• • • with only hydrogen atoms, hydrocarbon or	339/06	having the hetero atoms in positions 1 and 3, e.g.
333/34	substituted hydrocarbon radicals, directly		cyclic dithiocarbonates
	attached to carbon atoms of the hetero ring	339/08	Six-membered rings
333/56	Radicals substituted by oxygen atoms	241/00	TT. A
333/58	Radicals substituted by nitrogen atoms	341/00	Heterocyclic compounds containing rings having three or more sulfur atoms as the only ring hetero
333/60	Radicals substituted by carbon atoms having		atoms
333700	three bonds to hetero atoms with at the most		atoms
	one bond to halogen, e.g. ester or nitrile	343/00	Heterocyclic compounds containing rings having
	radicals		sulfur and selenium or sulfur and tellurium atoms
333/62	with hetero atoms or with carbon atoms having		as the only ring hetero atoms
	three bonds to hetero atoms with at the most	345/00	Heterocyclic compounds containing rings having
	one bond to halogen, e.g. ester or nitrile	545/00	selenium or tellurium atoms as the only ring hetero
	radicals, directly attached to carbon atoms of		atoms
	the hetero ring		
333/64	Oxygen atoms	347/00	Heterocyclic compounds containing rings having
333/66	Nitrogen atoms not forming part of a nitro		halogen atoms as ring hetero atoms
	radical	Heterocyclic	c compounds containing two or more hetero rings
333/68	Carbon atoms having three bonds to hetero	-	c compounds condiming two or more necesorings
	atoms with at the most one bond to halogen	NOTE	
333/70	attached in position 2		07D 401/00 - C07D 421/00 cover compounds containing
333/70 333/72	Benzo[c]thiophenes; Hydrogenated	two or mo	ore relevant hetero rings at least two of which are covered
333/72	Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes	two or mo	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00,
333/72 333/74	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes 	two or mo by differe neither co	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a
333/72 333/74 333/76	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes 	two or mo by differe neither co	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00,
333/72 333/74	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or 	two or mo by differe neither co common	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system.
333/72 333/74 333/76 333/78	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings 	two or mo by differe neither co	one relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more
333/72 333/74 333/76	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or 	two or mo by differe neither co common	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system.
333/72 333/74 333/76 333/78	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Heterocyclic compounds containing six-membered 	two or mo by differe neither co common	one relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only
333/74 333/76 333/78 333/80	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring 	two or mo by differe neither co common	one relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a six-
333/72 333/74 333/76 333/78 333/80 335/00	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom 	two or me by different neither cocommon 401/00	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom
333/72 333/74 333/76 333/78 333/80 335/00	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings 	two or moby difference there common 401/00	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom. containing two hetero rings
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/02	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems 	two or moby difference there common 401/00	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans 	two or moby difference neither common 401/00 401/02 401/04	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/02	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Seven-membered rings Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated 	two or moby difference neither common 401/00 401/02 401/04	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Seven-membered rings Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans 	two or moby difference the recommon 401/00 401/04 401/06 401/08	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Seven-membered rings Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated 	two or moby different neither common 401/00 401/02 401/04 401/06	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Seven-membered rings Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans 	two or moby difference neither common 401/00 401/00 401/04 401/06 401/08 401/10	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Seven-membered rings Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes 	two or moby difference the recommon 401/00 401/04 401/06 401/08	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes with hetero atoms or with carbon atoms 	two or moby difference neither common 401/00 401/00 401/04 401/06 401/08 401/10 401/12	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as chain links
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Seven-membered rings Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes with hetero atoms or with carbon atoms having three bonds to hetero atoms with at 	two or moby difference neither common 401/00 401/00 401/04 401/06 401/08 401/10	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Seven-membered rings Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or 	two or moby difference neither common 401/00 401/00 401/04 401/06 401/08 401/10 401/12	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as chain links
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12 335/14	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 9 	two or moby differencither common 401/00 401/00 401/04 401/06 401/08 401/10 401/12 401/14	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as chain links containing three or more hetero rings Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12 335/14	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 9 Oxygen atoms, e.g. thioxanthones 	two or moby differencither common 401/00 401/00 401/04 401/06 401/08 401/10 401/12 401/14	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as chain links containing three or more hetero rings Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, not provided for by group
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12 335/14	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 9 Oxygen atoms, e.g. thioxanthones Nitrogen atoms 	two or moby difference the recommon 401/00 401/00 401/04 401/06 401/08 401/10 401/12 401/14 403/00	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as chain links containing three or more hetero rings Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, not provided for by group C07D 401/00
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12 335/14	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 9 Oxygen atoms, e.g. thioxanthones 	two or moby differencither cocommon 401/00 401/00 401/02 401/04 401/06 401/08 401/10 401/12 401/14 403/00	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as chain links containing three or more hetero rings Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, not provided for by group C07D 401/00 containing two hetero rings
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12 335/14 335/16 335/18 335/20	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 9 Oxygen atoms, e.g. thioxanthones With hydrocarbon radicals, substituted by amino radicals, directly attached in position 9 	two or moby difference the recommon 401/00 401/00 401/04 401/06 401/08 401/10 401/12 401/14 403/00	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as chain links containing three or more hetero rings Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, not provided for by group C07D 401/00 containing two hetero rings directly linked by a ring-member-to-ring-member
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12 335/14	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 9 Oxygen atoms, e.g. thioxanthones With hydrocarbon radicals, substituted by amino radicals, directly attached in position 9 with hydrocarbon radicals, substituted by amino radicals, directly attached in position 9 	two or moby differencither common 401/00 401/00 401/04 401/06 401/08 401/10 401/12 401/14 403/00 403/02 403/04	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as chain links containing three or more hetero rings Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, not provided for by group C07D 401/00 containing two hetero rings directly linked by a ring-member-to-ring-member bond
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12 335/14 335/16 335/18 335/20	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 9 Oxygen atoms With hydrocarbon radicals, substituted by amino radicals, directly attached in position 9 with hydrocarbon radicals, substituted by amino radicals, directly attached in position 9 With sydrocarbon radicals, substituted by amino radicals, directly attached in position 9 	two or moby differencither cocommon 401/00 401/00 401/02 401/04 401/06 401/08 401/10 401/12 401/14 403/00	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as chain links containing three or more hetero rings Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, not provided for by group C07D 401/00 containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12 335/14 335/16 335/18 335/20	 Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes Naphthothiophenes Dibenzothiophenes condensed with rings other than six-membered or with ring systems containing such rings Seven-membered rings Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom not condensed with other rings condensed with carbocyclic rings or ring systems Benzothiopyrans; Hydrogenated benzothiopyrans Naphthothiopyrans; Hydrogenated naphthothiopyrans Dibenzothiopyrans; Hydrogenated dibenzothiopyrans Thioxanthenes with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position 9 Oxygen atoms, e.g. thioxanthones With hydrocarbon radicals, substituted by amino radicals, directly attached in position 9 with hydrocarbon radicals, substituted by amino radicals, directly attached in position 9 	two or moby differencither common 401/00 401/00 401/04 401/06 401/08 401/10 401/12 401/14 403/00 403/02 403/04	ore relevant hetero rings at least two of which are covered ent main groups of groups C07D 203/00 - C07D 347/00, ondensed among themselves nor condensed with a carbocyclic ring or ring system. Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom containing two hetero rings directly linked by a ring-member-to-ring-member bond linked by a carbon chain containing only aliphatic carbon atoms linked by a carbon chain containing alicyclic rings linked by a carbon chain containing aromatic rings linked by a chain containing hetero atoms as chain links containing three or more hetero rings Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, not provided for by group C07D 401/00 containing two hetero rings directly linked by a ring-member-to-ring-member bond

