# CPC COOPERATIVE PATENT CLASSIFICATION

## C CHEMISTRY; METALLURGY

(NOTES omitted)

### **CHEMISTRY**

#### C07 ORGANIC CHEMISTRY

(NOTES omitted)

# C07D HETEROCYCLIC COMPOUNDS (macromolecular compounds C08)

#### 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 —NH<sub>2</sub>, —NHCOCH<sub>3</sub>, or —COOCH<sub>3</sub>.

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	<ul> <li>from cycloaliphatic compounds by simultaneous nitrosylation and rearrangement</li> </ul>		Pyrrolidines having only hydrogen atoms attached to the ring carbon atoms are classified in C07D 295/00
201/12	<ul><li>by depolymerising polyamides</li><li>Preparation of salts or adducts of lactams</li></ul>	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	<ul> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly</li> </ul>		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	<ul> <li>Carbon atoms having three bonds to hetero atoms with at the most one bond to halogen,</li> <li>e.g. ester or nitrile radicals</li> </ul>
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	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>	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	<ul> <li>not condensed with other rings</li> </ul>	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	207/207	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	,_,	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	<ul> <li>having two double bonds between ring members</li> </ul>	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	<ul> <li> with hydrocarbon radicals, substituted by hetero atoms, directly attached to the ring</li> </ul>	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 [b] pyrroles	211/20	• • • • with hydrocarbon radicals, substituted by singly bound oxygen or sulphur atoms
209/62	Naphtho [c] pyrroles; Hydrogenated naphtho	211/22	by oxygen atoms
2057.02	[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
	1 and 3	211/28	to which a second hetero atom is
209/70	containing carbocyclic rings other than six-		attached
	membered	211/30	• • • • with hydrocarbon radicals, substituted
209/72	4,7-Endo-alkylene-iso-indoles		by doubly bound oxygen or sulfur atoms
209/74	with an oxygen atom in position 1		or by two oxygen or sulfur atoms singly
209/76	• • • with oxygen atoms in positions 1 and 3	244/22	bound to the same carbon atom
209/78	with oxygen and nitrogen atoms in positions	211/32	by oxygen atoms
	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	211/36	halogen, e.g. ester or nitrile radicals with hetero atoms or with carbon atoms having
209/86	with only hydrogen atoms, hydrocarbon or	211/30	three bonds to hetero atoms with at the most
	substituted hydrocarbon radicals, directly attached to carbon atoms of the ring system		one bond to halogen, e.g. ester or nitrile
209/88	• • • with hetero atoms or with carbon atoms	211/20	radicals, directly attached to ring carbon atoms
207/00	having three bonds to hetero atoms with at	211/38	Halogen atoms or nitro radicals
	the most one bond to halogen, e.g. ester or	211/40	Oxygen atoms
	nitrile radicals, directly attached to carbon	211/42	attached in position 3 or 5
	atoms of the ring system	211/44	attached in position 4
209/90	• • Benzo [c, d] indoles; Hydrogenated benzo [c, d] indoles	211/46	• • • • having a hydrogen atom as the second substituent in position 4
209/92	Naphthostyrils	211/48	having an acyclic carbon atom attached
209/94	containing carbocyclic rings other than six-		in position 4
	membered	211/50	Aroyl radical
209/96	Spiro-condensed ring systems	211/52	• • • • having an aryl radical as the second 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> )
	<u>NOTES</u>	211/58	• • • • attached in position 4
	1. In this group, the following term is used with the	211/60	Carbon atoms having three bonds to hetero
	meaning indicated:		atoms with at the most one bond to halogen, e.g. ester or nitrile radicals
	<ul> <li>"hydrogenated" means having less than three double bonds between ring members or</li> </ul>	211/62	• • • • attached in position 4
	between ring members and non-ring members.	211/64	• • • • having an aryl radical as the second
	2. Piperidines having only hydrogen atoms attached		substituent in position 4
	to the ring carbon atoms are classified in  C07D 295/00	211/66	having a hetero atom as the second substituent in position 4
	<u> </u>	211/68	• • having one double bond between ring members or
211/02	<ul> <li>Preparation by ring-closure or hydrogenation</li> </ul>		between a ring member and a non-ring member
211/04	<ul> <li>with only hydrogen or carbon atoms directly</li> </ul>	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	211/74	carbon atoms
	hydrogen atoms attached to ring carbon	211/74	Oxygen atoms
211/12	atoms	211/76	attached in position 2 or 6
211/12	• • • • with only hydrogen atoms attached to the ring nitrogen atom	211/78	Carbon atoms having three bonds to hetero atoms with at the most one bond to halogen

211/80	<ul> <li>having two double bonds between ring members or between ring members and non-ring members</li> </ul>	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		substituent nitrogen atom (nitro radicals
	three bonds to hetero atoms, with at the most one bond to halogen directly attached to ring	212/44	C07D 213/26)
	carbon atoms	213/44	Radicals substituted by doubly-bound 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
	atoms with at the most one bond to halogen	213/50	Ketonic radicals
211/92	<ul> <li>with a hetero atom directly attached to the ring</li> </ul>	213/51	Acetal radicals
	nitrogen atom	213/52	Sulfur atoms
211/94	Oxygen atom, e.g. piperidine N-oxide	213/53	Nitrogen atoms
211/96	Sulfur atom	213/54	Radicals substituted by carbon atoms having
211/98	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
	rings, not condensed with other rings, with one	212/55	radicals
	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	<ul> <li>having three double bonds between ring members or</li> </ul>	213/58	Amidines
212/04	between ring members and non-ring members	213/59	with at least one of the bonds being to sulfur
213/04	<ul> <li>having no bond between the ring nitrogen atom and a non-ring member or having only hydrogen</li> </ul>	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 thereof	213/643	2-Phenoxypyridines; Derivatives 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-
010/100	pyridine rings		membered ring, e.g. chrysanthemumic acid esters
213/133	<ul> <li>Preparation by dehydrogenation of hydrogenated pyridine compounds</li> </ul>	213/65	attached in position 3 or 5
212/14	Preparation from compounds containing	213/66	having in position 3 an oxygen
213/14	heterocyclic oxygen	213,00	atom and in each of the positions
213/16	containing only one pyridine ring		4 and 5 a carbon atom bound to an
213/18	Salts thereof		oxygen, sulphur, or nitrogen atom,
213/20	Quaternary compounds thereof		e.g. pyridoxal
213/22	containing two or more pyridine rings	213/67	2-Methyl-3-hydroxy-4,5-
210/22	directly linked together, e.g. bipyridyl		bis(hydroxy-methyl)pyridine, i.e.
213/24	with substituted hydrocarbon radicals attached	212/60	pyridoxine
	to ring carbon atoms	213/68	attached in position 4
213/26	Radicals substituted by halogen atoms or	213/69	Two or more oxygen atoms
	nitro radicals	213/70	Sulfur atoms
213/28	Radicals substituted by singly-bound oxygen or sulphur atoms	213/71	• • • • to which a second hetero atom is attached
213/30	Oxygen atoms	213/72	Nitrogen atoms (nitro radicals <u>C07D 213/61</u> )
213/32	Sulfur atoms	213/73	Unsubstituted amino or imino radicals
213/34	to which a second hetero atom is	213/74	Amino or imino radicals substituted by
	attached		hydrocarbon or substituted hydrocarbon 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> )	22.70	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	215/56 215/58	• • • • with oxygen atoms in position 4
213/83	Thioacids; Thioesters; Thioamides; Thioimides	213/36	<ul> <li>with hetero atoms directly attached to the ring nitrogen atom</li> </ul>
213/84	· · · · Nitriles	215/60	. N-oxides
		215/00	• • IN-OXIGES
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	<ul> <li>with only hydrogen atoms or radicals containing</li> </ul>
	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	<ul> <li>having more than three double bonds between ring members or between ring members and non-ring</li> </ul>		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	<ul> <li>having no bond between the ring nitrogen atom</li> </ul>	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	<ul><li>Carbon atoms having three bonds to hetero atoms</li></ul>
	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		hydrogenated acridine ring systems
215/22	attached in position 2 or 4	219/02	<ul> <li>with only hydrogen, hydrocarbon or substituted</li> </ul>
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	<ul> <li>with hetero atoms or with carbon atoms having</li> </ul>
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	positions 3, 6 of 7  Metal salts; Chelates	219/10	attached in position 9
215/30	Esters	219/12	Amino-alkylamino radicals attached in
215/32	· · · · · LSUCIS		position 9
	Carhamatas	010/14	201.1 1 1
		219/14	• with hydrocarbon radicals, substituted by nitrogen
215/36 215/38	<ul> <li> Carbamates</li> <li> Sulfur atoms (<u>C07D 215/24</u> takes precedence)</li> <li> Nitrogen atoms (nitro radicals <u>C07D 215/18</u>)</li> </ul>	219/14	<ul> <li>with hydrocarbon radicals, substituted by nitrogen atoms, attached to the ring nitrogen atom</li> </ul>