403/08	 linked by a carbon chain containing alicyclic rings 	411/08	 linked by a carbon chain containing alicyclic rings
403/10	linked by a carbon chain containing aromatic rings	411/10	linked by a carbon chain containing aromatic rings
403/12	linked by a chain containing hetero atoms as	411/12	linked by a chain containing hetero atoms as
403/14	chain links containing three or more hetero rings	411/14	chain links containing three or more hetero rings
405/00	Heterocyclic compounds containing both one or more hetero rings having oxygen atoms as the only ring hetero atoms, and one or more rings having	413/00	Heterocyclic compounds containing two or more hetero rings, at least one ring having nitrogen and oxygen atoms as the only ring hetero atoms
	nitrogen as the only ring hetero atom	413/02	 containing two hetero rings
405/02	 containing two hetero rings 	413/04	directly linked by a ring-member-to-ring-member
405/04	• • directly linked by a ring-member-to-ring-member bond	413/06	bond Inked by a carbon chain containing only aliphatic
405/06	linked by a carbon chain containing only aliphatic carbon atoms	413/08	carbon atoms I linked by a carbon chain containing alicyclic
405/08	linked by a carbon chain containing alicyclic		rings
405/10	rings I linked by a carbon chain containing aromatic	413/10	 linked by a carbon chain containing aromatic rings
405/12	rings • linked by a chain containing hetero atoms as	413/12	 linked by a chain containing hetero atoms as chain links
405/14	chain links containing three or more hetero rings	413/14	containing three or more hetero rings
407/00	Heterocyclic compounds containing two or more	415/00	Heterocyclic compounds containing the thiamine skeleton
407/00	heterorychic compounds containing two or more hetero rings, at least one ring having oxygen atoms as the only ring hetero atoms, not provided for by group C07D 405/00	417/00	Heterocyclic compounds containing two or more hetero rings, at least one ring having nitrogen and
407/02	 containing two hetero rings 		sulfur atoms as the only ring hetero atoms, not
407/04	• directly linked by a ring-member-to-ring-member	417/02	provided for by group <u>C07D 415/00</u> containing two hetero rings
	bond	417/04	directly linked by a ring-member-to-ring-member
407/06	 linked by a carbon chain containing only aliphatic carbon atoms 	417/06	bondlinked by a carbon chain containing only aliphatic
407/08	linked by a carbon chain containing alicyclic rings		carbon atoms
407/10	 linked by a carbon chain containing aromatic rings 	417/08	 linked by a carbon chain containing alicyclic rings
407/12	linked by a chain containing hetero atoms as chain links	417/10	 linked by a carbon chain containing aromatic rings
407/14	. containing three or more hetero rings	417/12	 linked by a chain containing hetero atoms as chain links
409/00	Heterocyclic compounds containing two or more hetero rings, at least one ring having sulfur atoms	417/14	containing three or more hetero rings
400/02	as the only ring hetero atoms	419/00	Heterocyclic compounds containing two or more hetero rings, at least one ring having nitrogen,
409/02	 containing two hetero rings 		oxygen, and sulfur atoms as the only ring hetero
409/04	• directly linked by a ring-member-to-ring-member bond	410/02	atoms
409/06	linked by a carbon chain containing only aliphatic	419/02	containing two hetero rings
400/00	carbon atoms	419/04	directly linked by a ring-member-to-ring-member bond
409/08	 linked by a carbon chain containing alicyclic rings 	419/06	linked by a carbon chain containing only aliphatic carbon atoms
409/10	 linked by a carbon chain containing aromatic rings 	419/08	linked by a carbon chain containing alicyclic
409/12	linked by a chain containing hetero atoms as chain links	419/10	rings Iinked by a carbon chain containing aromatic
409/14	. containing three or more hetero rings	419/12	rings Inked by a chain containing hetero atoms as
411/00	Heterocyclic compounds containing two or more hetero rings, at least one ring having oxygen and	419/14	chain links containing three or more hetero rings
	sulfur atoms as the only ring hetero atoms		
411/02	• containing two hetero rings	421/00	Heterocyclic compounds containing two or more
411/04	directly linked by a ring-member-to-ring-member bond		hetero rings, at least one ring having selenium, tellurium, or halogen atoms as ring hetero atoms
411/06	linked by a carbon chain containing only aliphatic	421/02	containing two hetero rings
	carbon atoms		