## NOTE    Polymethyleneimines with at least five ring members and having one introgen atom as the only ring hetero atom, not provided for by groups could not containing systems and the provided for the groups could not containing systems and the provided for the groups could not containing systems and the provided for the groups could not be ring carbon atoms are classified in group country and the provided for the groups could not be ring as a tracked to ring carbon atoms as the only ring better atoms could not provided	219/16	<ul> <li>with acyl radicals, substituted by nitrogen atoms, attached to the ring nitrogen atom</li> </ul>	225/00	Heterocyclic compounds containing rings of more than seven members having one nitrogen atom as the only ring hetero atom
ring hetere atom, not provided for by groups COTD 211/00 - (2017) 211/00 - (20	221/00	Heterocyclic compounds containing six-membered		• •
221/02 - condensed with carbocyclic rings or ring systems 221/03 - Ortho- or peri condensed ring systems 221/04 - Ortho- or peri condensed ring systems 221/05 - Ara-anthracenes 221/16 - Ara-phenaulteries 221/17 - Ara-phenaulteries 221/18 - Ara-phenaulteries 221/18 - Phenauthridines 221/16 - Containing carbocyclic rings other than six-membered 221/18 - Ring systems of four or more rings 221/19 - Spiro-condensed ring systems 221/19 - Spiro-condensed ring systems 221/10 - Containing carbocyclic rings other than six-membered 221/18 - Ring systems of four or more rings 221/19 - Spiro-condensed ring systems 221/10 - Spiro-condensed ring systems 221/10 - Spiro-condensed ring systems 221/10 - Benzomorphans  Heterocyclic compounds containing rings 4 Marking on a fitzeger atoms at the only ring hetero atom 4 Morter  Hexamethylene imines or 3-azabicyclo [3 2.2] 6 - Benzomorphans  Heterocyclic compounds containing rings 4 Marking on a fitzeger atoms 221/04 - Morthinans  1 Heterocyclic compounds containing rings 4 Marking on a fitzeger atoms 221/05 - Benzomorphans  1 Heterocyclic compounds containing rings 221/06 - Benzomorphans  221/07 - Bridged ring systems 221/08 - Benzomorphans  1 Heterocyclic compounds containing rings 221/07 - Morthinans  221/08 - Benzomorphans  221/09 - Bridged ring systems 221/08 - Benzomorphans  221/09 - Hexamethylene imines or 3-azabicyclo [3 2.2] 6 - Benzomorphans  221/00 - Worthinans  222/00 - Hexamethylene imines or 3-azabicyclo [3 2.2] 6 - Benzomorphans  222/00 - Worthinans  223/00 - NOTE  223/00 - NOTE  224/00 - Worthinans  225/00 - Worthinans  225/00 - Worthinans  227/00 - Worthi		ring hetero atom, not provided for by groups		Polymethyleneimines with at least five ring
221/06	221/02			
221/106 Ring systems of three rings 221/107 Azra-phenularbranes 221/108 Azra-phenularbranes 221/108 Azra-phenularbranes 221/108				
221/108 Aza-ambracenes 225/02				group <u>Corp 255700</u> .
221/10 Aza-phenathrenes 225/04			225/02	
221/12 Phenumbridimes 221/14 Azz-phenalense, e.g. 1.8 naphthalimide 221/16 condamsed with two six membered rings 221/17 Cambaining carbocyclic rings other than six membered containing carbocyclic rings other than six membered with two six membered rings 221/12 Sing systems of four or more rings 221/12 Spiro-condensed ring systems 221/12 Camphidines 221/12	221/10		225/04	
221/14 Ara-phenalenes, e.g. I.8-naphthalimide 221/16 containing carbocyclic rings other than six membered of containing carbocyclic rings of four or more rings 221/12 Spira-condensed ring systems 221/12 Camphidines 221/12 Camphidines 221/12 Morphinans 221/12 Morphinans 222/10 Morphinans 223/10			225/06	<ul> <li>condensed with one six-membered ring</li> </ul>
221/16 221/18 221/18 221/18 221/19 22		Aza-phenalenes, e.g. 1.8-naphthalimide	225/08	<ul> <li>condensed with two six-membered rings</li> </ul>
221/18 • Ring systems of four or more rings 221/12 • Sprine-condensed ring systems 221/12 • Camphidines 221/12 •	221/16	containing carbocyclic rings other than six-	227/00	
221/22 . Bridged ring systems 221/24 Camphidines 221/26 Benzomorphans 221/27 Benzomorphans 221/28 Morphinans 221/29 Heterocyclic compounds containing seven- membered rings having one nitrogen atom as the only ring hetero atom  NOTE  Hexamethylene imines or 3-azabicyclo [3.2.2] nonanes, having only hydrogen atoms attached to the ring carbon atoms, are classified in group COTD 295/00.  227/04  With only hydrogen or carbon atoms directly attached to the ring airrogen atom with only ring hetero atom  NOTE  Hexamethylene imines or 3-azabicyclo [3.2.2] nonanes, having only hydrogen atoms attached to the ring carbon atoms, are classified in group COTD 295/00.  227/04  With only hydrogen atoms, hydrocarbon or substituted hydrocarbon atoms hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring 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 227/08  223/08  Vith only hydrogen atoms idently attached to the ring aitrocarbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms (halogen atoms COTD 223/04)  223/10  Vith only hydrogen atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms with at most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms 227/08  Vith only hydrogen atoms attached to the carbon atoms 227/08  Vith only hydrogen atoms attached to the carbon atoms adjacent to the ring nitrogen atom  Vito understance  Vith devoted to the ring nitrogen atom  Vith devoted to ring carbon atoms  Vith devoted to t	221/18	Ring systems of four or more rings		
221/24 Camphidines 221/26 Benzomorphans 221/28 Morphinans 223/00 Heterocyclic compounds containing seven- membered rings having one nitrogen atom as the only ring hetero atom NOTE  Hexamethylene imines or 3-azabicyclo [3.2.2] 100 nonanes, having only hydrogen atoms attached to the ring carbon atoms, are classified in group COTD 295/00.  223/02 . not condensed with other rings 223/04 . with only hydrogen atoms. halogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms fairedly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms (radical attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms (radical attached to ring carbon atoms (radical attached to ring carbon atoms or each atoms (radical attached to ring carbon atoms (radical attached to ring attac	221/20	Spiro-condensed ring systems		<u>C07D 203/00</u> - <u>C07D 225/00</u>
221/24 Camphidines 221/26 Benzamorphans  Heterocyclic compounds containing seven- membered rings having one nitrogen atom as the only ring heter atom  NOTE  Hexamethylene imines or 3-azabicyclo [3.2.2] nonanes, having only hydrogen atoms attached to the ring carbon atoms, are classified in group COTP 295/00.  227/02  228/02  1 not condensed with other rings 223/04  223/04  223/05  1 not condensed with other rings 223/06  223/06  223/06  223/07  223/07  223/07  223/08  2	221/22	Bridged ring systems		NOTE
223/00  Heterocyclic compounds containing seven- membered rings having one nitrogen atom as the only ring hetero atom  NOTE  Hexamethylene imines or 3-azabicyclo [3.2.2] nonanes, having only hydrogen atoms attached to the ring nitrogen atom to the ring carbon atoms, are classified in group COTD 295/00.  223/02  not condensed with other rings  223/04  in ot condensed with other rings  223/05  in ot condensed with other rings  223/06  in ot condensed with other rings  223/07  in ot condensed with other rings  223/08  in ot condensed with other rings  223/08  in ot condensed with other rings  223/09  in ot condensed with other rings  223/00  in 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 are classified in group COTD 295/00.  with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms are classified in group COTD 295/00.  with only hydrogen atoms attached to ring carbon atoms are classified in group COTD 295/00.  with only hydrogen atoms, hydrocarbon or substituted by with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms are classified in group COTD 295/00.  with only hydrogen atoms attached to ring carbon atoms are classified in group COTD 295/00.  with only hydrogen atoms attached to ring carbon atoms are classified in group carbon atoms are classified in group COTD 295/00.  with only hydrogen atoms at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms are classified in group COTD 295/00.  viith only hydrogen atoms at the most one bond to halogen atoms at the most one bond to halogen.	221/24	Camphidines		
223/06 Heterocyclic compounds containing seven- membered rings having one nitrogen atom as the only ring hetero atom  NOTE  Hexamethylene imines or 3-azabicyclo [3.2.2] nonanes, having only hydrogen atoms attached to the ring carbon atoms, are classified in group C07D 295/00.  223/02 nonanes, having only hydrogen atoms, are classified in group C07D 295/00.  223/02 not condensed with other rings  223/04 not condensed with other rings  223/05 not condensed with other rings  223/06 not condensed with other rings  223/07 not condensed with other rings  223/08 not condensed with carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester on ritrile radicals, directly attached to ring carbon atoms adiacent on bond to halogen, e.g. ester on ritrile radicals, directly attached to ring carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester on ritrile radicals, directly attached to ring carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester on ritrile radicals, directly attached to ring carbon atoms attached to the carbon atoms adjacent to the ring nitrogen atoms attached to the carbon atoms adjacent to the ring nitrogen atom atoms adjacent to the ring nitrogen atom atoms attached to the carbon atoms adjacent to the ring nitrogen atom may adjacent to the ring nitrogen atom atoms attached to the ring nitrogen atoms attached to the ring nitrogen atom may adjacent to the ring nitrogen atom atoms attached to the ring nitrogen atom atoms at	221/26	Benzomorphans		
membered rings having one nitrogen atom as the only ring hetero atom		•		attached to the ring carbon atoms are classified in
NOTE  Hexamethylene imines or 3-azabicyclo [3.2.2] nonanes, having only hydrogen atoms attached to the ring nitrogen atoms or with carbon atoms having carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms attached to the carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms attached to the carbon atoms adjacent to the ring nitrogen atoms adjacent to the ring nitrogen atoms of corning part of a nitro radical  223/02 . Nitrogen atoms not forming part of a nitro radical  223/14 . Condensed with carbocyclic rings or ring systems atoms atoms expenses atoms. Corp. 2 part of a part of a nitro radical  223/14 . Dibenzarepines; Hydrogenated dibenzarepines  223/26 . Dibenz [b, e] azepines; Hydrogenated dibenz [b, f] azepines  223/27 . With hydrocarbon radicals, substituted by nitrogen atoms, hydrocarbon or substituted by nitrogen atoms on the carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms one bond to halogen, e.g. ester or nitrile radicals, directly attached to the ring nitrogen atoms adjacent to the ring nitrogen atoms and corp. 227/102 . Nitrogen atoms not forming part of a nitro radical with earbocyclic rings or ring systems by the carbon atoms directly attached to the ring nitrogen atoms and feetly attached to the ring nitrogen atom introgen atoms. Part of a nitro radical part	223/00			group <u>CO7D 293/00</u> .
Hexamethylene imines or 3-azabicyclo [3.2.2] nonames, having only hydrogen atoms attached to the ring carbon atoms, are classified in group COTD 295/00.  223/02 • not condensed with other rings 223/04 • with only hydrogen atoms, halogen atoms, hydrocarbon or substituted hydrocarbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms 223/06 • with hetero atoms or with carbon atoms atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms 223/08 • 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, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms with at the most one bond to halogen, e.g. ester or nitrile radicals, directly attached to ring carbon atoms attached to the carbon atoms adjacent to the ring nitrogen atom, e.g. dicarboxylic acid imides to the carbon atoms adjacent to the ring nitrogen atom, e.g. dicarboxylic acid imides to the carbon atoms adjacent to the ring nitrogen atom, e.g. dicarboxylic acid imides to the carbon atoms of radical 223/10 · Nitrogen atoms not forming part of a nitro radical 223/14 · Notrogen atoms of forming part of a nitro radical 223/14 · Dibenzazepines; Hydrogenated dibenz [b, c] azepines 223/12 · Dibenz [b, c] azepines 223/12 · Dibenz [b, c] azepines; Hydrogenated dibenz [b, c] azepines 223/24 · With hydrocarbon radicals, substituted by nitrogen atoms, attached to the ring nitrogen atoms 223/26 · National part of a nitro radical pa		only ring hetero atom	227/02	
nonanes, having only hydrogen atoms attached to the ring carbon atoms, are classified in group COTD 295/00.  223/02 • not condensed with other rings  223/04 • with only hydrogen atoms, halogen atoms, hydrocarbon rasubstituted hydrocarbon rasubstituted hydrocarbon 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 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 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 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 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 attached to the carbon atoms adjacent to the ring nitrogen atoms correctly attached to ring carbon atoms adjacent to the ring nitrogen atoms correctly attached to the carbon atoms adjacent to the ring nitrogen atoms of forming part of a nitrogen atoms of forming part of a nitrogen atom radical  223/12		<u>NOTE</u>	227/04	with only hydrogen atoms, hydrocarbon or
to the ring carbon atoms, are classified in group  COTD 295/00.  223/02				
223/06	222/02	to the ring carbon atoms, are classified in group C07D 295/00.	227/06	three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile radicals,
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, e.g. ester or nitrile radicals, directly attached to ring carbon atoms (halogen atoms CO7D 223/04)  223/08			227/00	
223/06 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, directly attached to ring carbon atoms (halogen atoms CO7D 223/04)  223/08 Oxygen atoms 223/10 attached in position 2 223/12 Nitrogen atoms not forming part of a nitro radical 223/14 . condensed with carbocyclic rings or ring systems 223/16 . Benzazepines; Hydrogenated benzazepines 223/18 . Dibenzapeines; Hydrogenated dibenzazepines 223/19 Dibenz [b, e] azepines; Hydrogenated dibenz [b, f] azepines 223/22 Dibenz [b, f] azepines; Hydrogenated dibenz [b, f] azepines 223/24 with hydrocarbon radicals, substituted by nitrogen atoms, attached to the ring nitrogen atoms 223/26 having a double bond between positions 10 and 11 223/30 with hetero atoms directly attached to the ring nitrogen atom 223/32 ontaining carbocyclic rings other than six-	223/04	hydrocarbon or substituted hydrocarbon radicals,		One doubly-bound oxygen atom in position
directly attached to ring carbon atoms (halogen atoms COTD 223/04)  223/08	223/06	• • with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most one	227/093	Two doubly-bound oxygen atoms attached to the carbon atoms adjacent to the ring
223/08 Oxygen atoms 223/10 attached in position 2 223/12 Nitrogen atoms not forming part of a nitro radical 223/14 . condensed with carbocyclic rings or ring systems 223/16 . Benzazepines; Hydrogenated benzazepines 223/18 . Dibenzazepines; Hydrogenated dibenzazepines 223/18 . Dibenzazepines; Hydrogenated dibenzazepines 223/20 Dibenz [b, e] azepines; Hydrogenated dibenz [b, f] azepines 223/22 Dibenz [b, f] azepines 223/24 with hydrocarbon radicals, substituted by nitrogen atoms, attached to the ring nitrogen atom 223/26 having a double bond between positions 10 and 11 223/28 having a single bond between positions 10 and 11 223/30 with hetero atoms directly attached to the ring nitrogen atom 223/22 other indicated to the ring nitrogen atom 223/23 containing carbocyclic rings other than six-  227/12 with hetero atoms directly attached to the ring nitrogen atom 229/00 Heterocyclic compounds containing rings of less than five members having two nitrogen atoms as the only ring hetero atoms 229/02 containing three-membered rings 231/00 Heterocyclic compounds containing 1,2-diazole or hydrogenated 1,2-diazole rings 231/02 not condensed with other rings 231/04 having no double bonds between ring members or between a 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 or between a ring member and a non-ring member or between ring members or between rin		directly attached to ring carbon atoms (halogen	227/10	• • • Nitrogen atoms not forming part of a nitro
223/10 attached in position 2 223/12 Nitrogen atoms not forming part of a nitro radical 223/14 . condensed with carbocyclic rings or ring systems 223/16 . Benzazepines; Hydrogenated benzazepines 223/18 . Dibenzazepines; Hydrogenated dibenzazepines 223/20 Dibenz [b, e] azepines; Hydrogenated dibenz [b, e] azepines 223/22 Dibenz [b, f] azepines; Hydrogenated dibenz [b, f] azepines 223/24 with hydrocarbon radicals, substituted by nitrogen atoms, attached to the ring nitrogen atom 223/26 having a double bond between positions 10 and 11 223/28 with hetero atoms directly attached to the ring nitrogen atom 223/22 with hetero atoms directly attached to the ring nitrogen atom 223/32 containing carbocyclic rings or ring systems than five members having two nitrogen atoms as the only ring hetero atoms . containing three-membered rings  229/02 Heterocyclic compounds containing 1,2-diazole or hydrogenated 1,2-diazole rings . not condensed with other rings . 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 with oxygen or sulfur atoms directly attached to ring carbon atoms having two or three double bonds between ring members or between ring members and non-ring members having two or three double bonds between ring members or between ring members and non-ring members with oxygen or sulfur atoms directly attached to ring carbon atoms having two or three double bonds between ring members or between ring members and non-ring members with oxygen atoms, hydrocarbon or substituted hydrocarbon radicals, directly	223/08	Oxygen atoms	227/12	
223/12 . Nitrogen atoms not forming part of a nitro radical 223/14 . condensed with carbocyclic rings or ring systems 223/16 . Benzazepines; Hydrogenated benzazepines 223/18 . Dibenzaepines; Hydrogenated dibenzazepines 223/20 . Dibenz [b, e] azepines; Hydrogenated dibenz [b, e] azepines 223/22 . Dibenz [b, f] azepines 223/22 . Dibenz [b, f] azepines 223/24 . With nydrocarbon radicals, substituted by nitrogen atoms, attached to the ring nitrogen atom 223/26 . Avaing a double bond between positions 10 and 11 223/28 . Avaing a single bond between positions 10 and 11 223/30 . With hetero atoms directly attached to the ring nitrogen atom 223/32 . containing carbocyclic rings of less than five members having two nitrogen atoms as the only ring hetero atoms 229/02 . containing three-membered rings 229/02 . containing three-membered rings 231/00 Heterocyclic compounds containing 1,2-diazole or hydrogenated 1,2-diazole rings 231/02 . not condensed with other rings 231/04 . having no double bonds between ring members or between ring members and non-ring members 231/06 . having one double bond between ring members or between a ring member and a non-ring member or between a ring member and a non-ring member or between a ring carbon atoms 231/08 . having two or three double bonds between ring members or between ring carbon atoms 231/08 . having two or three double bonds between ring members or between ring membe	223/10	• • • attached in position 2	227712	
223/16 . Benzazepines; Hydrogenated benzazepines 223/18 . Dibenzazepines; Hydrogenated dibenzazepines 223/20 . Dibenz [b, e] azepines; Hydrogenated dibenz [b, e] azepines; Hydrogenated dibenz [b, f] azepines 223/22 . Dibenz [b, f] azepines; Hydrogenated dibenz [b, f] azepines 223/24 . With hydrocarbon radicals, substituted by nitrogen atom atom 223/26 . Abving a double bond between positions 10 and 11 223/28 . Abving a single bond between positions 10 and 11 223/30 . With hetero atoms directly attached to the ring nitrogen atom 223/32 . Containing carbocyclic rings other than six-  the only ring hetero atoms . containing three-membered rings  231/00 Heterocyclic compounds containing 1,2-diazole or hydrogenated 1,2-diazole rings . not condensed with other rings . having no double bonds between ring members or between ring members or between a ring member and a non-ring member or between a ring member and a non-ring member . With oxygen or sulfur atoms directly attached to the ring nitrogen atom 231/01 . With hetero atoms directly attached to the ring nitrogen atom 231/10 . With only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly	223/12	radical	229/00	Heterocyclic compounds containing rings of less
223/10 Dibenzazepines; Hydrogenated dibenzazepines 223/20 Dibenz [b, e] azepines; Hydrogenated dibenz [b, e] azepines				
223/20  . Dibenz [b, e] azepines; Hydrogenated dibenz [b, e] azepines; Hydrogenated dibenz [b, f] azepines; Hydrogenated dibenz [b, f] azepines  223/22  . Dibenz [b, f] azepines; Hydrogenated dibenz [b, f] azepines  231/02  . Not condensed with other rings  231/04  . Naving 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 or between a ring member and a non-ring member or between a ring member and a non-ring member or between a ring member and a non-ring member or between a ring member and a non-ring member or between a ring member or between ring and 11  223/28  . A bibenz [b, e] azepines; Hydrogenated dibenz (by f) azepines  231/02  . Naving no double bonds between ring members or between a ring member and a non-ring member or between a ring member or between ring members or between ring membe			220/02	
[b, e] azepines  1. Dibenz [b, f] azepines; Hydrogenated dibenz [b, f] azepines; Hydrogenated dibenz [b, f] azepines  231/02  223/24  223/24  223/24  223/24  223/26  223/26  223/26  223/26  223/26  223/28  223/28  223/28  223/28  223/28  223/28  223/28  223/29  223/28  223/20  223/28  223/20			229/02	· containing timee-membered rings
[b, f] azepines  223/24  with hydrocarbon radicals, substituted by nitrogen atoms, attached to the ring nitrogen atom  223/26  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  223/26  having a double bond between positions 10 and 11  223/28  having a single bond between positions 10 and 11  223/30  with oxygen or sulfur atoms directly attached to the ring nitrogen atom  231/10  231/10  231/10  231/10  231/10  231/10  231/10  231/10  . having no double bonds between ring members or between ring members or between a ring member and a non-ring member  231/10  231/10  231/10  . having two or three double bonds between ring members or between ring ring carbon atoms  231/10  231/10  231/10  231/10  231/10  231/10  3		[b, e] azepines	231/00	
223/24 with hydrocarbon radicals, substituted by nitrogen atoms, attached to the ring nitrogen atom 223/26 having a double bond between positions 10 and 11  223/28 having a single bond between positions 10 and 11  223/30 with hetero atoms directly attached to the ring nitrogen atom 223/32 containing carbocyclic rings other than six-  231/06 having one double bond between ring members and non-ring member or between a ring member and a non-ring member or between a ring member and a non-ring member or sulfur atoms directly attached to ring carbon atoms  231/10 having two or three double bonds between ring members or between ring members or between ring members or between ring members or between ring members and non-ring members or between ring ring carbon atoms.	223/22		231/02	<ul> <li>not condensed with other rings</li> </ul>
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  223/28  having a single bond between positions 10 and 11  223/30  with oxygen or sulfur atoms directly attached to ring carbon atoms  231/10  . having one double bond between ring members or between a ring member and a non-ring member or sulfur atoms directly attached to ring carbon atoms  231/10  231	222/24	-	231/04	
atom  223/26  having a double bond between positions 10 and 11  223/28  having a single bond between positions 10 and 11  223/30  with oxygen or sulfur atoms directly attached to the ring carbon atoms  231/10	223/24			
10 and 11  223/28  having a single bond between positions 10 and 11  223/30  with hetero atoms directly attached to the ring nitrogen atom  223/32  containing carbocyclic rings other than six-  231/10  231/10  . having two or three double bonds between ring members or between ring members and non-ring members  . with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly	222/24	atom	231/06	
and 11  223/30  with hetero atoms directly attached to the ring nitrogen atom  223/32  containing carbocyclic rings other than six-  and 11  members or between ring members and non-ring members  members  231/12  with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly		10 and 11	231/08	
ring nitrogen atom 231/12 with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly		and 11	231/10	
223/32 containing carbocyclic rings other than six-  substituted hydrocarbon radicals, directly	223/30			
	223/32	containing carbocyclic rings other than six-	231/12	substituted hydrocarbon radicals, directly