421/04			
	• directly linked by a ring-member-to-ring-member bond	453/04	 having a quinolyl-4, a substituted quinolyl-4 or a alkylenedioxy-quinolyl-4 radical linked through
421/06	linked by a carbon chain containing only aliphatic carbon atoms		only one carbon atom, attached in position 2, e.g. quinine
421/08	 linked by a carbon chain containing alicyclic rings 	453/06	containing isoquinuclidine ring systems
421/10	Iinked by a carbon chain containing aromatic rings	455/00	Heterocyclic compounds containing quinolizine ring systems, e.g. emetine alkaloids, protoberberine; Alkylenedioxy derivatives of
421/12	 linked by a chain containing hetero atoms as chain links 	455/02	dibenzo [a, g] quinolizines, e.g. berberine containing not further condensed quinolizine ring
421/14	. containing three or more hetero rings		systems
Heterocyclic systems	compounds containing condensed hetero ring	455/03	 containing quinolizine ring systems directly condensed with at least one six-membered carbocyclic ring, e.g. protoberberine; Alkylenedioxy
<u>NOTES</u>			derivatives of dibenzo [a, g] quinolizines, e.g.
	<u>07D 451/00</u> - <u>C07D 517/00</u> cover compounds containing	455/04	berberine
themselve	n of two or more relevant hetero rings condensed among s or condensed with a common carbocyclic ring system,	455/04	 containing a quinolizine ring system condensed with only one six-membered carbocyclic ring, e.g. julolidine
	thout other non-condensed hetero rings.	455/06	containing benzo [a] quinolizine ring systems
	rpose of classification in groups	455/08	having an isoquinolyl-1, a
	/00 - C07D 519/00, the degree of hydrogenation of the m is not taken into consideration.	433/00	substituted isoquinolyl-1 or an
	rpose of classification in groups		alkylenedioxyisoquinolyl-1 radical linked
	/00 - C07D 463/00, C07D 473/00 - C07D 477/00,		through only one carbon atom, attached in
	/00, C07D 499/00 - C07D 507/00, the wording of the		position 2, e.g. emetine
	s to be understood, in the absence of an indication to	457/00	Hotoroovalia compounds containing indolo [4
	ry, as including ring systems further condensed with	457/00	Heterocyclic compounds containing indolo [4, 3-f, g] quinoline ring systems, e.g. derivatives
	c rings or ring systems, but excluding ring systems		0 11 0 1 0 1
	ndensed with other hetero rings, either directly or		of ergoline, of the formula: , e.g.
	common carbocyclic ring system, e.g. sparteine is		
	in group <u>C07D 471/22</u> , not in group <u>C07D 455/02</u> .		15 16
~ .	C07D 471/00, C07D 487/00,		HN '" 2
	/00 - C07D 498/00 or C07D 513/00 - C07D 517/00, the n is based on the number of relevant hetero rings.		lysergic acid (compounds of the cyclic peptide type derived from ergotamane C07D 519/02)
451/00	Heterocyclic compounds containing 8-azabicyclo	457/02	 with hydrocarbon or substituted hydrocarbon radicals, attached in position 8
	[3.2.1] octane, 9-azabicyclo [3.3.1] nonane, or	457/04	• with carbon atoms having three bonds to hetero
	3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane or granatane alkaloids,		8
			atoms with at the most one bond to halogen, e.g.
			atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached in position
451/02	scopolamine; Cyclic acetals thereof		
451/02	scopolamine; Cyclic acetals thereof . containing not further condensed 8-azabicyclo	457/06	ester or nitrile radicals, directly attached in position
451/02	 scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] 	457/06 457/08	ester or nitrile radicals, directly attached in position 8
451/02	scopolamine; Cyclic acetals thereof . containing not further condensed 8-azabicyclo		ester or nitrile radicals, directly attached in position 8 • Lysergic acid amides
451/02 451/04	scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane; Cyclic acetals thereof	457/08 457/10	ester or nitrile radicals, directly attached in position 8 Lysergic acid amides in which the amide nitrogen is a member of a
	scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane; Cyclic acetals	457/08 457/10 457/12	ester or nitrile radicals, directly attached in position 8 • Lysergic acid amides • in which the amide nitrogen is a member of a heterocyclic ring • with hetero atoms directly attached in position 8 • Nitrogen atoms
	scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane; Cyclic acetals thereof with hetero atoms directly attached in position 3	457/08 457/10	ester or nitrile radicals, directly attached in position 8 • Lysergic acid amides • in which the amide nitrogen is a member of a heterocyclic ring • with hetero atoms directly attached in position 8 • Nitrogen atoms • containing indolo [4, 3-f, g] quinoline ring systems
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451/04 451/06	 scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane; Cyclic acetals thereof with hetero atoms directly attached in position 3 of the 8-azabicyclo [3.2.1] octane or in position 7 of the 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring system Oxygen atoms 	457/08 457/10 457/12 457/14 459/00	ester or nitrile radicals, directly attached in position 8 • Lysergic acid amides • in which the amide nitrogen is a member of a heterocyclic ring • with hetero atoms directly attached in position 8 • Nitrogen atoms • containing indolo [4, 3-f, g] quinoline ring systems condensed with carbocyclic rings or ring systems Heterocyclic compounds containing benz [g] indolo [2, 3-a] quinolizine ring systems, e.g. yohimbine; 16, 18-lactones thereof, e.g. reserpic acid lactone
451/04 451/06 451/08	 scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane; Cyclic acetals thereof with hetero atoms directly attached in position 3 of the 8-azabicyclo [3.2.1] octane or in position 7 of the 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring system Oxygen atoms Diarylmethoxy radicals acylated by aliphatic or araliphatic carboxylic acids, e.g. atropine, scopolamine acylated by aromatic or heteroaromatic 	457/08 457/10 457/12 457/14	ester or nitrile radicals, directly attached in position 8 • Lysergic acid amides • in which the amide nitrogen is a member of a heterocyclic ring • with hetero atoms directly attached in position 8 • Nitrogen atoms • containing indolo [4, 3-f, g] quinoline ring systems condensed with carbocyclic rings or ring systems Heterocyclic compounds containing benz [g] indolo [2, 3-a] quinolizine ring systems, e.g. yohimbine; 16, 18-lactones thereof, e.g. reserpic acid lactone Heterocyclic compounds containing indolo [3,2,1-
451/04 451/06 451/08 451/10 451/12	 scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane; Cyclic acetals thereof with hetero atoms directly attached in position 3 of the 8-azabicyclo [3.2.1] octane or in position 7 of the 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring system Oxygen atoms Diarylmethoxy radicals acylated by aliphatic or araliphatic carboxylic acids, e.g. atropine, scopolamine acylated by aromatic or heteroaromatic carboxylic acids, e.g. cocaine 	457/08 457/10 457/12 457/14 459/00	ester or nitrile radicals, directly attached in position 8 • Lysergic acid amides • in which the amide nitrogen is a member of a heterocyclic ring • with hetero atoms directly attached in position 8 • Nitrogen atoms • containing indolo [4, 3-f, g] quinoline ring systems condensed with carbocyclic rings or ring systems Heterocyclic compounds containing benz [g] indolo [2, 3-a] quinolizine ring systems, e.g. yohimbine; 16, 18-lactones thereof, e.g. reserpic acid lactone Heterocyclic compounds containing indolo [3,2,1-d,e] pyrido [3,2,1,j] [1,5]-naphthyridine ring
451/04 451/06 451/08 451/10	 scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane; Cyclic acetals thereof with hetero atoms directly attached in position 3 of the 8-azabicyclo [3.2.1] octane or in position 7 of the 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring system Oxygen atoms Diarylmethoxy radicals acylated by aliphatic or araliphatic carboxylic acids, e.g. atropine, scopolamine acylated by aromatic or heteroaromatic carboxylic acids, e.g. cocaine containing 9-azabicyclo [3.3.1] nonane ring systems, e.g. granatane, 2-aza-adamantane; Cyclic 	457/08 457/10 457/12 457/14 459/00	ester or nitrile radicals, directly attached in position 8 • Lysergic acid amides • in which the amide nitrogen is a member of a heterocyclic ring • with hetero atoms directly attached in position 8 • Nitrogen atoms • containing indolo [4, 3-f, g] quinoline ring systems condensed with carbocyclic rings or ring systems Heterocyclic compounds containing benz [g] indolo [2, 3-a] quinolizine ring systems, e.g. yohimbine; 16, 18-lactones thereof, e.g. reserpic acid lactone Heterocyclic compounds containing indolo [3,2,1-
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451/04 451/06 451/08 451/10 451/12	 scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane; Cyclic acetals thereof with hetero atoms directly attached in position 3 of the 8-azabicyclo [3.2.1] octane or in position 7 of the 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring system Oxygen atoms Diarylmethoxy radicals acylated by aliphatic or araliphatic carboxylic acids, e.g. atropine, scopolamine acylated by aromatic or heteroaromatic carboxylic acids, e.g. cocaine containing 9-azabicyclo [3.3.1] nonane ring systems, e.g. granatane, 2-aza-adamantane; Cyclic acetals thereof Heterocyclic compounds containing quinuclidine 	457/08 457/10 457/12 457/14 459/00	ester or nitrile radicals, directly attached in position 8 • Lysergic acid amides • in which the amide nitrogen is a member of a heterocyclic ring • with hetero atoms directly attached in position 8 • Nitrogen atoms • containing indolo [4, 3-f, g] quinoline ring systems condensed with carbocyclic rings or ring systems Heterocyclic compounds containing benz [g] indolo [2, 3-a] quinolizine ring systems, e.g. yohimbine; 16, 18-lactones thereof, e.g. reserpic acid lactone Heterocyclic compounds containing indolo [3,2,1-d,e] pyrido [3,2,1,j] [1,5]-naphthyridine ring systems, e.g. vincamine (dimeric indolo alkaloids
451/04 451/06 451/08 451/10 451/12 451/14	 scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane; Cyclic acetals thereof with hetero atoms directly attached in position 3 of the 8-azabicyclo [3.2.1] octane or in position 7 of the 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring system Oxygen atoms Diarylmethoxy radicals acylated by aliphatic or araliphatic carboxylic acids, e.g. atropine, scopolamine acylated by aromatic or heteroaromatic carboxylic acids, e.g. cocaine containing 9-azabicyclo [3.3.1] nonane ring systems, e.g. granatane, 2-aza-adamantane; Cyclic acetals thereof Heterocyclic compounds containing quinuclidine or iso-quinuclidine ring systems, e.g. quinine 	457/08 457/10 457/12 457/14 459/00	ester or nitrile radicals, directly attached in position 8 • Lysergic acid amides • in which the amide nitrogen is a member of a heterocyclic ring • with hetero atoms directly attached in position 8 • Nitrogen atoms • containing indolo [4, 3-f, g] quinoline ring systems condensed with carbocyclic rings or ring systems Heterocyclic compounds containing benz [g] indolo [2, 3-a] quinolizine ring systems, e.g. yohimbine; 16, 18-lactones thereof, e.g. reserpic acid lactone Heterocyclic compounds containing indolo [3,2,1-d,e] pyrido [3,2,1,j] [1,5]-naphthyridine ring systems, e.g. vincamine (dimeric indolo alkaloids
451/04 451/06 451/08 451/10 451/12 451/14 453/00	 scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane; Cyclic acetals thereof with hetero atoms directly attached in position 3 of the 8-azabicyclo [3.2.1] octane or in position 7 of the 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring system Oxygen atoms Diarylmethoxy radicals acylated by aliphatic or araliphatic carboxylic acids, e.g. atropine, scopolamine acylated by aromatic or heteroaromatic carboxylic acids, e.g. cocaine containing 9-azabicyclo [3.3.1] nonane ring systems, e.g. granatane, 2-aza-adamantane; Cyclic acetals thereof Heterocyclic compounds containing quinuclidine or iso-quinuclidine ring systems, e.g. quinine alkaloids 	457/08 457/10 457/12 457/14 459/00	ester or nitrile radicals, directly attached in position 8 • Lysergic acid amides • in which the amide nitrogen is a member of a heterocyclic ring • with hetero atoms directly attached in position 8 • Nitrogen atoms • containing indolo [4, 3-f, g] quinoline ring systems condensed with carbocyclic rings or ring systems Heterocyclic compounds containing benz [g] indolo [2, 3-a] quinolizine ring systems, e.g. yohimbine; 16, 18-lactones thereof, e.g. reserpic acid lactone Heterocyclic compounds containing indolo [3,2,1-d,e] pyrido [3,2,1,j] [1,5]-naphthyridine ring systems, e.g. vincamine (dimeric indolo alkaloids
451/04 451/06 451/08 451/10 451/12 451/14	 scopolamine; Cyclic acetals thereof containing not further condensed 8-azabicyclo [3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring systems, e.g. tropane; Cyclic acetals thereof with hetero atoms directly attached in position 3 of the 8-azabicyclo [3.2.1] octane or in position 7 of the 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring system Oxygen atoms Diarylmethoxy radicals acylated by aliphatic or araliphatic carboxylic acids, e.g. atropine, scopolamine acylated by aromatic or heteroaromatic carboxylic acids, e.g. cocaine containing 9-azabicyclo [3.3.1] nonane ring systems, e.g. granatane, 2-aza-adamantane; Cyclic acetals thereof Heterocyclic compounds containing quinuclidine or iso-quinuclidine ring systems, e.g. quinine 	457/08 457/10 457/12 457/14 459/00	ester or nitrile radicals, directly attached in position 8 • Lysergic acid amides • in which the amide nitrogen is a member of a heterocyclic ring • with hetero atoms directly attached in position 8 • Nitrogen atoms • containing indolo [4, 3-f, g] quinoline ring systems condensed with carbocyclic rings or ring systems Heterocyclic compounds containing benz [g] indolo [2, 3-a] quinolizine ring systems, e.g. yohimbine; 16, 18-lactones thereof, e.g. reserpic acid lactone Heterocyclic compounds containing indolo [3,2,1-d,e] pyrido [3,2,1,j] [1,5]-naphthyridine ring systems, e.g. vincamine (dimeric indolo alkaloids