231/14	• • • with hetero atoms or with carbon atoms having	233/20	• • with substituted hydrocarbon radicals, directly
	three bonds to hetero atoms with at the most		attached to ring carbon atoms
	one bond to halogen, e.g. ester or nitrile	233/22	Radicals substituted by oxygen atoms
221/16	radicals, directly attached to ring carbon atoms	233/24	Radicals substituted by nitrogen atoms not
231/16	Halogen atoms or nitro radicals		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		three bonds to hetero atoms
221/22	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
221/24	nitrogen atoms		bond to halogen, e.g. ester or nitrile radicals,
231/24	having sulfone or sulfonic acid	222/20	directly attached to ring carbon atoms
221/26	radicals in the molecule	233/30	Oxygen or sulfur atoms
231/26	• • • • • 1-Phenyl-3-methyl-5- pyrazolones, unsubstituted or substituted on the	233/32	One oxygen atom
	phenyl ring	233/34	Ethylene-urea
231/28	Two oxygen or sulfur atoms	233/36	with hydrocarbon radicals, substituted by
231/20	attached in positions 3 and 5		nitrogen atoms, attached to ring nitrogen atoms
231/30	Oxygen atoms	233/38	with acyl radicals or hetero atoms directly
231/32	with only hydrogen atoms or radicals	233/36	attached to ring nitrogen atoms
231/34	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
231/30	by hetero atoms, attached in position	233/44	radical
	4	233/46	• • • with only hydrogen atoms attached to said
231/38	Nitrogen atoms (nitro radicals C07D 231/16)	255/40	nitrogen atoms
231/40	Acylated on said nitrogen atom	233/48	with acyclic hydrocarbon or substituted
231/42	Benzene-sulfonamido pyrazoles	233/40	acyclic hydrocarbon radicals, attached to said
231/44	Oxygen and nitrogen or sulfur and nitrogen		nitrogen atoms
2017	atoms	233/50	with carbocyclic radicals directly attached to
231/46	Oxygen atom in position 3 or 5 and		said nitrogen atoms
	nitrogen atom in position 4	233/52	with hetero atoms directly attached to said
231/48	with hydrocarbon radicals attached to		nitrogen atoms
	said nitrogen atom	233/54	. having two double bonds between ring members or
231/50	Acylated on said nitrogen atom		between ring members and non-ring members
231/52	Oxygen atom in position 3 and nitrogen	233/56	with only hydrogen atoms or radicals containing
	atom in position 5, or vice versa		only hydrogen and carbon atoms, attached to ring
231/54	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>		carbon atoms
231/56	Benzopyrazoles; Hydrogenated benzopyrazoles	233/58	• • • with only hydrogen atoms or radicals
222/00	Hatana analia aanna anada aantainina 12 dianala		containing only hydrogen and carbon atoms,
233/00	Heterocyclic compounds containing 1,3-diazole or hydrogenated 1,3-diazole rings, not condensed	222/50	attached to ring nitrogen atoms
	with other rings	233/60	with hydrocarbon radicals, substituted by
233/02	• having no double bonds between ring members or		oxygen or sulfur atoms, attached to ring
233/02	between ring members and non-ring members	222/61	nitrogen atoms
233/04	having one double bond between ring members or	233/61	• • • with hydrocarbon radicals, substituted by nitrogen atoms not forming part of a nitro
233/01	between a ring member and a non-ring member		radical, attached to ring nitrogen atoms
233/06	• with only hydrogen atoms or radicals containing	233/62	with triarylmethyl radicals attached to ring
200,00	only hydrogen and carbon atoms, directly	255/02	nitrogen atoms
	attached to ring carbon atoms	233/64	with substituted hydrocarbon radicals attached to
233/08	with alkyl radicals, containing more than four	255/04	ring carbon atoms, e.g. histidine
	carbon atoms, directly attached to ring carbon	233/66	• with hetero atoms or with carbon atoms having
	atoms	233,00	three bonds to hetero atoms with at the most one
233/10	with only hydrogen atoms or radicals		bond to halogen, e.g. ester or nitrile radicals,
	containing only hydrogen and carbon atoms,		directly attached to ring carbon atoms
	directly attached to ring nitrogen atoms	233/68	Halogen atoms
233/12	• • • with substituted hydrocarbon radicals	233/70	One oxygen atom
	attached to ring nitrogen atoms	233/72	Two oxygen atoms, e.g. hydantoin
233/14	Radicals substituted by oxygen atoms	233/74	with only hydrogen atoms or radicals
233/16	Radicals substituted by nitrogen atoms		containing only hydrogen and carbon atoms,
233/18	Radicals substituted by carbon atoms		attached to other ring members
	having three bonds to hetero atoms with at	233/76	• • • with substituted hydrocarbon radicals
	the most one bond to halogen, e.g. ester or		attached to the third ring carbon atom
	nitrile radicals		Radicals substituted by oxygen atoms

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	<ul> <li>having three double bonds between ring members</li> </ul>
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	<ul> <li>having three double bonds between ring members or</li> </ul>	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	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>	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	<ul> <li>not condensed with other rings</li> </ul>
		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		<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> <li>having one double bond between ring members or</li> </ul>
235/12	<ul><li> Radicals substituted by halogen atoms or nitro radicals</li><li> Radicals substituted by oxygen atoms</li></ul>	239/04	<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> <li>having one double bond between ring members or between a ring member and a non-ring member</li> </ul>
235/12	<ul> <li> Radicals substituted by halogen atoms or nitro radicals</li> <li> Radicals substituted by oxygen atoms</li> <li> Radicals substituted by nitrogen atoms (by</li> </ul>	239/04 239/06	<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> <li>having one double bond between ring members or</li> </ul>
235/12 235/14	<ul> <li> Radicals substituted by halogen atoms or nitro radicals</li> <li> Radicals substituted by oxygen atoms</li> <li> Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> </ul>	239/04 239/06 239/08	<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> <li>having one double bond between ring members or between a ring member and a non-ring member</li> <li>with hetero atoms directly attached in position</li> </ul>
235/12 235/14	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>Radicals substituted by carbon atoms having</li> </ul>	239/04 239/06 239/08 239/10	<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> <li>having one double bond between ring members or between a ring member and a non-ring member</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> </ul>
235/12 235/14	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most</li> </ul>	239/04 239/06 239/08	<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> <li>having one double bond between ring members or between a ring member and a non-ring member</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro</li> </ul>
235/12 235/14	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile</li> </ul>	239/04 239/06 239/08 239/10 239/12	<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> <li>having one double bond between ring members or between a ring member and a non-ring member</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> </ul>
235/12 235/14 235/16	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals CO7D 235/10)</li> <li>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</li> </ul>	239/04 239/06 239/08 239/10	<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> <li>having one double bond between ring members or between a ring member and a non-ring member</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or</li> </ul>
235/12 235/14 235/16 235/18	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together</li> </ul>	239/04 239/06 239/08 239/10 239/12	<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> <li>having one double bond between ring members or between a ring member and a non-ring member</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached</li> </ul>
235/12 235/14 235/16 235/18	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14	<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> <li>having one double bond between ring members or between a ring member and a non-ring member</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> </ul>
235/12 235/14 235/16 235/18	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14	<ul> <li>having no double bonds between ring members or between ring members and non-ring members.</li> <li>having one double bond between ring members or between a ring member and a non-ring member.</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms.</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> </ul>
235/12 235/14 235/16 235/18 235/20	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14	<ul> <li>having no double bonds between ring members or between ring members and non-ring members.</li> <li>having one double bond between ring members or between a ring member and a non-ring member.</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms.</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen</li> </ul>
235/12 235/14 235/16 235/18 235/20	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14	<ul> <li>having no double bonds between ring members or between ring members and non-ring members.</li> <li>having one double bond between ring members or between a ring member and a non-ring member.</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms.</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine</li> </ul>
235/12 235/14 235/16 235/18 235/20	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18	<ul> <li>having no double bonds between ring members or between ring members and non-ring members.</li> <li>having one double bond between ring members or between a ring member and a non-ring member.</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms.</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14	<ul> <li>having no double bonds between ring members or between ring members and non-ring members.</li> <li>having one double bond between ring members or between a ring member and a non-ring member.</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms.</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>with hetero atoms or with carbon atoms having</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>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</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring carbon atoms</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22 235/24	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>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</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring carbon atoms</li> <li>having three or more double bonds between ring</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22 235/24	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>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</li> <li>Oxygen atoms</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring carbon atoms</li> <li>having three or more double bonds between ring members or between ring members and non-ring</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/24	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>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</li> <li>Oxygen atoms</li> <li>Sulfur atoms</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring carbon atoms</li> <li>having three or more double bonds between ring members or between ring members and non-ring members</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/24	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>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</li> <li>Oxygen atoms</li> <li>Sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring carbon atoms</li> <li>having three or more double bonds between ring members or between ring members and non-ring members</li> <li>with only hydrogen atoms, hydrocarbon or</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/26 235/28 235/30	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>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</li> <li>Oxygen atoms</li> <li>Sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring carbon atoms</li> <li>having three or more double bonds between ring members</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/26 235/28 235/30	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>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</li> <li>Oxygen atoms</li> <li>Sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>Benzimidazole-2-carbamic acids,</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24 239/26	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring carbon atoms</li> <li>having three or more double bonds between ring members</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/24 235/28 235/28 235/30 235/32	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>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</li> <li>Oxygen atoms</li> <li>Sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>Benzimidazole-2-carbamic acids, unsubstituted or substituted; Esters thereof; Thio-analogues thereof</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring carbon atoms</li> <li>having three or more double bonds between ring members or between ring members and non-ring members</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms</li> <li>with hetero atoms or with carbon atoms having</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/26 235/28 235/30	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>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</li> <li>Oxygen atoms</li> <li>Sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>Benzimidazole-2-carbamic acids, unsubstituted or substituted; Esters thereof; Thio-analogues thereof</li> <li>Heterocyclic compounds containing 1,2-diazine or</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24 239/26	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring carbon atoms</li> <li>having three or more double bonds between ring members or between ring members and non-ring members</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms</li> <li>with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/26 235/28 235/30 235/32 237/00	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>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</li> <li>Oxygen atoms</li> <li>Sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>Benzimidazole-2-carbamic acids, unsubstituted or substituted; Esters thereof; Thio-analogues thereof</li> <li>Heterocyclic compounds containing 1,2-diazine or hydrogenated 1,2-diazine rings</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24 239/26	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring carbon atoms</li> <li>having three or more double bonds between ring members</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms</li> <li>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</li> </ul>
235/12 235/14 235/16 235/18 235/20 235/22 235/24 235/24 235/28 235/28 235/30 235/32	<ul> <li>Radicals substituted by halogen atoms or nitro radicals</li> <li>Radicals substituted by oxygen atoms</li> <li>Radicals substituted by nitrogen atoms (by nitro radicals C07D 235/10)</li> <li>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</li> <li>with aryl radicals directly attached in position 2</li> <li>Two benzimidazolyl-2 radicals linked together directly or via a hydrocarbon or substituted hydrocarbon radical</li> <li>with hetero atoms directly attached to ring nitrogen atoms (C07D 235/10 takes precedence)</li> <li>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</li> <li>Oxygen atoms</li> <li>Sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>Benzimidazole-2-carbamic acids, unsubstituted or substituted; Esters thereof; Thio-analogues thereof</li> <li>Heterocyclic compounds containing 1,2-diazine or</li> </ul>	239/04 239/06 239/08 239/10 239/12 239/14 239/16 239/18 239/20 239/22 239/24 239/26	<ul> <li>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</li> <li>with hetero atoms directly attached in position 2</li> <li>Oxygen or sulfur atoms</li> <li>Nitrogen atoms not forming part of a nitro radical</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached to said nitrogen atoms</li> <li>acylated on said nitrogen atoms</li> <li>with hetero atoms attached to said nitrogen atoms, except nitro radicals, e.g. hydrazine radicals</li> <li>having two double bonds between ring members or between ring members and non-ring members</li> <li>with hetero atoms directly attached to ring carbon atoms</li> <li>having three or more double bonds between ring members or between ring members and non-ring members</li> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached to ring carbon atoms</li> <li>with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most</li> </ul>

220/22	10	220/02	0.10
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	244.02	
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,		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	241/00	members
239/54	as doubly bound oxygen atoms or as unsubstituted hydroxy radicals	241/08	<ul> <li>with oxygen atoms directly attached to ring carbon atoms</li> </ul>
239/545	• • • • • with other hetero atoms or with	241/10	• having three double bonds between ring members
- 26	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		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	241/25	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	241/20	ring carbon atoms
	compounds	241/28	in which said hetero-bound carbon
239/66	Thiobarbituric acids		atoms have double bonds to oxygen, sulfur or nitrogen atoms
239/68	Salts of organic bases; Organic double	241/30	in which said hetero-bound carbon
220/50	compounds	241/30	atoms are part of a substructure —
239/69	Benzenesulfonamido-pyrimidines		C(=X)— $X$ — $C(=X)$ — $X$ — in which
239/70	• condensed with carbocyclic rings or ring systems		X is an oxygen or sulphur atom or an
239/72	Quinazolines; Hydrogenated quinazolines		imino radical, e.g. imidoylguanidines
239/74	with only hydrogen atoms, hydrocarbon or	241/32	(Amino-pyrazinoyl) guanidines
	substituted hydrocarbon radicals, attached to	241/34	(Amino-pyrazine carbonamido)
220/77	ring carbon atoms of the hetero ring		guanidines
239/76	N-oxides	241/36	condensed with carbocyclic rings or ring systems
239/78	with hetero atoms directly attached in position	241/38	• • with only hydrogen or carbon atoms directly
220/00	2	1, 00	attached to the ring nitrogen atoms
239/80	• • • Oxygen atoms	241/40	Benzopyrazines
239/82	• • • • with an aryl radical attached in position 4	241/42	• • • with only hydrogen atoms, hydrocarbon or
239/84	Nitrogen atoms	· · •	substituted hydrocarbon radicals, directly
239/86	• • • with hetero atoms directly attached in position		attached to carbon atoms of the hetero ring
220/00	4	241/44	with hetero atoms or with carbon atoms
239/88	Oxygen atoms		having three bonds to hetero atoms with at
239/90	• • • • with acyclic radicals attached in position 2 or 3		the most one bond to halogen, e.g. ester or
220/01			nitrile radicals, directly attached to carbon
239/91	with aryl or aralkyl radicals attached in position 2 or 3		atoms of the hetero ring
239/92	*	241/46	Phenazines
437/74	nitrogen atoms of the hetero ring		
	indogen atoms of the netero ting		