463/00	Heterocyclic compounds containing 1-azabicyclo [4.2.0] octane ring systems, i.e. compounds	473/10	• • • with methyl radicals in positions 3 and 7, e.g. theobromine
	containing a ring system of the formula: , e.g. carbacephalosporins; Such	473/12	• • • with methyl radicals in positions 1, 3, and 7, e.g. caffeine
	$C_{7} = C_{6} = C_{7} = C_{6} = C_{7} = C_{7$	473/14	with two methyl radicals in positions 1 and 3
	$ \begin{array}{c c} & 1 & 3 \\ & 1 & 3 \\ & C & C \end{array} $	473/14	and two methyl radicals in positions 7, 8, or
	ring systems being further condensed, e.g. 2,3-	473/16	two nitrogen atoms
	condensed with an oxygen-, nitrogen- or sulfur-	473/18	one oxygen and one nitrogen atom, e.g. guanine
	containing hetero ring	473/20	two sulfur atoms
463/02	Preparation (by microbiological processes	473/22	one oxygen and one sulfur atom
	<u>C12P 17/18</u>)	473/24	• one nitrogen and one sulfur atom
463/04	by forming the ring or condensed ring systems	473/26	• with an oxygen, sulphur, or nitrogen atom directly
463/06	from compounds already containing the ring or		attached in position 2 or 6, but not in both
	condensed ring systems, e.g. by dehydrogenation	473/28	Oxygen atom
	of the ring, by introduction, elimination or	473/30	attached in position 6, e.g. hypoxanthine
462/00	modification of substituents	473/32	Nitrogen atom
463/08	Modification of a carboxyl group directly	473/34	• • attached in position 6, e.g. adenine
462/10	attached in position 2, e.g. esterification	473/36	Sulfur atom
463/10	with a carbon atom having three bonds to hetero	473/38	attached in position 6
	atoms with at the most one bond to halogen, e.g. an	473/40	with halogen atoms or perhalogeno-alkyl radicals
463/12	ester or nitrile radical, directly attached in position 2	473/40	directly attached in position 2 or 6
403/12	with hydrogen atoms, hydrocarbon or substituted		
462/14	hydrocarbon radicals attached in position 7	475/00	Heterocyclic compounds containing pteridine ring
463/14	• with hetero atoms directly attached in position 7		systems
463/16	Nitrogen atoms	475/02	 with an oxygen atom directly attached in position 4
463/18	further acylated by radicals derived from carboxylic acids or by nitrogen or sulfur	475/04	with a nitrogen atom directly attached in position 2
	analogues thereof	475/06	-
463/20	with the acylating radicals further	475/08	 with a nitrogen atom directly attached in position 4 with a nitrogen atom directly attached in position
	substituted by hetero atoms or by carbon	473/06	2
	atoms having three bonds to hetero atoms	475/10	-
	with at the most one bond to halogen	4/3/10	 with an aromatic or hetero-aromatic ring directly attached in position 2
463/22	further substituted by nitrogen atoms	475/12	· containing pteridine ring systems condensed with
471/00	Heterocyclic compounds containing		carbocyclic rings or ring systems
	nitrogen atoms as the only ring hetero	475/14	• Benz [g] pteridines, e.g. riboflavin
	atoms in the condensed system, at least one	477/00	Heterocyclic compounds containing 1-azabicyclo
	ring being a six-membered ring with one		[2.2.0] hantana wing greatened in commounds
	nitrogen atom, not provided for by groups C07D 451/00 - C07D 463/00		containing a ring system of the formula:
471/02			containing a ring systems, i.e. compounds containing a ring system of the formula: $ \begin{array}{cccccccccccccccccccccccccccccccccc$
471/02	• in which the condensed system contains two hetero		C-C5 4 3C
471/04	rings		$\frac{1}{7} \frac{7}{N} \frac{1}{1} \frac{2}{1}$
471/04	Ortho-condensed systems		Such ring systems being further condensed, e.g.
471/06	. Peri-condensed systems		2,3-condensed with an oxygen-, nitrogen- or
471/08	. Bridged systems		sulphur-containing hetero ring
471/10	Spiro-condensed systems	477/02	Preparation (by microbiological processes
471/12	in which the condensed system contains three hetero		C12P 17/18)
471/14	rings	477/04	. by forming the ring or condensed ring systems
471/14	Ortho-condensed systems	477/06	from compounds already containing the ring or
471/16	. Peri-condensed systems		condensed ring systems, e.g. by dehydrogenation
471/18	. Bridged systems		of the ring, by introduction, elimination or
471/20	Spiro-condensed systems		modification of substituents
471/22	 in which the condensed systems contains four or more hetero rings 	477/08	• • • Modification of a carboxyl group directly attached in position 2, e.g. esterification
473/00	Heterocyclic compounds containing purine ring	477/10	• with hydrogen atoms, hydrocarbon or substituted
	systems		hydrocarbon radicals, directly attached in position 4,
473/02	• with oxygen, sulphur, or nitrogen atoms directly		and with a carbon atom having three bonds to hetero
	attached in positions 2 and 6		atoms with at the most one bond to halogen, e.g. an
473/04	• • two oxygen atoms		ester or nitrile radical, directly attached in position 2
473/06	with radicals containing only hydrogen and	477/12	• with hydrogen atoms, hydrocarbon or substituted
	carbon atoms, attached in position 1 or 3		hydrocarbon radicals, attached in position 6
473/08	• • • with methyl radicals in positions 1 and 3, e.g.		
	theophylline		

477/14	with hydrogen atoms, hydrocarbon or	491/02	 in which the condensed system contains two hetero
	substituted hydrocarbon radicals, attached in		rings
	position 3	491/04	 Ortho-condensed systems
477/16	with hetero atoms or carbon atoms having three	491/044	with only one oxygen atom as ring hetero atom
	bonds to hetero atoms with at the most one		in the oxygen-containing ring
	bond to halogen, e.g. an ester or nitrile radical,	491/048	the oxygen-containing ring being five-
	directly attached in position 3		membered
477/18	Oxygen atoms	491/052	the oxygen-containing ring being six-
477/20	Sulfur atoms	471/032	membered
477/22	Nitrogen atoms	491/056	• • • with two or more oxygen atoms as ring hetero
477/24	with hetero atoms or carbon atoms having three	491/030	atoms in the oxygen-containing ring
4/1/24	bonds to hetero atoms with at the most one bond	101/06	
	to halogen, e.g. an ester or nitrile radical, directly	491/06	. Peri-condensed systems
	attached in position 6	491/08	Bridged systems
477/06		491/10	Spiro-condensed systems
477/26	 with hetero atoms or carbon atoms having three bonds to hetero atoms with at the most one bond 	491/107	with only one oxygen atom as ring hetero atom
			in the oxygen-containing ring
	to halogen, e.g. an ester or nitrile radical, directly	491/113	• • • with two or more oxygen atoms as ring hetero
	attached in position 4		atoms in the oxygen-containing ring
487/00	Heterocyclic compounds containing nitrogen	491/12	 in which the condensed system contains three hetero
	atoms as the only ring hetero atoms in the		rings
	condensed system, not provided for by groups	491/14	Ortho-condensed systems
	C07D 451/00 - C07D 477/00	491/147	the condensed system containing one ring with
487/02	• in which the condensed system contains two hetero		oxygen as ring hetero atom and two rings with
	rings		nitrogen as ring hetero atom
487/04	Ortho-condensed systems	491/153	• • • the condensed system containing two rings
487/06	Peri-condensed systems		with oxygen as ring hetero atom and one ring
487/08	Bridged systems		with nitrogen as ring hetero atom
487/10	Spiro-condensed systems	491/16	Peri-condensed systems
	- · · · · · · · · · · · · · · · · · · ·	491/18	Bridged systems
487/12	in which the condensed system contains three hetero	491/20	Spiro-condensed systems
487/14	rings Outhor condensed systems	491/22	• in which the condensed system contains four or
487/16	Ortho-condensed systemsPeri-condensed systems	.,,,,,,	more hetero rings
40//10	Terr-condensed systems		E
407/10	Duidaad ayatama		
487/18	. Bridged systems	493/00	Heterocyclic compounds containing oxygen atoms
487/20	Spiro-condensed systems	493/00	as the only ring hetero atoms in the condensed
	Spiro-condensed systemsin which the condensed system contains four or		as the only ring hetero atoms in the condensed system
487/20	Spiro-condensed systems	493/00 493/02	 as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero
487/20	 Spiro-condensed systems in which the condensed system contains four or more hetero rings 	493/02	 as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings
487/20 487/22	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c- 	493/02 493/04	 as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems
487/20 487/22	 Spiro-condensed systems in which the condensed system contains four or more hetero rings 	493/02 493/04 493/06	 as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems
487/20 487/22	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring 	493/02 493/04	 as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems
487/20 487/22	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan 	493/02 493/04 493/06	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems
487/20 487/22	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 	493/02 493/04 493/06 493/08	 as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems
487/20 487/22	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 	493/02 493/04 493/06 493/08 493/10	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems
487/20 487/22	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 	493/02 493/04 493/06 493/08 493/10	 as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero
487/20 487/22	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 	493/02 493/04 493/06 493/08 493/10 493/12	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings
487/20 487/22 489/00	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 	493/02 493/04 493/06 493/08 493/10 493/12	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems
487/20 487/22	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 H 19 H 10 H 10 H 11 H 12 H 13 H 14 H 15 H 16 H 17 H 18 H 19 H 10 H 10 H 11 H 12 H 13 H 14 H 15 H 16 H 17 H 18 H 19 H 10 H 10 H 10 H 11 H 12 H 13 H 14 H 15 H 16 H 17 H 18 H 19 H 10 H <	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems
487/20 487/22 489/00	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: NH 10 11 15 14 16 17 18 18 19 14 16 17 18 18 19 14 16 17 18 18 19 10 10 10 11 12 13 13 14 14 15 14 16 17 18 18 19 10 <li< td=""><td>493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18</td><td>as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems</td></li<>	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems
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487/20 487/22 489/00 489/02 489/04 489/06	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula:	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems Spiro-condensed systems Spiro-condensed systems in which the condensed systems in which the condensed systems
487/20 487/22 489/00 489/02 489/04 489/06 489/08	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula:	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems Spiro-condensed systems Spiro-condensed systems Meterocyclic compounds containing in the
487/20 487/22 489/00 489/02 489/04 489/06	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 NH 19 19 19 19 19 19 10 11 15 10 11 10 11 11 11 15 14 14 15 16 17 18 19 19 19 10 10 11 11 11 11 12 13 13 14 15 16 17 18 19 19 10 10 11 11 11 11 12 13 13 14 14 15 16 17 18 17 18 19 19 19 19 19 19 19 19 19	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems Bridged systems Spiro-condensed systems Heterocyclic compounds containing in the condensed system at least one hetero ring having
487/20 487/22 489/00 489/02 489/04 489/06 489/08	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 NH 19 19 19 19 19 10 11 10 11 11	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Bridged systems Spiro-condensed systems Heterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms
487/20 487/22 489/00 489/02 489/04 489/06 489/08 489/09	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 NH 9 H 12 13 13 14 15 17 NH 9 H 18 28 With oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone Salts; Organic complexes with a hetero atom directly attached in position 14 Oxygen atom containing 4aH-8, 9 c-Iminoethano- phenanthro [4, 5-b, c, d] furan ring systems condensed with carbocyclic rings or ring systems 	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Pridged systems Spiro-condensed systems Heterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms in which the condensed system contains two hetero
487/20 487/22 489/00 489/02 489/04 489/06 489/08 489/09	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: NH NH 10	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems Bridged systems Spiro-condensed systems Heterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms in which the condensed system contains two hetero rings
487/20 487/22 489/00 489/02 489/04 489/06 489/08 489/09	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 NH 9 H 12 13 13 14 15 17 NH 9 H 18 28 With oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone Salts; Organic complexes with a hetero atom directly attached in position 14 Oxygen atom containing 4aH-8, 9 c-Iminoethano- phenanthro [4, 5-b, c, d] furan ring systems condensed with carbocyclic rings or ring systems 	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems Bridged systems Spiro-condensed systems Heterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms in which the condensed system contains two hetero rings Ortho-condensed systems
487/20 487/22 489/00 489/02 489/04 489/06 489/08 489/09 489/10 489/12	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 NH 19 19 19 19 19 10 11 10 11 11	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00 495/02	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems Peri-condensed systems Spiro-condensed systems Bridged systems Spiro-condensed systems Heterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems
487/20 487/22 489/00 489/02 489/04 489/06 489/08 489/09	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 NH 19 19 19 19 10 11 10 11 10 11 11	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00 495/02 495/04 495/06 495/08	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems Spiro-condensed systems Spiro-condensed systems In which the condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms in which the condensed system contains two hetero rings Ortho-condensed systems Bridged systems
487/20 487/22 489/00 489/02 489/04 489/06 489/08 489/09 489/10 489/12	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 NH 19 19 19 10 11 11 15 14 15 16 17 NH 19 19 19 10 10 11 11 10 11 11	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00 495/02	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems Spiro-condensed systems Spiro-condensed systems in which the condensed systems in which the condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems
487/20 487/22 489/00 489/02 489/04 489/06 489/08 489/09 489/10 489/12	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 NH 19 19 19 10 11 10 11 11 15 14 15 16 17 NH 19 19 10 10 11 11 11 11 11 12 13 13 13 13	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00 495/02 495/04 495/06 495/08	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems Spiro-condensed systems Spiro-condensed systems In which the condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms in which the condensed system contains two hetero rings Ortho-condensed systems Bridged systems
487/20 487/22 489/00 489/02 489/04 489/06 489/08 489/09 489/10 489/12	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 NH 19 19 10 11 15 10 11 11 15 14 15 16 17 NH 16 17 NH 17 NH 19 19 10 10 11 11 11 12 13 13 13 14 15 16 17 NH 19 19 19 19 19 19 10 10 10 11 11	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00 495/02 495/04 495/06 495/08 495/10 495/12	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Bridged systems Spiro-condensed systems Ortho-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Peri-condensed systems Spiro-condensed systems Reterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms in which the condensed systems ortho-condensed systems Reterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms Reterocyclic compounds contains two hetero rings Reterocyclic compounds system contains two hetero rings Reterocyclic compounds system contains three hetero rings Reterocyclic compounds systems Reterocyclic compounds contains two hetero rings Reterocyclic compounds contains two hetero rings
487/20 487/22 489/00 489/02 489/04 489/06 489/08 489/09 489/10 489/12	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 NH 19 19 10 11 10 11 11 15 14 15 16 17 NH 19 19 10 10 11 11 10 11 11 11	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00 495/02 495/04 495/08 495/08 495/10	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems ortho-condensed systems ortho-condensed systems ortho-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems spiro-condensed systems pridged systems spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems Spiro-condensed systems Spiro-condensed systems ortho-condensed systems ortho-condensed systems ortho-condensed systems ortho-condensed systems
487/20 487/22 489/00 489/02 489/04 489/06 489/08 489/09 489/10 489/12	 Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring systems, e.g. derivatives of [4, 5-epoxy]-morphinan of the formula: 17 NH 19 19 10 11 15 10 11 11 15 14 15 16 17 NH 16 17 NH 17 NH 19 19 10 10 11 11 11 12 13 13 13 14 15 16 17 NH 19 19 19 19 19 19 10 10 10 11 11	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00 495/02 495/04 495/06 495/08 495/10 495/12	as the only ring hetero atoms in the condensed system in which the condensed system contains two hetero rings Ortho-condensed systems Bridged systems Spiro-condensed systems Ortho-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems Spiro-condensed systems Peri-condensed systems Spiro-condensed systems Reterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms in which the condensed systems ortho-condensed systems Reterocyclic compounds containing in the condensed system at least one hetero ring having sulfur atoms as the only ring hetero atoms Reterocyclic compounds contains two hetero rings Reterocyclic compounds system contains two hetero rings Reterocyclic compounds system contains three hetero rings Reterocyclic compounds systems Reterocyclic compounds contains two hetero rings Reterocyclic compounds contains two hetero rings