241/48	with hydrocarbon radicals, substituted by	249/06	with aryl radicals directly attached to ring
	nitrogen atoms, directly attached to the ring nitrogen atoms	249/08	atoms 1,2,4-Triazoles; Hydrogenated 1,2,4-triazoles
241/50	with hetero atoms directly attached to ring	249/08	<ul> <li>1,2,4-111azoles, Hydrogenated 1,2,4-thazoles</li> <li>with hetero atoms or with carbon atoms having</li> </ul>
211/30	nitrogen atoms	247/10	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
243/00	Heterocyclic compounds containing seven-	249/12	Oxygen or sulfur atoms
210,00	membered rings having two nitrogen atoms as the	249/14	Nitrogen atoms
	only ring hetero atoms	249/16	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>
243/02	• having the nitrogen atoms in positions 1 and 2	249/18	Benzotriazoles
243/04	• having the nitrogen atoms in positions 1 and 3	249/20	• • • with aryl radicals directly attached in position 2
243/06	• having the nitrogen atoms in positions 1 and 4	249/22	Naphthotriazoles
243/08	• not condensed with other rings	249/24	with stilbene radicals directly attached in
243/10	condensed with carbocyclic rings or ring systems		position 2
243/12	1,5-Benzodiazepines; Hydrogenated 1,5-	251/00	Heterocyclic compounds containing 1,3,5-triazine
242/14	benzodiazepines	251/02	rings
243/14	1,4-Benzodiazepines; Hydrogenated 1,4- benzodiazepines	251/02	. not condensed with other rings
243/16	substituted in position 5 by aryl radicals	251/04	<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> </ul>
	substituted in position 2 by nitrogen,	251/06	
243/18	oxygen or sulfur atoms	251/06	<ul> <li>with hetero atoms directly attached to ring nitrogen atoms</li> </ul>
243/20	Nitrogen atoms	251/08	<ul> <li>having one double bond between ring members or</li> </ul>
243/20	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
243/24	Preparation from compounds already	231/10	or between ring members and non-ring members
243/20	containing the benzodiazepine	251/12	having three double bonds between ring members
0.40/00	skeleton	251/14	or between ring members and non-ring members
243/28	Preparation including building-up the benzodiazepine skeleton from	251/14	• • • with hydrogen or carbon atoms directly attached to at least one ring carbon atom
	compounds containing no hetero rings	251/16	to only one ring carbon atom
243/30	the benzodiazepine skeleton from	251/18	with nitrogen atoms directly attached to the two other ring carbon atoms, e.g. guanamines
	compounds already containing hetero rings	251/20	with no nitrogen atoms directly attached to
243/32	containing a phthalimide or	231/20	a ring carbon atom
2-13/32	hydrogenated phthalimide ring	251/22	to two ring carbon atoms
	system	251/24	to three ring carbon atoms
243/34	containing a quinazoline or	251/24	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	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
243/36	rings	251/34	Cyanuric or isocyanuric esters
		251/36	• • • having halogen atoms directly attached to
245/00	Heterocyclic compounds containing rings of more	271/20	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	<ul> <li>not condensed with other rings</li> </ul>	251/42	One nitrogen atom
245/04	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>	251/44	with halogen atoms attached to the two
245/06	condensed with one six-membered ring	251/46	other ring carbon atoms
247/00	Heterocyclic compounds containing rings having	251/46	with oxygen or sulfur atoms attached to the two other ring carbon atoms
	two nitrogen atoms as the only ring hetero atoms, according to more than one of groups	251/48	Two nitrogen atoms
	C07D 229/00 - C07D 245/00	251/50	with a halogen atom attached to the third
247/02	• having the nitrogen atoms in positions 1 and 3	251/52	ring carbon atom with an oxygen or sulfur atom attached
249/00	Heterocyclic compounds containing five-		to the third ring carbon atom
	membered rings having three nitrogen atoms as	251/54	Three nitrogen atoms
	the only ring hetero atoms	251/56	Preparation of melamine
249/02	<ul> <li>not condensed with other rings</li> </ul>	251/58	from cyanamide, dicyanamide or
249/04	• 1,2,3-Triazoles; Hydrogenated 1,2,3-triazoles	_01,00	calcium cyanamide
	, ,, <b>,</b> <del>, ,,-,-</del>		

251/60	from urea or from carbon dioxide and ammonia	261/08	<ul> <li>with only hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly</li> </ul>
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
231/00	hetero atom is directly attached to a	261/12	Oxygen atoms
		261/14	Nitrogen atoms
251/60	nitrogen atom of melamine		_
251/68	Triazinylamino stilbenes	261/16	Benzene-sulfonamido isoxazoles
251/70	Other substituted melamines	261/18	Carbon atoms having three bonds to hetero
251/72	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>		atoms, with at the most one bond to halogen
252/00	TT.4	261/20	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>
253/00	Heterocyclic compounds containing six-membered	262/00	II.4
	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
	<u>C07D 251/00</u>	263/02	<ul> <li>not condensed with other rings</li> </ul>
253/02	<ul> <li>not condensed with other rings</li> </ul>	263/04	having no double bonds between ring members or
253/04	1,2,3-Triazines		between ring members and non-ring members
253/06	1,2,4-Triazines	263/06	• • • with hydrocarbon radicals, substituted by
253/065	<ul> <li>having three double bonds between ring</li> </ul>		oxygen atoms, attached to ring carbon atoms
	members or between ring members and non-	263/08	• having one double bond between ring members or
	ring members		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	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>	263/16	with hetero atoms or with carbon atoms having
253/10	• Condensed 1,2,4-triazines; Hydrogenated		three bonds to hetero atoms with at the most
	condensed 1,2,4-triazines		one bond to halogen, e.g. ester or nitrile
255/00			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
255/02	<u>C07D 249/00</u> - <u>C07D 253/00</u>		containing only hydrogen and carbon
255/02	• not condensed with other rings		atoms, directly attached to other ring
255/04	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>		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
257/04	with nitrogen atoms directly attached to the		directly attached to the ring nitrogen
237/00	ring carbon atom		atom
257/08	Six-membered rings	263/28	Nitrogen atoms not forming part of a nitro
	<del>-</del>		radical
257/10	• condensed with carbocyclic rings or ring systems	263/30	having two or three double bonds between ring
257/12	Six-membered rings having four nitrogen atoms		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
			attached to ring carbon atoms
Heterocyclic	compounds having nitrogen and oxygen as the only	263/34	with hetero atoms or with carbon atoms having
ring hetero a	atoms	203/31	three bonds to hetero atoms with at the most
_			one bond to halogen, e.g. ester or nitrile
261/00	Heterocyclic compounds containing 1,2-oxazole or		radicals, directly attached to ring carbon atoms
0 < 1 /0 2	hydrogenated 1,2-oxazole rings	263/36	One oxygen atom
261/02	• not condensed with other rings	263/38	attached in position 2
261/04	having one double bond between ring members or	263/40	attached in position 2
	between a ring member and a non-ring member	263/42	attached in position 5
261/06	having two or more double bonds between ring	263/44	
	members or between ring members and non-ring		Two oxygen atoms
	members	263/46	Sulfur atoms

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  Paragraphics Hydroconstad benzavagales	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	, 00	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	<ul> <li>not condensed with other rings</li> </ul>
	systems containing such rings	271/04	• 1,2,3-Oxadiazoles; Hydrogenated 1,2,3-
265/00	Heterocyclic compounds containing six-membered		oxadiazoles
200,00	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> .	2=1/10	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	271/107	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	271/113	attached in positions 2 and 5 with oxygen, sulfur or nitrogen atoms, directly
	or between a ring member and a non-ring	2/1/113	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		
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 C07D 261/00 - C07D 271/00
	attached in positions 2 and 4	273/01	having one nitrogen atom
265/18	with hetero atoms directly attached in	273/01	<ul> <li>having one introgen atom</li> <li>having two nitrogen atoms and only one oxygen</li> </ul>
	position 2	273/02	atom
265/20	with hetero atoms directly attached in	273/04	Six-membered rings
265/22	position 4	273/06	Seven-membered rings
265/22	Oxygen atoms	273/08	<ul> <li>having two nitrogen atoms and more than one</li> </ul>
265/24	• • • with hetero atoms directly attached in positions 2 and 4	275700	oxygen atom
265/26	-		36
265/28	<ul><li> Two oxygen atoms, e.g. isatoic anhydride</li><li>1,4-Oxazines; Hydrogenated 1,4-oxazines</li></ul>	Heterocyclic	compounds having nitrogen and sulfur as the only
265/30	<ul> <li>1,4-Oxazines, riydrogenated 1,4-oxazines</li> <li>not condensed with other rings</li> </ul>	<u>ring hetero a</u>	atoms .
		275/00	Heterocyclic compounds containing 1,2-thiazole or
265/32	with oxygen atoms directly attached to ring carbon atoms	2/3/00	hydrogenated 1,2-thiazole rings
265/33	Two oxygen atoms, in positions 3 and 5	275/02	• not condensed with other rings
265/34	condensed with carbocyclic rings	275/03	with hetero atoms or with carbon atoms having
265/36	condensed with carbocyclic rings     condensed with one six-membered ring	2,5,65	three bonds to hetero atoms with at the most one
265/38	[b, e]-condensed with two six-membered rings		bond to halogen, e.g. ester or nitrile radicals,
			directly attached to ring carbon atoms
267/00	Heterocyclic compounds containing rings of more	275/04	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>
	than six members having one nitrogen atom and	275/06	with hetero atoms directly attached to the ring
0.67.46.5	one oxygen atom as the only ring hetero atoms		sulfur atom
267/02	Seven-membered rings	277/00	Heterocyclic compounds containing 1,3-thiazole or
267/04	. having the hetero atoms in positions 1 and 2	211/00	hydrogenated 1,3-thiazole rings
267/06	. having the hetero atoms in positions 1 and 3	277/02	• not condensed with other rings
267/08	• having the hetero atoms in positions 1 and 4	211102	. Hot condended with other rings

277/04	<ul> <li>having no double bonds between ring members or between ring members and non-ring members</li> </ul>	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	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>
	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	_,,,,,,	attached in position 2
	substituted hydrocarbon radicals, directly	277/68	with hetero atoms or with carbon atoms having
	attached to ring carbon atoms	277700	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	277/74	Sulfur atoms substituted by carbon atoms
277/16	Sulfur atoms	277/76	Sulfur atoms attached to a second hetero
277/18	Nitrogen atoms	211/10	atom
277/20	<ul> <li>having two or three double bonds between ring</li> </ul>	277/78	
277720	members or between ring members and non-ring		• • • • • to a second sulphur atom
	members	277/80	to a nitrogen atom
277/22	• • • with only hydrogen atoms, hydrocarbon or	277/82	Nitrogen atoms
2,,,22	substituted hydrocarbon radicals, directly	277/84	Naphthothiazoles
	attached to ring carbon atoms	279/00	Heterocyclic compounds containing six-membered
277/24	Radicals substituted by oxygen atoms	275700	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		
277/30			NOTE
211/30	Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most		Thiomorpholines having only hydrogen atoms
			attached to the ring carbon atoms are classified in
	one bond to halogen, e.g. ester or nitrile radicals		group <u>C07D 295/00</u> .
277/32			
211/32	with hetero atoms or with carbon atoms having three bonds to hetero atoms with at the most	279/02	• 1,2-Thiazines; Hydrogenated 1,2-thiazines
	one bond to halogen, e.g. ester or nitrile	279/04	• 1,3-Thiazines; Hydrogenated 1,3-thiazines
	radicals, directly attached to ring carbon atoms	279/06	<ul> <li>not condensed with other rings</li> </ul>
277/34	Oxygen atoms	279/08	condensed with carbocyclic rings or ring systems
277/34	Sulfur atoms	279/10	<ul> <li>1,4-Thiazines; Hydrogenated 1,4-thiazines</li> </ul>
		279/12	<ul> <li>not condensed with other rings</li> </ul>
277/38	Nitrogen atoms	279/14	condensed with carbocyclic rings or ring systems
277/40	Unsubstituted amino or imino radicals	279/16	condensed with one six-membered ring
277/42	Amino or imino radicals substituted by	279/18	[b, e]-condensed with two six-membered rings
	hydrocarbon or substituted hydrocarbon	279/20	with hydrogen atoms directly attached to the
277/44	radicals		ring nitrogen atom
277/44	Acylated amino or imino radicals	279/22	with carbon atoms directly attached to the
277/46	by carboxylic acids, or sulfur or nitrogen		ring nitrogen atom
2== //2	analogues thereof	279/24	with hydrocarbon radicals, substituted
277/48	by radicals derived from carbonic acid,		by amino radicals, attached to the ring
	or sulfur or nitrogen analogues thereof,		nitrogen atom
	e.g. carbonylguanidines	279/26	• • • • • without other substituents attached to
277/50	Nitrogen atoms bound to hetero atoms		the ring system
277/52	to sulfur atoms, e.g. sulfonamides	279/28	with other substituents attached to the
277/54	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
	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	_	-
	a hetero atom, e.g. + HC-(CH₂) <sub>m</sub> -C  with m	281/00	Heterocyclic compounds containing rings of more
	SITION		than six members having one nitrogen atom and
	>= 0, Z being a singly or a doubly bound hetero	001/07	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-thiadiazines
281/06	not condensed with other rings	205/26	
281/08	condensed with carbocyclic rings or ring	285/36	Seven-membered rings
201/10	systems	285/38	Eight-membered rings
281/10	condensed with one six-membered ring	291/00	Heterocyclic compounds containing rings having
281/12	condensed with two six-membered rings		nitrogen, oxygen and sulfur atoms as the only ring
281/14	[b, e]-condensed		hetero atoms
281/16	[b, f]-condensed	291/02	<ul> <li>not condensed with other rings</li> </ul>
281/18	. Eight-membered 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	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>
	ring hetero atoms, according to more than one of	293/00	Heterocyclic compounds containing rings having
	groups <u>C07D 275/00</u> - <u>C07D 281/00</u>	293/00	nitrogen and selenium or nitrogen and tellurium,
283/02	<ul> <li>having the hetero atoms in positions 1 and 3</li> </ul>		with or without oxygen or sulfur atoms, as the ring
285/00	Heterocyclic compounds containing rings		hetero atoms
205/00	having nitrogen and sulfur atoms as the only	293/02	<ul> <li>not condensed with other rings</li> </ul>
	ring hetero atoms, not provided for by groups	293/04	Five-membered rings
	C07D 275/00 - C07D 283/00	293/06	Selenazoles; Hydrogenated selenazoles
285/01	Five-membered rings	293/08	Six-membered rings
285/02	Thiadiazoles; Hydrogenated thiadiazoles	293/10	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>
285/04	• • not condensed with other rings	293/10	Selenazoles; Hydrogenated selenazoles
285/06	1,2,3-Thiadiazoles; Hydrogenated 1,2,3-	273/12	• • Scienazoies, Trydrogenated scienazoies
203700	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 carbon atoms
285/12	1,3,4-Thiadiazoles; Hydrogenated 1,3,4-	205/02	
	thiadiazoles	295/02	<ul> <li>containing only hydrogen and carbon atoms in addition to the ring hetero elements</li> </ul>
285/125	with oxygen, sulfur or nitrogen atoms,	295/023	Preparation; Separation; Stabilisation; Use of
	directly attached to ring carbon atoms, the	273/023	additives
	nitrogen atoms not forming part of a nitro	295/027	containing only one hetero ring
	radical	295/03	with the ring nitrogen atoms directly attached
285/13	Oxygen atoms	273703	to acyclic carbon atoms
285/135	Nitrogen atoms	295/033	• • • with the ring nitrogen atoms directly attached
285/14	condensed with carbocyclic rings or ring		to carbocyclic rings
205/15	systems	295/037	• • with quaternary ring nitrogen atoms
285/15	Six-membered rings	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
205/20	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,
295/22	systems		which is not interrupted by carbocyclic rings
285/22 285/24	condensed with one six-membered ring	295/073	• • • with the ring nitrogen atoms and the
203/24	with oxygen atoms directly attached to the ring sulfur atom		substituents separated by carbocyclic rings or
285/26	substituted in position 6 or 7 by		by carbon chains interrupted by carbocyclic
20 <i>3</i> /20	sulfamoyl or substituted sulfamoyl	207/07	rings
	radicals	295/08	substituted by singly bound oxygen or sulfur
285/28	with only hydrogen atoms or	205/004	atoms
	radicals containing only hydrogen	295/084	with the ring nitrogen atoms and the oxygen or
	and carbon atoms, directly attached		sulfur atoms attached to the same carbon chain, which is not interrupted by carbocyclic rings
	in position 3	295/088	to an acyclic saturated chain
285/30	with hydrocarbon radicals,	295/088	with aromatic radicals attached to the chain
	substituted by hetero atoms,	295/092 295/096	with aromatic radicals attached to the cham with the ring nitrogen atoms and the oxygen
	attached in position 3	<i>4731</i> 070	or sulfur atoms separated by carbocyclic rings
285/32	with hetero atoms or with carbon		or by carbon chains interrupted by carbocyclic
	atoms having three bonds to hetero		rings
	atoms with at the most one bond	295/10	substituted by doubly bound oxygen or sulphur
	to halogen, e.g. ester or nitrile		atoms
	radicals, directly attached in position 3		
	position 3		