495/18	Bridged systems	499/14	Preparation of salts
495/20	Spiro-condensed systems	499/16	of alkali or alkaline earth metals
495/22	 in which the condensed system contains four or 	499/18	Separation; Purification
	more hetero rings	499/20	• • via salts with organic bases
497/00	Heterocyclic compounds containing in the	499/21	 with a nitrogen atom directly attached in position
7///00	condensed system at least one hetero ring having		6 and a carbon atom having three bonds to hetero
	oxygen and sulfur atoms as the only ring hetero		atoms with at the most one bond to halogen, e.g. an
	atoms		ester or nitrile radical, directly attached in position 2
497/02	• in which the condensed system contains two hetero	499/22	• • Salts with organic bases; Complexes with organic
.,,,,	rings		compounds
497/04	Ortho-condensed systems	499/24	with acyclic or carbocyclic compounds
497/06	Peri-condensed systems		containing amino radicals
497/08	Bridged systems	499/26	with heterocyclic compounds
497/10	Spiro-condensed systems	499/28	• with modified 2-carboxyl group
497/12	 in which the condensed system contains three hetero 	499/30	Acid anhydride
471/12	rings	499/32	Esters
497/14	Ortho-condensed systems	499/34	Thio-acid; Esters thereof
497/16	Peri-condensed systems	499/36	O-esters
497/18	Bridged systems	499/38	S-esters
497/20	Spiro-condensed systems	499/40	Amides; Hydrazides; Azides
497/22	 in which the condensed system contains four or 	499/42	Compounds with a free primary amino radical
491/22	more hetero rings		attached in position 6
	more neceso rings	499/44	Compounds with an amino radical acylated by
498/00	Heterocyclic compounds containing in the		carboxylic acids, attached in position 6
	condensed system at least one hetero ring having	499/46	• • • with acyclic hydrocarbon radicals or such
	nitrogen and oxygen atoms as the only ring hetero		radicals substituted by carbocyclic or
	atoms (4-oxa-1-azabicyclo [3.2.0] heptanes, e.g.		heterocyclic rings, attached to the carboxamido
	oxapenicillins <u>C07D 503/00</u> ; 5-oxa-1-azabicyclo		radical
	[4.2.0] octanes, e.g. oxacephalosporins <u>C07D 505/00;</u>	499/48	with a carbon chain, substituted by hetero
	analogues thereof having ring oxygen atoms in other		atoms or by carbon atoms having three bonds
400/03	position <u>C07D 507/00</u>)		to hetero atoms with at the most one bond to
498/02	• in which the condensed system contains two hetero		halogen, e.g. ester or nitrile radicals, attached to
400/04	rings	100/50	the carboxamido radical
498/04	• Ortho-condensed systems	499/50	substituted in beta-position to the
498/06	. Peri-condensed systems	400/52	carboxamido radical
498/08	Bridged systems	499/52	by oxygen or sulfur atoms
498/10	Spiro-condensed systems	499/54	by nitrogen atoms
498/12	• in which the condensed system contains three hetero	499/56	by carbon atoms having three bonds to
400/14	rings		hetero atoms with at the most one bond to halogen
498/14	Ortho-condensed systems	499/58	
498/16	Peri-condensed systems	499/30	substituted in alpha-position to the carboxamido radical
498/18	Bridged systems	499/60	by oxygen atoms
498/20	Spiro-condensed systems	499/62	by oxygen atoms
498/22	• in which the condensed system contains four or	499/62 499/64	by surfur atoms
	more hetero rings		• •
499/00	Heterocyclic compounds containing 4-thia-1-	499/66	with alicyclic rings as additional substituents on the carbon chain
	azabicyclo [3.2.0] heptane ring systems, i.e.	499/68	with aromatic rings as additional
	compounds containing a ring system of the	499/06	substituents on the carbon chain
	formula: $ \begin{array}{c c} C_6 & C_5 & 4 & 3 & C \\ \hline C_7 & N & 1 & 2 & C \end{array} $, e.g. penicillins, penems;	499/70	with hetero rings as additional
	Ç _e Çşã	499/10	substituents on the carbon chain
	$\begin{bmatrix} \frac{7}{7} & \frac{1}{N} & \frac{2}{1} \end{bmatrix}$	499/72	by carbon atoms having three bonds to
	Such ring systems being further condensed, e.g.	777/12	hetero atoms
	2,3-condensed with an oxygen-, nitrogen- or sulfur-	499/74	with carbocyclic rings directly attached to the
	containing hetero ring	7///7	carboxamido radical
499/04	Preparation	499/76	with hetero rings directly attached to the
499/04	 Preparation by forming the ring or condensed ring systems 	177/10	carboxamido radical
サンフ/ひひ	(by microbiological processes C12P 37/00)	499/78	Compounds with an amino radical, acylated by
499/08	Modification of a carboxyl radical directly	.,,,,,	carbonic acid, or by nitrogen or sulfur analogues
マンノハロロ	attached in position 2, e.g. esterification		thereof, attached in position 6
499/10	Modification of an amino radical directly attached	499/80	Compounds with a nitrogen-containing hetero
177/10	in position 6		ring, attached with the ring nitrogen atom in
499/12	Acylation		position 6
			-