295/104	• • • with the ring nitrogen atoms and the doubly bound oxygen or sulfur atoms attached to the	301/03	• • by oxidation of unsaturated compounds, or of mixtures of unsaturated and saturated compounds
	same carbon chain, which is not interrupted by	301/04	with air or molecular oxygen
	carbocyclic rings	301/06	in the liquid phase
295/108	• • • to an acyclic saturated chain	301/08	in the gaseous phase
295/112	• • • with the ring nitrogen atoms and the doubly	301/10	with catalysts containing silver or gold
	bound oxygen or sulfur atoms separated	301/12	with hydrogen peroxide or inorganic peroxides
	by carbocyclic rings or by carbon chains		or peracids
	interrupted by carbocyclic rings	301/14	with organic peracids, or salts, anhydrides or
295/116	with the doubly bound oxygen or sulfur		esters thereof
205/12	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		hydrogen peroxide
295/125	atoms (nitro radicals <u>C07D 295/06</u> )  • • with the ring nitrogen atoms and the substituent	301/18	from polybasic carboxylic acids
293/123	nitrogen atoms attached to the same carbon	301/19	with organic hydroperoxides
	chain, which is not interrupted by carbocyclic	301/22	by oxidation of saturated compounds with air or
	rings		molecular oxygen (of mixtures of unsaturated and
295/13	to an acyclic saturated chain	201/24	saturated compounds C07D 301/04)
295/135	with the ring nitrogen atoms and the substituent	301/24	. by splitting off HAL—Y from compounds
	nitrogen atoms separated by carbocyclic rings	301/26	containing the radical HAL—C—C—OY
	or by carbon chains interrupted by carbocyclic	301/20	<ul><li>Y being hydrogen</li><li>Condensation of epihalohydrins or halohydrins</li></ul>
	rings	301/27	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	202/00	-
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 atom
	atoms with three bonds to hetero atoms	303/02	Compounds containing oxirane rings
	separated by carbocyclic rings or by carbon	303/04	• containing only hydrogen and carbon atoms in
	chains interrupted by carbocyclic rings		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	<ul> <li>by radicals derived from carboxylic acids, or sulfur or nitrogen analogues thereof</li> </ul>		a carbocyclic ring system having three or more
295/182	Radicals derived from carboxylic acids		relevant rings
295/185	from aliphatic carboxylic acids	303/08	• with hydrocarbon radicals, substituted by halogen
295/192	from aromatic carboxylic acids	202/10	atoms, nitro radicals or nitroso radicals
295/192	Radicals derived from thio- or thiono	303/10	in which the oxirane rings are condensed with
2/3/1/4	carboxylic acids		a carbocyclic ring system having three or more relevant rings
295/195	Radicals derived from nitrogen analogues of	303/12	with hydrocarbon radicals, substituted by singly
	carboxylic acids	303/12	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		carbocyclic ring systems having three or
	carbonic acid		more relevant rings
295/215	Radicals derived from nitrogen analogues of	303/18	by etherified hydroxyl radicals
205/22	carbonic acid	303/20	Ethers with hydroxy compounds containing
295/22	with hetero atoms directly attached to ring nitrogen	202/22	no oxirane rings
295/24	atoms Oxygen atoms	303/22	with monohydroxy compounds
293/24 295/26	Oxygen atoms     Sulfur atoms	303/23	Oxiranylmethyl ethers of compounds
295/28	Nitrogen atoms		having one hydroxy group bound to a six-membered aromatic ring,
295/28	non-acylated		the oxiranylmethyl radical not
295/30	acylated with carboxylic or carbonic acids, or		being further substituted, i.e.
275,32	their nitrogen or sulfur analogues		
			CH <sub>2</sub> -CH-CH <sub>2</sub> -O-Aryl
	compounds having oxygen atoms, with or without	202/24	<del>-</del>
sulphur, sele	enium, or tellurium atoms, as ring hetero atoms	303/24	with polyhydroxy compounds
301/00	Preparation of oxiranes	303/26	having one or more free hydroxyl radicals
201/02	Cynthesis of the evinencuing		radicals

301/02

. Synthesis of the oxirane ring

ing netero a			
303/27	having all hydroxyl radicals etherified	307/16	Radicals substituted by carbon atoms having
303/28	with oxirane containing compounds Ethers with hydroxy compounds containing		three bonds to hetero atoms with at the most one bond to halogen, e.g. ester or nitrile
	oxirane rings		radicals
303/30	Ethers of oxirane-containing polyhydroxy	307/18	• • • with hetero atoms or with carbon atoms having
	compounds in which all hydroxyl radicals		three bonds to hetero atoms with at the most
	are etherified with oxirane-containing		one bond to halogen, e.g. ester or nitrile
	hydroxy compounds	207/20	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	307/22	Nitrogen atoms not forming part of a nitro radical
202/22	or more relevant rings	207/24	
303/32 303/34	<ul><li> by aldehydo- or ketonic radicals</li><li> with hydrocarbon radicals, substituted by sulphur,</li></ul>	307/24	Carbon atoms having three bonds to hetero atoms with at the most one bond to halogen
303/34	selenium or tellurium atoms	307/26	having one double bond between ring members or
303/36	with hydrocarbon radicals, substituted by nitrogen	307/20	between a ring member and a non-ring member
303/30	atoms (nitro, nitroso radicals CO7D 303/08)	307/28	• • • with only hydrogen atoms, hydrocarbon or
303/38	• with hydrocarbon radicals, substituted by carbon		substituted hydrocarbon radicals, directly
	atoms having three bonds to hetero atoms with at		attached to ring carbon atoms
	the most one bond to halogen, e.g. ester or nitrile	307/30	with hetero atoms or with carbon atoms having
	radicals		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	307/33	in position 2, the oxygen atom being in its
	compounds	207/24	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 members
	three bonds to hetero atoms with at the most one	307/36	with only hydrogen atoms or radicals
	bond to halogen, directly attached to ring carbon atoms, e.g. ester or nitrile radicals	307/30	containing only hydrogen and carbon atoms,
	atoms, e.g. ester of munic radicals		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
205/02	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
305/06	between ring members and non-ring members with only hydrogen atoms, hydrocarbon or	307/45	Oxygen atoms acylated by a
303/00	substituted hydrocarbon radicals, directly		cyclopropane containing carboxylic acyl
	attached to the ring atoms		radical, e.g. chrysanthemumates
305/08	with hetero atoms or with carbon atoms having	307/46	Doubly bound oxygen atoms, or two
	three bonds to hetero atoms with at the most		oxygen atoms singly bound to the same
	one bond to halogen, e.g. ester or nitrile	307/48	carbon atom Furfural
	radicals, directly attached to ring atoms	307/48	Preparation from natural products
305/10	<ul> <li>having one or more double bonds between ring</li> </ul>	307/52	Radicals substituted by nitrogen atoms not
	members or between ring members and non-ring	307/32	forming part of a nitro radical
205/12	members	307/54	Radicals substituted by carbon atoms having
305/12	Beta-lactones	307/34	three bonds to hetero atoms with at the most
305/14	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>		one bond to halogen, e.g. ester or nitrile
307/00	Heterocyclic compounds containing five-		radicals
	membered rings having one oxygen atom as the	307/56	with hetero atoms or with carbon atoms having
	only ring hetero atom		three bonds to hetero atoms with at the most
307/02	<ul> <li>not condensed with other rings</li> </ul>		one bond to halogen, e.g. ester or nitrile
307/04	having no double bonds between ring members or	20-1	radicals, directly attached to ring carbon atoms
	between ring members and non-ring members	307/58	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
207/00	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	307/68	Carbon atoms having three bonds to hetero
207/12	to ring carbon atoms	207/70	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 forming part of a nitro radical	307/71	attached in position 5
	forming part of a muo faulcar		

307/72	by nitrogen-containing radicals, attached in position 2	309/08	<ul> <li>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,</li> </ul>
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	<ul> <li>having one double bond between ring members or between a ring member and a non-ring member</li> </ul>
	their thio or nitrogen analogues directly attached to the hydrazino	309/18	<ul> <li>containing only hydrogen and carbon atoms in addition to the ring hetero atom</li> </ul>
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	<ul><li>. Benzo [b] furans; Hydrogenated benzo [b] furans</li><li>. with only hydrogen atoms, hydrocarbon or</li></ul>	309/26	Carboxaldehyde radicals
	substituted hydrocarbon radicals, directly attached to carbon atoms of the hetero ring	309/28	<ul> <li>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,</li> </ul>
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	<ul> <li>having two double bonds between ring members or</li> </ul>
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	<ul> <li>having three or more double bonds between ring members or between ring members and non-ring members</li> </ul>
	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	311/02	atom, condensed with other rings  ortho- or peri-condensed with carbocyclic rings or
307/885	3,3-Diphenylphthalides	311/02	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> <ul><li>Dibenzofurans; Hydrogenated dibenzofurans</li></ul>		position 2
307/92	• Naphthofurans; Hydrogenated naphthofurans	311/08 311/10	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
	radicals directly attached in position 2, e.g.	211/16	in position 7
	prostacyclins	311/16	substituted in position 7
307/94	<ul> <li>spiro-condensed with carbocyclic rings or ring</li> </ul>	311/18	• • • • substituted otherwise than in position 3 or
	systems, e.g. griseofulvins	211/20	7
309/00	Heterocyclic compounds containing six-membered	311/20	hydrogenated in the hetero ring
207/00	rings having one oxygen atom as the only ring	311/22	• • • with oxygen or sulfur atoms directly attached in 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	J11/2 <del>4</del>	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		attached in position 2
	substituted hydrocarbon radicals, directly attached to ring carbon atoms	311/26	• • • • with aromatic rings attached in position 2 or
300/06	Padicals substituted by ovygen atoms		<u>-</u>

309/06

. . . Radicals substituted by oxygen atoms

311/28	• • • • with aromatic rings attached in position 2 only	311/96	<ul> <li>spiro-condensed with carbocyclic rings or ring systems</li> </ul>
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	212/02	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		having one oxygen atom as the only ring hetero
	linked together by a carbon chain		atom according to more than one of groups
311/50	with elements other than carbon and		<u>C07D 303/00</u> - <u>C07D 313/00</u>
	hydrogen in position 3	317/00	Heterocyclic compounds containing five-
311/52	Enol-esters or -ethers, or sulfur	317/00	membered rings having two oxygen atoms as the
244.74	analogues thereof		only ring hetero atoms
311/54	substituted in the carbocyclic ring	317/02	• having the hetero atoms in positions 1 and 2
311/56	• • • • without hydrogen atoms in position 3	317/04	• not condensed with other rings
311/58	other than with oxygen or sulphur atoms in	317/04	condensed with carbocyclic rings or ring systems
211/60	position 2 or 4	317/08	<ul> <li>having the hetero atoms in positions 1 and 3</li> </ul>
311/60	with aryl radicals attached in position 2	317/10	• not condensed with other rings
311/62	with oxygen atoms directly attached in position 3, e.g. anthocyanidins	317/12	with only hydrogen atoms or radicals
311/64	• • • • with oxygen atoms directly attached in	317/12	containing only hydrogen and carbon atoms,
311/04	position 8		directly attached to ring carbon atoms
311/66	with carbon atoms having three bonds to	317/14	• • • with substituted hydrocarbon radicals attached
311/00	hetero atoms with at the most one bond to		to ring carbon atoms
	halogen, e.g. ester or nitrile radicals, directly	317/16	Radicals substituted by halogen atoms or
	attached in position 2		nitro radicals
311/68	with nitrogen atoms directly attached in	317/18	Radicals substituted by singly bound oxygen
	position 4		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
211/74	tocopherols	317/28	Radicals substituted by nitrogen atoms (nitro
311/74	Benzo[b]pyrans, hydrogenated in the carbocyclic ring	217/20	radicals <u>C07D 317/16</u> )
311/76	ring Benzo[c]pyrans	317/30	Radicals substituted by carbon atoms having three bonds to hetero atoms with at the most
	Ring systems having three or more relevant rings		one bond to halogen, e.g. ester or nitrile
311/78 311/80	Dibenzopyrans; Hydrogenated dibenzopyrans		radicals
311/80	Xanthenes	317/32	• • • with hetero atoms or with carbon atoms having
311/82	with hetero atoms or with carbon atoms	317/32	three bonds to hetero atoms with at the most
311/04	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		radicals, directly attached to ring carbon atoms
	or nitrile radicals, directly attached in	317/34	Oxygen atoms
	position 9	317/36	Alkylene carbonates; Substituted alkylene
311/86	Oxygen atoms, e.g. xanthones		carbonates
311/88	Nitrogen atoms	317/38	Ethylene carbonate
311/90	• • • • with hydrocarbon radicals, substituted	317/40	Vinylene carbonate; Substituted vinylene
	by amino radicals, directly attached in		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 substituted hydrocarbon radicals, directly		having oxygen as the only ring hetero atom 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 or nitro radicals	327/00	Heterocyclic compounds containing rings having 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	<ul> <li>one oxygen atom and one sulfur atom</li> </ul>
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 having three bonds to hetero atoms with	327/08	• • • [b,e]-condensed with two six-membered carbocyclic rings
24742	at the most one bond to halogen, e.g. ester or nitrile radicals	327/10	<ul> <li>two oxygen atoms and one sulfur atom, e.g. cyclic sulfates</li> </ul>
317/62	<ul> <li>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 atoms</li> </ul>	329/00	Heterocyclic compounds containing rings having oxygen and selenium or oxygen and tellurium atoms as the only ring hetero atoms
	of the carbocyclic ring		
317/64	Oxygen atoms		c compounds having sulfur, selenium or tellurium as
317/66	Nitrogen atoms not forming part of a	the only rin	g hetero 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
	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	<ul> <li>not condensed with other rings</li> </ul>
	hetero atoms	333/04	<ul> <li>not substituted on the ring sulphur atom</li> </ul>
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		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		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
319/16	condensed with one six-membered ring		nitro or nitroso radicals
319/18	• • • Ethylenedioxybenzenes, not substituted on the hetero ring	333/14	Radicals substituted by singly bound hetero 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
319/24	hydrogenated naphthalene ring system [b,e]-condensed with two six-membered rings	333/20	by nitrogen atoms (nitro, nitroso radicals C07D 333/12)
321/00	Heterocyclic compounds containing rings	333/22	Radicals substituted by doubly bound hetero
321/00	having two oxygen atoms as the only ring hetero atoms, not provided for by groups		atoms, or by two hetero atoms other than halogen singly bound to the same carbon atom
221/25	<u>C07D 317/00</u> - <u>C07D 319/00</u>	333/24	Radicals substituted by carbon atoms having
321/02	Seven-membered rings		three bonds to hetero atoms with at the most
321/04	. not condensed with other rings		one bond to halogen, e.g. ester or nitrile
321/06	1,3-Dioxepines; Hydrogenated 1,3-dioxepines		radicals
321/08	1,4-Dioxepines; Hydrogenated 1,4-dioxepines	333/26	with hetero atoms or with carbon atoms having
321/10	• condensed with carbocyclic rings or ring systems		three bonds to hetero atoms with at the most
321/12	• Eight-membered rings		one bond to halogen, e.g. ester or nitrile
323/00	Heterocyclic compounds containing more than two	000:55	radicals, directly attached to ring carbon atoms
0=0  VV	oxygen atoms as the only ring hetero atoms	333/28	Halogen atoms
323/02	• Five-membered rings	333/30	Hetero atoms other than halogen
323/02	Six-membered rings	333/32	• • • • Oxygen atoms
		333/34	Sulfur atoms