499/86	• with only atoms other than nitrogen atoms directly attached in position 6 and a carbon atom having	501/18	• • • 7-Aminocephalosporanic or substituted 7-aminocephalosporanic acids
	three bonds to hetero atoms with at the most one	501/20	7-Acylaminocephalosporanic or substituted 7-
	bond to halogen, e.g. an ester or nitrile radical,		acylaminocephalosporanic acids in which the
	directly attached in position 2		acyl radicals are derived from carboxylic acids
499/861	 with a hydrocarbon radical or a substituted hydrocarbon radical, directly attached in position 	501/22	• • • with radicals containing only hydrogen and carbon atoms, attached in position 3
	6	501/24	with hydrocarbon radicals, substituted by
499/865	with hetero atoms or with carbon atoms having		hetero atoms or hetero rings, attached in
	three bonds to hetero atoms with at the most one		position 3
	bond to halogen, e.g. an ester or nitrile radical,	501/26	Methylene radicals, substituted by oxygen
	directly attached in position 6		atoms; Lactones thereof with the 2-
499/87	• Compounds being unsubstituted in position 3		carboxyl group
	or with substituents other than only two methyl	501/28	• • • • with the 7-amino radical acylated by
	radicals attached in position 3, and with a carbon		an aliphatic carboxylic acid, which is
	atom having three bonds to hetero atoms with at the		substituted by hetero atoms
	most one bond to halogen, e.g. an ester or nitrile	501/30	• • • • • with the 7-amino-radical acylated by an
400/00	radical, directly attached in position 2		araliphatic carboxylic acid
499/88	• Compounds with a double bond between positions 2 and 3 and a carbon atom having three bonds to	501/32	with the 7-amino radical acylated by
	hetero atoms with at the most one bond to halogen,		an araliphatic carboxylic acid, which is
	e.g. an ester or nitrile radical, directly attached in		substituted on the aliphatic radical by
	position 2	501/Q4	hetero atoms
499/881	• • with a hydrogen atom or an unsubstituted	501/34	with the 7-amino radical acylated by
.,,,,,,,,,,	hydrocarbon radical, attached in position 3	501/26	carboxylic acids containing hetero rings
499/883	• • with a substituted hydrocarbon radical attached in	501/36	Methylene radicals, substituted by sulfur
	position 3	501/38	atoms
499/887	with a hetero atom or a carbon atom having three	301/36	Methylene radicals, substituted by nitrogen atoms; Lactams thereof with the 2-
	bonds to hetero atoms with at the most one bond		carboxyl group; Methylene radicals
	to halogen, e.g. an ester or nitrile radical, directly		substituted by nitrogen-containing hetero
	attached in position 3		rings attached by the ring nitrogen atom;
499/893	• • with a hetero ring or a condensed hetero ring		Quaternary compounds thereof
	system, directly attached in position 3	501/40	with the 7-amino radical acylated by
499/897	. Compounds with substituents other than a carbon		an aliphatic carboxylic acid, which is
	atom having three bonds to hetero atoms with at		substituted by hetero atoms
	the most one bond to halogen, directly attached in	501/42	• • • • with the 7-amino radical acylated by an
400/00	position 2		araliphatic carboxylic acid
499/90	further condensed with carbocyclic rings or ring	501/44	with the 7-amino radical acylated by
	systems		an araliphatic carboxylic acid, which is
501/00	Heterocyclic compounds containing 5-thia-1-		substituted on the aliphatic radical by
	azabicyclo [4.2.0] octane ring systems, i.e.	501/46	hetero atoms
	compounds containing a ring system of the	501/46	with the 7-amino radical acylated by carboxylic acids containing hetero rings
	formula: , e.g. cephalosporins;	501/48	Methylene radicals, substituted by hetero
		301/46	rings (C07D 501/38 - C07D 501/46 take
	Ċ <mark>*</mark> -Ň' <u></u> ²_³Ċ		precedence)
	Such ring systems being further condensed, e.g.	501/50	with the 7-amino radical acylated by
	2,3-condensed with an oxygen-, nitrogen- or sulfur-	2 2 2 7 2 3	an aliphatic carboxylic acid, which is
	containing hetero ring		substituted by hetero atoms
501/02	. Preparation	501/52	with the 7-amino radical acylated by an
501/04	from compounds already containing the ring or		araliphatic carboxylic acid
501/01	condensed ring systems, e.g. by dehydrogenation	501/54	with the 7-amino radical acylated by
	of the ring, by introduction, elimination or		an araliphatic carboxylic acid, which is
	modification of substituents		substituted on the aliphatic radical by
501/06	Acylation of 7-aminocephalosporanic acid		hetero atoms
501/08	by forming the ring or condensed ring systems	501/56	• • • • • with the 7-amino radical acylated by
	(by microbiological processes C12P 35/00)		carboxylic acids containing hetero rings
501/10	• • • from compounds containing the penicillin ring	501/57	• • • with a further substituent in position 7, e.g.
	system	E01/E0	cephamycines
501/12	Separation; Purification	501/58	with a nitrogen atom, which is a member of a
501/14	. Compounds having a nitrogen atom directly	501/50	hetero ring, attached in position 7
	attached in position 7	501/59	with hetero atoms directly attached in position
501/16	• • with a double bond between positions 2 and 3	501/60	• with a double bond between positions 3 and 4
		501/00	• • with a double bond between positions 3 and 4