333/36	Nitrogen atoms	337/04	not condensed with other rings
333/38		337/04	
333/36	Carbon atoms having three bonds to hetero		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	337/14	$\dots$ [b,f]-condensed
222/44	attached to ring carbon atoms	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	337/00	two sulfur atoms as the only ring hetero atoms
333/48	by oxygen atoms	339/02	Five-membered rings
333/50	<ul> <li>condensed with carbocyclic rings or ring systems</li> </ul>		
333/52	Benzo[b]thiophenes; Hydrogenated	339/04	• having the hetero atoms in positions 1 and 2, e.g.
	benzo[b]thiophenes	220/06	lipoic acid
333/54	• • • with only hydrogen atoms, hydrocarbon or	339/06	<ul> <li>having the hetero atoms in positions 1 and 3, e.g. cyclic dithiocarbonates</li> </ul>
	substituted hydrocarbon radicals, directly	339/08	Six-membered rings
	attached to carbon atoms of the hetero ring	339/08	. Six-membered rings
333/56	Radicals substituted by oxygen atoms	341/00	Heterocyclic compounds containing rings having
333/58	Radicals substituted by nitrogen atoms		three or more sulfur atoms as the only ring hetero
333/60	Radicals substituted by carbon atoms having		atoms
	three bonds to hetero atoms with at the most	2.42.100	TT ( )
	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		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	Hotoroovelie	c compounds containing two or more hetero rings
333/68	Carbon atoms having three bonds to hetero	-	c compounds containing two or more netero rings
	atoms with at the most one bond to halogen	<b>NOTE</b>	
333/70	attached in position 2	Groups C	207D 401/00 - C07D 421/00 cover compounds containing
333/70	Benzo[c]thiophenes; Hydrogenated		207D 401/00 - C07D 421/00 cover compounds containing 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
	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> </ul>	two or mo	
333/72	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> </ul>	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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or</li> </ul>	two or mo by differeneither 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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> </ul>	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 carbocyclic ring or ring system.  Heterocyclic compounds containing two or more
333/72 333/74 333/76	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or</li> </ul>	two or mo by differeneither 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
333/72 333/74 333/76 333/78 333/80	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> </ul>	two or mo by differeneither 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.  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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Heterocyclic compounds containing six-membered</li> </ul>	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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring</li> </ul>	two or moby 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.  containing two hetero rings
333/72 333/74 333/76 333/78 333/80 335/00	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> </ul>	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  . 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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> </ul>	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
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/02	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Seven-membered rings</li> <li>Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> </ul>	two or moby 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  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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Seven-membered rings</li> <li>Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> </ul>	two or moby difference the restriction of the common of th	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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Seven-membered rings</li> <li>Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated</li> </ul>	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  linked by a carbon chain containing alicyclic
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Seven-membered rings</li> <li>Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> </ul>	two or moby difference the recommon 401/00 401/00 401/04 401/06 401/08	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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Seven-membered rings</li> <li>Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated</li> </ul>	two or moby difference the restriction of the common of th	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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Seven-membered rings</li> <li>Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> </ul>	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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Seven-membered rings</li> <li>Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>Thioxanthenes</li> </ul>	two or moby difference the recommon 401/00 401/00 401/04 401/06 401/08	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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>Thioxanthenes</li> <li>with hetero atoms or with carbon atoms</li> </ul>	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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>Thioxanthenes</li> <li>with hetero atoms or with carbon atoms having three bonds to hetero atoms with at</li> </ul>	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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>Thioxanthenes</li> <li>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</li> </ul>	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
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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>Thioxanthenes</li> <li>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</li> </ul>	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  containing three or more hetero rings  Heterocyclic compounds containing two or more
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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>Thioxanthenes</li> <li>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</li> <li>Oxygen atoms, e.g. thioxanthones</li> </ul>	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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>Thioxanthenes</li> <li>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</li> <li>Oxygen atoms, e.g. thioxanthones</li> <li>Nitrogen atoms</li> </ul>	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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>Thioxanthenes</li> <li>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</li> <li>Oxygen atoms, e.g. thioxanthones</li> <li>Nitrogen atoms</li> <li>with hydrocarbon radicals, substituted by</li> </ul>	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 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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>Thioxanthenes</li> <li>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</li> <li>Oxygen atoms, e.g. thioxanthones</li> <li>Nitrogen atoms</li> </ul>	two or moby differencither common 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
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	<ul> <li>Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>Naphthothiophenes</li> <li>Dibenzothiophenes</li> <li>condensed with rings other than six-membered or with ring systems containing such rings</li> <li>Seven-membered rings</li> <li>Beterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>not condensed with other rings</li> <li>condensed with carbocyclic rings or ring systems</li> <li>Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>Thioxanthenes</li> <li>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</li> <li>Oxygen atoms, e.g. thioxanthones</li> <li>With hydrocarbon radicals, substituted by amino radicals, directly attached in position 9</li> </ul>	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	<ul> <li>. Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>. Naphthothiophenes</li> <li>. Dibenzothiophenes</li> <li>. condensed with rings other than six-membered or with ring systems containing such rings</li> <li>. Seven-membered rings</li> <li>Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>. not condensed with other rings</li> <li>. condensed with carbocyclic rings or ring systems</li> <li>. Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>. Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>. Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>. Dibenzothiopyrans</li> <li>. Thioxanthenes</li> <li>. 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</li> <li>. Oxygen atoms, e.g. thioxanthones</li> <li>. Nitrogen atoms</li> <li>. with hydrocarbon radicals, substituted by amino radicals, directly attached in position 9</li> <li>Heterocyclic compounds containing rings of more</li> </ul>	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	<ul> <li>. Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>. Naphthothiophenes</li> <li>. Dibenzothiophenes</li> <li>. condensed with rings other than six-membered or with ring systems containing such rings</li> <li> Seven-membered rings</li> <li>Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>. not condensed with other rings</li> <li>. condensed with carbocyclic rings or ring systems</li> <li>. Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>. Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>. Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li> Thioxanthenes</li> <li> 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</li> <li> Oxygen atoms, e.g. thioxanthones</li> <li> Nitrogen atoms</li> <li> with hydrocarbon radicals, substituted by amino radicals, directly attached in position 9</li> <li>Heterocyclic compounds containing rings of more than six members having one sulfur atom as the</li> </ul>	two or moby differencither common 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
333/72 333/74 333/76 333/78 333/80 335/00 335/02 335/04 335/06 335/08 335/10 335/12 335/14 335/16 335/18 335/20	<ul> <li>. Benzo[c]thiophenes; Hydrogenated benzo[c]thiophenes</li> <li>. Naphthothiophenes</li> <li>. Dibenzothiophenes</li> <li>. condensed with rings other than six-membered or with ring systems containing such rings</li> <li>. Seven-membered rings</li> <li>Heterocyclic compounds containing six-membered rings having one sulfur atom as the only ring hetero atom</li> <li>. not condensed with other rings</li> <li>. condensed with carbocyclic rings or ring systems</li> <li>. Benzothiopyrans; Hydrogenated benzothiopyrans</li> <li>. Naphthothiopyrans; Hydrogenated naphthothiopyrans</li> <li>. Dibenzothiopyrans; Hydrogenated dibenzothiopyrans</li> <li>. Dibenzothiopyrans</li> <li>. Thioxanthenes</li> <li>. 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</li> <li>. Oxygen atoms, e.g. thioxanthones</li> <li>. Nitrogen atoms</li> <li>. with hydrocarbon radicals, substituted by amino radicals, directly attached in position 9</li> <li>Heterocyclic compounds containing rings of more</li> </ul>	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  linked by a carbon chain containing only aliphatic

403/08	<ul> <li>linked by a carbon chain containing alicyclic rings</li> </ul>	411/08	<ul> <li>linked by a carbon chain containing alicyclic rings</li> </ul>
403/10	Iinked 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	<ul> <li>containing two hetero rings</li> </ul>
405/02	<ul> <li>containing two hetero rings</li> </ul>	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  Inked by a carbon chain containing alicyclic
405/08	linked by a carbon chain containing alicyclic rings		rings
405/10	linked by a carbon chain containing aromatic	413/10	<ul> <li>linked by a carbon chain containing aromatic rings</li> </ul>
405/12	rings linked by a chain containing hetero atoms as	413/12	<ul> <li>linked by a chain containing hetero atoms as chain links</li> </ul>
405/14	chain links <ul><li>containing three or more hetero rings</li></ul>	413/14	. containing three or more hetero rings
407/00	Heterocyclic compounds containing two or more	415/00	Heterocyclic compounds containing the thiamine skeleton
107700	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	<ul> <li>containing two hetero rings</li> </ul>		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 C07D 415/00  containing two hetero rings
	bond	417/04	directly linked by a ring-member-to-ring-member
407/06	<ul> <li>linked by a carbon chain containing only aliphatic carbon atoms</li> </ul>	417/06	bond  Inked 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	<ul> <li>linked by a carbon chain containing alicyclic rings</li> </ul>
407/12	linked by a chain containing hetero atoms as chain links	417/10	<ul> <li>linked by a carbon chain containing aromatic rings</li> </ul>
407/14	containing three or more hetero rings	417/12	<ul> <li>linked by a chain containing hetero atoms as chain links</li> </ul>
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,
409/02 409/04	<ul> <li>containing two hetero rings</li> <li>directly linked by a ring-member-to-ring-member bond</li> </ul>		oxygen, and sulfur atoms as the only ring hetero atoms
409/06	linked by a carbon chain containing only aliphatic	419/02	<ul> <li>containing two hetero rings</li> </ul>
	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	<ul> <li>linked by a carbon chain containing aromatic rings</li> </ul>	419/08	linked by a carbon chain containing alicyclic rings
409/12	<ul> <li>linked by a chain containing hetero atoms as chain links</li> </ul>	419/10	linked by a carbon chain containing aromatic
409/14	. containing three or more hetero rings	419/12	rings  I linked 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 <ul><li>containing three or more hetero rings</li></ul>
	sulfur atoms as the only ring hetero atoms		
411/02	<ul> <li>containing two hetero rings</li> </ul>	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 carbon atoms	421/02	containing two hetero rings

421/04	• directly linked by a ring-member-to-ring-member bond	453/04	<ul> <li>having a quinolyl-4, a substituted quinolyl-4 or a alkylenedioxy-quinolyl-4 radical linked through</li> </ul>
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	453/06	containing isoquinuclidine ring systems
421/10	rings  Inked by a carbon chain containing aromatic rings	455/00	Heterocyclic compounds containing quinolizine ring systems, e.g. emetine alkaloids,
421/12	linked by a chain containing hetero atoms as chain links	4.7.7.0.0	protoberberine; Alkylenedioxy derivatives of dibenzo [a, g] quinolizines, e.g. berberine
421/14	. containing three or more hetero rings	455/02	<ul> <li>containing not further condensed quinolizine ring systems</li> </ul>
Heterocyclic systems	compounds containing condensed hetero ring	455/03	<ul> <li>containing quinolizine ring systems directly condensed with at least one six-membered carbocyclic ring, e.g. protoberberine; Alkylenedioxy</li> </ul>
<u>NOTES</u>			derivatives of dibenzo [a, g] quinolizines, e.g.
<ol> <li>Groups Company</li> </ol>	<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	<ul> <li>containing a quinolizine ring system condensed with only one six-membered carbocyclic ring, e.g. julolidine</li> </ul>
	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	455/08	substituted isoquinolyl-1 or an
	n is not taken into consideration.		alkylenedioxyisoquinolyl-1 radical linked
	rpose of classification in groups		through only one carbon atom, attached in
	/00 - C07D 463/00, C07D 473/00 - C07D 477/00,		position 2, e.g. emetine
	/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	Heterocyclic compounds containing indolo [4,
	ry, as including ring systems further condensed with c rings or ring systems, but excluding ring systems		3-f, g] quinoline ring systems, e.g. derivatives
	ndensed with other hetero rings, either directly or		of ergoline, of the formula: , e.g.
	common carbocyclic ring system, e.g. sparteine is		NH NH
	in group <u>C07D 471/22</u> , not in group <u>C07D 455/02</u> .		15 16 7 4
	C07D 471/00, C07D 487/00,		15   10   HN 1   2
•	/00 - C07D 498/00 or C07D 513/00 - C07D 517/00, the		lysergic acid (compounds of the cyclic peptide type
	n is based on the number of relevant hetero rings.		derived from ergotamane <u>C07D 519/02</u> )
474 100	***	457/02	• with hydrocarbon or substituted hydrocarbon
451/00	Heterocyclic compounds containing 8-azabicyclo		radicals, attached in position 8
	[3.2.1] octane, 9-azabicyclo [3.3.1] nonane, or 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane ring	457/04	• with carbon atoms having three bonds to hetero
	systems, e.g. tropane or granatane alkaloids,		atoms with at the most one bond to halogen, e.g.
	scopolamine; Cyclic acetals thereof		ester or nitrile radicals, directly attached in position
451/02	• containing not further condensed 8-azabicyclo		8
431/02	[3.2.1] octane or 3-oxa-9-azatricyclo [3.3.1.0<2,4>]	457/06	Lysergic acid amides
	nonane ring systems, e.g. tropane; Cyclic acetals	457/08	in which the amide nitrogen is a member of a
	thereof		heterocyclic ring
451/04	• • with hetero atoms directly attached in position 3	457/10	<ul> <li>with hetero atoms directly attached in position 8</li> </ul>
	of the 8-azabicyclo [3.2.1] octane or in position 7	457/12	Nitrogen atoms
	of the 3-oxa-9-azatricyclo [3.3.1.0<2,4>] nonane	457/14	• containing indolo [4, 3-f, g] quinoline ring systems
	ring system		condensed with carbocyclic rings or ring systems
451/06	Oxygen atoms	450/00	Hetanoandia communida conteinina hana [a] indela
451/08	Diarylmethoxy radicals	459/00	Heterocyclic compounds containing benz [g] indolo [2, 3-a] quinolizine ring systems, e.g. yohimbine;
451/10	acylated by aliphatic or araliphatic		16, 18-lactones thereof, e.g. reserpic acid lactone
	carboxylic acids, e.g. atropine, scopolamine		10, 10-lactories thereof, e.g. rescripte acturactorie
451/12	acylated by aromatic or heteroaromatic	461/00	Heterocyclic compounds containing indolo [3,2,1-
			d,e] pyrido [3,2,1,j] [1,5]-naphthyridine ring
	carboxylic acids, e.g. cocaine		
451/14	carboxylic acids, e.g. cocaine  containing 9-azabicyclo [3.3.1] nonane ring systems, e.g. granatane, 2-aza-adamantane; Cyclic acetals thereof		systems, e.g. vincamine (dimeric indolo alkaloids C07D 519/04)
451/14 453/00	<ul> <li>containing 9-azabicyclo [3.3.1] nonane ring systems, e.g. granatane, 2-aza-adamantane; Cyclic acetals thereof</li> <li>Heterocyclic compounds containing quinuclidine</li> </ul>		
	<ul> <li>containing 9-azabicyclo [3.3.1] nonane ring systems, e.g. granatane, 2-aza-adamantane; Cyclic acetals thereof</li> </ul>		
453/00	<ul> <li>containing 9-azabicyclo [3.3.1] nonane ring systems, e.g. granatane, 2-aza-adamantane; Cyclic acetals thereof</li> <li>Heterocyclic compounds containing quinuclidine or iso-quinuclidine ring systems, e.g. quinine alkaloids</li> </ul>		
	<ul> <li>containing 9-azabicyclo [3.3.1] nonane ring systems, e.g. granatane, 2-aza-adamantane; Cyclic acetals thereof</li> <li>Heterocyclic compounds containing quinuclidine or iso-quinuclidine ring systems, e.g. quinine</li> </ul>		

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:	473/12	• • • with methyl radicals in positions 1, 3, and 7, e.g. caffeine
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	473/14	with two methyl radicals in positions 1 and 3 and two methyl radicals in positions 7, 8, or
	ring systems being further condensed, e.g. 2,3-	472/16	
	condensed with an oxygen-, nitrogen- or sulfur-	473/16	• • two nitrogen atoms
	containing hetero ring	473/18	• • one oxygen and one nitrogen atom, e.g. guanine
463/02	Preparation (by microbiological processes	473/20	• • two sulfur atoms
103/02	C12P 17/18)	473/22	one oxygen and one sulfur atom
463/04	by forming the ring or condensed ring systems	473/24	one nitrogen and one sulfur atom
463/06	from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation	473/26	<ul> <li>with an oxygen, sulphur, or nitrogen atom directly attached in position 2 or 6, but not in both</li> </ul>
	of the ring, by introduction, elimination or	473/28	• • Oxygen atom
	modification of substituents	473/30	attached in position 6, e.g. hypoxanthine
463/08	Modification of a carboxyl group directly	473/32	Nitrogen atom
403/00	attached in position 2, e.g. esterification	473/34	attached in position 6, e.g. adenine
463/10	• with a carbon atom having three bonds to hetero	473/36	Sulfur atom
403/10	atoms with at the most one bond to halogen, e.g. an	473/38	attached in position 6
	ester or nitrile radical, directly attached in position 2	473/40	• with halogen atoms or perhalogeno-alkyl radicals
463/12	with hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals attached in position 7		directly attached in position 2 or 6
463/14	• with hetero atoms directly attached in position 7	475/00	Heterocyclic compounds containing pteridine ring
463/16	Nitrogen atoms	455/00	systems
463/18	further acylated by radicals derived from	475/02	• with an oxygen atom directly attached in position 4
403/18	carboxylic acids or by nitrogen or sulfur analogues thereof	475/04	• • with a nitrogen atom directly attached in position 2
463/20	_	475/06	<ul> <li>with a nitrogen atom directly attached in position 4</li> </ul>
463/20	with the acylating radicals further substituted by hetero atoms or by carbon	475/08	• with a nitrogen atom directly attached in position
	atoms having three bonds to hetero atoms		2
	with at the most one bond to halogen	475/10	<ul> <li>with an aromatic or hetero-aromatic ring directly</li> </ul>
463/22	further substituted by nitrogen atoms	475/12	attached in position 2  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	Hatanaavalia aamnaunda aantainina 1 agabiavala
	ring being a six-membered ring with one	477/00	Heterocyclic compounds containing 1-azabicyclo [3.2.0] heptane ring systems, i.e. compounds
	nitrogen atom, not provided for by groups <u>C07D 451/00</u> - <u>C07D 463/00</u>		containing a ring system of the formula:
471/02	. in which the condensed system contains two hetero		$C_{\overline{C}}$ , e.g. carbapenicillins, thienamycins;
	rings		$\begin{bmatrix} \frac{1}{7} & \frac{1}{1} & \frac{3}{2} \end{bmatrix}$
471/04	Ortho-condensed systems		C <del></del> C
471/06	Peri-condensed systems		Such ring systems being further condensed, e.g.
471/08	Bridged systems		2,3-condensed with an oxygen-, nitrogen- or
471/10	Spiro-condensed systems	4== 10.5	sulphur-containing hetero ring
471/12	<ul> <li>in which the condensed system contains three hetero rings</li> </ul>	477/02	<ul> <li>Preparation (by microbiological processes <u>C12P 17/18</u>)</li> </ul>
471/14	Ortho-condensed systems	477/04	• • by forming the ring or condensed ring systems
471/16	Peri-condensed systems	477/06	from compounds already containing the ring or
471/18	Bridged systems		condensed ring systems, e.g. by dehydrogenation
471/20	Spiro-condensed systems		of the ring, by introduction, elimination or
471/22	• in which the condensed systems contains four or	477/00	modification of substituents
	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 systems	477/10	<ul> <li>with hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, directly attached in position 4,</li> </ul>
473/02	• with oxygen, sulphur, or nitrogen atoms directly attached in positions 2 and 6		and with a carbon atom having three bonds to hetero 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 carbon atoms, attached in position 1 or 3	477/12	<ul> <li>with hydrogen atoms, hydrocarbon or substituted hydrocarbon radicals, attached in position 6</li> </ul>
473/08	• • • • with methyl radicals in positions 1 and 3, e.g. theophylline		

477/14	• • • with hydrogen atoms, hydrocarbon or	491/02	<ul> <li>in which the condensed system contains two hetero</li> </ul>
	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		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		atoms in the oxygen-containing ring
	bonds to hetero atoms with at the most one bond	491/06	Peri-condensed systems
	to halogen, e.g. an ester or nitrile radical, directly	491/08	Bridged systems
	attached in position 6	491/10	Spiro-condensed systems
477/26	<ul> <li>with hetero atoms or carbon atoms having three</li> </ul>	491/107	with only one oxygen atom as ring hetero atom
	bonds to hetero atoms with at the most one bond		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
407/00	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
.07,02	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
487/12	<ul> <li>in which the condensed system contains three hetero</li> </ul>	491/18	Bridged systems
407/12	rings	491/20	Spiro-condensed systems
487/14	Ortho-condensed systems	491/22	• in which the condensed system contains four or
487/16	Peri-condensed systems		more hetero rings
		400/00	
487/18	Bridged systems	493/00	Heterocyclic compounds containing oxygen atoms
487/18 487/20	<ul><li>Bridged systems</li><li>Spiro-condensed systems</li></ul>	493/00	as the only ring hetero atoms in the condensed
487/18	<ul><li> Bridged systems</li><li> Spiro-condensed systems</li><li> in which the condensed system contains four or</li></ul>		as the only ring hetero atoms in the condensed system
487/18 487/20	<ul><li>Bridged systems</li><li>Spiro-condensed systems</li></ul>	<b>493/00</b> 493/02	<ul> <li>as the only ring hetero atoms in the condensed system</li> <li>in which the condensed system contains two hetero</li> </ul>
487/18 487/20	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>Heterocyclic compounds containing 4aH-8, 9 c-</li> </ul>	493/02	<ul> <li>as the only ring hetero atoms in the condensed system</li> <li>in which the condensed system contains two hetero rings</li> </ul>
487/18 487/20 487/22	<ul> <li>. Bridged systems</li> <li>. Spiro-condensed systems</li> <li>. in which the condensed system contains four or more hetero rings</li> <li>Heterocyclic compounds containing 4aH-8, 9 c-Iminoethano-phenanthro [4, 5-b, c, d] furan ring</li> </ul>	493/02 493/04	<ul> <li>as the only ring hetero atoms in the condensed system</li> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> </ul>
487/18 487/20 487/22	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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</li> </ul>	493/02 493/04 493/06	<ul> <li>as the only ring hetero atoms in the condensed system</li> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> </ul>
487/18 487/20 487/22	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> </ul>	493/02 493/04 493/06 493/08	<ul> <li>as the only ring hetero atoms in the condensed system</li> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Bridged systems</li> </ul>
487/18 487/20 487/22	<ul> <li>. Bridged systems</li> <li>. Spiro-condensed systems</li> <li>. in which the condensed system contains four or more hetero rings</li> <li>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</li> </ul>	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
487/18 487/20 487/22	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> </ul>	493/02 493/04 493/06 493/08	<ul> <li>as the only ring hetero atoms in the condensed system</li> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains three hetero</li> </ul>
487/18 487/20 487/22	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> </ul>	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
487/18 487/20 487/22	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> </ul>	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
487/18 487/20 487/22	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> </ul>	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
487/18 487/20 487/22 <b>489/00</b>	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> </ul>	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  Spiro-condensed systems  in which the condensed system contains three hetero rings  Ortho-condensed systems  Peri-condensed systems  Bridged systems
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487/18 487/20 487/22 <b>489/00</b>	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>NH</li> <li>H</li> <li>H<!--</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  Spiro-condensed systems  Spiro-condensed systems  in which the condensed system contains four or</td></li></ul>	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  Spiro-condensed systems  Spiro-condensed systems  in which the condensed system contains four or
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>NH</li> <li>NH</li> <li>y</li> <li>with oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone</li> <li>Salts; Organic complexes</li> </ul>	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
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>NH</li> <li>With oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone</li> <li>Salts; Organic complexes</li> <li>with a hetero atom directly attached in position 14</li> </ul>	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
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06 489/08	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>NH</li> <li>With oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone</li> <li>Salts; Organic complexes</li> <li>with a hetero atom directly attached in position 14</li> <li>Oxygen atom</li> </ul>	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  in which the condensed systems  in which the condensed systems  Heterocyclic compounds containing in the
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>NH</li> <li>With oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone</li> <li>Salts; Organic complexes</li> <li>with a hetero atom directly attached in position 14</li> <li>Oxygen atom</li> <li>containing 4aH-8, 9 c-Iminoethano- phenanthro</li> </ul>	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  Spiro-condensed systems  Spiro-condensed systems  Heterocyclic compounds containing in the condensed system at least one hetero ring having
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06 489/08	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>With oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone</li> <li>Salts; Organic complexes</li> <li>with a hetero atom directly attached in position 14</li> <li>Oxygen atom</li> <li>containing 4aH-8, 9 c-Iminoethano- phenanthro [4, 5-b, c, d] furan ring systems condensed with</li> </ul>	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  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
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06 489/08 489/09	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>NH</li> <li>HH</li> <li>HH</li></ul>	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  Peri-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
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06 489/08 489/09	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>NH  9 H  10 H  9 H  11 H  9 H  12 H  13 H  14 S-epoxy]-morphinan of the formula:</li> <li>Salts; Organic complexes</li> <li>with a hetero atom directly attached in position 14</li> <li>Oxygen atom</li> <li>containing 4aH-8, 9 c-Iminoethano- phenanthro [4, 5-b, c, d] furan ring systems</li> <li>with a bridge between positions 6 and 14</li> </ul>	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
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06 489/08 489/09 489/10 489/12	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>with oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone</li> <li>Salts; Organic complexes</li> <li>with a hetero atom directly attached in position 14</li> <li>Oxygen atom</li> <li>containing 4aH-8, 9 c-Iminoethano- phenanthro [4, 5-b, c, d] furan ring systems</li> <li>with a bridge between positions 6 and 14</li> <li>the bridge containing only two carbon atoms</li> </ul>	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
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06 489/08 489/09	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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  15  17  NH  19  10  11  15  14  10  17  NH  10  18  19  10  10  11  11  15  16  17  NH  18  19  10  10  11  11  12  13  13  14  15  15  16  17  17  18  19  19  10  10  11  11  12  13  13  14  15  15  16  17  17  18  19  19  10  10  11  11  12  13  13  14  15  16  17  18  19  19  10  10  11  11  12  13  14  15  16  17  18  19  19  10  10  11  11  12  13  14  15  16  17  18  18  19  19  19  19  19  19  19  19</li></ul>	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  Ortho-condensed systems  Peri-condensed systems  Bridged systems  Bridged systems  Spiro-condensed systems  Peri-condensed systems  Spiro-condensed systems  Bridged systems  Bridged systems  Bridged systems  Bridged systems  Bridged 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
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06 489/08 489/09 489/10 489/12	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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  15  17  NH  20  20  3 and 6, e.g. morphine, morphinone</li> <li>Salts; Organic complexes</li> <li>with a hetero atom directly attached in position 14</li> <li>Oxygen atom</li> <li>containing 4aH-8, 9 c-Iminoethano- phenanthro [4, 5-b, c, d] furan ring systems condensed with carbocyclic rings or ring systems</li> <li>with a bridge between positions 6 and 14</li> <li>the bridge containing only two carbon atoms</li> <li>Heterocyclic compounds containing in the condensed ring system both one or more rings</li> </ul>	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  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  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
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06 489/08 489/09 489/10 489/12	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>with oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone</li> <li>Salts; Organic complexes</li> <li>with a hetero atom directly attached in position 14</li> <li>Oxygen atom</li> <li>containing 4aH-8, 9 c-Iminoethano- phenanthro [4, 5-b, c, d] furan ring systems condensed with carbocyclic rings or ring systems</li> <li>with a bridge between positions 6 and 14</li> <li>the bridge containing only two carbon atoms</li> <li>Heterocyclic compounds containing in the condensed ring system both one or more rings having oxygen atoms as the only ring hetero atoms</li> </ul>	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00 495/02 495/04 495/08 495/10	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  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
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06 489/08 489/09 489/10 489/12	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>With oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone</li> <li>Salts; Organic complexes</li> <li>with a hetero atom directly attached in position 14</li> <li>Oxygen atom</li> <li>containing 4aH-8, 9 c-Iminoethano- phenanthro [4, 5-b, c, d] furan ring systems condensed with carbocyclic rings or ring systems</li> <li>with a bridge between positions 6 and 14</li> <li>the bridge containing only two carbon atoms</li> <li>Heterocyclic compounds containing in the condensed ring system both one or more rings having oxygen atoms as the only ring hetero atoms and one or more rings having nitrogen atoms as</li> </ul>	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  Ortho-condensed systems  Peri-condensed systems  Peri-condensed systems  Peri-condensed systems  Peri-condensed systems  Spiro-condensed systems  Peri-condensed systems  Ridged systems  Ridged systems  Ridged 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  Reterocyclic compounds containing two hetero rings  Reterocyclic compounds system contains two hetero rings  Reterocyclic compounds systems  Reterocyclic compounds systems  Reterocyclic compounds systems  Reterocyclic compounds contains two hetero rings  Reterocyclic compounds systems  Reterocyclic compounds systems  Reterocyclic compounds contains two hetero rings  Reterocyclic compounds contains two hetero rings  Reterocyclic compounds systems  Reterocyclic compounds contains two hetero rings
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06 489/08 489/09 489/10 489/12	<ul> <li>. Bridged systems</li> <li>. Spiro-condensed systems</li> <li>. in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>. with oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone</li> <li>. Salts; Organic complexes</li> <li>. with a hetero atom directly attached in position 14</li> <li>. Oxygen atom</li> <li>. containing 4aH-8, 9 c-Iminoethano- phenanthro [4, 5-b, c, d] furan ring systems condensed with carbocyclic rings or ring systems</li> <li>. with a bridge between positions 6 and 14</li> <li> the bridge containing only two carbon atoms</li> <li>Heterocyclic compounds containing in the condensed ring system both one or more rings having oxygen atoms as the only ring hetero atoms and one or more rings having nitrogen atoms as the only ring hetero atoms, not provided for by</li> </ul>	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  Spiro-condensed systems  Spiro-condensed systems  Multiple 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  in which the condensed system contains three hetero rings
487/18 487/20 487/22 <b>489/00</b> 489/02 489/04 489/06 489/08 489/09 489/10 489/12	<ul> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains four or more hetero rings</li> <li>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:</li> <li>With oxygen atoms attached in positions 3 and 6, e.g. morphine, morphinone</li> <li>Salts; Organic complexes</li> <li>with a hetero atom directly attached in position 14</li> <li>Oxygen atom</li> <li>containing 4aH-8, 9 c-Iminoethano- phenanthro [4, 5-b, c, d] furan ring systems condensed with carbocyclic rings or ring systems</li> <li>with a bridge between positions 6 and 14</li> <li>the bridge containing only two carbon atoms</li> <li>Heterocyclic compounds containing in the condensed ring system both one or more rings having oxygen atoms as the only ring hetero atoms and one or more rings having nitrogen atoms as</li> </ul>	493/02 493/04 493/06 493/08 493/10 493/12 493/14 493/16 493/18 493/20 493/22 495/00 495/02 495/04 495/08 495/10	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  Peri-condensed systems  Spiro-condensed systems  Peri-condensed systems  Ridged systems  Ridged 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 systems  Reterocyclic compounds systems  Reterocyclic compounds contains three hetero