501/62	 Compounds further condensed with a carbocyclic ring or ring system 	505/18	• • • • further acylated by radicals derived from carboxylic acids or by nitrogen or sulfur
503/00	Heterocyclic compounds containing 4-oxa-1-	505/20	analogues thereof with the acylating radicals further
	azabicyclo [3.2.0] heptane ring systems, i.e.		substituted by hetero atoms or by carbon
	compounds containing a ring system of the		atoms having three bonds to hetero
	formula: , e.g. oxapenicillins,		atoms with at the most one bond to
	formula: $(-\frac{1}{6})^{\frac{1}{6}} = (-\frac{1}{4})^{\frac{1}{3}} = (-\frac{1}{6})^{\frac{1}{6}} = (-\frac{1}{6})^$		halogen
	$\frac{1}{C} \frac{7}{N} \frac{N^{\frac{1}{2}}}{N} \frac{2}{C}$	505/22	further substituted by singly-bound
	clavulanic acid derivatives; Such ring systems		nitrogen atoms
	being further condensed, e.g. 2,3-condensed with	505/24	further substituted by doubly-bound
	an oxygen-, nitrogen- or sulfur-containing hetero		nitrogen atoms
	ring		-
503/02	Preparation (by microbiological processes	507/00	Heterocyclic compounds containing a condensed
	C12P 17/18)		beta-lactam ring system, not provided for
503/04	by forming the ring or condensed ring systems		by groups <u>C07D 463/00</u> , <u>C07D 477/00</u> or
503/06	• • from compounds already containing the ring or		C07D 499/00 - C07D 505/00 ; Such ring systems
	condensed ring systems, e.g. by dehydrogenation	507/02	being further condensed
	of the ring, by introduction, elimination or	507/02	 containing 3-oxa-1-azabicyclo [3.2.0] heptane ring systems
502 /00	modification of substituents	507/04	• containing 2-oxa-1-azabicyclo [4.2.0] octane ring
503/08	Modification of a carboxyl group directly		systems
500/10	attached in position 2, e.g. esterification	507/06	• containing 3-oxa-1-azabicyclo [4.2.0] octane ring
503/10	with a carbon atom having three bonds to hetero		systems
	atoms with at the most one bond to halogen, e.g. an	507/08	• containing 4-oxa-1-azabicyclo [4.2.0] octane ring
502/12	ester or nitrile radical, directly attached in position 2		systems
503/12	• unsubstituted in position 6	= 12/00	· · · · · · · · · · · · · · · · · · ·
503/14	with hydrogen atoms, hydrocarbon or	513/00	Heterocyclic compounds containing in the
	substituted hydrocarbon radicals, other than a carbon atom having three bonds to hetero		condensed system at least one hetero ring having nitrogen and sulfur atoms as the only ring hetero
	atoms with at the most one bond to halogen,		atoms, not provided for in groups C07D 463/00,
	attached in position 3		C07D 477/00 or C07D 499/00 - C07D 507/00
503/16	Radicals substituted by hetero atoms or by	513/02	in which the condensed system contains two hetero
303/10	carbon atoms having three bonds to hetero	313/02	rings
		7.1.0 .10.1	
		513/04	()rtho condensed systems
	atoms with at the most one bond to halogen,	513/04	. Ortho-condensed systems
503/18	e.g. an ester or nitrile radical	513/06	Peri-condensed systems
503/18 503/20	e.g. an ester or nitrile radical by oxygen atoms	513/06 513/08	. Peri-condensed systems. Bridged systems
503/20	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms	513/06 513/08 513/10	Peri-condensed systemsBridged systemsSpiro-condensed systems
	e.g. an ester or nitrile radical by oxygen atoms	513/06 513/08	 Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero
503/20	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms	513/06 513/08 513/10 513/12	 Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings
503/20 503/22	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1-azabicyclo [4.2.0] octane ring systems, i.e.	513/06 513/08 513/10 513/12 513/14	 Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems
503/20 503/22	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1-	513/06 513/08 513/10 513/12 513/14 513/16	 Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems
503/20 503/22	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1-azabicyclo [4.2.0] octane ring systems, i.e.	513/06 513/08 513/10 513/12 513/14 513/16 513/18	 Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems
503/20 503/22	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1-azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the	513/06 513/08 513/10 513/12 513/14 513/16 513/18 513/20	 Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems
503/20 503/22	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1-azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the	513/06 513/08 513/10 513/12 513/14 513/16 513/18	 Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains four or
503/20 503/22	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1-azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the	513/06 513/08 513/10 513/12 513/14 513/16 513/18 513/20	 Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems
503/20 503/22	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1- azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the formula: C7-C654C , e.g. oxacephalosporins; C8-N123C Such ring systems being further condensed, e.g.	513/06 513/08 513/10 513/12 513/14 513/16 513/18 513/20 513/22	 Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains four or more hetero rings
503/20 503/22	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1- azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the formula: C7 C6 5 4C ye.g. oxacephalosporins; Such ring systems being further condensed, e.g. 2,3-condensed with an oxygen-, nitrogen- or sulfur-	513/06 513/08 513/10 513/12 513/14 513/16 513/18 513/20	 Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the
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503/20 503/22 505/00 505/02	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1- azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the formula: C7 C6 5 4 C	513/06 513/08 513/10 513/12 513/14 513/16 513/18 513/20 513/22	 Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the condensed system at least one hetero ring having nitrogen, oxygen, and sulfur atoms as the only ring hetero atoms, not provided
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503/20 503/22 505/00 505/02 505/04	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1- azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the formula: , e.g. oxacephalosporins; Such ring systems being further condensed, e.g. 2,3-condensed with an oxygen-, nitrogen- or sulfur- containing hetero ring Preparation (by microbiological processes C12P 17/18) . by forming the ring or condensed ring systems . from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation	513/06 513/08 513/10 513/12 513/14 513/16 513/18 513/20 513/22 515/00	 Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the condensed system at least one hetero ring having nitrogen, oxygen, and sulfur atoms as the only ring hetero atoms, not provided for in groups C07D 463/00, C07D 477/00 or C07D 499/00 - C07D 507/00 in which the condensed system contains two hetero rings
503/20 503/22 505/00 505/02 505/04	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1- azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the formula: C7 C6 5 4 C	513/06 513/08 513/10 513/12 513/14 513/16 513/18 513/20 513/22 515/00	 Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the condensed system at least one hetero ring having nitrogen, oxygen, and sulfur atoms as the only ring hetero atoms, not provided for in groups C07D 463/00, C07D 477/00 or C07D 499/00 - C07D 507/00 in which the condensed system contains two hetero rings Ortho-condensed systems
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503/20 503/22 505/00 505/02 505/04 505/06	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1- azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the formula: C7 C6 5 4 C Reg. oxacephalosporins; Such ring systems being further condensed, e.g. 2,3-condensed with an oxygen-, nitrogen- or sulfur- containing hetero ring Preparation (by microbiological processes C12P 17/18) by forming the ring or condensed ring systems from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents Modification of a carboxyl group directly attached in position 2, e.g. esterification with a carbon atom having three bonds to hetero atoms with at the most one bond to halogen, e.g. an	513/06 513/08 513/10 513/12 513/14 513/16 513/18 513/20 513/22 515/00 515/02 515/04 515/06 515/08 515/10 515/12	 Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the condensed system at least one hetero ring having nitrogen, oxygen, and sulfur atoms as the only ring hetero atoms, not provided for in groups C07D 463/00, C07D 477/00 or C07D 499/00 - C07D 507/00 in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems
503/20 503/22 505/00 505/02 505/04 505/06 505/10	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1- azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the formula: , e.g. oxacephalosporins; Such ring systems being further condensed, e.g. 2,3-condensed with an oxygen-, nitrogen- or sulfur- containing hetero ring Preparation (by microbiological processes C12P 17/18) . by forming the ring or condensed ring systems . from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents Modification of a carboxyl group directly attached in position 2, e.g. esterification with a carbon atom having three bonds to hetero atoms with at the most one bond to halogen, e.g. an ester or nitrile radical, directly attached in position 2	513/06 513/08 513/10 513/12 513/14 513/16 513/18 513/20 513/22 515/00 515/02 515/04 515/06 515/08 515/10 515/12 515/14 515/16	 Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the condensed system at least one hetero ring having nitrogen, oxygen, and sulfur atoms as the only ring hetero atoms, not provided for in groups C07D 463/00, C07D 477/00 or C07D 499/00 - C07D 507/00 in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems
503/20 503/22 505/00 505/02 505/04 505/06 505/10 505/12	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1- azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the formula: e.g. oxacephalosporins; Such ring systems being further condensed, e.g. 2,3-condensed with an oxygen-, nitrogen- or sulfur- containing hetero ring Preparation (by microbiological processes C12P 17/18) . by forming the ring or condensed ring systems . from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents . Modification of a carboxyl group directly attached in position 2, e.g. esterification with a carbon atom having three bonds to hetero atoms with at the most one bond to halogen, e.g. an ester or nitrile radical, directly attached in position 2 . substituted in position 7	513/06 513/08 513/10 513/12 513/14 513/16 513/18 513/20 513/22 515/00 515/02 515/04 515/06 515/08 515/10 515/12 515/14 515/16 515/18	 Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the condensed system at least one hetero ring having nitrogen, oxygen, and sulfur atoms as the only ring hetero atoms, not provided for in groups C07D 463/00, C07D 477/00 or C07D 499/00 - C07D 507/00 in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed systems in which the condensed systems Peri-condensed systems Peri-condensed systems Bridged systems Peri-condensed systems Bridged systems Bridged systems Bridged systems Bridged systems Bridged systems Bridged systems
503/20 503/22 505/00 505/02 505/04 505/06 505/10 505/12	e.g. an ester or nitrile radical by oxygen atoms by sulfur atoms by nitrogen atoms Heterocyclic compounds containing 5-oxa-1- azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the formula: e.g. oxacephalosporins; Such ring systems being further condensed, e.g. 2,3-condensed with an oxygen-, nitrogen- or sulfur- containing hetero ring Preparation (by microbiological processes C12P 17/18) . by forming the ring or condensed ring systems . from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents . Modification of a carboxyl group directly attached in position 2, e.g. esterification with a carbon atom having three bonds to hetero atoms with at the most one bond to halogen, e.g. an ester or nitrile radical, directly attached in position 2 . substituted in position 7 . with hetero atoms directly attached in position	513/06 513/08 513/10 513/12 513/14 513/16 513/18 513/20 513/22 515/00 515/02 515/04 515/06 515/08 515/10 515/12 515/14 515/16	 Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Bridged systems Spiro-condensed systems in which the condensed system contains four or more hetero rings Heterocyclic compounds containing in the condensed system at least one hetero ring having nitrogen, oxygen, and sulfur atoms as the only ring hetero atoms, not provided for in groups C07D 463/00, C07D 477/00 or C07D 499/00 - C07D 507/00 in which the condensed system contains two hetero rings Ortho-condensed systems Peri-condensed systems Spiro-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems in which the condensed system contains three hetero rings Ortho-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems Peri-condensed systems

515/22	 in which the condensed system contains four or more hetero rings
517/00	Heterocyclic compounds containing in the condensed system at least one hetero ring having selenium, tellurium, or halogen atoms as ring
515/02	hetero atoms
517/02	 in which the condensed system contains two hetero rings
517/04	. Ortho-condensed systems
517/06	Peri-condensed systems
517/08	Bridged systems
517/10	Spiro-condensed systems
517/12	 in which the condensed system contains three heterorings
517/14	Ortho-condensed systems
517/16	Peri-condensed systems
517/18	Bridged systems
517/20	Spiro-condensed systems
517/22	 in which the condensed system contains four or more hetero rings
519/00	Heterocyclic compounds containing more than

one system of two or more relevant hetero rings condensed among themselves or condensed with a common carbocyclic ring system not provided for in groups C07D 453/00 or C07D 455/00

519/02

- . Ergot alkaloids of the cyclic peptide type
- 519/04
- Dimeric indole alkaloids, e.g. vincaleucoblastine

519/06

containing at least one condensed beta-lactam ring system, provided for by groups C07D 463/00, <u>C07D 477/00</u> or <u>C07D 499/00</u> - <u>C07D 507/00</u>, e.g. a penem or a cepham system

521/00 Heterocyclic compounds containing unspecified hetero rings

NOTE

This group is only used for the classification of heterocyclic compounds the chemical structure of which are not specified, i.e. only in those cases where the heterocyclic compounds cannot be classified in any of groups <u>C07D 201/00</u> - <u>C07D 519/00</u>.