495/18	Bridged systems	499/14	<ul> <li>Preparation of salts</li> </ul>
495/20	Spiro-condensed systems	499/16	• • of alkali or alkaline earth metals
495/22	<ul> <li>in which the condensed system contains four or</li> </ul>	499/18	Separation; Purification
	more hetero rings	499/20	• • • via salts with organic bases
497/00	Heterocyclic compounds containing in the condensed system at least one hetero ring having oxygen and sulfur atoms as the only ring hetero atoms	499/21	<ul> <li>with a nitrogen atom directly attached in position 6 and 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</li> </ul>
497/02	in which the condensed system contains two hetero rings	499/22	• • Salts with organic bases; Complexes with organic 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
	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 more hetero rings	499/42	<ul> <li>Compounds with a free primary amino radical attached in position 6</li> </ul>
	more neceto imgs	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 nitrogen and oxygen atoms as the only ring hetero atoms (4-oxa-1-azabicyclo [3.2.0] heptanes, e.g.	499/46	with acyclic hydrocarbon radicals or such radicals substituted by carbocyclic or heterocyclic rings, attached to the carboxamido
	oxapenicillins <u>C07D 503/00</u> ; 5-oxa-1-azabicyclo [4.2.0] octanes, e.g. oxacephalosporins <u>C07D 505/00</u> ;	499/48	radical with a carbon chain, substituted by hetero
	analogues thereof having ring oxygen atoms in other position C07D 507/00)	1997 10	atoms or by carbon atoms having three bonds to hetero atoms with at the most one bond to
498/02	<ul> <li>in which the condensed system contains two hetero rings</li> </ul>		halogen, e.g. ester or nitrile radicals, attached to the carboxamido radical
498/04	Ortho-condensed systems	499/50	• • • substituted in beta-position to the
498/06	Peri-condensed systems		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	<ul> <li>in which the condensed system contains three hetero rings</li> </ul>	499/56	• • • • by carbon atoms having three bonds to hetero atoms with at the most one bond to
498/14	Ortho-condensed systems		halogen
498/16	Peri-condensed systems	499/58	• • • substituted in alpha-position to the
498/18	Bridged systems		carboxamido radical
498/20	Spiro-condensed systems	499/60	by oxygen atoms
498/22	• in which the condensed system contains four or	499/62	by sulfur atoms
	more hetero rings	499/64	by nitrogen atoms
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. compounds containing a ring system of the	499/68	• • • • • • with aromatic rings as additional substituents on the carbon chain
	formula: , e.g. penicillins, penems; $\begin{bmatrix} & & & & \\ & & & \\ & & & & \end{bmatrix}$	499/70	• • • • • • with hetero rings as additional substituents on the carbon chain
	$\dot{C}^{\frac{7}{2}}\dot{N}^{\frac{1}{2}}\dot{C}$ Such ring systems being further condensed, e.g.	499/72	• • • • by carbon atoms having three bonds to hetero atoms
	2,3-condensed with an oxygen-, nitrogen- or sulfur- containing hetero ring	499/74	• • • with carbocyclic rings directly attached to the carboxamido radical
499/04	Preparation	499/76	with hetero rings directly attached to the
499/06	by forming the ring or condensed ring systems     (by microbiological processes C12P 37/00)	499/78	carboxamido radical  Compounds with an amino radical, acylated by
499/08	Modification of a carboxyl radical directly attached in position 2, e.g. esterification	1,77,110	carbonic acid, or by nitrogen or sulfur analogues thereof, attached in position 6
499/10	<ul> <li>Modification of an amino radical directly attached in position 6</li> </ul>	499/80	Compounds with a nitrogen-containing hetero ring, attached with the ring nitrogen atom in
499/12	Acylation		position 6

499/86	<ul> <li>with only atoms other than nitrogen atoms directly attached in position 6 and a carbon atom having</li> </ul>	501/18	• • • 7-Aminocephalosporanic or substituted 7-aminocephalosporanic acids
	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	501/20	<ul> <li>7-Acylaminocephalosporanic or substituted 7- acylaminocephalosporanic acids in which the acyl radicals are derived from carboxylic acids</li> </ul>
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
499/865	<ul><li>6</li><li>with hetero atoms or with carbon atoms having</li></ul>	501/24	with hydrocarbon radicals, substituted by hetero atoms or hetero rings, attached in
	three bonds to hetero atoms with at the most one	<b>7</b> 04/ <b>9</b> 4	position 3
	bond to halogen, e.g. an ester or nitrile radical, directly attached in position 6	501/26	Methylene radicals, substituted by oxygen atoms; Lactones thereof with the 2-
499/87	• Compounds being unsubstituted in position 3		carboxyl group
	or with substituents other than only two methyl radicals attached in position 3, and with a carbon atom having three bonds to hetero atoms with at the	501/28	an aliphatic carboxylic acid, which is substituted by hetero atoms
	most one bond to halogen, e.g. an ester or nitrile radical, directly attached in position 2	501/30	with the 7-amino-radical acylated by an
499/88	Compounds with a double bond between positions	501/00	araliphatic carboxylic acid
477/00	2 and 3 and 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	501/32	with the 7-amino radical acylated by an araliphatic carboxylic acid, which is substituted on the aliphatic radical by hetero atoms
	position 2	501/34	with the 7-amino radical acylated by
499/881	with a hydrogen atom or an unsubstituted		carboxylic acids containing hetero rings
499/883	hydrocarbon radical, attached in position 3  • with a substituted hydrocarbon radical attached in	501/36	Methylene radicals, substituted by sulfur atoms
	position 3	501/38	Methylene radicals, substituted by nitrogen
499/887	with a hetero atom or a carbon atom having three	301/30	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
400/902	attached in position 3		rings attached by the ring nitrogen atom;
499/893	<ul> <li>with a hetero ring or a condensed hetero ring system, directly attached in position 3</li> </ul>	<b>504440</b>	Quaternary compounds thereof
499/897	Compounds with substituents other than a carbon	501/40	with the 7-amino radical acylated by 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
100/00	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 hetero atoms
	azabicyclo [4.2.0] octane ring systems, i.e.	501/46	with the 7-amino radical acylated by
	compounds containing a ring system of the	301/40	carboxylic acids containing hetero rings
	formula: s, e.g. cephalosporins;	501/48	Methylene radicals, substituted by hetero
	$\begin{bmatrix} 7 \\ 8 \end{bmatrix} \begin{bmatrix} 6 \\ 1 \end{bmatrix} \begin{bmatrix} 4 \\ 3 \end{bmatrix}$		rings ( <u>C07D 501/38</u> - <u>C07D 501/46</u> take
	U-N-2/U		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-		an aliphatic carboxylic acid, which is
	containing hetero ring	501/52	substituted by hetero atoms with the 7-amino radical acylated by an
501/02	• Preparation	301/32	araliphatic carboxylic acid
501/04	• • from compounds already containing the ring or	501/54	with the 7-amino radical acylated by
	condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or	301/31	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	<ul> <li>by forming the ring or condensed ring systems</li> </ul>	501/56	• • • • with the 7-amino radical acylated by
	(by microbiological processes <u>C12P 35/00</u> )		carboxylic acids containing hetero rings
501/10	• • • from compounds containing the penicillin ring system	501/57	• • • with a further substituent in position 7, e.g. 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		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	E01/60	3
		501/60	• • 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: , e.g. oxapenicillins, $\begin{bmatrix} C_6 & C_5 & 4 \\ 3 & 1 \end{bmatrix}$		halogen
	├ <u>७                                    </u>	505/22	• • • • • • • further substituted by singly-bound
	clavulanic acid derivatives; Such ring systems	303/22	nitrogen atoms
		505/24	——————————————————————————————————————
	being further condensed, e.g. 2,3-condensed with	303/24	• • • • • • further substituted by doubly-bound
	an oxygen-, nitrogen- or sulfur-containing hetero		nitrogen atoms
502/02	ring	507/00	Heterocyclic compounds containing a condensed
503/02	Preparation (by microbiological processes		beta-lactam ring system, not provided for
	<u>C12P 17/18</u> )		by groups <u>C07D 463/00</u> , <u>C07D 477/00</u> or
503/04	by forming the ring or condensed ring systems		<u>C07D 499/00</u> - <u>C07D 505/00</u> ; Such ring systems
503/06	<ul> <li>from compounds already containing the ring or</li> </ul>		being further condensed
	condensed ring systems, e.g. by dehydrogenation	507/02	• containing 3-oxa-1-azabicyclo [3.2.0] heptane ring
	of the ring, by introduction, elimination or	307/02	
	modification of substituents	507/04	systems
503/08	Modification of a carboxyl group directly	507/04	• containing 2-oxa-1-azabicyclo [4.2.0] octane ring
	attached in position 2, e.g. esterification		systems
503/10	• with a carbon atom having three bonds to hetero	507/06	• containing 3-oxa-1-azabicyclo [4.2.0] octane ring
303/10	atoms with at the most one bond to halogen, e.g. an		systems
	ester or nitrile radical, directly attached in position 2	507/08	<ul> <li>containing 4-oxa-1-azabicyclo [4.2.0] octane ring</li> </ul>
503/12	• unsubstituted in position 6		systems
		<b>512/00</b>	Hotomoonalia aanna ann la aantainin a in tha
503/14	with hydrogen atoms, hydrocarbon or	513/00	Heterocyclic compounds containing in the
	substituted hydrocarbon radicals, other than		condensed system at least one hetero ring having nitrogen and sulfur atoms as the only ring hetero
	a carbon atom having three bonds to hetero		
	atoms with at the most one bond to halogen,		atoms, not provided for in groups <u>C07D 463/00</u> ,
502/16	attached in position 3	£12/02	<u>C07D 477/00</u> or <u>C07D 499/00</u> - <u>C07D 507/00</u>
503/16	Radicals substituted by hetero atoms or by	513/02	• in which the condensed system contains two hetero
	carbon atoms having three bonds to hetero		rings
	atoms with at the most one bond to halogen,	513/04	Ortho-condensed systems
	e.g. an ester or nitrile radical	513/06	<ul> <li>Peri-condensed systems</li> </ul>
503/18	by oxygen atoms	513/08	Bridged systems
503/20	• • • • by sulfur atoms	513/10	Spiro-condensed systems
503/22	• • • • by nitrogen atoms	513/12	. in which the condensed system contains three hetero
505/00	TT / 12 1 / 1 / 7 1		rings
505/00	Heterocyclic compounds containing 5-oxa-1-	513/14	Ortho-condensed systems
	azabicyclo [4.2.0] octane ring systems, i.e.	513/16	. Peri-condensed systems
	compounds containing a ring system of the	513/18	Bridged systems
	formula: , e.g. oxacephalosporins;		
		513/20	Spiro-condensed systems
	Ċ <sup>8</sup> -N <sup>1</sup> -2-3-Ċ	513/22	• in which the condensed system contains four or
	C		more hetero rings
	Such ring systems being further condensed, e.g.	515/00	Heterocyclic compounds containing in the
	2,3-condensed with an oxygen-, nitrogen- or sulfur-	212/00	condensed system at least one hetero ring
	containing hetero ring		having nitrogen, oxygen, and sulfur atoms
505/02	<ul> <li>Preparation (by microbiological processes</li> </ul>		as the only ring hetero atoms, not provided
	<u>C12P 17/18</u> )		for in groups <u>C07D 463/00</u> , <u>C07D 477/00</u> or
505/04	• • by forming the ring or condensed ring systems		C07D 499/00 - C07D 507/00
505/06			
		515/02	
	from compounds already containing the ring or	515/02	. in which the condensed system contains two hetero
	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation</li> </ul>		<ul> <li>in which the condensed system contains two hetero rings</li> </ul>
	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or</li> </ul>	515/04	<ul> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> </ul>
505/08	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents</li> </ul>	515/04 515/06	<ul> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> </ul>
505/08	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents</li> <li>Modification of a carboxyl group directly</li> </ul>	515/04 515/06 515/08	<ul> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Bridged systems</li> </ul>
	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents</li> <li>Modification of a carboxyl group directly attached in position 2, e.g. esterification</li> </ul>	515/04 515/06	<ul> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> </ul>
505/08 505/10	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents</li> <li>Modification of a carboxyl group directly attached in position 2, e.g. esterification</li> <li>with a carbon atom having three bonds to hetero</li> </ul>	515/04 515/06 515/08	<ul> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Bridged systems</li> </ul>
	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents</li> <li>Modification of a carboxyl group directly attached in position 2, e.g. esterification</li> <li>with a carbon atom having three bonds to hetero atoms with at the most one bond to halogen, e.g. an</li> </ul>	515/04 515/06 515/08 515/10	<ul> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Bridged systems</li> <li>Spiro-condensed systems</li> </ul>
505/10	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents</li> <li>Modification of a carboxyl group directly attached in position 2, e.g. esterification</li> <li>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</li> </ul>	515/04 515/06 515/08 515/10	<ul> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains three hetero</li> </ul>
505/10 505/12	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents</li> <li>Modification of a carboxyl group directly attached in position 2, e.g. esterification</li> <li>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</li> <li>substituted in position 7</li> </ul>	515/04 515/06 515/08 515/10 515/12	<ul> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains three hetero rings</li> <li>Ortho-condensed systems</li> </ul>
505/10	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents</li> <li>Modification of a carboxyl group directly attached in position 2, e.g. esterification</li> <li>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</li> <li>substituted in position 7</li> <li>with hetero atoms directly attached in position</li> </ul>	515/04 515/06 515/08 515/10 515/12 515/14 515/16	<ul> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains three hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Peri-condensed systems</li> </ul>
505/10 505/12 505/14	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents</li> <li>Modification of a carboxyl group directly attached in position 2, e.g. esterification</li> <li>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</li> <li>substituted in position 7</li> <li>with hetero atoms directly attached in position 7</li> </ul>	515/04 515/06 515/08 515/10 515/12 515/14 515/16 515/18	<ul> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains three hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Bridged systems</li> <li>Bridged systems</li> </ul>
505/10 505/12	<ul> <li>from compounds already containing the ring or condensed ring systems, e.g. by dehydrogenation of the ring, by introduction, elimination or modification of substituents</li> <li>Modification of a carboxyl group directly attached in position 2, e.g. esterification</li> <li>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</li> <li>substituted in position 7</li> <li>with hetero atoms directly attached in position</li> </ul>	515/04 515/06 515/08 515/10 515/12 515/14 515/16	<ul> <li>in which the condensed system contains two hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Bridged systems</li> <li>Spiro-condensed systems</li> <li>in which the condensed system contains three hetero rings</li> <li>Ortho-condensed systems</li> <li>Peri-condensed systems</li> <li>Peri-condensed systems</li> </ul>

515/22	<ul> <li>in which the condensed system contains four or more hetero rings</li> </ul>
517/00	Heterocyclic compounds containing in the condensed system at least one hetero ring having selenium, tellurium, or halogen atoms as ring hetero atoms
517/02	110001 0 40011115
317/02	<ul> <li>in which the condensed system contains two hetero rings</li> </ul>
517/04	Ortho-condensed systems
517/06	Peri-condensed systems
517/08	Bridged systems
517/10	Spiro-condensed systems
517/12	<ul> <li>in which the condensed system contains three hetered</li> </ul>
317/12	rings
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
· · · <b></b>	more hetero rings
519/00	Heterocyclic compounds containing more than one system of two or more relevant hetero rings

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 <u>C07D 463/00</u>, <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 C07D 201/00 - C07D 519/00.